

NATIONAL ARCHIVES AND RECORDS SERVICE  
WITHDRAWAL SHEET (PRESIDENTIAL LIBRARIES)

FORM OF DOCUMENT	CORRESPONDENTS OR TITLE	DATE	RESTRICTION
<del>Memo</del>	<del>Memo from Hornig for Jack Valenti</del> <i>3/18</i>	<del>3/15/65</del>	<del>A</del>
<del>Letter</del>	<del>Letter from Hornig for Dr. /Albert Wheelson</del>	<del>3/11/65</del>	<del>A open 12-8-01 NS/PAC 04-110</del>
Letter	Letter from Hornig for Milton Harris	1/23/65	C
<del>Memo</del>	<del>Memo from Hornig for Bundy</del> <i>3/18</i>	<del>1/22/65</del>	<del>A</del>
Memo	Memo from Hornig for Bill Moyers	1/18/65	C
<del>Letter</del>	<del>Letter from Hornig for Victor Weisskopf</del> <i>open 3/10/01</i>	<del>1/13/65</del>	<del>C</del>

FILE LOCATION

Chronological File: Jan.-March 1965

RESTRICTION CODES

- (A) Closed by Executive Order 11652 governing access to national security information.
- (B) Closed by statute or by the agency which originated the document.
- (C) Closed in accordance with restrictions contained in the donor's deed of gift.

March 31, 1965

**MEMORANDUM FOR KERMIT GORDON**

This is in response to your March 18 memorandum inquiring about the usefulness of continuing certain interagency committees in existence.

Ad hoc groups such as the Steering Committee for the Inter-departmental Energy Study will of course disappear as soon as their tasks are completed, and I assume that it is not necessary to comment on them. The Task Force on Chemical Abstracts falls in this category, but for the present it has a very definite job to do.

One should look at the Science Information Council, chaired by the National Science Foundation, to see if its functions can be assumed by a new committee in this field planned by the National Academy of Sciences/National Research Council.

The Committee for the Development of Cost Principles for Research Agreements with Educational Institutions, chaired by the Bureau of the Budget, can presumably be terminated now that the appropriate cost principles have been developed.

The existence of S. 21, the Water Resources Planning Act, suggests that a number of committees related to water resources should be reviewed to determine whether their continued existence is necessary. These committees include the following:

Interagency Committee on Water Resources  
Columbia Basin Interagency Committee  
Badger Wash Study Committee, Colorado  
Ground Water Work Group  
Sheep Creek Watershed Committee, Utah

- 2 -

**Cooperative Water Yield Procedures Study Advisory Group  
Work Group on Flow Frequency Analysis  
Allegheny Reservoir Advisory Council  
Savannah River Advisory Board**

**The Committee on Natural Resources of the Federal Council on Science and Technology has fulfilled its purpose and can now be terminated.**

**Although I do not have detailed knowledge of its activities, I would suggest that you review carefully the Committee on Specialized Manpower to determine whether it should continue, and also suggest that consideration be given to reducing the President's Committee on Manpower to a status below the Cabinet level.**

**The Interagency Committee on Pest Control, chaired by Interior, is regarded here as a good candidate for extinction. It has been superseded by the Federal Committee on Pest Control and other mechanisms.**

(signed) Donald F. Hornig

**Donald F. Hornig  
Director**

**Rharlow:jb:3-12-65  
Bcc: RB file and chron  
OST file and chron  
DFA chron  
One copy routed to  
Linsley  
Knox  
Hooper  
Buckley  
Kidd  
Beckler**

**In reply to S&T Cont. No. 0360.**



March 31, 1965

Dear Dr. Kirkbride:

The President has asked me to reply to your letter of March 24, 1965. The President is interested in bringing the resources and talents of American industry into more active participation in the oceanographic effort of the nation. The specific elements of your plan for this participation and your ideas on appropriate mechanisms would be of great interest to us. I would be glad to discuss these matters with you or with other representatives of the National Security Industrial Association, and to convey the results of this discussion to the President.

Sincerely yours,

(signed) Donald F. Hornig

Donald F. Hornig  
Special Assistant for  
Science and Technology

Dr. Chalmers G. Kirkbride  
Vice President  
Research and Engineering  
Sun Oil Company  
1608 Walnut Street  
Philadelphia, Pennsylvania 19103

CVKidd:jan

cc: White House Files (2) w/cy incoming  
DFH chron ✓  
CVK file & chron w/cy incoming  
S&T file & chron w/incoming

In reply to S&T Cont. No. 0436



March 31, 1965

**MEMORANDUM FOR**

**Perry Barber**

The foreseeable space requirements for my Office were outlined in my March 16 memorandum to Jack Valenti, a copy of which is attached. In more specific terms, this means a minimum need for six full-size offices contiguous to our present space as soon as they can be made available, and without reference to the additional need expected to develop by midsummer. The six offices would be allocated as follows:

1. Dr. Herbert York, Vice Chairman of the President's Science Advisory Committee. The room would also be used by the new PSAC Program Committee. (Dr. York is presently assigned temporarily to Room 218, which is not contiguous to other OST space.)
2. PSAC members and consultants who are in Washington on short term assignments. (There are 18 members of PSAC and we use some 300 consultants.)
3. The two men now using Room 593 (which is inconveniently located and on short-term loan to OST).
4. A GS-18 oceanographer who is about to join the OST staff.
5. A GS-18 specialist in civilian technology who is about to join the OST staff.
6. Secretarial assistance for the above.

An additional six offices would be required for the proper housing of the four senior staff men (GS-17 and 18) and secretarial assistance hopefully to be authorized by Congress for the fiscal year beginning July 1.

In the interest of efficiency, we of course would like to have contiguous space, which would mean drawing from the 276-281 block and the 214-230 block of offices in this building.

You have raised a question about the availability of Conference Rooms 208 and 213 for possible conversion to office space. I believe that the attached record of use during the past three months verifies the continuing requirement to use these rooms for meetings. In fact, we often have to look to the National Security Council and the Bureau of the Budget for use of the conference rooms they control to accommodate our panels and committees.

Rooms 208 and 213 are currently assigned to the White House rather than to this Office and become available to us through a request placed through Mr. Howell's office. White House need for the rooms has always taken precedence over OST's needs. At the time of the railroad negotiation last fall, rooms 213 and 208 were taken over and we were without sufficient meeting space for some two or three weeks.

I strongly feel that the answer to our need for additional office space does not lie in the reduction of conference rooms critically needed by the President's Science Advisory Committee and OST as well as the other White House units. Rather, we badly need another conference room to house our expanding activities.

If any of the above raises any problems, please call me.

Donald F. Hornig  
Special Assistant for  
Science and Technology

**Attachments:**

- 1-Cy memo to JValenti 3/16/65
- 2-Conference Rooms Schedules for  
Jan-Feb-March 1965

Barlow;Hornig;jb;eac

DFH Chron. & File  
Barlow Chron. & File  
S&T Chron. & File



March 31, 1965

Dear Abe:

Thank you for your nice letter of March 25th. I am very proud to be an honorary alumnus of Yeshiva, and I certainly enjoyed the ceremonies on March 7th.

I would be very happy to see you whenever you are in town. As far as my schedule is concerned, I will be out of town next Monday, April 5th, but expect to be here the rest of the week. I have a fairly clear afternoon on Tuesday, April 6th, or could be available on Wednesday, April 7th at about 10:30 a.m. Let me know which date is best for you.

Sincerely,

Donald F. Hornig  
Special Assistant for  
Science and Technology

Dr. A. Gelbart  
Dean, Belfer Graduate School of Science  
Yeshiva University  
Amsterdam Avenue and 186th Street  
New York, New York 10033

eac  
tickle April 6



30 March 1965

Dear Christina:

I would like to congratulate you on winning the prize for the best exhibit in the seventh grade of Paul Junior High.

You are growing up in an age in which Science is an important part, and your willingness to work hard to better understand the natural world is commendable.

I hope that the success of your botany project will encourage you to continue to excel in all your studies.

Sincerely,

Donald F. Hornig  
Special Assistant to  
the President for  
Science and Technology

Miss Christina Mallus  
Paul Junior High School  
Washington, D. C.

dzRobinson:hh

S&T

S&T

~~DEH~~

DZR

DZR

30 March 1965

Dear Mark:

I would like to congratulate you on winning the prize for the best exhibit in the ninth grade of Paul Junior High.

Today many people are involved in exploring the unknown, and the work you have done in producing your physics project is in a great scientific tradition.

I hope that as you go on to High School and College you will continue to increase your knowledge and understanding of the world around us.

Sincerely,

Donald F. Hornig  
Special Assistant to  
the President for  
Science and Technology

Mr. Mark Mallus  
Paul Junior High School  
Washington, D. C.

DZRobinson:hh

S&T

S&T

DEM

DZR

DZR

30 March 1965

Dear Stanton:

I would like to congratulate you on winning the prize for the best exhibit in the eighth grade of Paul Junior High.

You are growing up in an age in which Science is an important part, and your willingness to work hard to better understand the natural world is commendable.

I hope that the success of your engineering project will encourage you to continue to excel in all your studies.

Sincerely,

Donald F. Hornig  
Special Assistant to  
the President for  
Science and Technology

Mr. Stanton Wormley  
Paul Junior High School  
Washington, D. C.

DZROBINSON:hh

S&T

S&T

~~DEH~~

DZR

DZR



EXECUTIVE OFFICE OF THE PRESIDENT  
OFFICE OF SCIENCE AND TECHNOLOGY

March 30, 1965

MEMORANDUM TO OST STAFF

SUBJECT - Time and Attendance

Attached is a report by the General Accounting Office on an audit of OST payroll procedures, made last summer and covering the previous two-year period. It makes two points in particular which the entire OST staff should be aware of:

1. Daily reporting and recording of time and attendance information is required for all employees.
2. An employee cannot be absent on compensatory time until after properly authorized overtime has been performed.

It may be useful in this connection to remind the secretaries that they are relied upon to report time and attendance information for the professional staff men with whom they work, as well as for themselves. Mrs. Graff should be notified directly and promptly of all overtime and all absences -- including travel, sick leave, annual leave and compensatory time.

Donald F. Hornig  
Director

Attachment:  
Cy ltr 3/12/65 fm GAO.



UNITED STATES GENERAL ACCOUNTING OFFICE

WASHINGTON, D.C. 20548

CIVIL ACCOUNTING AND  
AUDITING DIVISION

SEP 12 1965

Dr. Donald F. Hornig, Director  
Office of Science and Technology  
Executive Office of the President

Dear Dr. Hornig:

We have made an audit of the pay of employees of the Office of Science and Technology, Executive Office of the President, processed by the National Security Council for the period July 1, 1962, through July 13, 1964, pursuant to our authority under the Budget and Accounting Act, 1921 (31 U.S.C. 53), and the Accounting and Auditing Act of 1950 (31 U.S.C. 67). Our audit included an examination and verification of payroll and related transactions for selected periods and an evaluation of payroll procedures and administration. Our audit disclosed certain weaknesses in the maintenance of time and attendance and leave records, and in the administrative control over compensatory time granted in lieu of overtime compensation.

We found that certain employees maintained their own time and attendance records. Since the time and attendance reports are the basic accounting documents for providing affirmative evidence of entitlement to pay, such practice does not provide proper administrative control which contemplates the independent maintenance and certification of employee time and attendance reports by designated employees.

The hours in duty status were posted in advance or at the end of a pay period on some of the employee time and attendance records, whereas daily recording is required by 6 GAO 3030.40 and 9070.23. Also, when employees worked on holidays, only the number of hours worked were shown on the time and attendance records. The payroll office should have information as to whether the hours worked were within or outside the regular scheduled tour of duty to permit a determination of whether holiday pay or the overtime rate should be paid, or whether compensatory time may properly be credited.

Section 201 of the Federal Employees Pay Act of 1945, as amended by the act of September 1, 1954, authorizes overtime compensation for all hours of work officially ordered or approved in excess of 40 hours in any administrative workweek (5 U.S.C. 911). Section 202 of the same act authorizes compensatory time off in lieu of overtime compensation

XEROX FROM QUICK COPY

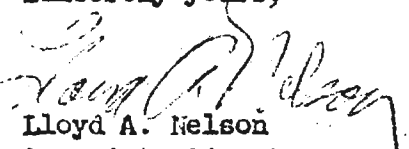
(5 U.S.C. 912). From the provisions of these acts it follows that employees should not be paid for overtime work unless it has been administratively authorized on the basis of actual need for services in excess of the basic 40 hour workweek.

Our review disclosed that employees maintained their own individual records of overtime work, credited themselves with compensatory time and charged absences to compensatory time without regard to the requirement that overtime work be approved in writing by supervisory officials (section 550.111 of the Pay Administration Regulations of the Civil Service Commission, FPM Supplement 990-1). For instance, on three occasions one employee had periods of absence that exceeded the amount of time that was charged to compensatory time, and, in another case, an employee with no annual leave or compensatory time to her credit absented herself on compensatory time in advance of working overtime. An employee is not entitled to overtime compensation until after properly authorized overtime work has been performed.

Failure to require the maintenance of adequate records in support of expenditures from appropriated funds could jeopardize the rights of employees whose salary and leave payments may be withheld for lack of affirmative evidence of entitlement to pay. We recommend that properly maintained records supported by evidence of official approval of all compensated overtime including compensatory time be kept to safeguard the interests of both the Government and the employees.

A copy of this letter has been forwarded to the Executive Secretary of the National Security Council where the payments are processed. We appreciate the cooperation given to our representative during the audit.

Sincerely yours,

  
Lloyd A. Nelson  
Associate Director

XEROX FROM QUICK COPY



March 14, 1965

Dear Senator Magnusson:

In reply to your letter of February 14th, requesting comments on S. 949, a bill introduced by Senator Byrd and others to promote economic growth by supporting state and regional technological service centers, I would like to offer the following views.

This bill results from several years of study by agencies of the Executive Branch, supported by leading scientific and economic consultants from outside the Government, of the problems of stimulating and extending technological innovation in the civilian sector of the economy. It is a modest proposal - fully supported by this Administration - that merits the support of the Congress.

To a limited degree, the bill is modeled after the agricultural extension programs that have successfully placed the fruits of agricultural research in the hands of the American farmer with enormous benefits to the Nation. But the measure will also break new ground as a partnership -- between the Federal Government, the states, our universities and industries -- to make technological achievements more widely and more readily available to a broad range of industrial firms at a time when industrial products are becoming increasingly sophisticated, when international competition is stiffening, and when public demands for goods and services are constantly increasing.

By authorizing the establishment in every state of university-based centers capable of making available to industry a wide variety of useful technical services, the bill would contribute to two especially important and timely objectives:-

First, both industry and the universities would benefit from the resulting interchange of ideas and information. There are throughout the country many enterprises that because of limited resources or physical isolation have failed to become

Harving Chon

ware or take advantage of the rich store of relevant information and techniques that fresh scientific discoveries are constantly increasing, often under Federal sponsorship. On the other hand, our university educational programs could also, to a limited extent, benefit from increased involvement in and commitment to the economic development of their environment. New England and California typify regions of the country where such industry-university interdependence has significantly paced both economic and intellectual progress.

A second merit of the bill is that it would contribute to carrying forward this progress in every state of the Nation. Recent studies in both the Executive and Legislative Branches indicate the desirability of sound programs to stimulate technological development throughout the country. In many states, this program would generate the first organized approach along such lines. Significantly, the program would rest on state-based initiative and cooperative funding, within the context of planning on both a long-range and annual basis. Furthermore, the provision of incentives in Section 7 for regional and interstate cooperation is especially sound and responsive to the regional nature of many of our economic needs and opportunities.

S. 944, I believe, would constitute a solid first step in an attempt to stimulate new technology and new job opportunities. Should you desire a further expression of my views on this bill, I would be glad to provide it.

Sincerely,

(signed) Donald F. Hornig

Donald F. Hornig  
Director

The Honorable Warren G. Magnuson  
Chairman, Committee on Commerce  
United States Senate

SR:VKB:gl  
DISTRIBUTION:  
1-Addresses  
2-S. Hughes, BoB  
3-Dr. Conley  
4-Mr. Becker  
5-6-OST chron & subj  
7-8-White House Cong'l  
9 - Hornig chron  
10-11-SR:VKB files

March 30, 1965

X

DONALD F. HORNIG

Dr. John E. Harris  
36 Dietz Road  
Hyde Park, Massachusetts 02136

REGRET THAT APPOINTMENT APRIL 5TH WILL HAVE  
TO BE CANCELLED SINCE I MUST BE OUT OF TOWN FOR  
MEETING, WOULD BE AVAILABLE 10:00 AM APRIL 6TH  
OR 10:00 APRIL 12.



March 29, 1965

MEMORANDUM FOR

THE PRESIDENT

This constitutes the Fourth Quarterly Report of the Office of Science and Technology required by Budget Bureau Circular No. A-64 dated March 31, 1964:

Total employment - September, 1964	63
Total employment - December, 1963	48
Total employment - December, 1964	57
Full-time permanent - September, 1964	33
Full-time permanent - December, 1963	32
Full-time permanent - December, 1964	31

There has been no significant change since the OST report of September 23, 1964. We are not now at full strength because of staff turnover, but expect to have all 34 authorized positions filled at the end of June, 1965. The Office will continue to operate with all possible efficiency.

(signed) Donald F. Hornig

Donald F. Hornig  
Director

RB:MLChatrnuck:jb:3-29-65

Orig +2cys to BOB via MLC

Bcc: RB file and chron

S&T file and chron/ ~~DEH~~ chron/ MLC

20506

March 29, 1965

Dear Mr. Markel:

In accordance with your request, the Interagency Committee on Oceanography has prepared answers to four questions in response to questions posed by Senator Magnuson in his letter to Dr. Hornig of February 24:

1. Activities of ICO which parallel those of NASC
2. Report of ICO sponsorship of submersibles
3. Status report on U. S. Buoy Development
4. Chart of oceanographic vessels of the U. S. S. R., Canada, United Kingdom and Japan

A chart of contract funding to industry by the Federal agencies participating in the program will be submitted at a later date.

Dr. Haworth of the National Science Foundation is including in his testimony a description of agency missions, operations, and accomplishments including a breakdown of research and survey ships.

The ICO staff is currently in process of preparing ICO Pamphlet #19, "Oceanographic Research in the Federal Government", which will be completed in May. This pamphlet will enumerate accomplishments of the program in considerable detail. It would not be feasible, however, to try to expedite this to any great degree, owing to the difficulty of eliciting complete information from all of the agencies.

- 2 -

Please do not hesitate to ask for any further information relating to the oceanographic program.

Sincerely yours,

Charles V. Kidd  
Technical Assistant

Mr. Daniel Markel  
Professional Staff Member  
Senate Committee on Commerce  
Room 5202 New Senate Office Building  
Washington, D. C.

4 Encls (as listed)

CVKidd:jcn

cc: White House Files (2) w/cy of encls  
DFH chron ✓  
CVK file & chron w/cy encls.  
S&T file & chron w/cy encls.

Reference: S&T Cont. No. 0291



**March 26, 1965**

**MEMORANDUM FOR**

**Mr. Valenti**

**Attached is the memorandum from the President to Jim Webb that you requested as a follow-up to my previous memorandum submitting my recommendation.**

**Donald F. Hornig  
Special Assistant for  
Science and Technology**

**Attachment**



March 26, 1965

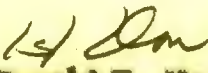
Dear Lee:

With regard to Bill Knox's letter to you of 10 March, I understood that Bill suggested Bill Baker primarily because of Baker's long-standing, continuing involvement and interest in the information problem rather than his association with the National Science Board.

You may remember that Bill chaired the initial PSAC Panel in 1958 on Scientific and Technical Information, was a member of the 1961-1962 PSAC Panel on the subject, and finally last year was a member of the OST Ad Hoc Panel on Scientific and Technical Communication.

Let's get together on this early next week.

Sincerely,

  
Donald F. Hornig  
Director

Dr. Leland J. Haworth  
Director  
National Science Foundation  
Washington, D. C.

WTKNOX;DFH:eac

DFH Chron. ✓  
WTK Chron. & File  
S&T Chron. & File

March 26, 1965

Dear Dr. Seitz:

As you know there are many interesting and important scientific problems in near earth space which can be attacked effectively either through the use of earth satellites, such as those in the Orbiting Geophysical Laboratory series for example, or through the employment of properly designed instruments placed into near earth space by sounding rockets with requisite payload and attitude control capabilities. In the course of the last few months the Space Science Panel of the PSAC has had occasion to review several related facets of the National Space Program. These reviews led the Panel to conclude that a study by the NAS of such alternative approaches to understanding of many phenomena observable from near earth space would be of value to the PSAC and to several government agencies. In part, this conclusion was based on the fact that the NAS, in previous studies of the National Space Program, has had occasion to examine in some detail the advantages and problems of conducting space science experiments via sounding rockets, and that a summary of the results of such prior reviews should be an essential part of any new effort along these lines.

Accordingly, I would appreciate it greatly if the National Academy of Sciences would find it feasible and convenient within the next few months to undertake a study, and to furnish me with a report, including recommendations, concerning the relative difficulties and benefits associated with the employment of earth satellites and of appropriately designed sounding rockets for various classes of near earth space research. It would be particularly useful to have the results of an NAS study along these lines by the end of September, 1965.

You should also know that I have been in touch with Dr. Hugh Dryden at NASA in this connection. He suggests that the study I am

- 2 -

requesting might well be accomplished in part of the Academy's Summer Study scheduled for June and July, 1965.

I would appreciate being advised in the near future whether the above request is acceptable to the Academy.

Sincerely yours,

(signed) Donald F. Hornig

Donald F. Hornig  
Director

Dr. Frederick Seitz  
President  
National Academy of Sciences  
Washington, D. C.

DFH Chron  
NEG Chron  
NEG Subj  
S&T Chron  
S&T Subj

NEG:hk

S&T Control #401



March 26, 1965

Dear Mr. Rauth:

Thank you for your letter of March 10th. I have delayed replying in the hope that I could arrange my time while in Denver on the 29th so that I could accept your kind invitation to visit the Martin facilities. Unfortunately, however, as you have probably heard by now from Mr. Bradley, this has not proved possible. I will have to leave Denver immediately following my speech on Monday morning to return to Washington.

I am very much interested in seeing Martin-Denver and hope that a visit can be arranged some time later in the year.

Sincerely,

Donald F. Hornig  
Special Assistant for  
Science and Technology

Mr. J. Donald Rauth  
Vice President  
Martin Company  
Denver 1, Colorado

eac "M"



March 26, 1965

Dear Dr. Smith:

Thank you for your kind invitation to be the guest of the Pharmaceutical Manufacturers Association on April 8th at the dinner in honor of the 17th anniversary of the U. S. Patent System. Mrs. Hornig and I very much appreciate your invitation. We have, however, already accepted an invitation to the dinner from the Commissioner of Patents which arrived shortly before yours. We are looking forward to the occasion and hope to see you then.

Sincerely,

Donald F. Hornig  
Special Assistant for  
Science and Technology

Dr. Austin Smith  
President  
Pharmaceutical Manufacturers Association  
1155 Fifteenth Street, N. W.  
Washington, D. C. 20005

eac

20506

March 26, 1965

Dear Mr. Chairman:

Submitted herewith in response to your request at the hearings on oceanography on February 19 are answers to questions which you suggested be forwarded by correspondence (Attachment A).

During the hearing, you suggested that we provide you with a comparison of the oceanographic fleets of the U. S. and the U. S. S. R. A statement on this subject is attached for the record (Attachment B). You also requested that we provide for the record the names of the 16 universities which grant degrees in oceanography or closely allied sciences (Attachment C).

I hope that this information meets the needs of the Committee. If further details are needed, please do not hesitate to call upon us.

Sincerely yours,

(signed) Donald F. Hornig

Donald F. Hornig  
Director

Honorable Warren G. Magnuson  
Chairman  
Committee on Commerce  
United States Senate  
Washington, D. C.

Attachments

CVKidd:jcn  
cc: White House Files (2)  
DFH chron  
SRRivkin  
S&T file & chron  
CVK file & chron

S&T Cont. 0291

March 23, 1965

Dear Mr. Nelson:

Thank you for your March 12 letter reporting on the audit of pay records and procedures of the Office of Science and Technology. The recommendations in the report are genuinely helpful to the efficient functioning of this relatively new organization.

Steps have been taken to improve administrative controls and record-keeping procedures. Some of these improvements were made shortly prior to the audit, and some were made as a result of informal discussion with your auditor.

I assure you that every effort will be made to maintain accurate records which will protect the interests of both the employees and the Government.

Sincerely yours,

(signed) Donald F. Hernig

Donald F. Hernig  
Director

Mr. Lloyd A. Nelson  
Associate Director  
Civil Accounting and  
Auditing Division  
U.S. General Accounting Office  
Washington, D. C. 20548

RBarlow:jb:3-25-65  
Bcc: RB file and chron  
S&T file and chron  
DFH chron  
MLC  
Adm. Officer, NSC

Bcc: Dr. MacLeod - for info.

In reply to S&T Cont. 0371.

~~CONFIDENTIAL~~

March 25, 1965

Dear Bob:

Attached for your information and comments are the questions raised in conjunction with the Agenda for the next PSAC-ASW meeting, and a copy of a draft letter prepared for Dr. Cheatham. These are being sent at Dr. Hornig's request.

Sincerely,

Vincent V. McIlac  
Technical Assistant

Enclosures

Honorable Robert W. Morse  
Assistant Secretary of the Navy  
(Research and Development)  
Department of Defense  
Washington, D. C.

VVM:mts

cc: Dr. Hornig ✓  
VVM subj. and chron  
S&T file and chron

~~CONFIDENTIAL~~

When the attachments are removed,  
this document becomes *unclassified*



March 23, 1965

MEMORANDUM FOR

John Macy

Attached is a memorandum I have written to the President regarding the appointment of Dr. Marvin L. Goldberger to the President's Science Advisory Committee.

I hope that action on this recommendation can be expedited so that the appointment can be made well in advance of the next meeting of the Committee on April 19 and 20, together with the four persons approved by the President following my memorandum of January 27th. Security clearances on all five are now in hand.

Thank you for your assistance.

(signed) Donald F. Hornig

Donald F. Hornig

SA for S & T

DZBeckler;khb  
CC: DFH Chron & subj

Mr. Beckler

S&T File

S&T Chron

M. Chatruek

March 25, 1965

**MEMORANDUM FOR**

**THE PRESIDENT**

**Subject: Appointment of New Member to the President's Science Advisory Committee**

In response to my memorandum of January 27, 1965, you approved the appointment of four new members to the President's Science Advisory Committee to replace an equal number whose terms expired last December.

To fill one of the remaining three vacancies on the Committee, I would like to recommend the appointment of Professor Marvin L. Goldberger, Higgins Professor, Palmer Physical Laboratory, Princeton University. The Science Advisory Committee joins me in this recommendation.

Dr. Goldberger, a distinguished theoretical physicist, has made significant contributions to our thinking in the application of science and technology to advanced weapons systems. He served as a member of the PSAC panels on antiballistic missiles and strategic delivery systems, and as a member of a key study group of the Institute for Defense Analyses. His appointment to the Science Advisory Committee would strengthen its capabilities in the area of national security in addition to benefiting from his broad competence and experience. This is of concern to me since a great part of PSAC's military competence resided in members whose terms expired last December.

He currently holds White House Top Secret and Atomic Energy clearances. If you approve his appointment, we hope to make a single public announcement of the appointment of all five new members.

DBeckler;khb  
CC: DFH subj. & chron.  
Mr. Beckler  
S&T File  
S&T Chron  
M. Chatrnuck

Donald F. Hornig

**GOLDBERGER, Prof. Marvin L(eonard), Palmer Physical Lab.,  
Princeton University, Princeton, N. J. THEORETICAL PHYSICS.  
Born: Chicago, Ill., Oct. 22, 1922. B.S., Carnegie Inst. Tech.,  
1943; Ph. D. (physics), Chicago, 1948. Physicist, radiation lab.,  
California, 1948-49; res. assoc. PHYSICS, Mass. Inst. Tech.,  
1949-50; asst. prof., Chicago, 1950-53, assoc. prof., 1953-57;  
HIGGINS PROF., PALMER PHYS. LAB., PRINCETON, 1957-  
Higgins vis. assoc. prof., 1953-54. U.S.A., 1943-46. Phys. Soc.  
High energy nuclear physics; meson physics.**

**Source: American Men of Science, Tenth Edition**



March 26, 1965

Dear Dr. Goldberger:

I would like to invite you to serve as a member of the President's Science Advisory Committee for a term ending December 31, 1968.

With the ever increasing impact of science and technology on the affairs of government, there is both an opportunity and a need for the Science Advisory Committee to assure that our policies and programs take proper account of this impact and of the nation's scientific and technological potential.

Your willingness to accept membership on the Committee, with the substantial personal commitment that it entails, will help to assure its continuing contributions to that objective.

Sincerely yours,

Dr. Marvin L. Goldberger  
Palmer Physical Laboratory  
Princeton University  
Princeton, New Jersey 08540

LBJ:DFH:DZB:khh

CC: Presidential Files

White House Files(2)

Dr. Hornig's Files - Rm. 200 EOB

Mr. Beckler

Mrs. Robb

Mrs. Chatrnick

S&T File

S&T Chron



*Haring*

20506

25 March 1965

Dear Glenn:

As was mentioned at the March 23 Federal Council meeting, a significant and forward step has been taken by the Council's Committee on Scientific and Technical Information (COSATI) by forming the Task Group on National System(s) for Scientific and Technical Information. The major goal of this group is to develop a conceptual framework for a national network of information systems in science and technology, so that individual agency (and non-government) programs can be planned with better understanding of their contribution to a more effective national network.

The Task Group members are deeply involved in their continuing agency operations, but have developed a preliminary working concept for a national information systems network. At this point, the group finds it necessary to secure the services of a competent contractor to conduct studies which appear required, and to participate with the members of the Task Group in the preparation of conclusions and recommendations. Specifications will be drawn up to select a qualified, unbiased contractor, especially competent in information systems development and capable of mounting a concentrated effort so that an early completion of the task will be accomplished, perhaps within six to eight months.

This letter confirms our request that those Federal agencies listed below make funds available to COSATI for this purpose. Allocation of funds from the agencies most actively interested would appear equitable on the following basis:

DOD	\$ 30,000
HEW	20,000
NASA	20,000
AEC	20,000
Commerce	10,000
NSF	10,000
	<u>\$110,000</u>

If you are in agreement with this request, please arrange to transfer funds to the Department of Defense, as it is proposed that the Department of Defense administer the contract. If you find that your agency is unable to go along with the request, please let me know.

Your action by April 1 is earnestly requested.

Sincerely yours,

(signed) Don

Donald F. Hornig  
Chairman

**IDENTICAL LETTERS TO EACH:**

Dr. Edward W. Dempsey, HEW; cc: Dr. Wm. M. Stewart  
Honorable James E. Webb, NASA; cc: Mr. Melvin Day  
Honorable Glenn T. Seaborg, AEC; cc: Mr. Edward J. Brunekant  
Dr. J. Herbert Holloman, Commerce; cc: Dr. Donald A. Schon, NBS  
Dr. Leland J. Haworth, NSF; cc: Dr. Burton W. Adkinson

cc: Lt. Gen. Wm. J. Ely, USA, Chmn, COSATI Task Group on  
National System(s) for Scientific and Technical Information  
Col. A. A. Aines, USA, Exec. Secy, COSATI

WTK:las

WTK file-chron; OST file-chron  
Dr Hornig Dr. Kidd

20506

March 25, 1965

Dear Harold:

As was mentioned at the March 23 Federal Council meeting, a significant and forward step has been taken by the Council's Committee on Scientific and Technical Information (COSTI) by forming the Task Group on National System(s) for Scientific and Technical Information. The major goal of this group is to develop a conceptual framework for a national network of information systems in science and technology, so that individual agency (and non-government) programs can be planned with better understanding of their contribution to a more effective national network.

The Task Group members are deeply involved in their continuing agency operations, but have developed a preliminary working concept for a national information systems network. At this point, the group finds it necessary to secure the services of a competent contractor to conduct studies which appear required, and to participate with the members of the Task Group in the preparation of conclusions and recommendations. Specifications will be drawn up to select a qualified, unbiased contractor, especially competent in information systems development and capable of mounting a concentrated effort so that an early completion of the task will be accomplished, perhaps within six to eight months.

This letter confirms our request that those Federal agencies listed below make funds available to COSTI for this purpose. Allocation of funds from the agencies most actively interested would appear equitable on the following basis:

DOD	\$ 30,000
HEW	20,000
NASA	20,000
AEC	20,000
Commerce	10,000
NSF	10,000
	<u>110,000</u>
	\$110,000

It is proposed that, with the concurrence of Lt. General William J. Ely, USA, the Department of Defense administer the contract. If you find that the Department of Defense is unable to go along with this on the basis indicated, please let me know. We have suggested that the other agencies reply by April 1.

Sincerely yours,

(signed) Don

Donald F. Hornig  
Chairman

Dr. Harold Brown  
Director of Defense Research  
and Engineering  
3E1006 The Pentagon  
Washington, D.C. 20301

cc: Lt. Gen. William J. Ely, USA  
Chairman, COSATI Task Group on National System(s)  
for Scientific and Technical Information

Mr. Walter M. Carlson, Director of Technical Information, ODDRE

WTK:las  
Col. A.A. Ains, USA, Emec. Secy, COSATI  
WTK file-chron  
OST file-chron  
✓ Hornig chron  
Dr. Kidd



20306

March 23, 1965

Dear Elmer:

As was mentioned at the March 23 Federal Council meeting, a significant and forward step has been taken by the Council's Committee on Scientific and Technical Information (COSTI) by forming the Task Group on National System(s) for Scientific and Technical Information. The major goal of this group is to develop a conceptual framework for a national network of information systems in science and technology, so that individual agency (and non-government) programs can be planned with better understanding of their contribution to a more effective national network.

The Task Group members are deeply involved in their continuing agency operations, but have developed a preliminary working concept for a national information systems network. At this point, the group finds it necessary to secure the services of a competent contractor to conduct studies which appear required, and to participate with the members of the Task Group in the preparation of conclusions and recommendations. Specifications will be drawn up to select a qualified, unbiased contractor, especially competent in information systems development and capable of mounting a concentrated effort so that an early completion of the task will be accomplished, perhaps within six to eight months.

In accordance with Budget Circular A-63, we have considered asking the chairing agency (Department of Defense) to provide for the full support of the Task Group, including the obtaining of a contractor, as mentioned above. Consideration has also been given to the possibility of asking other agencies represented on the Task Group to contribute staff time instead of obtaining an outside contractor. We have also considered the possibility of single agency funding of the contractor.

Neither of the first two alternatives are practical in this instance. Furthermore, in our judgment it will add to the coordinated approach being made by the several agencies on the Task Group if each of them is asked to contribute a portion of the contract cost.

At the March 23 meeting of the Federal Council for Science and Technology, the agency representatives indicated no disagreement in principle with this procedure. We are, therefore, requesting formally that agencies contribute in accordance with the following schedule, and transfer the indicated funds to the Department of Defense:

DOD	\$ 30,000
HEW	20,000
NASA	20,000
AEC	20,000
Commerce	10,000
NSF	10,000
	<u>\$110,000</u>

In accordance with the provisions of Budget Circular A-63, we would appreciate your approval of this action.

Sincerely yours,

(signed) Donald F. Hornig  
Chairman

Mr. Elmer B. Staats  
Deputy Director  
Bureau of the Budget  
Executive Office Building  
Washington, D. C. 20503

cc: Mr. J. Lee Westrate, BOB  
Lt. Gen. Wm. J. Ely, USAg, Chairman, COSATI Task Group on  
National System(s) for Scientific and Technical Information  
Col. A. A. Aines, USA, Exec. Secy, COSATI

WTK:las  
WTK file-chron  
OST file-chron  
✓ Dr. Hornig  
Dr Kidd

EXECUTIVE OFFICE OF THE PRESIDENT  
OFFICE OF SCIENCE AND TECHNOLOGY  
WASHINGTON

March 25, 1965

Dear Mr. Secretary:

As you know, we have been interested for some years in improving the quality of Federal scientific and technical personnel and, indeed, the health of the Federal technical establishment is one of my principal responsibilities. I should like, therefore, to request your assistance in the collection of some hard facts about the current situation as regards personnel management. Aside from my own concern, the Federal Council for Science and Technology, on which you are represented by Dr. J. Herbert Holloman, has asked unanimously that I undertake an immediate effort to gather appropriate facts.

In the Federal Government as a whole the gradual elevation of grades has contributed to a continued and substantial expansion of payroll costs, and concern has been expressed about the extent to which some administrators may have resorted to unwarranted grade elevation in the management of their programs. Scientific and technical activities cannot be exempted from careful scrutiny in this regard. Nevertheless, it has been alleged that - as a result of recently-established staffing controls - special problems have arisen in scientific and technical organizations throughout the Government. I am trying to get a more precise picture of what these problems may be and what might be done about them. I also wish to explore the means used to adjust staffing controls, when and where necessary, to obtain effective performance.

The attached questionnaire, prepared with the help of the Federal Council's Committee on Scientific Personnel and others, is designed to elicit factual information which will shed light on the interaction, if any, between staffing controls and scientific and technical performance. Some questions may be difficult to answer in a concise manner, and I assume that some follow-up will be necessary to explore factors which are not readily quantifiable.



I should like to request that this questionnaire be sent to directors of a reasonable selection of scientific and technical organizations within your Department. Information returned to me relating to specific Agency practices will be held within the Office of Science and Technology, and only statistical and summary information will be made available to the FCST for further study.

I trust that you will find the responses to these questions helpful for your own administrative purposes. Any supplementary comments from your own Office would be gratefully received. It would be appreciated if you would have the questionnaires distributed to organizational components having primary or substantial scientific and technical responsibilities and returned to me on or before April 21, 1965.

Sincerely,

/s/ Donald F. Hornig

Donald F. Hornig  
Director

The Honorable John T. Connor  
Secretary of Commerce  
Washington, D.C. 20230

Enclosures

Copy furnished -

Dr. Holloman, Assistant Secretary of Commerce  
for Science & Technology

*Identical Letter to:*

*Walt N A S A  
Holsby, F A A  
Haworth, NSF  
Ripley - Smith  
Michama a D D*

*Celebration  
Udall, D. Tamm  
Freeman, Ag. Affairs  
Leahy, A E C*

20506

March 23, 1968

Dear Mr. Chairman:

This will acknowledge your letter of March 22 requesting comments on H. R. 6457, a bill to provide for a comprehensive, long-range, and coordinated national program in oceanography, and for other purposes. This matter is under study and you will be receiving a report in the near future.

Sincerely yours,

(signed) Donald F. Hornig

Donald F. Hornig  
Director

Honorable Herbert C. Bonner  
Chairman, Committee on Merchant  
Marine and Fisheries  
House of Representatives  
Washington, D. C.

CVKidd:jcn  
cc: White House Files (2)  
DFH chron  
CVK file & chron  
S&T file & chron

S&T Cont. No. 0406

20506

March 25, 1965

Dear Mr. Chairman:

This will acknowledge your letter of March 19 requesting comments on identical bills, H. R. 5884 and H. R. 4009, to provide a program of marine exploration and development of the resources of the Continental Shelf. Our views on the proposed legislation will be transmitted in the near future.

Sincerely yours,

(signed) Donald F. Hornig

Donald F. Hornig  
Director

Honorable Herbert C. Bonner  
Chairman, Committee on Merchant  
Marine and Fisheries  
House of Representatives  
Washington, D. C.

CVKidd:jn  
cc: White House Files (2)  
DFH chron  
CVK file & chron  
S&T file & chron

S&T Cont. No. 0398



March 24, 1965

Dear Frank:

As you know, we may be heading into some difficulty with the Government auditors regarding reimbursement for your use of air charter transportation between Ithaca and Washington. The Government regulations provide for the use of air charter service only in unusual or emergency situations.

It would be helpful if you would continue to provide the kind of information contained in your recent letter to Bob Barlow when you find a charter flight necessary, and if you would use regular commercial transportation when this is practicable.

Sincerely,

(signed) Don

Donald F. Hornig  
Chairman

Dr. Franklin A. Long  
Vice President for Research and Advanced Studies  
Cornell University  
Ithaca, New York

RBarlow:jb:2-23/3-23-65  
Bcc: RB file and chron  
S&T file and chron  
DFH ~~chron~~  
MLC - for Dr. Long's file

March 24, 1965

Dear Mr. Barlow:

Thank you for your letter of March 21st together with its enclosures. Please also accept my thanks for your kind remarks about my talk at the Science Talent Search Awards Banquet. I only wish I had more time to spend with these impressive young people--their enthusiasm, knowledge, and creativity are evidence that American science will prosper in the years ahead.

The April 1921 article describing your efforts to turn military innovation towards "peace-time uses" is truly remarkable as a historical document and as a telling commentary on the advance of technology. In spite of the fact that we have progressed very far in air transport since World War I --although not as rapidly as people such as yourself may have considered appropriate or possible--the technology of ground transportation has not advanced adequately to meet current or future needs. Perhaps we can make use of both old patents and new Westinghouse fellowship winners to correct this situation!

I have taken the liberty of sending a copy of your letter with its enclosures to the Commerce Department's Under Secretary for Transportation. Please do not hesitate to send on any further ideas, new or old, with regard to high-speed ground transportation.

Sincerely,

(signed) Donald F. Hornig

Donald F. Hornig  
Director

WLHooper:gl  
DISTRIBUTION:  
1-addressee

2-Under Sec'y of  
Commerce for  
Transportation

3-Hornig chron

4-5 -OST chron/subj  
6-7 -WLHooper files

Mr. Lester P. Barlow  
The Barlow Vapor Cooling Company  
Suite 303 - 300 Main Street  
Stamford, Connecticut

**24 March 1965**

**Dear Chai:**

**I am writing to ask you to serve as the Department of Defense member on the Interdepartmental Committee for Atmospheric Sciences.**

**Because of the expanding national program in atmospheric sciences, the decisions made by ICAS will be of importance and significance. I hope that you will continue to find the Committee activities to be stimulating and worthwhile.**

**Sincerely,**

**(signed) Don**

**Donald F. Hornig  
Director**

**Dr. Chalmers W. Sherwin  
Deputy Director (Research and Technology)  
Office of the Director of Defense  
Research and Engineering  
The Pentagon  
Washington, D. C.**

**cc:  
Dr. J. Herbert Holloman,  
Chairman, ICAS**

**DZRobinson:hh**

**S&T**

**S&T**

**DZR**

**DZR**

**DFH**



23 March 1965

Dear Dr. Kavanagh:

I am writing to ask you to serve as the representative of the Atomic Energy Commission on the Interdepartmental Committee for Atmospheric Sciences. I understand from Dr. English's letter to Dr. Hollemon of February 9 that Mr. Eugene W. Bierly will serve as your alternate.

Because of the expanding national program in atmospheric sciences, the decisions made by ICAS will be of importance and significance. I hope that you will find the Committee activities to be stimulating and worthwhile.

Sincerely,

(signed) Donald F. Hornig

Donald F. Hornig  
Director

Dr. George H. Kavanagh  
Deputy Assistant General Manager  
for Research and Development  
U. S. Atomic Energy Commission  
Washington, D. C.

cc:  
Dr. J. Herbert Hollemon,  
Chairman, ICAS

DZRobinson:hh

S&T

S&T

~~DFH~~

DZR

DZR

March 23, 1965

**MEMORANDUM FOR**

**Mr. Elmer Staats  
Deputy Director  
Bureau of the Budget**

The attached correspondence forwarded to OST by Larry O'Brien would appear more appropriate for handling by BOB rather than OST. We would appreciate it if someone in the Bureau could reply directly to Congressman Baldwin with an information copy to Mr. O'Brien.

(signed) Donald F. Hornig

**Donald F. Hornig  
Director**

**Attachment:**

**Ltr to Mr. O'Brien  
from Congressman J. F. Baldwin  
re Sen. Document No. 97**

**DFH/eac**

**S&T Files  
S&T Chron.  
DFH Chron. ✓**

**Re S&T No. 0399**

20306

March 23, 1965

Dear Mr. Pingree:

Thank you very much for taking the trouble to show the film on space photography and describe your program to members of my staff and to me. I was impressed by your efforts and say so in the accompanying letter, which you may use if you choose.

Regarding the specific request for a letter from the President, I do not think it would be appropriate for the President to offer comments on a specific television series, however worthy it might be.

I am returning your Blue Book containing correspondence and clippings. Thank you for letting me have a look at it. The list of awards the program has won is very impressive.

Sincerely,

(signed) Donald F. Hornig

Donald F. Hornig  
Director

Enclosures

Mr. Harold M. Pingree, Jr.  
NBC Films, Inc.  
990 Winchester Avenue  
Lincoln Park, Michigan

JTurner/ekb  
OST file - chron  
JT file - chron  
✓cc:Dr. Hornig chron



20506

March 23, 1965

Dear Mr. Pingree:

Thank you for showing me the film, "Space Photography," one of the productions in the television series, "Science in Action." I enjoyed the film and I am sure that many high school students would also enjoy it as well as profit from it.

Science today has become a vast undertaking, playing many roles of increasing importance in the world in which we live. With the tremendous increase in activities has come a corresponding increase in the number and variety of challenges that scientific research offers to young people.

In the "Science in Action" series, the California Academy of Sciences and the National Broadcasting Company are performing a valuable service in helping students appreciate the many different undertakings that constitute science and the rewards that work in this field offers.

Sincerely,

(signed) Donald F. Hornig

Donald F. Hornig  
Director

Mr. Harold M. Pingree, Jr.  
NBC Films, Inc.  
990 Winchester Avenue  
Lincoln Park, Michigan

JTurner/ekb

OST file - chron

JT file - chron

✓ cc:Dr. Hornig chron



March 23, 1965

**MEMORANDUM FOR**

**Bill Meyers**

In response to a request by Senator Long for background information on current problems of interpretation and implementation of the Administration patent policy, I would like to transmit the attached correspondence between OST and the Acting Attorney General. The transmittal has been encouraged by and cleared with Justice (Miles Ryan) and Mike Manatos suggested we clear it with you.

Senator Long has requested the attached material by close-of-business today (Tuesday).

(signed) Don

**Donald F. Hornig**  
**Director**

CVKidd/SRR/jen  
cc: DFH chron  
S&T file & chron  
CVK file & chron

20506

March 23, 1968

Dear Senator Long:

In connection with our discussion of Federal patent policy, the enclosed exchange of letters between the Attorney General and me illustrates the complexity of the problem. I call your attention particularly to the enclosed letter of December 23 from Dr. MacLeod to the Acting Attorney General, which puts in context the recent actions of the Patent Advisory Panel and the Federal Council for Science and Technology. The correspondence is forwarded, as you have requested, for your information and for the use of the Subcommittee.

Sincerely yours,

(signed) Donald F. Hornig

Donald F. Hornig  
Director

Honorable Russell B. Long  
United States Senate  
Washington, D. C.

Enclosures

CVKidd:jna

cc: White House Files (2) w/1 cy. encls.

DFH chron

S&T file & chron

CVK file & chron



March 22, 1965

Dear Professor Richardson:

The President has asked that I reply to your telegram concerning recently announced plans for an underground nuclear detonation on Amchitka Island during the latter part of 1965.

You will note from the enclosed press release that the planned experiment calls for a single, fully contained underground nuclear detonation of about 80 kilotons. Geological exploration during the Fall of 1964, followed by laboratory analysis and theoretical calculations based on extensive experience at the Nevada Test Site, indicate that the explosion will be fully contained. No thermal radiation or direct nuclear radiation will reach the surface of the island.

The possibility of damage to both terrestrial and marine wildlife is considered to be limited to individual members of the population very close to ground zero. Every year there occur in the Aleutian Islands many earthquakes in the range of size from one-third the size of the planned underground detonation to three times its size. On February 4 of this year, an earthquake occurred less than 30 miles south of Amchitka with a seismic energy release of more than 100 times the energy to be released from the planned explosion on Amchitka. A survey of the Amchitka area after this earthquake showed trivial surface effects on the island and no apparent damage to marine or terrestrial wildlife.

The importance of preserving the wildlife of the Aleutian Island region is fully realized by the responsible scientists engaged in planning the underground test on Amchitka Island. Biologists of the Fish and Wildlife Service of the U. S. Department of the Interior have been fully informed concerning the experiment and have agreed that no significant damage to the wildlife population will result from this experiment.

Sincerely yours,

(signed) Donald F. Hornig

Enclosure

Donald F. Hornig

SA for SFT

Professor Frank Richardson  
Department of Zoology  
University of Washington  
Seattle, Washington

March 22, 1965

Dear Congressman:

This letter supplements Mr. O'Brien's acknowledgment of March 9 to your letter of March 8 regarding the location of test facilities for further research on desalting of sea water.

The proposal for a West Coast test facility in Secretary Udall's "Program for Advancing Desalting Technology" was based on a preliminary study which indicated that additional land, steam facilities, and intake facilities would be required for the very large modules to be tested and that locations already exist on the West Coast where land and possibly intake facilities are available on short-term lease. At some of these locations steam could be purchased at cost, eliminating the need for a large Federal investment in short-term facilities. Additionally, it seems probable that the relatively large volumes of desalted water which will be produced can be more readily put to use at a West Coast site.

At this time, however, no definite site has been selected as the best West Coast location. When such a site is finally chosen, a careful cost comparison will be made between it and the Wrightsville Beach location to see whether the assumed advantages do, in fact, exist. If they do not, the matter will certainly be reconsidered.

The Office of Saline Water is continuing to use the Wrightsville Beach Test Station for pilot plants exploring new processes for desalting sea water. There is a distinct advantage in preserving the station as a permanent site for such new pilot plants rather than over-crowding it with the testing of the new large distillation facilities.

Sincerely yours,

(signed) Donald F. Hornig

Donald F. Hornig  
Director

Honorable Alton Lennon  
U.S. House of Representatives  
Washington, D. C.

PSB/emu Chron  
DFH/Chron ✓  
S&T File Water desaltation  
S&T Chron  
2 WH Copies

S&T NO. 349



20506

March 12, 1965

Dear Frank:

This is just a note to keep you informed about our efforts to recruit new members for the Panel on Educational Research and Development. So far, John Gardner, Walter H. Stockmayer, and Jerome B. Wiesner have formally accepted membership on the Panel.

I noticed in the paper recently that Henry Leemis has been appointed Deputy Commissioner; I am wondering if this has any implications for the work of the Panel.

Sincerely yours,

(signed) Don

Donald F. Hornig  
Director

Honorable Francis Keppel  
Commissioner of Education  
U. S. Office of Education  
Washington, D. C. 20202

JTurner/ekb

OST file - chron

✓ JT file (PERD membership) - chron

cc: Dr. Hornig - chron

March 22, 1965

MEMORANDUM FOR

Mr. Valenti

Subject: U. S. Japanese Cooperation in Medical Science

Since the Johnson-Sato talks, considerable progress has been made and a preliminary meeting is now planned in Tokyo the week of April 21st. Dr. Colin MacLeod and I would like to meet with the President at an early date to acquaint him with the plans. This could be used as a springboard for making a public announcement which should be done soon.

Donald F. Hornig  
Special Assistant for  
Science and Technology

DFH/eac

cc: Dr. MacLeod

March 22, 1965

Dear Dr. Harris:

Thank you for your letter of March 12th. I would be glad to talk to you about your desire to return to academic life. My calendar appears to be free on the morning of April 5th if that is convenient for you. If not, I suggest you phone my Secretary, Miss Connors, at 282-2345, and she will be happy to arrange a mutually convenient date.

Sincerely yours,

Donald F. Hearnig  
Special Assistant for  
Science and Technology

Dr. John E. Harris  
36 Dietz Road  
Hyde Park, Massachusetts 02136

March 20, 1965

Dear Luis,

Thank you for the note about "x-raying" the pyramids. It is absolutely fascinating, and I assure you we will follow it up at this end.

Please keep me informed of developments.

Sincerely,

(signed) Don

Donald F. Hornig  
Director

Dr. Luis W. Alvarez  
Lawrence Radiation Laboratory  
University of California  
Berkeley, California 94720

DFH/eac

DFH Chron. /  
S&T Files  
S&T CHron.

cc: Tobin with incoming



March 19, 1965

Dear Ed,

Your query as to the nature of your current association with the Office of Science and Technology has come to my attention.

We have kept you on our rolls as an OST consultant. We value your services in the past, and I hope you will continue to remain available to us in a consulting capacity in the months ahead.

Sincerely,

/S/

Donald F. Hornig  
Director

Dr. Edwin R. Gilliland  
Professor of Chemical Engineering  
Massachusetts Institute of Technology  
Cambridge, Massachusetts 02139

SRRivkin:gl  
DISTRIBUTION  
1-addressee  
2-Hornig chron  
3-SRRivkin notebook  
4-SRRivkin files

**March 19, 1965**

**Dear Ivan,**

**Your letter of March 17th, inquiring as to the nature of your current association with the Office of Science and Technology, has come to my attention.**

**We have kept you on our rolls as an OST consultant. We value your services in the past, and I hope you will continue to remain available to us in a consulting capacity in the months ahead.**

**Sincerely,**

*/s/*

**Donald F. Hornig  
Director**

**Dr. Ivan A. Getting  
President  
Aerospace Corporation  
Post Office Box 98085  
Los Angeles 45, California**

**SRRIVKIN:gl  
DISTRIBUTION:-  
1-addressee  
2-Hornig chron  
3-SRRivkin notebook  
4-SRRivkin files**

March 19, 1965

Dear Dean Peterson:

This letter will confirm your telephone discussion with Mr. Linsley relative to an OST panel on Water Resources Research. I am pleased to learn that you will be able to serve and appreciate your willingness to do so despite otherwise crowded schedules.

The first meeting of the panel will be on Thursday, April 22, in Room 460 in the Executive Office Building, 17th and Pennsylvania Avenue, N. W. The panel will assemble at 9:30 a. m.

Because of the importance of water to the country, it is essential that the research conducted by or supported by the Federal Agencies be such as to assure us of the knowledge to cope with both present and future problems. Meeting present problems, anticipating future problems and planning research to meet them requires both technical skill and imagination. We must be especially alert to research possibilities as yet untouched. We must also be concerned that the research be planned and performed in a manner which gives promise of results. You may wish to give some thought to both aspects in advance of the meeting.

Enclosed is material covering travel, expenses and consultants' fees. Mr. Linsley expects to send you some further documentation in advance of the meeting. If there are any further questions, feel free to write or telephone him at 202-382-2295.

Sincerely,

(signed) Donald F. Hornig

Donald F. Hornig  
Director

Enclosure:  
Travel material.

Dean D. F. Peterson  
Utah State University  
Logan, Utah

RKLinsley, Jr. :paw

cc: Dr. Hornig - Chron ✓  
Mr. Linsley - Chron  
Mr. Linsley - Subject  
S&T Files - Chron  
S&T Files - Subject



March 19, 1965

Dear Professor Hewlett:

This letter will confirm your telephone discussion with Mr. Linsley relative to an OST panel on Water Resources Research. I am pleased to learn that you will be able to serve and appreciate your willingness to do so despite otherwise crowded schedules.

The first meeting of the panel will be on Thursday, April 22, in Room 460 in the Executive Office Building ;7th and Pennsylvania Avenue, N. W. The panel will assemble at 9:30 a. m.

Because of the importance of water to the country, it is essential that the research conducted by or supported by the Federal Agencies be such as to assure us of the knowledge to cope with both present and future problems. Meeting present problems, anticipating future problems and planning research to meet them requires both technical skill and imagination. We must be especially alert to research possibilities as yet untouched. We must also be concerned that the research be planned and performed in a manner which gives promise of results. You may wish to give some thought to both aspects in advance of the meeting.

Enclosed is material covering travel, expenses and consultants' fees. Mr. Linsley expects to send you some further documentation in advance of the meeting. If there are any further questions, feel free to write or telephone him at 202-382-2295.

Sincerely,

(signed) Donald F. Hornig

Donald F. Hornig  
Director

Enclosure:  
Travel material.

Professor John Hewlett  
University of Georgia  
Athens, Georgia

cc: Dr. Hornig - Chron ✓  
Mr. Linsley - Chron  
Mr. Linsley - Subject  
S&T Files - Chron  
S&T Files - Subject

RKLinsley, Jr.:paw

March 19, 1965

Dear Mr. Ackermann:

This letter will confirm your telephone discussion with Mr. Linsley relative to an OST panel on Water Resources Research. I am pleased to learn that you will be able to serve and appreciate your willingness to do so despite otherwise crowded schedules.

The first meeting of the panel will be on Thursday, April 22, in Room 460 in the Executive Office Building, 17th and Pennsylvania Avenue, N. W. The panel will assemble at 9:30 a. m.

Because of the importance of water to the country, it is essential that the research conducted by or supported by the Federal Agencies be such as to assure us of the knowledge to cope with both present and future problems and planning research to meet them requires both technical skill and imagination. We must be especially alert to research possibilities as yet untouched. We must also be concerned that the research be planned and performed in a manner which gives promise of results. You may wish to give some thought to both aspects in advance of the meeting.



Enclosed is material covering travel, expenses and consultants' fees. Mr. Linsley expects to send you some further documentation in advance of the meeting. If there are any further questions, feel free to write or telephone him at 202-382-2295.

Sincerely,

(signed) Donald F. Hornig

Donald F. Hornig  
Director

Enclosure:  
Travel material.

Mr. William C. Ackermann  
Illinois State Water Survey  
Box 232  
Urbana, Illinois

cc: Dr. Hornig - Chron ✓  
Mr. Linsley - Chron  
Mr. Linsley - Subject  
S&T Files - Chron  
S&T Files - Subject

RKLinsley, Jr.:paw



March 19, 1965

Dear Dr. Harshbarger:

This letter will confirm your telephone discussion with Mr. Linsley relative to an OST panel on Water Resources Research. I am pleased to learn that you will be able to serve and appreciate your willingness to do so despite otherwise crowded schedules.

The first meeting of the panel will be on Thursday, April 22, in Room 460 in the Executive Office Building, 17th and Pennsylvania Avenue, N. W. The panel will assemble at 9:30 a. m.

Because of the importance of water to the country, it is essential that the research conducted by or supported by the Federal Agencies be such as to assure us of the knowledge to cope with both present and future problems. Meeting present problems, anticipating future problems and planning research to meet them requires both technical skill and imagination. We must be especially alert to research possibilities as yet untouched. We must also be concerned that the research be planned and performed in a manner which gives promise of results. You may wish to give some thought to both aspects in advance of the meeting.

Enclosed is material covering travel, expenses and consultants' fees. Mr. Linsley expects to send you some further documentation in advance of the meeting. If there are any further questions, feel free to write or telephone him at 202-382-2295.

Sincerely,

(signed) Donald F. Hornig

Donald F. Hornig  
Director

Enclosure:  
Travel material.

Dr. John Harshbarger  
University of Arizona  
Tucson, Arizona

RKLinsley, Jr.:paw

cc: Dr. Hornig - Chron ✓  
Mr. Linsley - Chron  
Mr. Linsley - Subject  
S&T Files - Chron  
S&T Files - Subject

March 19, 1965

Dear Professor Eliassen:

This letter will confirm your telephone discussion with Mr. Linsley relative to an OST panel on Water Resources Research. I am pleased to learn that you will be able to serve and appreciate your willingness to do so despite otherwise crowded schedules.

The first meeting of the panel will be on Thursday, April 22, in Room 460 in the Executive Office Building, 17th and Pennsylvania Avenue, N. W. The panel will assemble at 9:30 a. m.

Because of the importance of water to the country, it is essential that the research conducted by or supported by the Federal Agencies be such as to assure us of the knowledge to cope with both present and future problems and planning research to meet them requires both technical skill and imagination. We must be especially alert to research possibilities as yet untouched. We must also be concerned that the research be planned and performed in a manner which gives promise of results. You may wish to give some thought to both aspects in advance of the meeting.



-2-

Enclosed is material covering travel, expenses and consultants' fees. Mr. Linsley expects to send you some further documentation in advance of the meeting. If there are any further questions, feel free to write or telephone him at 202-382-2295.

Sincerely,

(signed) Donald F. Hornig

Donald F. Hornig  
Director

Enclosure:  
Travel material

Professor Rolf Ellassen  
Stanford University  
Stanford, California

RKLinsley, Jr.:paw

cc: Dr. Hornig - Chron ✓  
Mr. Linsley - Chron  
Mr. Linsley - Subject  
S&T Files - Chron  
S&T Files - Subject



March 19, 1965

Dear Dr. Wolman:

This letter will confirm your telephone discussion with Mr. Linsley relative to an OST panel on Water Resources Research. I am pleased to learn that you will be able to serve and appreciate your willingness to do so despite otherwise crowded schedules.

The first meeting of the panel will be on Thursday, April 22, in Room 460 in the Executive Office Building, 17th and Pennsylvania Avenue, N. W. The panel will assemble at 9:30 a. m.

Because of the importance of water to the country, it is essential that the research conducted by or supported by the Federal Agencies be such as to assure us of the knowledge to cope with both present and future problems. Meeting present problems, anticipating future problems and planning research to meet them requires both technical skill and imagination. We must be especially alert to research possibilities as yet untouched. We must also be concerned that the research be planned and performed in a manner which gives promise of results. You may wish to give some thought to both aspects in advance of the meeting.

Enclosed is material covering travel, expenses and consultants' fees. Mr. Linsley expects to send you some further documentation in advance of the meeting. If there are any further questions, feel free to write or telephone him at 202-382-2295.

Sincerely,

(signed) Donald F. Hornig

Donald F. Hornig  
Director

Enclosure:  
Travel material

Dr. Abel Weisman  
913 Ames Hall  
The Johns Hopkins University  
Baltimore, Maryland 21218

cc: Dr. Hornig - Chron ✓  
Mr. Linsley - Chron  
Mr. Linsley - Subject  
S&T Files - Chron  
S&T Files - Subject

RKLinsley, Jr.:paw

**March 19, 1965**

**Dear Dr. Kneese:**

**This letter will confirm your telephone discussion with Mr. Linsley relative to an OST panel on Water Resources Research. I am pleased to learn that you will be able to serve and appreciate your willingness to do so despite otherwise crowded schedules.**

**The first meeting of the panel will be on Thursday, April 22, in Room 460 in the Executive Office Building, 17th and Pennsylvania Avenue, N. W. The panel will assemble at 9:30 a. m.**

**Because of the importance of water to the country, it is essential that the research conducted by or supported by the Federal Agencies be such as to assure us of the knowledge to cope with both present and future problems. Meeting present problems anticipating future problems and planning research to meet them requires both technical skill and imagination. We must be especially alert to research possibilities as yet untouched. We must also be concerned that the research be planned and performed in a manner which gives promise of results. You may wish to give some thought to both aspects in advance of the meeting.**



-2-

Enclosed is material covering travel, expenses and consultants' fees. Mr. Linsley expects to send you some further documentation in advance of the meeting. If there are any further questions, feel free to write or telephone him at 202-382-2295.

Sincerely,

(signed) Donald F. Hornig

Donald F. Hornig  
Director

Enclosure:  
Travel material

Dr. Allen Kneese  
Resources for the Future, Inc.  
1755 Massachusetts Avenue, N. W.  
Washington, D. C. 20036

RKLinsley, Jr.:paw

cc: Dr. Hornig - Chron ✓  
Mr. Linsley - Chron  
Mr. Linsley - Subject  
S&T Files - Chron  
S&T Files - Subject



March 19, 1965

Dear Dr. Miller:

This letter will confirm your telephone discussion with Mr. Linsley relative to an OST panel on Water Resources Research. I am pleased to learn that you will be able to serve and appreciate your willingness to do so despite otherwise crowded schedules.

The first meeting of the panel will be on Thursday, April 22, in Room 460 in the Executive Office Building, 17th and Pennsylvania Avenue, N. W. The panel will assemble at 9:30 a. m.

Because of the importance of water to the country, it is essential that the research conducted by or supported by the Federal Agencies be such as to assure us of the knowledge to cope with both present and future problems. Meeting present problems, anticipating future problems and planning research to meet them requires both technical skill and imagination. We must be especially alert to research possibilities as yet untouched. We must also be concerned that the research be planned and performed in a manner which gives promise of results. You may wish to give some thought to both aspects in advance of the meeting.

Enclosed is material covering travel, expenses and consultants' fees. Mr. Linsley expects to send you some further documentation in advance of the meeting. If there are any further questions, feel free to write or telephone him at 202-382-2295.

Sincerely,

(signed) Donald F. Hornig

Donald F. Hornig  
Director

Enclosure:  
Travel material

Dr. Robert D. Miller  
Cornell University  
Ithaca, New York

cc: Dr. Hornig - Chron ✓  
Mr. Linsley - Chron  
Mr. Linsley - Subject  
S&T Files - Chron  
S&T Files - Subject

RKLinsley, Jr. :paw

March 19, 1965

MEMORANDUM FOR


Mr. Valenti


Subject: NASA's "Summary Report of the Future Programs Task Group."

The last and the next to the last editions of this report have been reviewed in detail by the Space Science Panel of the PSAC. In addition, this Panel's recommendation as to the manner of the report's public release was discussed, and accepted, by the President's Science Advisory Committee at its meeting of March 15-16. The Panel's statement in this connection was as follows:

"Recommendation as to Procedure for Public Release of the SRFPTG. The Panel considered that probably the most appropriate way in which to release the report is to have NASA do so but with an accompanying statement from the Administrator making it clear that the document is not a program description but a summary of technical capabilities available for making program choices. Thus, the statement should make it quite clear that the SRFPTG is not a document soliciting proposals for all of the possible programs implied by it. In particular, the Panel agreed that release of the SRFPTG through OST or the White House would result in much more public attention to the document than seems either appropriate or potentially useful."

I concur in this view, and recommend that the President so advise Mr. Webb.

  
Donald F. Hornig  
Special Assistant for  
Science and Technology

DFH Chron   
NEG Chron  
NEG Subj  
S&T Chron

S&T Subj

NEG:DFH:hk



**March 19, 1965**

**Dear Wallace:**

**Thanks very much for your letter of March 15th. As you requested, I am forwarding a copy of my speech at the Westinghouse Science Talent Search dinner.**

**Sincerely,**

**Donald F. Hornig  
Special Assistant for  
Science and Technology**

**Encl.**

**Dr. Wallace R. Brode  
Chairman, Youth Science  
Activities Committee  
American Association for the  
Advancement of Science  
1515 Massachusetts Avenue, N. W.  
Washington, D. C. 20005**



**March 17, 1965**

**Dear Mr. Stake:**

**I would like to acknowledge your letter of March 4 enclosing the resolution adopted by the Florida Development Commission on behalf of the 260" solid rocket motor program.**

**I have noted the points made in the resolution; however, as the President indicated in his message to Congress on the 1966 budget, this budget includes all the programs that we have to do, but does not allow all that we would like to do. In this context, it was decided that funds for the 260" solid rocket program would not be included in the budget.**

**I do not believe this decision will compromise national security or current space objectives. In addition, it is planned to continue the program with existing funds to a point where information will be available for planning future programs.**


**Thank you for your interest.**

**Sincerely,**

**(signed) Donald F. Hornig**

**Donald F. Hornig  
Director**

**Mr. Roger Stake  
Executive Director  
Florida Development Commission  
Tallahassee, Florida 32304**

 **DFH Chron**

**DHS Chron**

**DHS Subj**

**S&T Chron**

**S&T Subj**

**DHS:hk**

**March 17, 1965**

**Dear Mr. Winkler:**

**I am very pleased to learn of your plans to honor Dr. Richard W. Sames, and wish to extend good wishes on behalf of President Johnson to him and to your institution.**

**The new position Dr. Sames will occupy at the National Science Foundation is important to the development of modern college programs in the sciences. I am sure he will find this a challenging and rewarding assignment, and commend the undergraduates who are expressing their appreciation for his dedication to them and to education.**

**Sincerely yours,**

**(signed) Donald F. Hornig**

**Donald F. Hornig  
Special Assistant for  
Science and Technology**

**Mr. Paul Winkler  
Science Development Office  
Bellarmine College  
Louisville, Kentucky 40205**

**RBarlow:jh:2-18-65/3-12-65  
Bcc: RB file and chron  
S&T file and chron  
~~DW~~ chron**

**In reply to S&T Cont. No. 0121.**

March 17, 1965

Dear Mr. Folsom:

In response to your memorandum of February 18th, I have asked Dr. Allan V. Astin, Chairman of the Committee on Scientific Personnel of the Federal Council for Science and Technology, to submit comments regarding the effect of present salary levels on the staffing of Federal scientific and technical activities.

Accordingly, I am pleased to forward to you a summary prepared by Dr. Astin of the Committee's findings with regard to the recruitment and retention of high-quality scientists and engineers.

Sincerely,

(signed) Donald F. Hornig

Donald F. Hornig  
Director

Mr. Marion B. Folsom, Chairman  
President's Special Panel on  
Federal Salaries  
Executive Office of the President  
Room 252, Executive Office Building  
Washington, D. C.

Enclosure

WLH:per:gl  
DISTRIBUTION

1-addressee

2-Hornig chron

3-4- OST subj & chron

5-6- WLH files

7-Dr. Astin

March 15, 1965

C

O

MEMORANDUM

P

TO : Dr. Donald Hornig, Chairman  
Federal Council for Science & Technology

Y

FROM : A. V. Astin, Chairman  
Committee on Scientific Personnel, FCST

SUBJECT : Comments on Federal Salaries

The following views may be of interest to the President's Special Panel on Federal Salaries. They are made in light of the Federal Council's continuing interest and responsibility for the competent staffing of Government research and development activities. As you know, the Committee on Scientific Personnel's primary concern has been with quality, not numbers - with upgrading the performance and leadership capability of the Federal scientists and engineers upon whom rests a substantial responsibility for attaining national goals in research and development. These comments are made within that context.

In 1960-61 the major obstacle to maintenance of an outstanding Federal staff was the inadequate salary structure. It was inadequate as to general salary level and inadequate in respect to the flexibility with which salaries could be applied. Although corrective steps, beginning with the Federal Pay Reform Act of 1962, have greatly improved the situation, several difficulties still hinder optimum staffing and utilization patterns for research and development.

For the lower entrance grades present pay levels are reasonably satisfactory, although an increase may still be needed to achieve current comparability. Starting at GS-12, however - the entrance rate for "quality" Ph. D. 's - the Government pay scale becomes progressively less adequate, with its most acute deficiencies above grade GS-15. The Federal Government is least able to compete for the outstanding scientists and engineers needed to formulate and manage important research and development programs. At this level, the number of people involved is small, but the range of ability and salary needed is large. This fact suggests the second requirement - the need for management flexibility in administering the salary system.

XEROX FROM QUICK COPY



Attainment of the necessary salary flexibility requires two steps: first, increasing the top salary through GS-18 to \$30,000\*; and second, making the range for each grade as broad as possible and giving managers authority to set the salaries of individuals at any step within the grade. This should specifically include the authority to reduce the salary step level in instances where such action seems appropriate. Together, these two actions would do much to correct inequities arising from past rigidities and bulk shifts of individuals at various salary levels that accompanied salary reform. Increased salary ranges and administrative flexibility would make possible more competent and imaginative program staffing and at the same time would enable management to avoid excess salary payments arising from individual variations in ability among the present staff.

It is equally important that raises in top salaries and increased management authority to establish salary step levels should be accompanied by increased management accountability for its actions. The Committee on Scientific Personnel is preparing proposals for ensuring management accountability for consideration by the Federal Council.

---

\* This recommendation is reasonably conservative inasmuch as as far back as 1957 the Committee on Scientists and Engineers for Federal Government (the Young Committee) stated that competition with industry in 1957 required a maximum rate of \$25,000 to \$30,000.

March 17, 1945

Dear Mr. Kehoe:

I enclose the review of some edited versions of my testimony before the Joint Committee. All the changes made, except two, are merely editorial, and aimed at clarification. The two substantive changes are the following:

(1) I have inserted, on page 539, the gist of the remarks I made before starting my formal testimony, which apparently were not taken down by the stenographer. I feel it is important to put these in because Congressman Price referred to them later in the testimony.

(2) On page 557, Representative Hoerner and I got into a discussion about the 300 Bev accelerator in Europe, where he slipped and called it a 200 Bev accelerator. It seemed to me that a certain amount of the exchange, during which we were talking at cross purposes, could be eliminated and would clarify the discussion significantly.

I have made these changes in the text, but believe that Mr. Hoerner or a member of his staff should concur.

Sincerely,

Donald F. Hornig  
Director

Attachment

Mr. Matthew W. Kehoe  
Joint Committee on Atomic Energy  
Room AE-1, U. S. Capitol Building  
U. S. Senate Post Office  
Washington, D. C. 20510

DZR;hh;eac

BFH Chron. DZR Chron, S&T Files , S&T Chron.

**March 17, 1965**

**MEMORANDUM FOR**

**Marvin Watson**

**The meeting with the President tomorrow will be on the record for the purpose of presenting to him the results of the study requested by him on Biomedical Science and its Administration. The group will consist of:**

**Dr. Dean E. Wooldridge, former Chairman of the Board  
Thompson, Ramo, Wooldridge**

**Dr. William V. Houston, Honorary Chancellor  
William Marsh Rice University, Houston**

**Dr. Julius Stratton, President, Massachusetts Inst. of Technology**

**Mr. Quigg Newton, President, The Commonwealth Fund**

**Dr. George James, Commissioner of Health, New York City**

**Dr. Colin M. MacLeod, Deputy Director of the Office of Science  
and Technology; and**

**Myself.**

**The scenario will be worked out with Mr. Busby and will be ready for the President's night reading.**

**Donald F. Hornig  
Special Assistant for  
Science and Technology**

March 17, 1965

**MEMORANDUM FOR**

**Mr. George Reedy**

Attached is a draft press release which I think is appropriate for White House issuance at your earliest convenience. It concerns the election of Dr. Herbert York as Vice Chairman of the PSAC.

*(signed)* Donald F. Hornig

Donald F. Hornig  
Special Assistant for  
Science and Technology

**Att.**

RB:Barlow:jb:3-16-65  
Bec: RB file and chron  
S&T file and chron  
DFH chron



March 17, 1965

**MEMORANDUM FOR**

**Mr. Elmer B. Staats  
Deputy Director  
Bureau of the Budget**

**SUBJECT: Passamaquoddy - Saint John River Development**

I am entirely in agreement with the recommendations contained in the draft memorandum for the President transmitted by your letter of March 16, 1965.

In particular, it seems inappropriate to me to argue for the Passamaquoddy tidal project on grounds that its economics should be based on a very long lifetime -- say, more than fifty years. Although we cannot look this far into the future, experience indicates that such an installation has a very good chance of out-living its usefulness because of new technological developments within this time period. It also seems inappropriate to me to justify the Passamaquoddy project by its technical uniqueness as a large-scale tidal development. There is nothing in this project which promises new ideas or new techniques widely useful elsewhere in the economy.

(Signed) Donald F. Hornig

**Donald F. Hornig  
Special Assistant for  
Science and Technology**

**RBarlow:jh:3-16-65  
Ecc: RB file and chron  
S&T file and chron  
D~~M~~ chron  
RKLinsley**

In reply to S&T Cont. No. 0384.

March 16, 1965

Dear Dr. Greger:

I have your letter of March 9, 1965 regarding overseas travel in connection with your work on desalting. I am vitally interested in the progress of the desalting program, but the management of the program including exchange of information necessarily rests wholly in the Office of Saline Water. I am sure they will give your request careful consideration.

I appreciate the related information accompanying your letter. Your views on the use of desalted water for irrigation are especially interesting. Irrigation techniques needed to make full use of these thoughts have not yet been developed but this does seem to be a profitable line of research.

Sincerely,

(signed) Donald F. Hornig

Donald F. Hornig  
Special Assistant for  
Science and Technology

Dr. Harry P. Greger  
Polytechnic Institute of Brooklyn  
333 Jay Street  
Brooklyn, New York 11201

cc: Dr. Hornig - Chron ✓  
Mr. Linsley - Chron  
Mr. Linsley - Subject  
S&T Files - Chron  
S&T Files - Subject

RKLinsley, Jr.:paw



March 16, 1965

**MEMORANDUM FOR**

**Mr. Valenti**

In connection with the long-standing need of my Office for additional office space, it may be helpful to provide a detailed statement of our requirements over the next few months:

1. We have an immediate and very urgent need for space to house Dr. Herbert York, who has accepted the newly created position of Vice Chairman of the President's Science Advisory Committee (PSAC). He will be spending a great deal of time in Washington and will need enough space to work with a PSAC program committee which is now being established.

2. Another immediate need is for a room, not permanently occupied by OST staff members, which can be made available to PSAC members and consultants who are in Washington on short-term assignments. Since there are 18 PSAC members, and we have over a dozen panels actively at work, such a facility would see very intensive use if it were available. A Consultants Room was maintained for five years until it was swallowed up by the desperate shortage of working space for the staff.

3. Within the next sixty days, I expect to add two senior professional men to my staff. At the moment we have no place whatever to house them.

4. The budget request for my Office now before the Congress seeks authority for four additional senior professional staff members. If Congress approves this request, we will need space for them beginning in mid-summer.

(signed) Don

Donald F. Hornig  
Special Assistant for  
Science and Technology

RBarlow:jh:3-15-65  
Bcc: RB file and chron  
S&T file and chron  
D&T chron  
MLC

20506

16 March 1965

Dear Mr. Chairman:

We understand that during the F. Y. 1966 Budget hearings of the National Bureau of Standards, questions were raised about the organizational placement of the Federal Clearinghouse for Scientific and Technical Information. I am pleased to reply, and present this letter for the Committee's consideration.

As a result of interested suggestions from the Congress over the past few years that unclassified scientific and technical information developed with Federal funds be more easily available to the general public, several steps were taken by the Executive Branch in 1964. This letter refers specifically to one of these steps -- the Department of Commerce's new Federal Clearinghouse for Scientific and Technical Information.

On February 11, 1964, the Committee on Scientific and Technical Information recommended, and its parent body, the Federal Council on Science and Technology (FCST) approved the establishment of a Federal Clearinghouse for Scientific and Technical Information. The Department of Commerce was considered to be the most appropriate Executive Agency to manage the Clearinghouse in view of the Congressional direction expressed in Public Law 776, 81st Congress. The Clearinghouse was to be a national center that would assure the availability of all unclassified Federal technical reports and translations. Emphasis was placed on serving the academic and industrial-user communities in the physical sciences, engineering, and related technologies.

This office strongly supported the clearinghouse concept, and believes that the Department of Commerce has shown commendable diligence and enthusiasm in implementing it.



Under the continuing coordination and guidance of this office and of FCST's Committee on Scientific and Technical Information, the Clearinghouse is working closely with all Federal agencies generating technical reports and other technical information. A gradual build-up of the capabilities of the Clearinghouse to serve the public, and an increasing awareness by the public of the availability of Federal agency technical reports will result in increased Clearinghouse needs for Congressional budgetary support. While it would be, of course, desirable to render expanded service without the need for additional funds, the Clearinghouse in these first few years of its existence will need reasonable budget increases if its purpose is to be fulfilled.

I respectfully urge your favorable consideration of the F. Y. 1966 Budget request for the Federal Clearinghouse for Scientific and Technical Information.

Sincerely yours,

(signed) Donald F. Hornig

Donald F. Hornig  
Director

Honorable John J. Rooney  
Chairman, Subcommittee on Departments of State, Justice, Commerce, the Judiciary, and Related Agencies  
Committee on Appropriations  
House of Representatives  
Washington, D. C. 20515

cc: Dr. J. Herbert Holloman, Asst. Secy of Commerce (Science & Techn.)  
Dr. Allen V. Astin, Director, National Bureau of Standards  
Dr. Donald A. Schen, Director, Institute for Applied Technology, NBS  
Mr. Paul Schneider, Bureau of the Budget  
Mr. Hugh Loweth, Bureau of the Budget  
Col. Andrew A. Aimon, Emec. Secy, COSATI  
Dr. Charles Kidd, Emec. Secy, FCST

WTK:las

WTK file-chron; OST file-chron;  Hornig chron.

WLB gr-yi-wh

March 13, 1965

Dear Congressman Wicks:

I am writing in response to your letter of February 12, 1965, to the Chairman of the President's Science Advisory Committee and the Executive Secretary of the Federal Council for Science and Technology, in connection with your inquiry into the practices of Federal agencies for implementing the provisions of P. L. 86-367.

Since I am Chairman of the President's Science Advisory Committee (PSAC) and the Federal Council for Science and Technology (FCST), and since the Office of Science and Technology (OST) of which I am the Director provides administrative support for both activities, I am taking this opportunity to reply to both inquiries in a single letter. My letter will consequently relate to the activities of all three organizations which operate together as a single integrated point for advice and staff assistance to the President on matters of a scientific and technological nature.

My impression is that many of your specific questions are not strictly applicable to the functions of the Federal Council, the President's Science Advisory Committee, and the Office of Science and Technology. By this, I mean that the nature of our work does not involve the administration of Government programs, the determination of claims, or the formation of rules that directly affect the public.

However, insofar as our activities are affected by P. L. 86-367, we comply fully with its provisions. Descriptions of organization and functions, a listing of key

personnel, and the address of the FCST, PEAC, and OST are published annually in the United States Government Organization Manual, a special edition of the Federal Register. No claim of secrecy or relationship to internal management is made to withhold publication of any information relevant to these matters.

Doubtless, you are also aware of the frequently published reports of advisory studies of the FCST, PEAC, and OST. In addition, since 1962, when the Office of Science and Technology was established by Reorganization Plan No. 2, my predecessor, Dr. Jerome B. Wiesner, and myself have been in frequent communication with the Congress, and our testimony presents an extensive supplementary record of the ways in which the Executive Office science structure fulfills its advisory and staff functions.

I would be glad to provide you with any additional information you may require. Your staff may also wish to contact Mr. Steven R. Rivkin, Technical Assistant for Legal Affairs in the Office of Science and Technology, code 123 extension 26754, for such further materials as you may require.

Sincerely,

(signed) Donald F. Hornig

Donald F. Hornig  
Director

Honorable John E. Moss  
House of Representatives  
Washington, D. C.

SR Rivkin:gl

DISTRIBUTION:-

- 1-addressee
- 2-Jean Lewis
- 3-Hornig chron
- 4-5-Cong'l files
- 6-7-OST subj & chron
- 8-9-SRRivkin files

OST CONTROL #0255

~~CONFIDENTIAL~~

March 15, 1965

MEMORANDUM FOR

Mr. Valenti

You have asked me to provide you with comments on the marked paragraphs of the attached letter from Jerry Wiesner.

First, I would like to comment more generally. The Chinese nuclear explosion has plainly shaken the confidence of Indians in the rate at which they are progressing technologically vis-a-vis the Chinese. There has been a suggestion that the Indians mount some spectacular of their own to counter the Chinese bomb, but no really fruitful suggestions have been made. It seems to me that we must concentrate instead on steps to accelerate basic technical development in India. In addition to the efforts of State, AEC and NASA, I am asking the President's Science Advisory Committee to join with me in exploring possible moves on our part prior to Prime Minister Shastri's visit.

As for the nuclear weapons problem, specifically, I am in general agreement with Dr. Wiesner's assessment of the Indian problem. If we do not act promptly and imaginatively, India may well decide to develop nuclear weapons. As you will recall, the Gilpatric Committee emphasized that such a decision by India would have a major effect in accelerating the spread of independent nuclear weapons programs in other countries.

Specifically, the information I have seen bears out Dr. Wiesner's appraisal that India's present preoccupation with the problem of whether or not to undertake a nuclear weapons program is in part based on real fear of future Chinese nuclear aggression. The extent to which we are willing to offer military guarantees is, therefore, an important element in our efforts to effect an Indian decision in this area. I can see no objection to restating the general declaration that the President made last October to the effect that, "The nations that do not seek national nuclear weapons can be sure that if they need our strong support against some threat of nuclear blackmail, then they will have it." I would question, however, whether a simple restatement of this declaration would go far enough to calm Indian fears and believe we must seriously consider giving more specific assurances of U. S. action in the event of a Chinese nuclear attack on India.

~~CONFIDENTIAL~~

DECLASSIFIED  
E.O. 13526 Sec. 3.4  
By 30w NARA, Date 3-19-18



~~CONFIDENTIAL~~

- 2 -

The problem is, of course, complicated by India's hesitancy to accept bilateral U. S. guarantees that would affect her position as an uncommitted nation. At the same time, even though I believe it would be desirable, it does not seem very likely that we can develop multilateral guarantees with the Soviet Union since these would place the Soviet Union in the position of being a guarantor of India against China.

I understand that this entire problem is currently under review with the State Department and the Department of Defense and that there is considerable diversity of opinion as to how best to proceed. For my own part, I would recommend that we go as far as practicable in offering guarantees to India as part of a coordinated program of assistance and reassurance.

The other point raised by Dr. Wiesner concerns the greater rate of economic progress in Pakistan. He refers to the disparity between our per capita aid to Pakistan and to India and suggests that we take action to increase our aid to India.

The facts are that total U. S. aid to India in the four years FY '61 through FY '65, including PL-480, amounts to \$3,350 million, while aid to Pakistan in the same period has been \$1,525 million. These figures include the total of our commitments and pledges to both countries. During these four years our per capita aid to India has been running \$1.84 and to Pakistan \$3.61.

For the current fiscal year our total aid to India is \$1,035 million (\$2.15 per capita) and to Pakistan \$412 million (\$3.67 per capita).

Obviously we cannot accept a concept of per capita equality between the two countries as the sole basis for our aid to these countries. Our aid level to India should reflect our best assessment of India's economic needs and her capability to absorb increased U. S. aid productively, if Congress should authorize such an increase.

In preparing for Shastri's visit, it would be helpful if Dave Bell could make such a thorough appraisal of India's economic development needs, so that the President is in a position to consider what a stepped-up U. S. aid program might consist of.

DFH:eac

Re S&T No. 305  
cc: Tobin      DFH Chron.  
         Keeney      S&T Files & Chron.  
Attachment

Donald F. Hornig  
Special Assistant for  
Science and Technology

~~CONFIDENTIAL~~

AIRMAIL

March 15, 1965

Dear Mr. Crump:

Jack Valenti sent me a copy of your letter to him of February 23rd relating to the Gulf Coast Marine Sciences Center, and he also forwarded a copy of the brochure. Dr. Charles Kidd of this Office has also corresponded with Dr. Carey Cronis on the Center.

The planning for the Center seems to be methodical and realistic, and I hope that you will be able to use the concept of a Center to strengthen research in the marine sciences.

With best regards,

Sincerely,

(signed) Donald F. Hornig

Donald F. Hornig  
Director

Mr. Joseph R. Crump  
Director of Research  
University of Houston  
Houston 4, Texas

CVKidd:jsn

cc: White House Files (2) with incoming & brochure  
DFH chron ✓  
CVK file and chron  
S&T file and chron w/cy incoming

S&T Cont. No. 0342



15 March 1965

MEMORANDUM FOR

J. D. O'Connell  
Special Assistant to the President  
for Telecommunications

SUBJECT: Your memorandum of 26 February 1965 and  
attached policy statement

I believe that the memorandum as written leaves us in an untenable position with regard to the British satellite system. As I understand it, it reads:

1. We will try, insofar as practicable, to accommodate British needs in our system.

2. If DOD decides it is not practicable to do so, we will not aid the British.

It seems to me that this is an untenable policy. We cannot be a dog in the manger with an ally, particularly one which is involved in South East Asia.

There are two modifications to this policy, either of which I believe tenable.

A. Remove the phrase, insofar as practicable, from the policy statement in No. 5 on page 3 and No. 4 on page 6, perhaps adding the phrase about payment of additional costs (either directly or through leasing) on page 6.

B. State that if it is not practicable, we will aid allies if

suitable guarantees can be given with regard to restriction for military use.

I realize that this second position is dangerous with regard to our treaty position, and with regard to what is desirable. I therefore urge that position A be the U. S. policy.

On points other than this one I concur with the policy statement.

(signed) Donald F. Hornig

Donald F. Hornig  
Director

DZRobinson:hh  
S&T  
S&T  
~~DFH~~  
DZR  
DZR



March 12, 1965

Dear Dick:

Thanks very much for the invitation to join you at the "Fall Guy Show" and luncheon on 19 March. I'd very much like to be with you, but unfortunately there is a very important luncheon meeting that I must attend on that date, so I won't be able to make it.

Sincerely,

Donald F. Hornig  
Special Assistant for  
Science and Technology

Brig. Gen. Richard W. Hayward, USMC (Ret.)  
Suite 1050  
1120 Connecticut Avenue  
Washington, D. C. 20036

eac

Invitations regretted

*Mr. H. J. Phillips*

March 12, 1965

MEMORANDUM FOR

John Macy

Re: Appointment of Dr. MacLeod as Consultant to PSAC

Dr. MacLeod has been an invaluable member of PSAC. He will leave as Deputy Director of OST in June. It is imperative that we keep him in close touch with the White House, particularly on health biomedical sciences and environmental pollution problems. I hope this can be moved very quickly.

Donald F. Hornig  
Special Assistant for  
Science and Technology

Attachment:  
Ltr from President to  
Dr. MacLeod

DFH: eac

DFH Chron. ✓  
S&T Files  
S&T Chron.  
Mr. Beckler  
Mrs. Chatrnick

March 12, 1965

Dear Bishop Dougherty:

Thank you very much for your very kind invitation to me to participate in the Graduate Commencement Exercises at Seton Hall University. I am very deeply honored that you should want to grant me the honorary degree of Doctor of Science on the memorable occasion of your conferring the first Doctor of Philosophy degrees.

Unfortunately, I have already agreed to participate in the Commencement Exercises of another University, not only on the same date, but at precisely the same hour. Therefore, it is with the greatest regret that I must decline.

I have been deeply interested in the progress of Seton Hall University and congratulate you on this fine development of the graduate program. I would like to extend all good wishes and want you to know that I will be with you in spirit now and in the future.

Sincerely yours,

Donald F. Hornig  
Special Assistant for  
Science and Technology

The Most Reverend John J. Dougherty  
Auxiliary Bishop of Newark  
Seton Hall University  
South Orange, New Jersey

DFH/eac



**March 12, 1965**

**Dear Mr. Remke:**

**Thank you very much for the Daumler print, and I wish you the best of success in your Washington endeavors.**

**This Office will of course continue to keep you in mind in case any opportunities relevant to your experience and training arise in the future.**

**Sincerely,**

**(signed) Donald F. Hornig**

**Donald F. Hornig  
Special Assistant for  
Science and Technology**

**Mr. Charles R. Remke  
3445 - 38th Street, N. W.  
Washington, D. C. 20016**

**RBarlow:jb:3-10-65  
Bcc: RB file and chron  
S&T file and chron  
DFH ~~chron~~**

March 12, 1965

Dear Det:

Thank you very much for the invitation to the Conference on Law and The Social Role of Science. As you know, the questions being discussed at the Conference are very close to my heart, and I have been much concerned by them. I therefore would like very much to be present if I can. However, my schedule being what it is, it is very hard for me to make a very firm commitment. If it does not complicate things for you, I would like to come up if I can but not commit myself.

Sincerely yours,

Donald F. Hornig  
Director

Dg. Detlev W. Bronk  
President  
The Rockefeller Institute  
New York, New York 10021

DFH/eac

Tickle 4/8

March 12, 1965

MEMORANDUM FOR

THE PRESIDENT

Attached is the monthly report of current activities of the President's Science Advisory Committee and its staff. I will welcome any suggestions as to the directions in which its activities might be more responsive to your wishes.

Donald F. Hornig

Attachment

DFH/eac



March 12, 1965

MEMORANDUM FOR

John Macy

Subject: Letter of February 16 and attachment from Dan B. McDevitt to Colonel Edward J. S. Donovan, Research and Development Institute of the United States

It is a little hard to suggest how to respond to this proposal since it does not indicate what type or level of federal support is needed for the formation of the R&D Institute. Neither does it give any thought-through plan for how the talent would be assembled to do something fruitful, nor does it mention the relation to existing institutes such as the Midwest Research Institute in Kansas City.

I guess my response would be along the following lines: 1) There are no existing governmental mechanisms for general support in the establishment of a research institute. Normally, and we think most fruitfully, such institutes are formed by raising the necessary support for initial operations locally. This insures that the institute has some relevance to the problems of the region in which it develops. This was the route for Stanford Research Institute, Midwest Research Institute, Battelle, etc. 2) If an institute were developed which would perform unique functions for some one of the government agencies, it would qualify for financial support by that agency. 3) We wish them well but think its role would be more important if it were oriented toward the industry of the region rather than to space research and development, for example, which is not currently expanding.

DFH/eac

Re S&T No. 350

DFH Chron., S&T Files, S&T Chron.

Attachment

Donald F. Hornig  
Special Assistant for  
Science and Technology

**March 12, 1965**

**Dear John:**

**Thank you for the invitation to attend the Federal Agency-University Conference at Bloomington, Indiana, April 25 through 28. I would very much like to attend, but other commitments make it quite impossible for me to be away at just that time. May I suggest that, if I can arrange it, I persuade Al Hill to attend the conference on my behalf?**

**Sincerely,**

*(signature)*

**Donald F. Hornig  
Special Assistant for  
Science and Technology**

**The Honorable John W. Macy, Jr.  
Chairman  
United States Civil Service Commission  
Washington, D. C. 20415**

**DFHornig:jh:3-10-65**

**Bcc: S&T file and chron**

**DFH chron**

**RBarlow - w/all backup material.**

**DZBeckler**

**In reply to S&T Cont. No. 0344.**

**March 12, 1965**

**MEMORANDUM FOR**

**Mr. Valenti**

**This may interest the President. Science News Letter is very widely distributed to high schools.**

**Donald F. Hornig  
Special Assistant for  
Science and Technology**

**Attachment:  
Science News Letter**

**DFH/eac**



~~SECRET~~

March 11, 1965

Dear Dr. Wheeler:

In response to your letter of January 12, 1965, I have reviewed the list of individuals associated with the President's Science Advisory Committee and the Office of Science and Technology who hold special intelligence clearances and other special access clearances and find that the following individuals no longer require these clearances for the purposes of this office:

Charles Stuart Ames, Jr.  
John Bardeen  
George Wells Beadle  
Lloyd Viol Berkner  
Ralph D. Booth  
Robert Richardson Bowie  
Norris E. Bradbury  
William Earle Bradley  
Britten Chance  
Patrick Conley  
Olive Johnson Doherty  
Robert G. Fleagle  
Dorothea Jane Gable  
Edward R. Gilliland  
James B. Hartgering  
Caryl P. Hackins  
Frederic Holtsberg  
Jay Hilary Kelley

Robert Bernard Kelman  
Robert Neil Kreidler  
Richard Latter  
Robert Frederick Loeb  
Joseph R. Mares  
Jesse L. Mitchell  
Benjamin H. Oliver, Jr.  
William Thornton Read  
Nathaniel Rochester  
Eugene B. Skolnikoff  
Cyril Stanley Smith  
Alan T. Waterman, Sr.  
Harry Jean Watters  
Paul A. Weiss  
Edward Weak, Jr.  
John Lee Westrate

I recognize that a number of individuals on this list are now employed by or are consultants to other agencies of the government and may still

✓ CC: Dr. Hornig

DECLASSIFIED  
E.O. 13292, Sec. 3.6  
NLJ/RAC 04-110  
By his, NARA, Date 10-14-04

~~SECRET~~

St T Cont. No. 0365

This document is

No. 3 of 6

A

~~SECRET~~

- 2 -

require these clearances in that connection. In such cases, the responsibility for these clearances should be shifted from this office to the agency with which they are now associated.

Sincerely yours,

(signed) Donald F. Hornig

Donald F. Hornig

Dr. Albert D. Wheelon  
Deputy Director, Science and Technology  
Central Intelligence Agency  
Washington, D. C. 20505

SMK:bbi

CC: Mr. Robert Barlow

~~SECRET~~

137 to 138  
March 11, 1965

**MEMORANDUM FOR**

**Mr. Lloyd Nelson Hand  
Chief of Protocol  
Department of State**

I plan to give a luncheon on March 22 at 12:30 PM for Sir Harris Massey, Chairman of the newly established U. K. Council on Scientific Policy, and other members of the Council, who are in the United States to discuss with us mutual problems in science policy. There will be a maximum of sixteen in the luncheon party, which will include on the U. S. side high-level scientists such as Dr. Frederick Seitz, President of the NAS, Dr. Glenn Seaborg, Chairman of the AEC, and Dr. Leland Haworth, Director of the NSF.


Mr. Irwin Tobin, of my staff, has informed me of your welcome approval of our use of Blair House for this luncheon, and Mrs. Wilroy has accordingly reserved the date. Your further assistance will be much appreciated, and Mr. Tobin will be in touch with you or your staff as necessary.

(signed) Donald F. Hornig

**Donald F. Hornig  
Special Assistant for  
Science and Technology**

cc: Mrs. Wilroy

IMTobin:gpw  
cc: S&T Files  
S&T Chron  
DFH Chron  
IMT Chron





March 11, 1965

Dear Mr. Grazi:

Thank you for your letter of March 4th and also for the check for my work on the bulldozer at the ground breaking ceremonies for the JILA Building. I am greatly encouraged to know that there is another occupation I can turn to if the need ever arises.

So that you can keep your bookkeeping straight, you should know that I plan to file the check as a souvenir.

Sincerely,

Donald F. Hornig  
Special Assistant for  
Science and Technology

Mr. Sidney Grazi  
President  
Titan Construction Company  
4395 North Broadway  
Denver, Colorado 80216

ADFH/eac

March 12, 1965

Dear Fred:

Subsequent to your letter of January 8th on the Joint Argentine-United States Commission on Foot and Mouth Disease, President Johnson has replied to President Illia that he hopes the Commission can be continued. Although the Argentine Government has not thus far replied to President Johnson's letter, we are proceeding on the assumption that the Argentinians will have no objection.

However, in the discussions preceding the President's letter it became clear that the organization and operations of the Joint Commission should be significantly modified if it is to be more than just window dressing. In addition, the Argentine Ambassador has requested that I meet informally with him upon his return to this country to discuss our general approach to Foot and Mouth Disease. It seems to me that we should agree beforehand on the position to be taken in these conversations with the Argentine Ambassador, and we should get together soon for this purpose.

Many thanks for your help in the past with this whole touchy problem. I hope we can get the Academy's participation, particularly the financial aspects, on a somewhat firmer footing.

Sincerely,

(signed) Don

Donald F. Hornig

Dr. Frederick Seitz  
President  
National Academy of Sciences  
2101 Constitution Avenue, N. W.  
Washington, D. C.

PSB/emu Chron  
✓ DFH/Chron  
S&T File F&M Dis.  
S&T Chron

March 11, 1965

Dear Mr. Attorney General:

Under the terms of the President's Statement of Government Patent Policy (October 10, 1963), the Federal Council for Science and Technology is called upon to prepare an annual report, in consultation with the Department of Justice, on the effectiveness of the Policy. Enclosed is a draft of the first of these annual reports, which is forwarded for staff consideration. Dr. Charles Kidd, Executive Secretary of the Federal Council for Science and Technology, will be available for discussion of the draft report.

Sincerely yours,

(signed) Donald F. Hornig

Donald F. Hornig  
Chairman

Honorable Nicholas deB. Katzenbach  
Attorney General  
Washington, D. C.

Enclosure

bcc: Dr. Eaton/Denny(Commerce)

Mr. Beckler  
DFH chron ✓  
S&T file & chron  
CVK file & chron



March 11, 1965

Note for Bob Barlow:      Redraft of Energy Study

These are somewhat random comments, but they will illustrate my view of this draft, which I think still has serious deficiencies.

Page 6, bottom--It seems to me that the concept of substitutability needs more explicit presentation to a lay public. It might be said better that we need alternative sources of energy to meet various special needs of different consumers like transportation, electric power generation, etc., and we need as well alternative means of coping with the special problems of varying different regions of the country.

Page 7, top--This paragraph needs a lot of clarification and perhaps expansion. This is no a priori reason why it is virtuous to have many alternative sources of energy except in the context of the preceding paragraph.

Page 7, bottom--This inference is all right to a technologist, but not to the lay public. I think it should be stated that through science the marginal and sub-marginal now may be made economic in the future by the development of new processes for the extraction of the minerals.

Page 11--Implication 1. Shouldn't this implication or perhaps number 2 state quite explicitly that either our coal resources alone or our uranium resources are adequate to take us to about the year 2000.

Page 12--Here I detect the first serious deficiency. We move into the economics of R&D without saying what energy R&D is. Personally, I don't believe R&D is something. It is a categorical word describing a variety of activities which ought to be more explicitly defined. In short, I think we need a section here which follows from the previous ones if to the questions of what might be done.

For example, coal: 1. The cost of coal might be reduced by the development of new automatic mining machinery which would stack coal

coal more cheaply. Such a development would be expected to be carried out by the machinery industry perhaps, or possibly by the coal industry.

2. The cost of coal might be reduced by the development of methods of converting coal to liquid or gaseous form in the ground which are more easily extracted.

3. The cost of coal might be reduced by the development of better forms of transportation since transportation (cite facts) is a considerable part of the cost of coal in many areas of the country. Such developments include improved forms of rail transport (such as the integrated train which is already a fact), pipe line transmission in the form of slurries, or possibly other forms of transportation yet to be invented.

4. The cost of power from coal might be reduced by the increased development of very large mine mouth generating stations such as the Cardinal plant. Here the development involved would be the reduction in the cost of electric power transmission, i. e. super-high voltage transmission lines, or perhaps d. c. very high voltage transmission with associated electrical developments.

5. Coal might be made available for other uses, such as transporation via research on means to convert coal to liquid fuels and the development of economic processes to do so.

One should probably note that most of the development we have outlined are not ones we would expect to be carried out by the coal industry so that the table of R&D costs may be a little defective on this score.

### Petroleum

Here much of the R&D is not directly connected with petroleum as an energy resource. Quite a lot is and should be devoted to the chemical reforming of petroleum to make fuels which can be used in more efficient engines, thus effectively increasing the energy resources. Another considerable piece should go to the improvement of petroleum as lubricants, transformer oils, etc. -- items which are important to the transportation industry but which do not in themselves affect either the cost or availability of petroleum as a fuel source.



A third major item of petroleum R&D is concerned with the utilization of petroleum for other purposes than as a fuel, namely its conversion to higher cost and more valuable products such as petrochemicals. To this extent the R&D contributes to the non-availability of petroleum as a fuel and this is probably very highly desirable for the country if more valuable products are produced.

In the case of gas, almost all of the R&D is directly toward its conversion to more expensive chemical products or the extraction of that part of the natural gas supply which can be so converted. I have in mind the production of ethylene and propylene as a base for the growing plastics industry.

My conclusion is that perhaps the largest part of the expenditures on research and development in the petroleum area should not be called energy R&D at all.

I should mention, of course, in connection with oil there is geophysical and physical chemical research on the transport of oil through the ground and its location to the end of increasing our reserves and the degree of extraction from any given pool. All this is presumably in the big report somewhere, but I think one has to say something about what needs to be done rather than repeat the blanket word R&D, which I suggest should be largely eliminated from the report.

Lastly, in atomic energy most of the research until now has been aimed at studying the fundamental processes; it has now become economic, and developments at lowering the costs must still be carried out on conventional systems. One should note that the major development research of the future should be aimed at utilizing the non U-235 portion of the fuel with the ultimate goal of finding economic processes for using the entirety of the uranium or thorium as a fuel with a factor of 140 gain in the energy resources, but in addition ~~that~~ the research aimed at that, the development of large and more economic processes for doing so is in order. The production of larger plants generally increases the fuel economy, but the utility of larger and larger plants really hinges on the development of long distance electric transmission methods.



20306

March 10, 1965

Dear Mr. Chairman:

This will acknowledge your letter of March 4 requesting comments on H. R. 5654, to provide for expanded research in the oceans and the Great Lakes, to establish a National Oceanographic Council, and for other purposes. This matter is under study and you will be receiving a report in the near future.

Sincerely yours,

(signed) Donald F. Hornig

Donald F. Hornig  
Director

Honorable Herbert C. Bonner  
Chairman, Committee on Merchant  
Marine and Fisheries  
House of Representatives  
Washington, D. C.

CVKidd:jcn  
cc: White House Files (2)  
DFH chron  
SRRivkin  
S&T file & chron  
CVK file & chron

S&T Cont. No. 0336

20506

March 10, 1965

Dear Congressman:

Thank you for your letter of March 5 relating to the proposed Gulf Coast Marine Sciences Center.

All of the information which we have on this proposal is contained in the enclosed brochure. I am sure that Dr. Carey Croncis, the Chancellor of Rice University at Houston, would be glad to supply you with additional details. He is President of the Board of Directors of the proposed Center. We would, of course, be glad to assist you in any way in securing additional information about the Center.

Sincerely yours,

(signed) Donald F. Hornig

Donald F. Hornig  
Director

Honorable Bob Wilson  
House of Representatives  
Washington, D. C.

Enclosure

CVKidd:jsn

cc: White House Files (2)

Jean Lewis

DFH chron ✓

S&T file & chron

CVK file & chron

S&T Cont. No. 0345

March 10, 1965

Dear Dr. Light:

Thank you very much for your invitation to participate in the symposium "Scientist and Citizen: A discussion of the scientist's relationship to the community." Unfortunately, I already have other out-of-town commitments on April 13th, so that it will not be possible for me to do so.

As you are well aware, I have tried in every way possible to stimulate public discussion and interest in science and its implications for society. I have been much concerned about the need for public understanding of science and its relation to our social goals. I have also been concerned about the need for interaction by the public with the developing goals of science itself. I should very much have liked to participate in your symposium, and I wish it every success.

Sincerely yours,

Donald F. Hornig  
Special Assistant for  
Science and Technology

Dr. Robert E. Light  
Associate Director  
Scientists' Institute for Public Information  
30 East 68th Street  
New York, New York 10021

DFH/eac

speech declines "S"



March 10, 1965

Dear Dr. Weaver:

Thank you very much for the invitation to visit the Westinghouse Research Laboratories. As I mentioned to you, I am anxious to become better acquainted with the work going on in our industrial research laboratories first hand, however, my schedule looks so busy for the next couple of months that it does not seem practicable to plan anything now, and I will be in touch with you again at a later date.

It was good to see you again. I think the Westinghouse Talent Search performs a very significant service to the country.

Sincerely,

Donald F. Hornig  
Director

Dr. Charles H. Weaver  
Group Vice President  
Westinghouse Electric Corporation  
3 Gateway Center  
Pittsburgh, Pennsylvania 15230

"W"

March 10, 1965

X

DONALD F. HORNIC  
SPECIAL ASSISTANT TO THE PRESIDENT  
FOR SCIENCE AND TECHNOLOGY

DR. ARTHUR BEYER  
3208 MILBY AVENUE  
WICHITA FALLS, TEXAS

CONGRESSMAN GRAHAM PURCELL HAS CALLED TO THE  
ATTENTION OF THE WHITE HOUSE THE VERY FINE WORK  
BEING DONE THROUGH THE OIL BELT REGIONAL SCIENCE  
FAIR TO STIMULATE INTEREST IN SCIENCE IN THE JUNIOR  
AND SENIOR HIGH SCHOOLS IN NORTH TEXAS.

OUR COUNTRY DEPENDS ON HIGH SCHOOL AND JUNIOR HIGH  
TEACHERS TO IGNITE THE FLAME OF INTEREST IN SCIENCE  
AND START IT GLOWING BRIGHTLY. I CONGRATULATE THE  
SCIENCE FAIR AND THE TEACHERS AND STUDENTS  
PARTICIPATING IN THE SCIENCE FAIR PROGRAM. KEEP UP  
THE GOOD WORK.

R. Barlow/DFHornig:cc

cc: Mr. Holborn w/incoming correspondence

In reply to S&T No. 0337

DFH Chron.  
Barlow Chron.  
S&T Files  
S&T Chron.  
WH Central Files(2)

March 9, 1965

Dear Hugh:

The Space Science Panel of the PSAC, after a review of the rocket sounding program, has suggested that I request the National Academy of Sciences for an up-dating of prior studies of such work. Specifically, it is proposed that I send the attached letter to Fred Seitz.

I would appreciate your reviewing the attached draft, as well as any related comments you might care to make on this recommendation by the Space Science Panel.

Sincerely,

(signed) Don

Donald F. Hornig  
Director

Dr. Hugh L. Dryden  
Deputy Administrator  
National Aeronautics and  
Space Administration  
Washington, D. C.

Enclosure

DFH Chron  
NEG Chron  
NEG Subj  
S&T Chron  
S&T Subj

NEG:hk



DRAFT: NEG/hk 3/5/65

(Proposed letter from Dr. Hornig to the President of the NAS)

Dear Dr. Seitz:

As you know there are many interesting and important scientific problems in near earth space which can be attacked effectively either through the use of earth satellites, such as those in the Orbiting Geophysical Laboratory series for example, or through the employment of properly designed instruments placed into near earth space by sounding rockets with requisite payload and attitude control capabilities. In the course of the last few months the Space Science Panel of the PSAC has had occasion to review several related facets of the National Space Program. These reviews led the Panel to conclude that a study by the NAS of such alternative approaches to understanding of many phenomena observable from near earth space would be of value to the PSAC and to several government agencies. In part, this conclusion was based on the fact that the NAS, in previous studies of the National Space Program, has had occasion to examine in some detail the advantages and problems of conducting space science experiments via sounding rockets, and that a summary of the results of such prior reviews should be an essential part of any new effort along these lines.

DRAFT

- 2 -

Accordingly, I would appreciate it greatly if the National Academy of Sciences would find it feasible and convenient within the next few months to undertake a study, and to furnish me with a report, including recommendations, concerning the relative difficulties and benefits associated with the employment of earth satellites and of appropriately designed sounding rockets for various classes of near earth space research. It would be particularly useful to have the results of an NAS study along these lines by the end of September, 1965.

I would appreciate being advised in the near future whether the above request is acceptable to the Academy.

Sincerely yours,

Donald F. Hornig  
Director

Dr. Frederick Seitz  
President  
National Academy of Sciences  
Washington, D. C.

March 9, 1965

Dear Fred:

Thank you for your letter inviting me to attend the reception and dinner on March 14th marking the annual meeting of the National Research Council. I would very much like to, however, as you know, this comes just before the PSAC meetings, and I have promised to meet with some of the Committee members that evening.

Sincerely,

Donald F. Hornig  
Special Assistant for  
Science and Technology

Dr. Frederick Seitz  
President  
National Academy of Sciences  
2101 Constitution Avenue  
Washington, D. C. 20418

eac

2 invitations regretted



March 9, 1968

Dear Fred,

Thank you for the copy of the letter and report from Mr. Michle of the Highway Research Board. The immediate response of the Board to the President's Message is to be commended, particularly because of the initiative displayed. I am sure that the report has been most useful to state highway departments and to Federal Agencies.

I hope that the Highway Research Board will continue to strengthen its role in information collection and dissemination so that reports in other important areas of research can be made quickly available when needed.

Sincerely,

(signed) Don

Donald F. Hornig  
Director

Dr. Frederick Seitz, President  
National Academy of Sciences  
2101 Constitution Avenue, N.W.  
Washington, D. C. 20418

WLH:oper:gl  
DISTRIBUTION  
1-addressee  
2-Hornig chron file  
3-OST chron  
4-OST subj  
5-6- WLH files

OST CONTROL #0313

March 9, 1965

**MEMORANDUM FOR**

**Mr. Valenti**

I hope you remember that you had planned to send me Jim Webb's covering letter on the NASA planning document, as well as your summary for the President. I have not received them yet.

It would be helpful if we could have them right away since our Space Science Panel, a very knowledgeable group, is meeting today and tomorrow, and I would like to make the best possible use of them.

**Donald F. Hornig  
Special Assistant for  
Science and Technology**

DFH/eac

S&T Files

S&T Chron.

→ DFH Chron.

**March 9, 1965**

**MEMORANDUM FOR**

**THE PRESIDENT**

**Ref. : Memo from Kermit Gordon re Interagency  
Committee, March 2, 1965**

**The following interagency committees are chaired by  
members of the Office of Science and Technology:**

**Federal Council for Science and Technology  
Committee on Water Resources Research of  
the Federal Council for Science and Technology  
Steering Committee of the Interdepartmental  
Energy Study  
Chemical Abstracts Task Group**

**Donald F. Hornig  
Director**

**DBeckler;khb**  
**CC: DFH subj & chron**  
**Mr. Beckler**  
**S&T File**  
**S&T Chron**

**Reply to S&T Cont. No. 0316**



**March 9, 1965'**

**Dear Dr. Smelt:**

**Thank you for your letter of February 18th. As I told Mr. Busch, I would like some time to meet with the members of the Lockheed Research Council. Unfortunately, the dates mentioned in your letter are not possible for me. My schedule for this spring is so heavy, that it may be quite difficult to fit such a meeting in within the next few months.**

**Sincerely,**

**Donald F. Hornig  
Director**

**Dr. R. Smelt  
Vice President and  
Chief Scientist  
Lockheed Aircraft Corporation  
Burbank, California**

**cc: Mr. G. A. Busch**

**eac**

**"L"**

March 9, 1965

MEMORANDUM FOR

Mr. Kermit Gordon

The President's Message on Natural Beauty states "I am directing the heads of all agencies to improve measures to abate pollution caused by direct agency operation, contracts and cooperative agreements. Federal procurement practices must make sure that the Government equipment uses the most effective techniques for controlling pollution."

Some actions have already been taken, such as the requirement in your Circular A-11 related to provision for pollution prevention in new construction. However, the language in the Message suggests the intent to go far beyond this. I assume the Office of the President will need to issue instructions to carry out the intent of this statement. I would think, as a first step, the agencies might be asked to provide statements on what they now do and what they propose to do in relation to the President's Message.

Aside from the obvious needs in waste disposal and stack emissions at Federal installations and from industrial operations in structures on lands leased from the Federal Government, there are many other actions of the Federal Government that contribute to pollution, and to which the directive should apply. Obvious examples are pesticides and radioactive waste materials; other agricultural chemicals, solid wastes and many other pollutants also should be included.

Additionally, the possibility of influencing pollution control practices of suppliers, contractors, and grantees through provisions in the contract, should be suggested.

We believe this positive directive by the President will be one of the most far-reaching steps in pollution prevention and abatement. We shall be glad to help in any way possible.

"Don Hornig"

Donald F. Hornig  
Director

JLB/shb/emu Chron  
DFH/Chron ✓  
JLB File  
S&T File Env. Pol.  
S&T Chron



March 9, 1965

Dear Mr. Copenhaver:

Thank you for your letter of March 3rd. I appreciate your invitation to present an address to the technical staff members of the Minnesota Mining and Manufacturing Company, but, unfortunately the pressure of my duties here in Washington are such that I doubt it would be possible for me to do so. I would like to suggest, however, that Dr. Patrick Conley a former member of my staff who is now the Dean, College of Engineering and Science of the Carnegie Institute of Technology at Pittsburgh, would be a very good choice for such an assignment.

Sincerely,

Donald F. Hornig  
Special Assistant for  
Science and Technology

Mr. J. W. Copenhaver  
Executive Director  
Minnesota Mining and Manufacturing Co.  
2301 Hudson Road  
Saint Paul, Minnesota 55119

eac

March 9, 1965

**MEMORANDUM FOR**

**Mr. Watson Davis**

**Enclosed are photographs taken at the White House  
Ceremony of the winners of the Westinghouse Science  
Scholarship and Awards on March 1st. You may  
wish to distribute these .**

**Donald F. Hornig**

**Enclosures**

20506

8 March 1965

Dear Mr. Chairman:

The purpose of this letter is to urge your favorable consideration of the F. Y. 1966 budget request of the National Bureau of Standards for the National Standard Reference Data System.

I am stressing the National Standard Reference Data System because it is the primary means by which the Nation's scientists and engineers obtain the critically evaluated data which undergird modern science, technology, and industry. By "critically evaluated data" I refer to data describing the physical properties of matter, the mechanical characteristics of materials, the rates of chemical reactions, and other phenomena, which have been carefully and painstakingly checked for accuracy and reliability.

Without the steady availability of these data the cost of the Nation's effort in research, development, design, and production would be considerably greater than what is actually now spent. Similarly, the cost of government activities in defense, space, and nuclear power would be much greater, because of the need for re-determination of the desired information.

It was for these reasons that the Office of Science and Technology, in response to plans from the National Academy of Sciences, many professional societies, and major corporations, in 1963 urged the National Bureau of Standards to set up the National Standard Reference Data System. Following endorsement by the Federal Council for Science and Technology, the project was initiated in F. Y. 1964 with the financial assistance of four other Federal agencies.

Appropriations made to the Bureau of Standards in F. Y. 1965, when it was made the exclusive responsibility of the Bureau of Standards, were insufficient to carry out the planned program. As a result, the Bureau reprogrammed funds



to continue this worthy project -- at a great sacrifice to other projects at the Bureau.

This office has reviewed the F. Y. 1966 budget and program for the National Standard Reference Data System, and has found it to be both reasonable and adequate. Dr. Frederick Seitz, President of the National Academy of Sciences, has recently pointed out to me the Academy's concern that the NSRDS Program cannot move forward on the scale needed by the Department of Defense and other agencies, unless stable funding is made available soon.

I trust that after your usual careful consideration, this budget request will receive your support. I will be happy to testify personally in support of this item at your hearings if you should consider it desirable for me to do so.

Sincerely yours,

(signed) Donald F. Hornig

Donald F. Hornig  
Director

Honorable John L. McClellan  
Chairman, Subcommittee on Departments of  
State, Justice, Commerce, the Judiciary,  
and Related Agencies  
Committee on Appropriations  
United States Senate  
Washington, D. C. 20510

cc: Dr. Frederick Seitz, President, National Academy of Sciences  
Dr. J. Herbert Hallemon, Asst. Secy Commerce for Science & Tech.

WTK:las

WTK file-chron

OST file-chron

✓ D. F. Hornig

WH: gr-yi-wh

Identical letter to Honorable John J. Rooney, Chairman, Subcte on Depts. of State, Justice, Commerce, the Judiciary, and Related Agencies, Cte. on Appropriations, House of Representatives

**March 8, 1965**

**Dear Dr. Webb:**

**Thank you very much for your cordial letter of March 2 regarding the closing of the Norfolk Public Health Service Hospital.**

**The decision to close seven of the twelve Public Health Service Hospitals was made independently of my office, and is not subject to reconsideration in our survey of the five hospitals which will remain. However, because affiliations with teaching and research institutions are so important to the maintenance of high quality care in Federal hospitals, it would be of great help for us to understand the experience you have had in setting up such an affiliation with the Norfolk P. H. S. Hospital. I have asked Mr. J. Milo Andersen, who is serving as staff for a panel of distinguished citizens which I have assembled to review the entire Public Health Service Hospital situation, to contact you on this matter. I hope this will not prove to be an intrusion into your schedule.**

**Again, Many thanks for your letter and your interest in this problem. I hope you will not hesitate to contact me as the Study progresses.**

**Yours sincerely,**

**(signed) Donald F. Hornig**

**Donald F. Hornig  
Director**

**Dr. Lewis W. Webb, Jr.  
President  
Old Dominion College  
Norfolk 8, Virginia  
PSB/emu Chron  
DFH/Chron ✓  
S&T File FHS Hospitals  
S&T Chron**

**March 9, 1965**

**Dear Mrs. Shepard:**

**Thank you very much for your cordial letter of March 2 regarding the closing of the Norfolk Public Health Service Hospital.**

**The decision to close seven of the twelve Public Health Service Hospitals was made independently of my office, and is not subject to reconsideration in our survey of the five hospitals which will remain. However, I do appreciate your interest in this decision, and I hope you will not hesitate to contact me if you have any further questions.**

**Yours sincerely,**

**(signed) Donald F. Hornig**

**Donald F. Hornig  
Director**

**Mrs. Lillian H. Shepard  
984 Marietta Avenue  
Norfolk, Virginia**

**PSB/emuChron  
DFH/Chron ✓  
S&T File PHS Hospitals  
S&T Chron**



March 9, 1965

**MEMORANDUM FOR**

**Mr. O'Brien**

**Subject: Long Amendment on Patents**

Reference is made to Secretary Celebrezze's weekly legislative report to the President on the above subject and your request for comments. I would like to bring the following facts to your attention.

a) I had discussed the problems posed by the Long amendment with Wilbur Cohen, with James C. Gligley and Edward Dempsey of HEW prior to the preparation of my letter to Senator Hill. You are aware, of course, that the amendment (S 512) applies not only to health facilities but to the basic legislation covering research in the Public Health Service. It was my understanding that HEW had no objection to my writing directly to Senator Hill. The response of Secretary Celebrezze opposed the amendment by transmitting my previous letter to Rep. Fallon; my letter to Senator Hill merely amplified the points made in the letter transmitted by the Secretary and supplied specific facts as they applied to health research.

b) My letter to Senator Hill and its attachments were cleared by Mr. Manatos prior to transmittal. I previously sent a similar letter to the Chairman of the House Public Works Committee (Rep. Fallon) with White House clearance.

c) In transmitting the views of the Director of the National Cancer Institute to Senator Hill, I was endeavoring to assist the Committee's understanding of the problem by providing specific examples of ways in which the Long amendment would interfere with the Institute's program in cancer research. A copy of Dr. Endicott's letter was placed in Mr. Cohen's hands the day of receipt in my office and 36 hours prior to its transmittal to Senator Hill.

I do not understand why HEW does not support Dr. Endicott's letter, since it is consistent with the position of HEW on the health facilities bill and with the Administration's general stand with respect to the Long amendment. It is the President's desire, as I understand it, that there be broader consideration of the implications of the amendment beyond this specific legislation.

Prior to the letter to Senator Hill I had talked with Senator Long and communicated the substance of that conversation to you and the President. It is my interpretation of that conversation that Senator Long would be agreeable if the Long amendment were modified to allow licensing under government owned patents when:

a. A license is necessary to secure further development, test and evaluation of the invention before it can be available for marketing or use.

And,

b. Substantial private investment must be made and substantial risk must be incurred in this development.

I believe that Senator Long and Senator Hill can be brought together on this point without difficulty and the amendment reported out in a form which will not weaken our entire health research program.

Donald F. Hornig  
Special Assistant for  
Science and Technology

DZB/ DFH/ eac

DFH Chron ✓  
S&T Files  
S&T Chron.  
DZB

March 2, 1965

Dear Mr. Scanlin:

Thank you very much for your letter of February 20th elaborating further your hypothesis concerning the induction of rainfall. I have transmitted it to Dr. Earl Droessler, head of the Atmospheric Sciences Section at the National Science Foundation. This is the group primarily responsible for the study of the fundamental physics of atmospheric processes.

Sincerely yours,

(signed) Donald F. Hornig

Donald F. Hornig  
Director

Mr. Thomas F. Scanlin  
63 Roundwood Lane  
Levittown, Pennsylvania

DFHornig:paw

cc: Dr. Hornig - Chron ✓  
Mr. Linsley - Chron  
Mr. Linsley - Subject  
S&T - Chron  
S&T - Subject  
Dr. Earl Droessler



March 6, 1965

Dear Mr. Harr:

Thank you for your letter of February 25th concerning the Aerospace Industries Association Conference in Williamsburg on May 20th. I am most pleased to accept your invitation to address the Conference. I would like to make it clear, however, that, due to the nature of my present position, there is always the possibility that I might be forced to cancel at the last minute.

Sincerely yours,

Donald F. Hornig  
Special Assistant for  
Science and Technology

Mr. Karl G. Harr, Jr.  
President  
Aerospace Industries Association of America, Inc.  
1725 De Sales Street, N. W.  
Washington 6, D. C.

eac

tickele 5/20

March 6, 1965

Dear Chat:

Please accept my apologies for the long delay in replying to your letter of December 11, which managed to get buried beneath one of the numerous piles on my desk.

The questions you ask are hard ones. In the first place, the coordination of U. S. scientific research and development activities is improving. There is always the question of how much and how detailed coordination is actually good for a healthy science. In any case, the problems for development are entirely different from those of basic scientific research.

With respect to the scientific experiments on the moon, there may not be enough thinking, but the fact is that an awful lot of very good people have been and are thinking very hard about it. I have a panel continually at work, for example.

Thirdly, as to a Department of Science, I have no particular enthusiasm for the idea, but I don't believe anyone can produce arguments which would rule it out. A lot depends on just what its functions and structure would be. In any case, I would be happy to talk with you when you are next in Washington.

Lilli joins me in sending our very best regards to all of you.

Sincerely,

Donald F. Hornig  
Special Assistant for  
Science and Technology

Professor Chester T. O'Konski  
Department of Chemistry  
University of California  
Berkeley, California 94720

March 6, 1965

Dear Mr. Davenport:

Thank you for your invitation to address the National Youth Science Congress on June 24 or 25 when it meets here in Washington. I would very much like to meet with the students while they are here, but unfortunately, it will not be possible for me to do so since I already have commitments for these dates. Please accept my best wishes for the success of the Congress.

Sincerely yours,

Donald F. Hornig  
Special Assistant for  
Science and Technology

Mr. Ted Davenport  
Director, Youth Activities  
National Science Teachers Association  
1201 Sixteenth Street, N. W.  
Washington, D. C. 20036

eac

speech declines "S"



March 6, 1965

Dear Admiral Knell:

Thank you for your letter of 1 March. I do not as yet have a title for my speech at the Oceanography Banquet on May 6th, so I would suggest your merely list me as speaker in your program. Mrs. Hornig will be very happy to accompany me to the banquet.

Sincerely yours,

Donald F. Hornig  
Special Assistant for  
Science and Technology

Rear Admiral Denys W. Knell, USN  
Oceanographer of the Navy  
Office of the Chief of Naval Operations  
Washington, D. C. 20350

eac

tickle 5/6

March 6, 1965

MEMORANDUM FOR

Marvin Watson

I should like to request an appointment with the President on March 18th at which I would like to bring in Dr. Dean Wooldridge, former Chairman of the Board of Thompson, Ramo, Wooldridge; Dr. Jay Stratton, President of MIT; and Dr. Colin MacLeod, Deputy Director of the Office of Science and Technology. The purpose of the visit is to present the President with the results of a study on the programs and administration of the National Institutes of Health prior to its public release.

The study was undertaken by a distinguished committee of citizens headed by Dr. Wooldridge and with the assistance of over 100 experts. It is a far-reaching study and its conclusions are generally applicable to government programs well beyond the NIH. I estimate that about one half hour to 45 minutes will be required.

Donald F. Harnig  
Special Assistant for  
Science and Technology

DFH/eac

S&T Files, S&T Chron. DFH Chron & File



March 6, 1965

Dear Professor Messel:

Thank you very much for your very kind letter of 12 February. As I indicated to you when we talked, I look with great favor on the idea of a possible visit to Australia. I am very much impressed by what the Cornell-Sydney Astronomy Centre is doing in the way of cooperation and would like to be present when the Mills Cross comes into action.

As I indicated to you in our discussion, the date mentioned, November 19th, comes squarely in the middle of the period at which we are setting our national budget for the next year, and it may pose some difficulties for me. Consequently, I cannot give you a definite answer at this time, although I will certainly consider the invitation favorably.

Sincerely yours,

Donald F. Harnig  
Special Assistant for  
Science and Technology

Professor H. Messel  
The University of Sydney  
Sydney, New South Wales



March 6, 1965

Dear Mr. Park:

I was very interested to learn of the symposium being sponsored by the National Academy and the Army Office of Civil Defense in April and very much appreciate your invitation to attend the proceedings. My schedule for the period from the 19th through the 23rd is exceedingly crowded, and I do not know if it will be possible for me to find time to attend any of the sessions. Since you indicate your space is limited, I would not want to prevent someone else being invited in my place and suggest, therefore, that you do not plan on my attending the conference.

Sincerely,

Donald F. Hornig  
Special Assistant for  
Science and Technology

Mr. Richard Park  
Advisory Committee on Civil Defense  
National Academy of Sciences  
2101 Constitution Avenue  
Washington, D. C.

eac

March 6, 1965

Dear Mr. Mich:

Thank you for your letter of March 2nd, inviting me to attend a luncheon celebrating Magazine Day in Washington on March 25th. I will be pleased to be with you on the 25th at the Statler-Hilton and look forward to the occasion.

Sincerely,

Donald F. Hornig  
Special Assistant for  
Science and Technology

Mr. Daniel D. Mich  
Chairman  
American Society of Magazine Editors  
575 Lexington Avenue  
New York, New York 10022

eac

tickle 3/25

March 6, 1965

Dear Urner:

Thank you very much for sending me the set of pictures taken by Ranger 8. I am very glad to have them. NASA is certainly to be congratulated for a fine job on Ranger 8.

Thank you also for your kind words about my speech on Monday evening. The subject ~~was~~ one I feel deeply about and I am glad to know others feel that way too.

Sincerely,

Donald F. Hornig  
Special Assistant for  
Science and Technology

Mr. Urner Liddel  
Assistant Director and Chief Scientist  
Lunar & Planetary Programs  
Office of Space Science and Applications  
National Aeronautics and Space Administration  
Washington, D. C. 20546

eac



March 6, 1965

Dear Mr. Green:

Thank you for your letter inviting me to attend the banquet to be held on April 6th of the Conference on Phenomena in the Neighborhood of Critical Points and to address the group. I would very much like to accept your invitation, but unfortunately it will be impossible for me to be with you on April 6th due to a previous commitment. Please accept my best wishes for the success of the conference.

Sincerely,

Donald F. Hornig  
Director

Mr. Melville S. Green  
Chief, Statistical Physics Section  
Heat Division  
National Bureau of Standards  
Washington, D. C. 20234

eac

March 6, 1965

Dear Mr. Wichers:

Thank you for your letter of March 2nd. I won't be able to attend any of the meeting of the Division of Chemistry and Chemical Technology during the afternoon of March 15th since that is a day on which the President's Science Advisory Committee will be meeting. I hope, however, to be able to join you by 6:15 that evening.

Sincerely,

Donald F. Hornig  
Special Assistant for  
Science and Technology

Mr. Edward Wichers  
Executive Secretary  
Division of Chemistry and  
Chemical Technology  
National Academy of Sciences  
2101 Constitution Avenue  
Washington, D. C.

eac

tickle 3/15

March 6, 1965

Dear Mandle:

With regard to your letter of March 1st, I would suggest you phone Leibler, Hill and Wells to ask them to join your panel. I will confirm by letter or twist arms if necessary.

With best regards,

Sincerely,

Donald F. Hornig  
Director

Dr. E. R. Piore  
International Business Machines Corp.  
Old Orchard Road  
Armonk, New York 10504

DFH/eac

cc: Mr. Barlow with cc incoming

DFH Chron. S&T Files, S&T Chron.



March 5, 1965

Dear Bob:

Thank you for your invitation to be  
with the Oceanography Committee for dinner  
on March 17th. I'm sorry I can't be with you,  
but, since the 17th is my birthday, I'm sure you  
can appreciate that I already have another  
commitment.

Sincerely,

Donald F. Hornig  
Director

Honorable Robert W. Merse  
Assistant Secretary of the  
Navy (Research and Development)  
Washington, D. C. 20350

cac

invitations regretted

**March 3, 1965**

**MEMORANDUM FOR**

**Horace Busby**

**Subject: Actions Requested or Suggested--Cabinet Meeting,  
February 25, 1965**

**This is in response to your memorandum of February 26 relating to  
interagency committees, paragraph 3.a.(1).**

**I serve as Chairman of the Federal Council for Science and Technology  
which was established by Executive Order. Members of the staff of  
the Office of Science and Technology participate in the following inter-  
agency committees established under the Federal Council for Science  
and Technology:**

**Interagency Committee on Oceanography  
Committee on Water Resources Research  
Committee on Scientific and Technical Information  
Committee on Scientific Personnel  
Interdepartmental Committee for Atmospheric Sciences  
Standing Committee  
Patent Advisory Panel  
Coordinating Committee on Materials Research and Development  
Technical Committee on High Energy Physics  
Committee on Behavioral Sciences  
International Committee  
Committee on Natural Resources  
Long Range Planning Committee**

I also serve on the Committee of Principals and on the NSC Committee on Stockpile Objectives. Other interagency committees in which the members of the Office staff participate include the following:

Interagency Committee on Foreign Desalting Programs  
Advisory Committee on Graduate Education  
Interagency Committee on Education  
Interdepartmental Committee for Applied Meteorological Research  
Interdepartmental Committee for Meteorological Services  
Interagency Committee for International Meteorological Programs  
Task Force on Chemical Abstracts  
Federal Library Committee  
Committee on Documentation of the U.S. Intelligence Board  
Cholera Advisory Committee  
Interagency Emergency Planning Committee  
Interagency Research Committee for Emergency Planning  
Committee to Study Economic Incentives for Pollution Abatement  
Interagency Committee on the Economic Impact of Defense and Disarmament  
Protective Research Advisory Committee  
Deputy Principals Committee  
Interdepartmental Committee on Non-Proliferation  
Interdepartmental Committee on Aspects of Space Policy

*LS/RTA*  
**Donald F. Hornig**  
Director

CVKidd:jan  
cc: DFH chron ✓  
Mr. Barlow  
CVK file & chron  
S&T file & chron



Reminization of enclosures:

- . Orig of listing of the 12 letters
- . 1 bound set of cys of the 12 ltrs
- . 6 bound books "copies of the nomination."

March 5, 1965

Dear Mr. Macy:

I take great pride and satisfaction in renominating Mr. David Z. Beckler for the President's Award for Distinguished Federal Civilian Service.

Mr. Beckler is a career civil servant who has been with the Federal Government for 23 years. His current position is that of assistant to me and Executive Officer of the President's Science Advisory Committee.

Mr. Beckler's contributions have been outstanding in devising the present Federal machinery for providing advice and assistance to the President in science and technology. I know that each of my three predecessors in the role of Presidential science advisor can testify to the diligence, imagination and leadership which he has brought to his position. For his highly creative and enduring contributions to national science policy formulation and organization, I believe he fully deserves the national recognition implicit in this award.

In addition to the material normally required in support of this nomination, I am appending a set of copies of twelve letters which express appreciation for Mr. Beckler's services. A list of these letters is also enclosed.

Sincerely yours,

(signed) Donald F. Hornig

Donald F. Hornig  
Director

Enclosures

Mr. John Macy  
Executive Secretary  
Distinguished Civil Service Award Board  
U. S. Civil Service Commission  
Washington, D. C.

S&T Control No. 0014

March 4, 1965

MEMORANDUM FOR  
THE PRESIDENT

This morning I discussed the patent problem with Senator Long for over an hour. We agreed that we both wanted to (a) protect the public and (b) ensure that patents resulting from government R&D are used for the benefit of the economy and the public.

He said he would be willing to compromise and to modify the Long amendment to specify the circumstances under which licensing would be permitted. The principal one would be that it was necessary to induce someone to risk private money on the invention in order to put it to use.

He said he thought we could work together and asked me to think over possible compromises and talk farther with him. I said I would do so.

The principal problem for all agencies besides DOD and NASA (where there are harder ones) is that he does not accept that feature of the government-wide patent policy which leaves it to agency heads to determine when it is in the public interest to grant licenses. He does not trust agency heads.

In the meantime, I am continuing to oppose the Long amendment in its present form. I hope this meets with your approval.

Donald F. Hornig

DPH/Chron. & File



March 4, 1965

**MEMORANDUM FOR**

**THE FILES**

**Subject: Discussion with Senator Russell Long re Patent Policy  
March 4, 1965 - 10:40--11:45 AM**

- 1. Senator Long told me at length of the many examples he had uncovered of the misuse of patents, by using patents to inhibit competitive developments, as an instrument of company policy in structuring a field, in developing monopoly positions, etc.**
- 2. He cited the importance of making information developed at public expense freely available. Publicly funded research should not be used to provide monopoly positions.**
- 3. I pointed out the important difference between inventions which were brought to the point of marketability by government funds and those which required substantial risk and investment before they could be marketed.**
- 4. He says no one has ever presented him with an example of an invention which was not developed because the patent was not turned over.**
- 5. I cited the examples provided by Dr. Kenneth Endicott, Director of the National Cancer Institute, of instances where the present NIH regulations make it difficult, even impossible, to secure the development and testing of new drugs. Endicott also described problems arising from joint sponsorship.**



I also described to Senator Long the case of an eminent Professor (K. C. Taylor, not named) who divides his research group sharply between privately and NIH supported work. The NIH half never sends its compounds for screening and testing. Before the new regulations, all compounds get preliminary screening.

6. Senator Long and I agreed that we wanted simultaneously to protect the public and put inventions to use. I described the situation I had observed in the Soviet Union where the organization is formally good but there are no incentives for the application and use of new inventions by individuals or organizations. I said I did not want us to end up in the same boat.

7. Senator Long said that he would not be opposed to a scheme where licenses were permitted if a patent were not used when made available to the public. I pointed out that his amendment would not permit this. He said he thought we could work together and that he was willing to work out a reasonable compromise. He suggested the government charge royalties on its patents and that the license period be less than 17 years, perhaps 5. He also wanted to be sure that patents were actually used, not required to bottle knowledge up.

8. I pointed out that the President's patent policy requires use in 3 years and in fact takes care of all his concerns, except that it leaves the decision as to whether licensing is in the public interest to the agency head.

9. He then denounced the perfidy of Mr. Webb who originally was empowered to license in individual areas, then extended a blanket license approval "in clear violation of the law" and finally came back to ask that rights be awarded at the time the contract was signed.

10. We agreed that we both wanted (a) to protect the public and (b) to ensure that inventions were actually used for the good of the economy and the public. We agreed to consult together further, and I promised to send up suggestions after further thought.

11. He reminded me that he had the votes to attach his amendment to all bills in committee and make it stick on the floor. He concluded by saying he thought we could work this out.

DFH/eac

DFH Chron. DFH Files, S&T File & Chron. cc: Mr. Beckler

Donald F. Hornig

→ cc: Mr. Martin  
Mr. O'Brien

20306

February 17, 1965

h L 4

Dear Mr. Chairman:

This will acknowledge your letter of February 24 requesting additional information relating to oceanography. Staff work on compilation of this material has begun, and our staff will be in touch with Mr. Marshal if questions arise in the course of preparing the material.

You will shortly receive the response to the questions to which you requested an answer by correspondence.

Sincerely yours,

(signed) Donald F. Hornig

Donald F. Hornig  
Director

Honorable Warren G. Magnuson  
Chairman, Committee on Commerce  
United States Senate  
Washington, D. C.

CVKidd:jcn

cc: White House Files (2)

Jean Lewis ✓

DFH chron ✓

S&T chron & file

CVK file & chron

S&T Cont. No. 0291

**March 4, 1965**

**MEMORANDUM FOR**

**Mr. Frederick L. Holborn  
The White House**

**Enclosed is the draft of a suggested letter from the President to Dr. George L. Cress, President of the University of Oklahoma, in connection with the dedication next week of the university's new Engineering Center.**

**(signed) Donald F. Hornig**

**Donald F. Hornig  
Special Assistant for  
Science and Technology**

**Enclosure**

**RBarlow:jb:3-4-65  
Bcc: RB file and chron  
S&T file and chron  
DFH ch~~y~~on**

**In reply to S&T Control No. 0308**



**DRAFT OF LETTER FOR THE PRESIDENT'S SIGNATURE**

**Dear Dr. Cross:**

**I am greatly pleased to learn that your fine University has seen fit to build the new Engineering Center which you are dedicating this week.**

**Investment in new educational resources is the most important investment which can be made in the future of our country. I know that you will have the wisdom and the foresight to fill these handsome new halls with dedicated and inspired teachers, giving life to these facilities and assuring the return in educated citizenship which is your purpose. Oklahoma engineers will thus continue to go forth, as they have in the past, to build a better nation.**

**My warmest congratulations to you and your University colleagues, and to the great State of Oklahoma, for bringing this promising new Center into being.**

**Sincerely yours,**

**LBJ**

**Dr. George L. Cross  
President  
University of Oklahoma  
Norman, Oklahoma**

**cc: The Honorable Carl Albert**

---

March 3, 1965

Dear Mr. Hollifield:

I am happy to respond to your inquiry about the status of the Interdepartmental Energy Study.

The comprehensive survey of energy technology made under the direction of Dr. Ali Bulant Cambel is essentially completed and is in process at the Government Printing Office.

The statement of conclusions and recommendations by the Interdepartmental Committee has gone through several drafts and is still being amended. The two documents will presumably be transmitted together to the President.

I of course wish to be of assistance to the Committee in its consideration of the civilian nuclear power program. At the same time I am sure you appreciate the impropriety which would be involved in providing documents and information which have been prepared at the request of the President but which he has not yet seen. Please be assured that the results of the study will be communicated to you at the earliest feasible time.

) Name added to  
) mailing list for  
) energy study  
notification.

Sincerely,

(signed) Donald F. Hornig

Donald F. Hornig  
Director

The Honorable Chet Hollifield  
Chairman, Joint Committee on Atomic Energy  
Congress of the United States  
Washington, D. C.

In reply to S&T Control #0267.

RBarlow:jb:3-4-65

Bcc: RB file & chron; S&T file & chron; DFH ~~chron~~; WH (2)

**March 3, 1965**

**Dear Mr. Fabrikant:**

**On behalf of the President, I am  
happy to respond to your telegram of  
March 1.**

**If you can provide me with details  
of your proposal, I shall be happy to see  
that they are carefully considered.**

**Sincerely yours,**

**(signed) Donald F. Hornig**

**Donald F. Hornig  
Special Assistant for  
Science and Technology**

**Mr. Sherwin Fabrikant  
1200 Avenue of the Americas  
New York, New York**

**RBarlow:jb:3-3-65  
Bcc: RB file and chron  
S&T file and chron  
DFH ~~chron~~**

**In reply to S&T Control #0312**



3 March 1965

Dear Mr. Phillips:

Thank you very much for your letter of February 22 which describes some of the work you have been doing in metal oxygen systems. I am afraid that I am a little remote from this field of science, and not in a position to advise you as to the directions which would be most useful.

I would suggest that the government agencies most interested in this area are: the Department of Defense, particularly the Advanced Research Projects Agency, of which Dr. Robert L. Sproull is the Director; the National Aeronautics and Space Administration, Mr. George C. Deutsch, Chief, Materials Research; and the Atomic Energy Commission, Dr. Donald K. Stevens, Division of Research.

I appreciate your letting us know of your work.

Sincerely,

(signed) Donald F. Hornig

Donald F. Hornig

Mr. Bert Phillips  
Tem-Pre Research, Inc.  
1526 William Street  
State College, Pennsylvania 16801

DZRobinson:hh  
S&T

S&T

~~DFH~~

DZR

DZR

March 9, 1965

Dear Dr. Blocker:

Thank you very much for your cordial letter of March 3 regarding the closing of the Galveston Public Health Service Hospital.

The decision to close seven of the twelve Public Health Service Hospitals was made independently of my office, and is not subject to reconsideration in our survey of the five hospitals which will remain. However, because affiliations with teaching and research institutions are so important to the maintenance of high quality care in Federal hospitals, it would be of great help for us to understand the experience you have had in setting up such an affiliation with the Galveston P. H. S. Hospital. I have asked Mr. J. Milo Anderson, who is serving as staff for a panel of distinguished citizens which I have assembled to review the entire Public Health Service Hospital situation, to contact you on this matter. I hope this will not prove to be an intrusion into your schedule.

Again, many thanks for your letter and your interest in this problem. I hope you will not hesitate to contact me as the Study progresses.

Yours sincerely,

(signed) Donald F. Hornig

Donald F. Hornig  
Director

Dr. T. G. Blocker, Jr.  
Executive Director and Dean  
The University of Texas--Medical Branch  
Galveston, Texas

PSB/emu Chron ✓  
DFH/Chron ✓  
S&T File PHS Hospitals  
S&T Chron  
cc: Mr. Anderson

March 3, 1965

Dear Jim:

Thanks for your letter of January 28th concerning your activities as a Consultant-at-Large to the Science Advisory Committee. I agree with you that there was not a very clear understanding of the level of activity that was expected of Consultants-at-Large and fully appreciate your point of view.

I hope that it will be possible for us to avail ourselves of your views and considerable experience on a number of topics of interest to the Committee, and will try to find ways to do this without burdening you with a heavy commitment to attend meetings of the PSAC or its panels. I trust that you will attend those meetings of the Committee where an agenda item is of substantial interest to you.

We are strengthening the PSAC organization by the designation of Herb York as Vice Chairman and the creation of a three-man program committee, chaired by Herb. Perhaps there will be opportunities for you to meet with this committee as well as with me from time to time.

With this in mind, we would like to continue your status as a Consultant-at-Large, if you are agreeable.

Sincerely yours,

(signed) Don

Donald F. Hornig  
Chairman

Dr. James B. Fisk  
President  
Bell Telephone Laboratories  
Murray Hill, New Jersey 07971

DBeckler;khb  
CC: DFH ✓

Mr. Beckler  
S&T File  
S&T Chron



March 1, 1965

MEMORANDUM FOR

Mr. Linsley

Thank you for your two memos on the water resources panel and the question of a replacement. I would like to get together as soon as possible to talk over the work of the panel and possible replacements. As you know, we have a PSAC Panel on Environmental Pollution. We will have to review with Dr. MacLeod the internal coordination problem that your memo lays bare.

Donald F. Hornig  
Director

March 3, 1965

Dear General Lemnitzer:

Thank you for your letter of February 15, inviting me to attend SHAPEX 75 and deliver an address on June 17th in Paris. I regret very much that it will not be possible for me to get away from Washington on the 17th due to a number of commitments I already have. I am very sorry that this is so, for I knew that I would enjoy the opportunity of visiting SACEUR headquarters and meeting the many distinguished participants in the conference.

I might note, however, that the subject you wish to have discussed at the conference, "Scientific and Technical Developments in the Military Field in the 1970's" is one which I believe could very appropriately be undertaken by Dr. Harold Brown, Director of Defense Research and Engineering. Additionally, Dr. Herbert York, Vice Chairman of the President's Science Advisory Committee and former Director of Defense R&E, Dr. Fred Seitz, President of the National Academy of Sciences, or Dr. Charles H. Townes, Provost of MIT and former President of the Institute for Defense Analyses, would be very good choices for a speaker on this subject.

Sincerely,

Donald F. Hornig  
Special Assistant for  
Science and Technology

q

General L. L. Lemnitzer, USA  
Supreme Allied Commander  
Europe  
Paris, France

DH:eac

Speech declines "L"

**March 3, 1965**

**Dear Herbt**

**I have been very favorably impressed by the Commerce Science and Technology Fellowship Program inaugurated under your auspices and am pleased to hear that it is progressing satisfactorily.**

**The Office of Science and Technology might be interested in participating in the next round in this program, to the extent of one Fellow. If you think this appropriate, may I suggest that your office be in contact with David Beckler or Robert Barlow on the OST staff to see if detailed arrangements can be worked out.**

**Sincerely,**

**(signed) Don**

**Donald F. Hornig  
Director**

**The Honorable J. Herbert Holloman  
The Assistant Secretary of Commerce  
Washington, D. C. 20230**

**RBarlow:jb:3-3-65  
Bcc: RB file and chron  
S&T file and chron  
DFH ~~chron~~**

**In reply to S&T Cont. No. 0107**



March 3, 1965

Dear Kent:

Thank you for your letter of February 17th. My schedule this spring is fast becoming terribly crowded. The only possible date for me would appear to be the afternoon of May 11.

Sincerely,

Donald F. Hornig  
Director

Dr. M. Kent Wilson  
Department of Chemistry  
Tufts University  
Medford, Massachusetts 02155

eac

tickle 5/11

The Federal Government needs the advice of persons who have been thinking about the problems of education. I hope that you will accept our invitation to join the Panel on Educational Research and Development.

Sincerely,

(signed) Donald F. Hornig

Donald F. Hornig  
Director

Enclosures

Dr. Andrew M. Gleason  
Department of Mathematics  
Harvard University  
Cambridge, Massachusetts 02138

March 2, 1963

Dear Dr. Gleason:

This is an invitation from Leland Haworth, Francis Keppel and myself, to join the Panel on Educational Research and Development, which reports to the three of us and is under the chairmanship of Jerrold Zacharias. Since its establishment late in 1961, the Panel has been concentrating on elementary and secondary education, but the Panel now plans to devote considerable time to higher education and is seeking to expand its membership accordingly.

The chief function of the Panel has been to identify research and development programs in education that might prove of major significance. Responsibility for accepting the Panel's advice rests with the agencies. An account of the Panel's work is offered in the enclosed report, Innovation and Experiment in Education. Also enclosed by way of background are the minutes of our most recent meeting, January 23-26, plus Appendices A, B, and C.

The present membership of the Panel is given on pages 61-62 of the report. The persons besides yourself that we are seeking to add to the Panel are: Charles Slichter, University of Illinois; Walter Stockmayer, Dartmouth; Colin Pittendrigh, Princeton; Jerome Wiesner, M. I. T.; and John Gardner, Carnegie Corporation. Drs. Wiesner and Gardner have already informally agreed to accept membership.

We would hope that you could come to the last meeting of the Panel for this academic year, May 24-25. Next academic year the Panel probably will hold five two-day meetings. The Office of Science and Technology is able to provide transportation, a per diem of \$16.00 a day for time spent away from home, and a consultant fee of \$75.00 a day for time spent at meetings.

JTurner/ekb

OST file - chron

JT file (Panel Membership) - chron

cc:Dr. Hornig (chron)



**The Federal Government needs the advice of persons who have been thinking about the problems of education. I hope that you will accept our invitation to join the Panel on Educational Research and Development.**

**Sincerely,**

**(signed) Don**

**Donald F. Hornig  
Director**

**Enclosures**

**Dr. Walter H. Stockmayer  
Department of Chemistry  
Dartmouth College  
Hanover, New Hampshire**

March 2, 1965

Dear Dr. Stockmayer:

This is an invitation from Leland Haworth, Francis Keppel and myself, to join the Panel on Educational Research and Development, which reports to the three of us and is under the chairmanship of Jerrold Zacharias. Since its establishment late in 1961, the Panel has been concentrating on elementary and secondary education, but the Panel now plans to devote considerable time to higher education and is seeking to expand its membership accordingly.

The chief function of the Panel has been to identify research and development programs in education that might prove of major significance. Responsibility for accepting the Panel's advice rests with the agencies. An account of the Panel's work is offered in the enclosed report, Innovation and Experiment in Education. Also enclosed by way of background are the minutes of our most recent meeting, January 25-26, plus Appendices A, B, and C.

The present membership of the Panel is given on pages 61-62 of the report. The persons besides yourself that we are seeking to add to the Panel are: Andrew Gleason, Harvard; Colin Pittendrigh, Princeton; Charles Slichter, University of Illinois; Jerome Wiesner, M. I. T.; and John Gardner, Carnegie Corporation. Drs. Wiesner and Gardner have already informally agreed to accept membership.

We would hope that you could come to the last meeting of the Panel for this academic year, May 24-25. Next academic year the Panel probably will hold five two-day meetings. The Office of Science and Technology is able to provide transportation, a per diem of \$16.00 a day for time spent away from home, and a consultant fee of \$75.00 a day for time spent at meetings.

JTurner/ekb

OST file - chron

JT file (Panel Membership) - chron

✓ cc: Dr. Hornig (chron file)



March 2, 1965

Dear Dr. Pittendrigh:

This is an invitation from Leland Hawerth, Francis Keppel and myself, to join the Panel on Educational Research and Development, which reports to the three of us and is under the chairmanship of Jerrold Zacharias. Since its establishment late in 1961, the Panel has been concentrating on elementary and secondary education, but the Panel now plans to devote considerable time to higher education and is seeking to expand its membership accordingly.

The chief function of the Panel has been to identify research and development programs in education that might prove of major significance. Responsibility for accepting the Panel's advice rests with the agencies. An account of the Panel's work is offered in the enclosed report, Innovation and Experiment in Education. Also enclosed by way of background are the minutes of our most recent meeting, January 25-26, plus Appendices A, B, and C.

The present membership of the Panel is given on pages 61-62 of the report. The persons besides yourself that we are seeking to add to the Panel are: Andrew Gleason, Harvard; Charles Slichter, University of Illinois; Walter Stockmayer, Dartmouth; Jerome Wiesner, M. I. T.; and John Gardner, Carnegie Corporation. Drs. Wiesner and Gardner have already informally agreed to accept membership.

We would hope that you could come to the last meeting of the Panel for this academic year, May 24-25. Next academic year the Panel probably will hold five two-day meetings. The Office of Science and Technology is able to provide transportation, a per diem of \$16.00 a day for time spent away from home, and a consultant fee of \$75.00 a day for time spent at meetings.

JTurner/ekb

OST file - chron

JT file (Panel Membership) - chron

cc:Dr. Hornig (chron file)



The Federal Government needs the advice of persons who have been thinking about the problems of education. I hope that you will accept our invitation to join the Panel on Educational Research and Development.

Sincerely,

(signed) Don

Donald F. Hornig  
Director

Enclosures

Dr. Colin S. Pittendrigh  
Department of Biology  
Princeton University  
Princeton, New Jersey

20306

March 2, 1965

Dear Dr. Slichter:

This is an invitation from Leland Haworth, Francis Keppel and myself, to join the Panel on Educational Research and Development, which reports to the three of us and is under the chairmanship of Jerrold Zacharias. Since its establishment late in 1961, the Panel has been concentrating on elementary and secondary education, but the Panel now plans to devote considerable time to higher education and is seeking to expand its membership accordingly.

The chief function of the Panel has been to identify research and development programs in education that might prove of major significance. Responsibility for accepting the Panel's advice rests with the agencies. In connection with your attendance at the January 25-26 meeting of the Panel, which I hope you enjoyed, you already have a copy of the report, Innovation and Experiment in Education, which describes some of the Panel's activities.

The present membership of the Panel is given on pages 61-62 of the report. The persons besides yourself that we are seeking to add to the Panel are: Andrew Gleason, Harvard; Walter Steckmayer, Dartmouth; Colin Pittendrigh, Princeton; Jerome Wiesner, M. I. T., and John Gardner, Carnegie Corporation. Drs. Wiesner and Gardner have already informally agreed to accept membership.

We would hope that you could come to the last meeting of the Panel for this academic year, May 24-25. Next academic year the Panel probably will hold five two-day meetings. The Office of Science and Technology is able to provide transportation, a per diem of \$16.00 a day for time spent away from home, and a consultant fee of \$75.00 a day for time spent at meetings.

JTurner/ekb

OST file - chron

JT file (Panel Membership) - chron

✓ cc:Dr. Hornig (chron)

**The Federal Government needs the advice of persons who have been thinking about the problems of education. I hope that you will accept our invitation to join the Panel on Educational Research and Development.**

**Sincerely,**

**(signed) Don**

**Donald F. Hornig  
Director**

**Dr. Charles P. Slichter  
Department of Physics  
The University of Illinois  
Urbana, Illinois**



20506

March 2, 1965

Dear Jerry:

This is an invitation from Lee Haworth, Frank Keppel and myself to join the Panel on Educational Research and Development. Having established the Panel in 1961, you are now being asked to join it. This is a new kind of feedback called retribution.

The Panel has been concentrating on elementary and secondary education, but now plans to devote considerable time to higher education. Accordingly, the membership is being expanded. The persons besides yourself that we are seeking to add to the Panel are: Walter Stockmayer, Dartmouth; Colin Pittendrigh, Princeton; Charles Elichter, University of Illinois; Andrew Gleason, Harvard. John Gardner has agreed to accept membership.

Enclosed are the minutes of our most recent meeting, January 23-26, plus Appendices A, B, and C.

We would hope that you could come to the last meeting of the Panel for this academic year, May 24-25. Next academic year the Panel probably will hold five two-day meetings.

Sincerely,

(signed) Don

Donald F. Hornig  
Director

Enclosure

Dr. Jerome B. Wiesner  
Dean of Science  
Massachusetts Institute of Technology  
Cambridge, Massachusetts

JTurner/ekb  
OST file - chron  
✓ JT file (Panel Membership) - chron  
cc:Dr. Hornig (chron)

March 2, 1965  
~~February 25, 1965~~

Dear Mr. President:

I am very happy to transmit to the Congress my oceanographic program for fiscal year 1966.

For tens of thousands of years--ever since man has possessed the power to sense and reason--he has been aware of the seas around him. This awareness has varied from disdain to superstition, as man alternately sailed and fished the sea on the one hand, and worshipped it on the other.

But never until recently did man seek great understanding of the oceans, because he saw little necessity. There was always a new frontier, an unexplored land, unexploited territory.

Now our view of the seas has had to undergo a drastic change. We have always considered them as barriers to invasion; we now must see them as links, not only between peoples, but to a vast new untapped resource.

It is becoming increasingly clear that there are large mineral deposits under the oceans. But before this treasure becomes useful we must first locate it and develop the technology to recover it economically. We must also learn much more about marine biology if we are to tap the great potential food resources of the seas.

*Original retyped*



*research*  
 Our oceanographic fleet is now the finest and best equipped in the world. Since the turn of the decade, our nation has been engaged in a program of building for oceanic development. We have designed and constructed the first new ships for oceanography, which, together with our conversions, have added 42 hulls, more than doubling the fleet size.

We have added several new laboratories and supporting activities, fitted out with modern instrumentation. Classrooms in over fifty colleges and universities throughout our land are occupied by over triple their former numbers of students--who in a real sense represent our greatest resource of all.

The challenge now is to expand our utilization of these resources. Our ship construction program is nearly complete so that although the Federal budget of \$141 million in oceanography is only 2% greater than requested last year, it includes a significantly greater proportion for research and oceanic surveys than in previous years. I believe that the total amount is an absolute minimum if our nation is to use its capabilities well and to progress toward its objectives in oceanography.

We are looking forward to a period where our investment in ocean research may bear fruit in terms of faster and more comfortable transportation, more highly developed exploitation of our marine mineral and fisheries resources, increased pollution control, more accurate prediction of storms and tides that endanger life and property, and the strengthening of our national defense.

I especially invite your attention to the manner in which the individual Federal agencies' programs have been blended toward the attainment of common goals. I consider this coordination, achieved under the guidance of the Federal Council for Science and Technology, to be essential if we are to exploit the seas in an effective manner.



However, it is just as essential that the Congress view this program as a unified thrust seaward. I therefore urgently recommend that when the various committees of the Congress review their portions of this program they keep its entirety in mind. We will all thus be enabled to see, together, that this important aspect of our national interest proceeds toward fulfillment.

Sincerely yours,

Honorable Hubert H. Humphrey  
President of the Senate  
Washington, D. C.

Enclosure

LBJ;DFH;CVK/jan

cc: President's File  
White House Files (2)  
Dr. Hornig, R. 200, EOB  
DFH Chron.  
S&T File & Chron.  
CVK File & Chron.

March 2, 1965  
~~February 25, 1965~~

Dear Mr. Speaker:

I am very happy to transmit to the Congress my oceanographic program for fiscal year 1966.

For tens of thousands of years -- ever since man has possessed the power to sense and reason -- he has been aware of the seas around him. This awareness has varied from disdain to superstition, as man alternately sailed and fished the sea on the one hand, and worshipped it on the other.

But never until recently did man seek great understanding of the oceans, because he saw little necessity. There was always a new frontier, an unexplored land, unexploited territory.

Now our view of the seas has had to undergo a drastic change. We have always considered them as barriers to invasion; we now must see them as links, not only between peoples, but to a vast new untapped resource.

It is becoming increasingly clear that there are large mineral deposits under the oceans. But before this treasure becomes useful we must first locate it and develop the technology to recover it economically. We must also learn much more about marine biology if we are to tap the great potential food resources of the seas.

Our oceanographic <sup>research</sup> fleet is now the finest and best equipped in the world. Since the turn of the decade, our nation has been engaged in a program of building for oceanic development. We have designed and

Original retyped



constructed the first new ships for oceanography, which together with our conversions, have added 42 hulls, more than doubling the fleet size.

We have added several new laboratories and supporting activities, fitted out with modern instrumentation. Classrooms in over fifty colleges and universities throughout our land are occupied by over triple their former numbers of students -- who in a real sense represent our greatest resource of all.

The challenge now is to expand our utilization of these resources. Our ship construction program is nearly complete so that although the Federal budget of \$141 million in oceanography is only 2% greater than requested last year, it includes a significantly greater proportion for research and oceanic surveys than in previous years. I believe that the total amount is an absolute minimum if our nation is to use its capabilities well and to progress toward its objectives in oceanography.

We are looking forward to a period where our investment in ocean research may bear fruit in terms of faster and more comfortable transportation, more highly developed exploitation of our marine mineral and fisheries resources, increased pollution control, more accurate prediction of storms and tides that endanger life and property, and the strengthening of our national defense.

I especially invite your attention to the manner in which the individual Federal agencies' programs have been blended toward the attainment of common goals. I consider this coordination, achieved under the guidance of the Federal Council for Science and Technology, to be essential if we are to exploit the seas in an effective manner.



However, it is just as essential that the Congress view this program as a unified thrust seaward. I therefore urgently recommend that when the various committees of the Congress review their portions of this program they keep its entirety in mind. We will all thus be enabled to see, together, that this important aspect of our national interest proceeds toward fulfillment.

Sincerely yours,

Honorable John W. McCormack  
Speaker of the House of Representatives  
Washington, D. C.

Enclosure

Identical letter to : Honorable Hubert H. Humphrey  
President of the Senate  
Washington, D. C.

LBJ:DFH:CVK/jsn  
cc: President's File  
White House Files (2)  
Mr. Reedy  
DFH chron ✓  
S&T file & chron  
CVK file & chron

March 2, 1965

Dear Mr. Godfrey:

Thank you for sending me a copy of your article. Your reference to me on page one after the paragraph beginning "Mistakes in selection. . ." is correct. Of course, I in no way implied that the problems would have been aided by public discussion and, indeed, much of the public discussion that did occur intended to obscure rather than clarify the fundamental issues. Neither would I like to see it implied that I confirm the judgments of the AAAS Committee on "The Integrity of Science" with which I strongly disagree.

On page three, beginning "Presidential science adviser. . .", the second paragraph should be enclosed in quotes.

I shall look forward to seeing the completed article.

Sincerely yours,

Donald F. Hornig  
Special Assistant for  
Science and Technology

Mr. Ned Godfrey  
Information Officer  
American Association for the  
Advancement of Science  
1515 Massachusetts Avenue, N. W.  
Washington, D. C.

DFH/eac

**March 1, 1965**

**Dear Mr. Hyde:**

**This is in response to your request of February 1, 1965, for our comments on a draft bill proposed by the Department of Agriculture to "Amend Section 301 of Title III of the Act of August 14, 1946, relating to the establishment by the Secretary of Agriculture of a national advisory committee, to provide for annual meetings of such committee."**

**We have no objection to the proposed change of required meeting dates, which would bring the committee's schedule more into line with the current nature of its responsibilities.**

**Sincerely,**

**(signed) Donald F. Hornig**

**Donald F. Hornig  
Director**

**Mr. James F. C. Hyde, Jr.  
Assistant Chief  
Office of Legislative Reference  
Room 262  
Bureau of the Budget**

**SSR/wb**

**cc: S&T file & chron  
SRR file & chron**

**DFH chron In reply to S&T Control No. 0178**



March 1, 1965

Dear Dr. Lefschetz:

Thank you for your letter of February 9 concerning Professor Ralph H. Fox. I am glad to hear of his interest in a possible visit to the Soviet Union and of his qualifications of which you speak so highly.

I am sending a copy of your letter to Dr. Lawrence C. Mitchell at the National Academy of Sciences who is responsible for arrangements with the Soviet Academy of Sciences for exchange visits. I also think it would be advisable for you to write directly to Dr. Mitchell at the Office of the Foreign Secretary, USSR and Eastern European Affairs, National Academy of Sciences, AAUW Building, 2401 Virginia Avenue, N. W., Washington, D. C. 20415. I am sure that he will be as helpful as he possibly can if the proposal falls within the terms of the U.S. /Soviet Exchanges Agreement and if arrangements can be made which conform to Professor Fox's schedule.

Sincerely,

(signed) Donald F. Hornig

Donald F. Hornig  
Special Assistant for  
Science and Technology

cc: Dr. Mitchell, NAS

Dr. S. Lefschetz  
Department of Mathematics  
Princeton University  
Fine Hall, Box 706  
Princeton, New Jersey 08540

IMTobin:gpw  
cc: S&T Files  
S&T Chron  
DFH Chron ✓  
IMT Chron

*Tobin*

723  
PRINCETON UNIVERSITY

PRINCETON, NEW JERSEY

Department of  
MATHEMATICS

Address reply to  
FINE HALL  
BOX 708  
PRINCETON, N.J.

February 9, 1964

Dear Dr. Hornig:

This letter concerns Professor Ralph H. Fox whom I discussed with you yesterday.

Fox has been planning for a long time to use his next sabbatical leave (1965-66) to spend a year in Japan. He has specialized for a considerable time in things Japanese, speaks the language, and likes the country in every way.

Since he mentioned to me his plan, I strongly urged him to either start or terminate his trip through the Soviet Union and spend some weeks there. What I would like to secure for him is a Professorship under the exchange agreement of the National Academy with the Academy of Sciences of the U.S.S.R. and this is what I am writing to you about. Fox's speciality, theory of knots and discrete groups, is followed neither in Japan nor in the Soviet Union. Therefore he would bring to both countries a signal contribution through a stay in one or the other. He has obtained sufficient funds for the Japanese part of his trip and therefore this is no concern of us here.

Let me say a few words regarding Fox. He has spent practically his whole academic career (something like thirty years) as a member of our Department of Mathematics here. I have known him for all these years and have held him in the highest personal regard, both as a human being and as a scientist. In fact I have proposed him for membership in the National Academy for two successive years. The difficulty is the extreme scientific modesty of Fox and the impossibility of obtaining any cooperation from him in advancing his cause. These are fine traits of character, but not helpful when it comes to election to the Academy. His scientific work is nevertheless first rate - he has written relatively little but all of it is very high grade. The theories on which he works are notoriously difficult - so difficult that few endeavor to pursue them. But he has had all the necessary courage. At the present time I rate him as the outstanding authority in the two related subjects. Another important quality of Fox is his capacity to inspire and attract young men. Suffice to say that the top mathematician of our Department, John W. Milnor, was his student. This is sufficient to indicate how valuable his stay in the Soviet Union would be - if only for a few weeks.

The most satisfactory plan for Fox would be to go to Japan in early July and return by way of the U.S.S.R. - Siberia in the Fall of 1966. This might include stops at Novosibirsk, Moscow, Leningrad, possibly also Kiev. He mentioned also stopping off in Warsaw where the interest in his work might be maximum. This trip could be carried out between early September and mid-October.

XEROX FROM QUICK COPY

Dr. Donald Hornig

2/9/65

Page 2

I would appreciate anything that you might do to help him arrange this plan of an Exchange Professorship with the Academy of Sciences of the U.S.S.R.

Sincerely, yours,



S. Lefschetz

Dr. Donald Hornig  
Scientific Advisor to the President  
The White House  
Washington, D. C.

8

XEROX FROM QUICK COPY



20506

March 1, 1965

Dear John:

Thanks for your note of January 30. I have been delinquent in replying, but not because of lack of appreciation for what you did in Washington. I will miss you, but I understand the reasons that lead a person to return to academic life.

You had perhaps the most complex job of any of the people who have to deal with science at the top of a department, both as far as relationships within the department are concerned, and relations with the Executive Office. You did a fine job, and I enjoyed the association with you. I am glad that you are willing to spare the time to help us with the Environmental Pollution Panel, and we will undoubtedly be calling upon you for other tasks in the near future.

With best personal regards,

Sincerely yours,

(signed) Don

Donald F. Hornig  
Director

Dr. John G. Calhoun, Jr.  
Vice Chancellor for Programs  
Texas A&M University System  
College Station, Texas

CVKidd:jsn

cc: DFH chron ✓  
S&T file & chron  
CVK file & chron  
Dr. Buckley

20506

March 1, 1965

Dear Mr. Chairman:

This will acknowledge your letter of February 24 requesting comments on S. 949, introduced by Senator Byrd, et al, and S. 1091, introduced by Senator Bartlett, et al.

These proposed measures are under study, and you will receive our comments in the near future.

Sincerely yours,

(signed) Donald F. Hornig

Donald F. Hornig  
Director

Honorable Warren G. Magnuson  
Chairman  
Committee on Commerce  
United States Senate  
Washington, D. C.

CVKidd:jan  
cc: White House Files (2)  
Jean Lewis  
Mr. Rivkin  
DFH chron  
CVK file & chron  
S&T file & chron

S&T Cont; No. 0286

March 1, 1965

Dear Mr. Thomas:

In the course of my appearance before your Subcommittee on February 4, Mr. Jones inquired about the number of consultants to this Office who also serve as consultants to other agencies of the Federal Government.

Of the 311 non-Governmental OST consultants, 80 serve no other Federal agency, and the remaining 231 serve at least one and sometimes several. The other Federal agencies, and the number of OST consultants serving each one, are listed on the attached sheet.

I will be glad to supply additional details if you wish.

Sincerely,

(signed) Donald F. Hornig

Donald F. Hornig  
Director

Attachment

The Honorable Albert Thomas  
Chairman  
Subcommittee on Independent Offices  
Committee on Appropriations  
U. S. House of Representatives  
Washington, D. C.

RBarlow/jb:2-25/6-65

Bcc: RB file and chron / S&T file & chron / DPH chron / MLC



March 1, 1963

MEMORANDUM FOR

Kermit Gordon

In view of the present need to establish a consensus among the Executive agencies on the position that should be supported before Congress on the SNAP 8 and SNAP 50 programs, I would like to summarize my own views about how this position might be presented. Although the concepts of the discussion below are applicable to technology programs in general, they are here oriented specifically to the SNAP 8 and SNAP 50 programs.

I believe that we should recognize first that SNAP 8 and SNAP 50 must be considered as competing with other systems of nearly equal potential. For example, we are carrying forward with AEC funds the development of a compact Mercury-Rankine cycle Combined Rotating Unit (CRU) to produce 3-5 Kw. It has been suggested that it would be possible to combine four or five of these units with a SNAP 8 reactor to produce perhaps 20 Kw. Another possibility would be to use a thermoelectric power conversion system with a SNAP 8 reactor to get 10 and perhaps 15 Kw. Although these would produce somewhat less power than SNAP 8, some believe both of these alternatives might offer advantages in inherent reliability and could be available for missions in the same general time frame as the SNAP 8 power conversion system. SNAP 50 on the other hand has potential competition from thermionic conversion systems and boiling potassium systems. Although thermionic systems are somewhat less technologically advanced than the SNAP 50 conversion system, they offer the possibility of greater inherent system reliability, and for potential missions as far in the future as the 1980's, we must carry these concepts along as competitors.

As a preface to discussing the rationale behind the revised objectives for the SNAP 8 and SNAP 50 programs, it may be useful to state the justification for their existence and the objective of the programs.



We justify the expenditure of funds on the SNAP 8 concept on our belief that there exists a class of future missions which will require nuclear power sources in the range of tens of kilowatts, and for which SNAP 8 represents a reasonably likely competitor to the other possible systems. We believe SNAP 50 is justified by the reasonable probability that future space missions will require power systems in the range of hundreds of kilowatts to perhaps megawatts with very low specific weights. In addition, the SNAP 50 reactor itself represents a long step forward into high temperature reactor technology which may have potential applications beyond the space program. Our goal in both programs is to solve the basic technical problems and to develop and demonstrate the reliability of components and systems sufficiently well so that they are available to a future spacecraft system designer. By available I mean that he can predict the performance of the power system with sufficient confidence to develop it further to meet his own particular configuration and power requirements, knowing that this development will not increase the risk or the schedule of his overall development program.

In planning a technology program to meet this goal, we can consider limiting the development to any one of a number of levels of increasing complexity and cost. We can, for example, develop and demonstrate only the more critical components (such as the turbine-generator for SNAP 8 and 50) or of the separate subsystems (such as the complete power conversion system and the reactor system) or, possibly, of the integrated reactor-power conversion system. Of course, as we proceed from one level of development to another we gain an additional increment of technical knowledge and at the same time incur additional costs; and for every program we must make a judgment as to whether the additional information to be gained is worth the additional costs incurred.

In general, the justification for going to the higher levels of development is strong when a potential mission of well defined performance requirements is imminent, and when there are no other power systems in sight with the potential for meeting these requirements. On the other hand, when missions are not well defined or imminent the situation is different. Then the development and test of a fully integrated system may be quite wasteful since the system may or may not meet the mission requirements when they develop. In this situation our objective should



be to carry the development of each candidate system to the point where an optimum choice can be made at a later time, and to maintain the technology at a level where the additional development needed to meet specific requirements will not be a pacing item in a future mission system development.

For example, it is not unreasonable to suppose that the first mission to come along, for which SNAP 8 might be a candidate, could require somewhat more than 35 kilowatts of power. If we had conducted extensive integrated tests of a system capable of 35 Kw (and if for this example we would suppose that the SNAP 8 reactor could operate at a higher level), we would probably have to conduct these tests again at the new power level and in the configuration required by the mission. And these latter tests at the higher power could have proceeded almost as readily if the precursor tests had been conducted on the reactor system and the power conversion system as separate units. Alternatively, the first potential mission might only require 10 or 20 Kw. In that case, even though we had completed extensive tests on the SNAP 8 system, we might prefer to take advantage of the inherent simplicity of the thermoelectric systems. Indeed it is possible that even though the optimum power level of the mission system were 35 Kw the system developer might prefer to compromise this requirement to obtain the reliability of thermoelectrics.

In the case of SNAP 8, the characteristics of potential missions are uncertain, both from the standpoint of their performance requirements and their timing. The TV broadcast satellite, which some have suggested as the most likely mission requirement for SNAP 8, has not been sufficiently well defined to determine what its optimum power level might be when tradeoffs between the power levels of the satellite and of the ground stations, the area coverage and the inherent reliability of alternate power systems have been considered in detail. Furthermore, in the context of the long range plans for NASA programs it does not seem likely that the development of such a satellite would be initiated before the early 1970's.

The manned orbiting vehicles which are now being considered do not seem to require powers for which nuclear reactors would offer sufficient advantages, and the very large manned orbiting vehicles will certainly not come up for consideration before the mid 70's or



later. At the same time other candidate power systems, such as thermoelectric systems or multiple CRU's in combination with the SNAP 8 reactor mentioned above, also have the potential of meeting power requirements in the tens of kilowatts range.

Therefore, in view of these factors, we do not believe the additional information that could be gained by coupling the reactor to the SNAP 8 power conversion system would be sufficient to justify the costs of such tests. It appears that component reliability, corrosion, mass transfer, wear, leak tightness and most of the general system interaction problems can be investigated by 10,000 hour life tests of a power conversion system with a reactor being simulated by a non-nuclear heat source.

We believe that if we complete 10,000 hours of testing on the SNAP 8 power conversion system and solve the problems attendant thereto, we will have brought that technology to a reasonably well advanced point; a point at which the technology has been demonstrated and can be picked up again whenever a mission is defined, and which, at the same time, is in balance with the support that is concurrently being given to competitive conversion systems. In parallel with these power conversion system tests, the development of the SNAP 8 reactor is also being continued.

Similar reasoning can be applied to the proposed SNAP 50 program. At the present time the power level requirements that might be placed on a SNAP 50 system by possible future missions are extremely uncertain. In addition, thermionic conversion systems offer a high performance potential to missions in the long range future. Therefore, until the requirements demanded by future missions are better defined, and until we have a better basis for choosing between competitive systems, we believe that the goal of our technology program should be limited to the separate development and demonstration of the reactor system and power conversion system.

For both the SNAP 8 and SNAP 50 programs we must accept the possibility that when we have successfully completed the development of the reactors and the power conversion systems as separate systems, we may still have no better information than we have now about how such

systems might be used. We may, therefore, be forced to consider these technology developments complete and "on the shelf" until a mission comes along. On the other hand, it is also possible that potential mission requirements may become clearer and the competitive technologies appear less feasible. If so, we may then decide to initiate development and test of an integrated nuclear system at the power level and with the configuration that the potential mission dictates.

(signed) Donald F. Hornig

Donald F. Hornig  
Director

CC: Mr. Shapley, BOB

DFH Chron  
~~DHS Chron~~  
DHS Subj  
S&T Chron  
S&T Subj

DHS:DFH:hk

March 1, 1965

X

DONALD F. HORNIG

ACADEMICIAN ILIE MURGULESCU  
PRESIDENT, RUMANIAN ACADEMY OF SCIENCES  
BUCHAREST, RUMANIA

I AM DEEPLY HONORED BY ELECTION AS AN  
HONORARY MEMBER OF THE RUMANIAN ACADEMY  
OF SCIENCES. THANK YOU FOR YOUR GOOD WISHES.

eac



March 1, 1965

MEMORANDUM FOR

Honorable Anthony J. Celebrezze  
Secretary of Health, Education and Welfare

You will remember that on December 29th, after my discussion with the President at the Ranch, I came to see you about the Environmental Health Research Center and the Taft Laboratory in Cincinnati. You may remember that there was some difference between the views of my office and the PHS paper as to the organization and function of those laboratories. The President did not want any commitments made as to their structure and function until we had resolved the questions between us. In our conversation we agreed that in the interval between then and the time when Congressional hearings were held, we would work together to clear up the questions. Meanwhile, Dr. MacLeod has met with Dr. Terry and Dr. Price to discuss the next steps.

I am glad to know that the Advisory Committee appointed by Dr. Terry held its first meeting on February 26th to review the merits of the suggestion that the Environmental Health Sciences Center to be built in North Carolina be operated under a contract arrangement (with a university or universities or an industrial firm, for example) as compared to direct operation by the Public Health Service. This will result in a clearer delineation of the role of the North Carolina Laboratory, in relation to the whole mission of the Public Health Service in environmental health.

The Panel on Environmental Pollution of PSAC has also raised questions about the organization and management of the Taft Center and associated activities in environmental health in Cincinnati. The Panel is of the opinion that central scientific direction, unified budgeting and single administration at the Robert A. Taft Center would have clear advantages over the present fragmented administrative practices.

The pending legislation on water pollution will no doubt further affect the plans for the Taft Center. We should appreciate learning your plans for organization and operation of the Taft and other Cincinnati facilities if the Water Pollution Control Administration is created.

I am very pleased by your thoughts about the necessity of building further the scientific strength of PHS as an important ingredient in the new responsibilities it is acquiring. I hope we can manage to move further in that direction.

(signed) Donald F. Hornig

Donald F. Hornig  
Special Assistant for  
Science and Technology

CMM:mts

cc: Dr. Hornig chron ✓  
CMM subj. and chron  
Dr. Buckley  
S&T file and chron





20506

February 27, 1965

Dear Mr. Chairman:

This will acknowledge your letter of February 23, requesting comments on H. R. 5173, providing for a study of the legal problems of management, use, and control of the natural resources of the oceans and ocean beds. This matter is under study and you will be receiving a report in the near future.

Sincerely yours,

(signed) Donald F. Hornig

Donald F. Hornig  
Director

Honorable Herbert C. Bonner  
Chairman, Committee on Merchant  
Marine and Fisheries  
House of Representatives  
Washington, D. C.

CVKidd:jn

cc: White House Files (2)

Jean Lewis

DFH chron

SET file & chron

CVK file & chron

S&T Cont. No. 0277

February 25, 1965

Dear Mr. Masan:

Naturally I was very pleased to be made an honorary member of the Executive Office of the President Toastmasters Club. My luncheon schedule tends to be rather committed, but I will much enjoy visiting with you from time to time. I think the purposes of the Club are worthy and ought to be pleasant as well.

Sincerely,

Donald F. Hornig  
Director

Mr. Walter L. Masan  
President, Executive Office of the  
President Toastmasters Club  
Office of Emergency Planning  
Washington, D. C.

DFH/eac

February 24, 1965

MEMORANDUM FOR

THE PRESIDENT

I have received the attached cable from the President of the Rumanian Academy of Sciences stating that I have been elected an honorary member. Before replying, I should like to know your wishes.

This is basically a scientific and professional honor, and it is customary for the American as well as European academies to elect honorary foreign members. The other American elected in this case was Dr. Frederick Seitz, President of the National Academy of Sciences.

I have discussed this with Ambassador Thompson and have been advised that the State Department has no objection to my accepting. My own view is that I am clearly qualified for membership, but that there are plainly political overtones involved. I think, though, that they are healthy ones and that I should accept. If this causes you any problems, I would be glad to discuss it with you. I should send some sort of acknowledgment very shortly.

Donald F. Hornig

Attachment

DFH/eac

*Approved by  
President  
2/26/65*



20506

24 February 1965

Dear Lick:

I deeply appreciate your serving as Chairman of the OST Ad Hoc Panel on Scientific and Technical Communication. Such panels constitute one of the vital mechanisms this office has for obtaining the considered judgments of the Nation's experts on the most pressing and difficult problems in science and technology facing the President.

I have read your letter report and am pleased with its insight into this most serious problem. It will provide us with new guidelines on how to improve the government's role in scientific and technical communication. I will be in touch with you again about specific issues.

Please accept my sincere thanks for the leadership you have given this Panel.

Sincerely,

(Signed) Don

Donald F. Hornig  
Director

Dr. J. C. R. Licklider  
IBM, Thomas J. Watson Research  
Center, 14-146  
P. O. Box 218  
Yorktown Heights, New York 10598

JHK:las  
OST file-chron  
JHK file-chron  
D. F. Hornig  
M. L. Chatrnuck

20506

24 February 1968

Dear Bill:

I deeply appreciate your serving as a member of the OST Ad Hoc Panel on Scientific and Technical Communication. Such panels constitute one of the vital mechanisms of this office for obtaining the considered judgments of the Nation's experts on the most pressing and difficult problems in science and technology facing the President.

I have read the Panel's letter report and am pleased with its insight into this most serious problem. It will provide us with new guidelines on how to improve the government's role in scientific and technical communication.

Please accept my sincere thanks for your efforts on behalf of the Panel.

Sincerely,

(Signed) Don

Donald F. Hornig  
Director

Dr. William Baker  
Vice President (Research)  
Bell Telephone Laboratories, Inc.  
Murray Hill, New Jersey

JHK:las; D. F. Hornig; M. L. Chatrnuck; OST file-chron; JHK file-chron  
IDENTICAL LETTER TO EACH PANEL MEMBER:

Dr. Alexander Bavelas (Bavelas)	Dr. R. Keith Cannan (Cannan)
Mr. A. Lee Barrett (Barrett)	Dr. C. West Churchman (Churchman)
Dr. Verner Clapp (Clapp)	Dr. Walter M. Elsasser (Elsasser)
Dr. Frederick Mosteller (Mosteller)	Dr. Sidney Passman (Passman)
Dr. Alvin M. Weinberg (Alvin)	

**February 24, 1965**

**Dear Chalk:**

**I was very sorry that we weren't able to get together on February 12th. I understand your plane wasn't able to land because of the weather.**

**I have written officially to Admiral Clarey to express my appreciation and that of Dr. Garvin for the Navy's very fine treatment of us on our recent trip to Hawaii, but I wanted to thank you personally for your own efforts on our behalf. I only wish we had had more time to spend there, not only for the ASW operations but to enjoy the Islands. I must say Washington looked pretty drab in comparison when I returned.**

**I hope we will have an opportunity for a longer visit together sometime soon.**

**With best regards,**

**Sincerely,**

**(signed) Don**

**Donald F. Hornig  
Special Assistant for  
Science and Technology**

**Vice Admiral John T. Hayward, USN  
Commander, Antisubmarine Warfare Force  
Pacific**

**Fleet Post Office  
San Francisco, Calif.**

**eac**

**DFH Chron. DFH Files, S&T Chron. S&T Files**



February 24, 1965

Dear Admiral Clarey:

I would like to express my great appreciation to you for the many courtesies extended to me by the Navy on my recent trip to Hawaii. I very much enjoyed meeting you, Admiral Flukey and all of the Navy personnel involved in the visit.

Both Dr. Garwin and I were much impressed with what we saw of our ASW operations in the Pacific and with the obvious competence and dedication of the personnel engaged in the activities. We were most grateful to Commander R. T. Styer and the crew of the PLUNKER for their helpfulness and many kindnesses while we were on board. We would especially like to commend Commander J. A. Davis of the COMSUBPAC staff and Commander F. M. Adams of the USS SWORDFISH for their very fine presentations.

Dr. Garwin and I feel the trip was most valuable in enabling us to obtain a first-hand look at the many problems involved in ASW operations, and we have come away with a deep respect for the Navy's efforts in this field. We both hope some day for a return visit.

Sincerely,

(signed) Donald F. Hornig

Donald F. Hornig  
Special Assistant for  
Science and Technology

Vice Admiral B. A. Clarey, USN  
The Deputy Commander in Chief  
United States Pacific Fleet  
Fleet Post Office  
San Francisco, California

eac

DFH Chron., S&T Files, S&T Chron. DFH Files (Hawaiian trip)

(PSAC stationery)

February 23, 1965

Dear Al:

I should like to extend to you and to all members of your panel my congratulations and warmest thanks for the speedy and excellent job you did in your study of Scientific and Technical Manpower in the Government Service. I particularly appreciated the stimulating discussion of the laboratory organization problem at PSAC. The interim report which resulted from your study is a thoughtful and incisive document which has already been a very useful stimulant to the thinking of PSAC and presumably also to Harold Brown and his staff.

As you know, I do not believe it would be appropriate to act formally on the report and to transmit it beyond the PSAC-OST confines until Manny Piere's panel has had an opportunity to report. The logic of the questions which confronted your panel carried your study directly into the subject matter which Manny has also been asked to consider. Although I know that Manny's panel is in substantial agreement with the views of your group, it seems impossible to me to issue two reports a few months apart which might differ in significant ways in their recommended solutions to the same problems.

This in no way detracts from the quality of the work you have done, which I consider to be first-rate. There may well be additional questions to which your group might usefully address itself, and in that case I hope that I can retain the option to call on you.

Sincerely yours,

(signed) Don

Donald F. Hornig  
Chairman

Dr. Albert G. Hill  
Massachusetts Institute of Technology  
Cambridge, Massachusetts

RBarlow:jb:2-19-65  
Bcc: RB file and chron  
S&T file and chron  
DFH ~~chron~~

February 23, 1965

Dear Mr. Moulton:

Your letter of 11 February came as somewhat of a surprise to me since I was quite unaware of having accepted an invitation to the Shock Tube Symposium. It is naturally a topic in which I am very much interested, but my present duties make it hard to guarantee my personal participation. Presumably the answer to this problem is that my former colleague, Dr. Modica, may have accepted and proposed to give a paper based on his work with me. If that is the case, I am very pleased.

Sincerely yours,

Donald F. Hornig  
Special Assistant for  
Science and Technology

Mr. J. F. Moulton, Jr.  
U. S. Naval Ordnance Laboratory  
White Oak  
Silver Spring, Maryland 20910

DFH/eac



February 23, 1965

MEMORANDUM FOR

Mr. John W. Macy, Jr.  
The White House

SUBJECT: Presidential Awards

I understand that you have been taking a look at the whole complex of awards in which the President is directly involved, or in which his involvement is sought. Others who apparently have a strong interest in this subject include Fred Holborn, Kermit Gordon, and General Clifton.

So far as awards related to science are concerned, I believe it would be useful to have a clearer-cut rationale for Presidential participation than we have now. May I suggest a discussion meeting of all of those concerned to see whether some criteria and guidelines can be established.

(Signed) \_\_\_\_\_

Donald F. Hornig  
Special Assistant for  
Science and Technology

RBBarlow:jbr2-23-65

Bcc: RB file and chron

S&T file and chron

DFH ~~ch~~ on

DZB

RB (w/backup material)

EXECUTIVE OFFICE OF THE PRESIDENT  
OFFICE OF SCIENCE AND TECHNOLOGY

February 23, 1965

MEMORANDUM FOR OST STAFF

SUBJECT: STAFF TRAVEL

It is very hard to make any general rules about staff travel, but occasionally so many people are away that the Office is seriously short-handed. For this reason I would like to know of all travel plans well in advance. In general, travel for specific office business can be undertaken without advance approval. However, travel to other scientific and technical meetings ought to be checked out with Dr. MacLeod or me in advance. We are, of course, anxious to maintain and develop the professional stature of the members of the office. For this purpose I would encourage every member of the staff to attend at least one professional meeting a year. However, when the frequency of travel increases too much, it does raise problems.

In particular, I would like to request that no foreign travel at OST expense be undertaken without explicit approval from either Dr. MacLeod or myself.

In addition, it would be appreciated if you would advise the Administrative Office of anticipated travel before it is undertaken so that we may keep a check on the amount of travel money being obligated.

Donald F. Hornig  
Director

**February 23, 1965**

**MEMORANDUM FOR**

**Mr. J. F. C. Hyde, Jr., Assistant Chief of  
Legislative Reference, Bureau of the Budget**

**SUBJECT: Comments on S. 1019 and Interior Views on  
H. R. 4671**

This bill is very similar to S. 1658 of last session and the comments in my memorandum of December 9 are generally relevant. S. 1019 is an improvement over S. 1658 in its recognition that the 7,500,000 acre-feet allotted to the Lower Basin by the Colorado River Compact cannot be delivered from the natural flow of the stream. It does, however, undertake to guarantee to the Lower Basin the full quantity at costs not in excess of those which would apply if this flow were available in the stream.

As noted in my previous memorandum, this kind of guarantee has never been accorded other water users and can set a dangerous precedent. The development of the last increment of water on a stream inevitably costs more than the earlier increments. Importation of water from an outside source will, in almost every case, cost still more. If the people of the southwest are to be freed of these increasing costs as their needs mount, are we not then obligated to extend the same guarantees to all other water users of the nation? In so doing we free the water users of the compulsion to consider the alternatives of conservation, selection of alternate locations, conversion to uses requiring less water, etc. We condone waste and inefficiency in use by removing the economic controls which are effective with respect to other commodities.



The bill requires the Secretary of the Interior to submit plans for the importation of not less than 2,500,000 acre-feet of new water to the Basin. It seems most likely that this will come from the Columbia Basin and that he will find it necessary to propose a project of substantially larger size in order to take advantage of scale economies to make the project feasible. If this is true, he will also have to recommend a substantial expansion of irrigation in the Great Basin area in order to use the excess water. There are serious questions to be raised concerning the desirability of such an irrigation program. Assuming passage of the bill, a thorough review of irrigation policy within the near future will be essential to the evaluation of a major import proposal three years hence.

The bill evades an obvious temporary solution which could be achieved through a negotiated sale of Upper Basin water to Lower Basin states for a period of years while the water is surplus to Upper Basin needs. Such a plan would delay the need for import for many years. The issue is not whether there should be an import project, but rather when this project should be undertaken. The longer it can be postponed, without economic losses, the better. Delay of the project avoids obsolescence of physical works and permits inclusion of technological advances which, over a period of 25 to 50 years, will certainly be highly significant.

It is appropriate to reemphasize the comments of my earlier memorandum on the need for truly comprehensive planning and policy determination before the authorization of major projects. Bills such as S. 1019 and H. R. 4671 essentially prejudge the results of future studies and limit our latitude for decisions.

Comments on specific details of the draft bill are attached.

(signed) Donald F. Hornig

Donald F. Hornig  
Director

Enclosure:  
Comments on draft bill

cc: Dr. Hornig - Chron ✓  
Mr. Linsley - Chron  
Mr. Linsley - Subject  
S&T Files - Chron  
S&T Files - Subject

S&T Control No. 0259

**Sec. 201(a)(2) page 3.** Please replace "desalinization" by "desalting."

**Sec. 201(b) page 4.** Section 201(a)(2) refers to "water renovation, and reduction in losses" as methods of meeting water needs. Are these to be considered as "sources outside the natural drainage area of the Colorado River System?" This would be a strained interpretation, yet it would seem that these are legitimate methods for supplying "new" water. Suggest inserting "additional" before "water" in the third line from the bottom and deleting everything after "Ferry" on the second line from the bottom.

**Sec. 302 page 5.** Bridge and Marble Canyon projects serve only to provide offsetting power revenues in the basin account. There are alternative sources of power which should be considered. There are objections on the basis of protecting natural beauty. In addition these reservoirs will result in the loss of 100,000 acre-feet of water annually from evaporation and an initial requirement of 4,000,000 acre-feet for filling. It is suggested that this section be deleted pending studies of alternative financing.

**Sec. 304(c) page 9.** This provides that import water shall be priced as if it were available in the river. Recommend that the price provisions of Sec. 304(d) be made applicable to all import water.

**Sec. 306.** The Southern Nevada project is an appendage not essential to the bill. This project could be financed from other sources such as HHFA. Were the source of water not a Federal reservoir, it would be the responsibility of the local agency to provide for design, construction and financing. Suggest this section be deleted. This seems preferable to the alternative suggested by Secretary Udall of prescribing a 4% interest rate as a recognition of the unusual features of this project.



**Sec. 308(a).** This makes no provision for cost-sharing in connection with recreation features. It is understood that other legislation on cost-sharing is going forward. This section should be consistent with policy on this subject.

**Sec. 309.** The Dixie project is a marginal project authorized after local people agreed to special repayment terms. This agreement should not be negated. Suggest deletion of this section. If this is deleted the relevant words in line 8 of the new Sec. 304 recommended by Interior should also be deleted.

Paragraph 4, page 5, of Secretary Udall's draft letter notes that Sec. 304(c) "does not constitute the United States an insurer of the availability of augmenting water." While this is literally true as regards quantity, this section does provide insurance that the cost of augmenting water be no greater than that of naturally available Colorado River water. Further, the sense of Sec. 304(b) is that an import project will be built. Hence the combined effect is to guarantee both quantity and price.



February 23, 1965

MEMORANDUM FOR

Mr. Valenti

You will recall the request that the President address the awards dinner of the National Science Talent Search. Since this did not fit his schedule, I agreed to speak in his place.

The Science Talent Search people have now asked whether, as was the case in some previous years, the award winners might very briefly meet with the President at the White House on Monday, March 1st. I recommend that he do so if it is at all possible. These forty high-school students are the end result of a selection process ~~that~~ started with some 400,000 high-school students and represent some of our very brightest boys and girls from all over the country. I think the President's interest in improving the quality of education and his interest in science would be well served if a few minutes could be devoted to meeting with these students.

Donald F. Hornig  
Special Assistant for  
Science and Technology

February 23, 1965

**MEMORANDUM FOR : William B. Cannon**  
**Office of the Assistant Director**  
**for Legislative Reference**  
**Bureau of the Budget**

**SUBJECT : Comments on President's Manpower Message for 1965**  
**- Manpower Report of the President**

In response to your Legislative Referral Memorandum of February 12, 1965, there follow comments of both a general and specific nature with respect to the President's Manpower Message -

General Comments:

The Message in its present form may suffer from length, pre-occupation with short-term changes in the employment picture, and a generally depressing tone. It should be possible to place greater emphasis on the use of abundant material resources and growing stores of knowledge and talent to shape the environment of the Great Society so as to make jobs more exciting and fruitful. Improvements in the quality of education are not justified solely because of the contribution made to employability within the existing occupational framework -- it also makes possible the attainment of a higher level of living for the whole society. Somehow, this basic optimism does not show through.

In particular, the section under the heading of "Change Requirements" (Pages 8-11) should be reoriented to reflect long-term opportunities. Also, it should describe the way in which research effort leads to new products and processes, creates new jobs by meeting unsatisfied needs, and helps bring about the growth of new institutions and markets. Given this long-term content, we must be prepared to accommodate the adjustments required, but this task must be conceived as one aspect of a dynamic growth and improvement process which can provide opportunities far in excess of hardships.

Hornig Chron file

Specific Comments:

1. Add to Page 1, Par. 4, the following: "The remarkable advances of science currently in process can lead to an ever-increasing freedom of choice in shaping the character and quality of the environment. We have the potential in terms of material resources and manpower to exploit new techniques so that the lives of all citizens - at home and at work - can be more creative, more productive, and more satisfying. The goal of 'human work for human beings' may never be fully realized in our lifetime, but dramatic progress is possible in this generation."

2. Change Par. 2, Page 2, to read as follows: - "A third major concern is that rapid and diverse change is burdening many workers and communities, even while benefiting the economy generally. Technological change - which can be the key to ever-heightened prosperity and individual opportunity - brings also in its wake the growth of new demands and the decline of old ones, readjustments of Government programs, rural to urban and suburban migration, and other shifts which must be faced and effectively managed."

3. Alter the third point in Par. 4, Page 2, as follows: - "to speed the application of technology, while easing the sting of change for displaced workers and disrupted communities."

4. Delete Par. 2, Page 3 (meaning and references are unclear).

5. Shorten the section headed "Unemployment" on Pages 4-5.

6. Shorten the section headed "Young Workers" on Pages 6-7.

7. Revise the statistics in Par. 2, Page 6 - under the section on "Young Workers" - to reflect the fact that at least 7 out of 10 youths earn a high school degree. (See Page 56 of the Digest of Educational Statistics, OE #10024-64.)

8. Add to the second full paragraph on Page 13 the following: - "The full capabilities of the Nation's human resources can be utilized only if improvement in training and work opportunities takes place at every level of the labor force, allowing each individual to realize his full creative potential."



9. Broaden and dramatize Par. 4, Page 19.

10. Telescope the "Actions Needed" section, Pages 19-24, by making use of a more general discussion. Remember that the supporting Labor Department Report discusses related programs in great detail.

15

Donald F. Hornig  
Director

WLHooper:gl  
DISTRIBUTION:  
1-addressee  
2-Mr. March  
3-Mr. Rivkin  
4-Hornig chron  
5-OST chron  
6-OST subj  
7-8 - WLHooper files

**February 23, 1965**

**Dear Jim:**

**I appreciated receiving your letter concerning your availability as a Consultant-at-Large to PSAC. I do hope that you will continue to serve in this capacity and fully appreciate the problems that you have raised.**

**I am actively exploring ways in which we can avail ourselves of your active assistance without the necessity for your attending the number of Committee meetings that I indicated in my earlier letter. Perhaps this can be done by direct consultation during your trips to Washington and calling upon you for specific matters under discussion in the Committee.**

**We are strengthening the PSAC organization by the designation of Herb York as Vice Chairman and the creation of a three-man program committee, chaired by Herb. I hope that there will be opportunities for you to meet with the program committee to give us the benefit of your rich experience on a broad range of issues that would be of concern to the Science Advisory Committee.**

**We have been indulging in a great deal of introspection and self-analysis recently so I was most pleased to hear about your history of the office and PSAC. It will add a great deal to our appreciation of the nature of the role, I am sure, and I will be most anxious to see it.**

**Sincerely yours,**

**(signed) Don**

**Donald F. Hornig  
Chairman**

**Dr. James R. Killian, Jr.  
Chairman of the Corporation  
Massachusetts Institute of Technology  
Cambridge, Massachusetts 02139**

**DZBeckler;DFHornig;khb  
CC: DFH**

**Mr. Beckler  
S&T File  
S&T Chron**

20506

February 23, 1965

Dear Admiral Leydon:

In response to your request, I am pleased to designate Dr. David Z. Robinson of my staff to serve as a point of contact with your office in planning for the twentieth anniversary of the establishment of the Office of Naval Research. Dr. Robinson was a former member of the ONR-London staff. He has principal responsibility on the OST staff for science programs, and a thorough knowledge of the activities and perspectives of the OST, PSAC, and the FCST.

Sincerely yours,

(signed) Donald F. Hornig

Donald F. Hornig  
Director

Rear Admiral J. K. Leydon, USN  
Chief of Naval Research  
Department of the Navy  
Washington, D. C. 20360

DZBeckler;khb  
CC: DFH

Mr. Beckler  
Dr. Robinson w/copy of incoming letter  
S&T File  
S&T Chron



February 23, 1965

X

DONALD F. HORNIG  
DIRECTOR

VICTOR F. WEISSKOPF  
CERNLAB  
GENEVA

HAVE SPEECH SCHEDULED EVENING MARCH 1.  
SHOULD BE FINISHED BY 9:30 PM. HAPPY TO SEE  
YOU AFTERWARDS IF YOU ARE NOT TOO TIRED.

February 20, 1965

Dear Miss Gabron:

Would it be at all possible for you to let me know what the agenda is for the Overseers Meeting in May? Dr. Hornig has been asked to arrange his time in Cambridge in May in order that he may participate in some other activities, and we want to be certain that no conflict exists with the activities of the Board. Thank you very much.

Sincerely,

Eleanor A. Connors (Miss)  
Secretary to Dr. Hornig

Miss Frances Gabron  
Board of Overseers of  
Harvard College  
Massachusetts Hall  
Cambridge 38, Massachusetts

February 20, 1965

Dear Colonel Wallace:

Thank you for your letter describing the Pilot Course in Advanced Intelligence to be undertaken by the Department of Defense. I was interested to learn of your efforts to expand and improve the intelligence capability of the Department, and very much appreciate your invitation to address the students of the Pilot Course on the morning of March 18th. I would certainly like to do so, but unfortunately I already have a meeting schedule for that date at which I must be present. I am sorry it won't be possible for me to be with you, but I would be most interested to be kept advised of the progress of the program.

Sincerely,

Donald F. Hornig  
Director

Colonel Lee Wallace, USA  
Commandant  
Defense Intelligence School  
U. S. Naval Station  
Washington, D. C. 20390

eac

speech declines "D"



February 20, 1965

Dear Stan:

I have contrived to mislay your letter, but while I am in Boulder I most certainly want to visit the Chemistry Department. I am not yet quite sure how it could best be arranged. There is a small gap in my schedule Thursday afternoon between 4 and 6 when I might be able to meet with some of the faculty, but there won't be enough time for me to give a seminar or visit the laboratory since I will need some time to clean up for dinner.

On Friday I must leave Denver at 12:10 pm so that I can probably remain in Boulder until 10:30 or so. Maybe something could be fixed up for that morning.

I shall look forward to seeing you.

Sincerely,

Donald F. Hornig  
Special Assistant for  
Science and Technology

Dr. Stanley J. Cristol  
Professor of Chemistry  
University of Colorado  
Boulder, Colorado 80304

cc: Dr. Branscomb

Note to Dr. Branscomb: The flight from Denver at 12:10 is United 240 to Milwaukee. Dr. Hornig has changed his plans somewhat and will not take that 11:45 flight out as I had indicated earlier. I don't think this makes much difference as far as your schedule is concerned.

Eleanor Connors

February 20, 1965

Dear Dean Parker:

Thank you for your letter inviting me to participate in your Visiting Scientist Program. I am most grateful for your invitation and am certain that I would enjoy visiting Auburn. Unfortunately, however, my schedule here in Washington is so heavy that it leaves me very little time for out-of-town engagements, and there does not appear to be any period in the reasonably near future when I could be certain that it would be possible for me to be away from Washington.

Sincerely,

Donald F. Hernig  
Special Assistant for  
Science and Technology

Dr. W. A. Parker  
Dean of the Graduate School  
Auburn University  
Auburn, Alabama

**February 19, 1965**

**Dear Mr. Murdock:**

**Thank you very much for your letter of February 15 regarding transfer of Public Health Service Hospitals to the Veterans Administration.**

**Although my office is concerned with scientific rather than legal matters, I am very glad to receive your opinions on some of the questions of law which may be involved. I will certainly convey them to the people who have responsibility for such matters.**

**I would, however, like to comment on the statement you make on Page 2: "In addition, present plans to close Veterans Administration hospitals lead us to conclude that a high degree of uncertainty exists concerning the future of these hospitals." I would like to assure you that the closing of Veterans Administration Hospitals in no sense reflects a policy of uncertainty regarding the Veterans Administration Hospital system as a whole. Rather, it represents a long-range program designed to improve the Veterans Administration Hospital system in accordance with changes in the demands for medical care put upon it.**

**May I also assure you that in the deliberations of the distinguished panel I have assembled to consider this question, your letter and its proposals will be given every consideration.**

**Yours very truly,**

**Donald F. Hornig  
Special Assistant for  
Science and Technology**

**Mr. Ray R. Murdock  
Legislative Director  
American Maritime Association  
New York, New York**

**PSB/emu Chron  
DFH/Chron ✓  
S&T File PHS  
S&T Chron  
cc: Mr. Aderson**



**February 19, 1965**

**Dear Mr. Wilson:**

**The so-called "Bell Report" to which you refer in your February 18th inquiry was published by the Bureau of the Budget, and my understanding is that it is now out of print. I am happy to enclose a file copy belonging to the Office of Science and Technology, and you may wish to check directly with the Budget Bureau regarding its further availability.**

**I am not aware of any plans to publish an updated version of the Bell Report. The report did, however, cover a wide scope of topics, many of which are under continuous study and review within the Executive branch.**

**Sincerely yours,**

**(Signed) Donald F. Hornig**

**Donald F. Hornig  
Special Assistant for  
Science and Technology**

**Enclosure**

**The Honorable Bob Wilson  
U.S. House of Representatives  
Washington 25, D. C.**

**RBarlow:jh:2-19/23-65  
Bcc: RB file and chron  
S&T file and chron  
DFH ch~~ron~~  
WH (2)**

**S&T Control No. 0264**

**February 19, 1965**

**Dear Dr. Brady:**

**Your letter of February 8 enclosed copies of the Secretary's Memorandum No. 1565, "U. S. D. A. Policy on Pesticides."**

**We appreciate the copies you provided and wish to commend the Department on the firm policy statement. This statement clearly implements recommendations made in our report, "Use of Pesticides" and we are certainly pleased to see this established as formal U. S. D. A. policy.**

**Sincerely,**

**Donald F. Hornig  
Director**

**Dr. N. C. Brady  
Director of Science  
and Education  
Office of the Secretary  
Department of Agriculture  
Washington, D. C.**

**JLB:shb Chron  
DFH Files ✓  
S&T Chron  
S&T Files Pesticides  
JLB**

**February 19, 1965**

**Dear Mr. Shaughnessy:**

**Thank you for your letter of February 10, expressing the views of the Miami-Dade County Chamber of Commerce with respect to the 260" solid rocket project. We are glad to have your views on this important matter, and you may be sure we will bear them in mind.**


**Sincerely,**

**Donald F. Hornig  
Director**

**Mr. Robert W. Shaughnessy  
President  
Miami-Dade County Chamber of Commerce  
345 Northeast Second Avenue  
Miami, Florida 33132**

**DFH/eac**

**S&T Files  
S&T Chron.  
DFH Chron.**





**February 19, 1965**

**Dear Mr. Faull:**

**Thank you very much for sending me the eulogy to Professor Wilson. He was a great man and a very fine man, a person who was always very close to my heart. He will be long remembered.**

**Needless to say, I still retain a warm affection for my friends in the Boston ONR office.**

**Sincerely,**

**Donald F. Hornig  
Special Assistant for  
Science and Technology**

**Mr. J. H. Faull, Jr.  
Office of Naval Research  
Boston Branch Office  
495 Summer Street  
Boston, Massachusetts 02210**

**DEF/eac**

**February 19, 1965**

**MEMORANDUM FOR**

**THE PRESIDENT**

**In accordance with your February 16th Memorandum for the Heads of Executive Departments and Agencies regarding the need for sound safety practices in the Federal Government, I have reminded my small staff of the importance of continuing attention to sound safety practices and the prevention of accidents.**

**(signed) Donald F. Hornig**

**Donald F. Hornig  
Director**

**RBarlow:jb:2-19-65  
Dcc: RB file and chron  
S&T file and chron  
DFH ~~chron~~**

**S&T Control No. 0249**

**February 19, 1965**

**Dear Mr. Falk:**

**Thank you for your letter of February 12th. I was most interested to learn of your proposed summer study and would be happy to meet with you and Mr. Dunbar when you are in Washington. I would suggest March 9th at 3:00 p.m. if that is convenient for you. My office is located in the Executive Office Building at 17th Street and Pennsylvania Avenue, N. W., Room 200.**

**Sincerely,**

**Donald F. Hornig  
Director**

**Mr. Charles E. Falk  
Associate Director  
Brookhaven National Laboratory  
Associated Universities, Inc.  
Upton, L. I., New York**

**eac**

**tickle 3/9**



**February 19, 1965**

**Dear Chancellor Heard:**

**Thank you very much for your letter of February 16th. I would be most happy to see you when you are in Washington on March 10th. I would suggest 2:30 p.m. in my office in the Executive Office Building, 17th Street and Pennsylvania Avenue, N. W.--Room 200.**

**I look forward to seeing you then.**

**Sincerely,**

**Donald F. Hornig  
Special Assistant for  
Science and Technology**

**Dr. Alexander Heard  
Chancellor  
Vanderbilt University  
Nashville 5, Tennessee**

eac

tickle 3/10

**February 19, 1965**

**Dear Mr. Grant:**

**Thank you for your letter of February 19th. I would very much like to visit Indianapolis and Atlanta to see the Advanced Radar Traffic Control System and the Stored Program Alpha-Numeric System, but, unfortunately, it will not be possible for me to do so on March 8th and 9th. I might suggest, however, that Dr. Nicholas Golovin of my staff could substitute for me on such a trip if that would be appropriate.**

**Sincerely,**

**Donald F. Hornig  
Director**

**Mr. Harold W. Grant  
Acting Administrator  
Federal Aviation Agency  
Washington, D. C.**

**DFH/eac**

**cc: Dr. Golovin with incoming**

February 19, 1965

Dear Jay:

Naturally, I was sorry to receive your letter of resignation from the Office of Science and Technology. In the two and one half years you have been with the Office, you have made important contributions toward bringing about a better understanding of the complex scientific and technical information problems of the Government.

I have personally valued my association with you and am glad to know that your advice and counsel will continue to be available.

Both for myself and your associates in OST, I would like to extend our best wishes for the future.

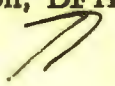
Sincerely,

Donald F. Hornig  
Director

Dr. J. Hilary Kelley  
Office of Science and Technology  
Executive Office of the President  
Washington, D. C.

DFH/eac

S&T Files' S&T ~~Chron.~~ Chron; DFH Chron.





**February 19, 1965**

**Dear Dr. Edgahl:**

**Thank you very much for your cordial letter of February 9th regarding the closing of the Boston Public Health Service Hospital.**

**The decision to close seven of the twelve Public Health Service Hospitals was made independently of my office, and is not subject to reconsideration in our survey of the five hospitals which will remain. However, because affiliations with teaching and research institutions are so important to the maintenance of high quality care in Federal hospitals, it would be of great help for us to understand the experience you have had in setting up such an affiliation with the Boston P.H.S. Hospital. I have asked Mr. J. Milo Anderson, who is serving as staff for a panel of distinguished citizens which I have assembled to review the entire Public Health Service Hospital situation, to contact you and make arrangements for a visit in Boston. I hope this will not prove to be an intrusion into your schedule.**

**I am very appreciative of your continued interest in this problem, and I hope you will not hesitate to contact me as the study progresses.**

**Yours sincerely,**

**Donald F. Hornig  
Director**

**Dr. Richard H. Edgahl  
Utley Professor and Chairman  
Department of Surgery  
Massachusetts Memorial Hospitals  
750 Harrison Avenue  
Boston, Massachusetts**

**PSB/emu Chron  
DFH/Chron ✓  
S&T File PHS Hospitals  
S&T Chron  
cc: Mr. Anderson**

**February 19, 1965**

**Dear Dr. Branscomb:**

**Dr. Hornig asked me to tell you that he will have with him when he arrives the page or so of summary of his speech which will be available for the press. There is still the possibility that the complete speech will be available but that is growing less likely every day.**

**Sincerely,**

**Eleanor Connors  
Office of the Special Assistant  
for Science and Technology**

**Dr. Lewis M. Branscomb  
Chairman, Joint Institute for  
Laboratory Astrophysics  
University of Colorado  
Boulder, Colorado 80304**

**February 19, 1965**

**Dear Father Hesburgh:**

**Thank you for your letter of February 12th. I am highly honored that the University of Notre Dame wishes to bestow an honorary degree of Doctor of Laws upon me, and I am very pleased to accept. I shall definitely plan to be with you on Saturday, May 15, and look forward to the occasion with great pleasure.**

**With very best regards,**

**Sincerely,**

**Donald F. Hornig  
Special Assistant for  
Science and Technology**

**The Reverend Theodore M. Hesburgh, C. S. C.  
President  
University of Notre Dame  
Notre Dame, Indiana**

**eac**

**tickle 5/15**



**February 19, 1965**

**Dear Mr. Hartstein:**

**In connection with the Convocation to be held at Yeshiva University on March 7th at which I am to receive an honorary degree, I would very much appreciate your sending invitations to Dr. and Mrs. Edwin Schwenk, 207 Dana Street, Princeton, New Jersey.**

**Sincerely yours,**

**Donald F. Hornig  
Special Assistant for  
Science and Technology**

**Mr. Sam Hartstein  
Yeshiva University  
Amsterdam Avenue and 186th Street  
New York, New York 10033**

**DFH/eac**

**tickle 3/7**

February 19, 1965

MEMORANDUM FOR THE RECORD

SUBJ: Chartered Air Travel by Dr. Franklin A. Long

This is to certify that I regard it as advantageous to the Government for Dr. Franklin A. Long to use air charter service between Ithaca, New York, and Washington, D.C., when he finds it essential to do so in order to fulfill his responsibilities as a member of the President's Science Advisory Committee. This determination was made on the basis that the difference in cost per round trip is comparatively small and that the inconvenience of regularly scheduled airline service between Ithaca and Washington makes it impossible at times for Dr. Long to serve the PSAC and also carry out his duties as Vice President for Research and Advanced Studies of Cornell University.

Donald F. Hornig  
Chairman

RBarlow:jb:2-18-65  
Bcc: RB file and chron  
S&T file and chron  
DFH ~~chron~~  
Orig. to FALong file.

EXECUTIVE OFFICE OF THE PRESIDENT  
OFFICE OF SCIENCE AND TECHNOLOGY

February 19, 1965

MEMORANDUM FOR OST STAFF

SUBJECT: Office Safety Practices

The President has sent a reminder to the heads of all agencies regarding the importance of good safety practices in the Federal Government and the need to reduce the number of accidents. Accidents rarely occur in a small office such as this, but it may nonetheless be worthwhile to use this as an occasion to remind everyone of the hazards involved in careless practices such as leaving file drawers open and placing heavy objects on top of safes and file cabinets.

I should also like to remind all members of the staff that any injury incurred in the office, however slight, should be reported promptly to the Public Health Service Unit in Room 55 of the Executive Office Building. Seemingly minor injuries sometimes prove to be much more complicated than they first appear. Proper care, and compensation where appropriate, can be provided only if the accident is promptly reported.

Donald F. Hornig  
Director



**February 19, 1965**

**Dear Watson:**

**I am sorry to have to report that the President will not be able to attend the Science Talent Search Banquet on March 1st due to his very heavy schedule of commitments. He has asked me to express his regrets to you. However, as we discussed previously, I will be happy to speak in his stead.**

**Sincerely,**

**Donald F. Hornig  
Special Assistant for  
Science and Technology**

**Mr. Watson Davis  
Director  
Science Service  
1719 N Street, N. W.  
Washington, D. C. 20036**

**eac**

**DFH Chron.  
tickle 3/1**

February 18, 1965

Dear Mr. Chairman:

I am writing in regard to the consideration by your committee of legislation on the control of water pollution. In particular, I would like to comment on the handling of rights to inventions made in the course of research on methods of pollution control.

The problem of allocating rights to inventions made in the conduct of Federally-financed research is, of course, much broader than that raised in connection with legislation on water pollution. It is a complex issue that affords no simple solution.

There seems to be widespread agreement that the government should pursue a patent policy that results in maximum benefits to the nation as a whole, not merely in the accommodation of parochial interests. However, the differing objectives and circumstances under which Federal research and development is conducted rules out the possibility that a blanket "title" or "license" policy could take them properly into account. For example, the nature of the research and specific inventions and the commercial background and know-how of the contractor must be considered. There are circumstances where the government would like to take advantage of the fact that the prospective contractor has made a substantial private investment in the field of interest. The granting of some commercial rights may be necessary to attract private investment in developing and commercializing the invention. Or, there may be opportunities through a licensing program to exploit the inventions abroad that could be of economic benefit to the United States.

There is now in effect the attached Statement of Government Patent Policy, issued by President Kennedy in October of 1963, to which this Administration fully subscribes. It was the result of some 18 months' careful study by 20 government agencies. The Policy defines situations where the public interest requires the retention of patent rights by the government. It also identifies situations where the public interest in the availability of the inventions is better served by leaving commercial rights with the contractor.



It should be noted that the Policy Statement provides for the government's acquiring exclusive rights to inventions made in the course of research in fields, such as water pollution, which directly concern the public health or public welfare. However, it also provides that the contractor may acquire greater rights in exceptional circumstances where the head of the agency makes a certification that such action will best serve the public interest.

A primary objective of the present patent policy is to place Federally-financed inventions in practical use to the benefit of both the user and the national economy. Clearly, the solution of such problems as environmental pollution requires more than legislation and funds. It requires not only technological development but its practical application in a form that will make it possible to remove pollution economically--exhaust from automobiles, waste from cities and factories, and run-off from farms.

It is essential to transfer the invention from the laboratory into actual practice. To this end, industry needs to make the additional investment in development and innovation, leading to the technical and economic advances that can facilitate widespread efforts to control pollution. To get industrial companies to commit their best skills and know-how, it may be necessary in some cases for the government to offer patent incentives, either to the contractor or subsequently to interested firms, with the requirements imposed by the Patent Policy to take active steps to put the patent to work.

We are proceeding through the Patent Advisory Panel of the Federal Council for Science and Technology to monitor the implementation of the Statement of Patent Policy, to evaluate the effectiveness of the Policy in the light of the facts and experience accumulated, and to recommend modifications as experience dictates. At the same time, it would seem desirable to work in the direction of general legislation on government patent policy after full consideration of the range of issues involved.

Sincerely yours,

Donald F. Hornig  
Director

Honorable George H. Fallon  
Chairman  
Committee on Public Works  
House of Representatives  
Washington, D. C. 20515

DZBeckler;jkhb  
CC: Mr. O'Brien, WH  
Mr. S. Hughes, BOB  
DFH subj. & chron ✓  
Mr. Beckler  
S&T File S&T Chron



C. 100-100

**EXECUTIVE OFFICE OF THE PRESIDENT  
OFFICE OF SCIENCE AND TECHNOLOGY**

February 18, 1965

**MEMORANDUM FOR OST STAFF**

**SUBJECT: Handling of Referred White House Mail**

Members of the staff of the Office have in general been highly conscientious about prompt replies to Presidential mail referred here by the White House. Nonetheless, I would like all of you to be aware of the attached memorandum from Horace Busby which re-emphasizes the necessity for action within 48 hours unless very special circumstances dictate otherwise.

Donald F. Hornig  
Director

**Attachment:**  
Memorandum for  
Cabinet Members and  
Agency Heads 2/16/65

THE WHITE HOUSE

WASHINGTON, D.C.

MEMORANDUM FOR CABINET MEMBERS  
AND AGENCY HEADS

On February 3, 1964, the President sent to you a personal memorandum regarding the handling of White House mail referred to Departments or Agencies for response.

The volume of mail addressed to the President is increasing sharply. The White House referrals are increasing proportionately. While the President wishes to discuss this fully at the next meeting of the Cabinet, he has asked that the 1964 memorandum be supplemented immediately with the following:

1. That referred correspondence addressed to the President be replied to within 48 hours, excluding weekends and holidays.
2. That where initial acknowledgments are used, promising substantive responses later, such follow-up letters should be dispatched within five working days.
3. That all correspondence reflecting adequate return addresses be acknowledged with appropriate replies.

The special situations arising from unusually heavy mail flows regarding legislation, public issues or news developments may in some instances require improved procedures to assure that this prompt handling of White House referrals is accomplished efficiently and economically.

A report would be appreciated by February 20 on both the status of White House referrals currently at your Department or Agency and on innovations your offices find effective in meeting heavier-than-usual flows of White House and Congressional referrals.

Horace Busby  
Special Assistant to the President

February 16, 1965

XEROX FROM QUICK COPY

**February 18, 1965**

**Dear Mr. Cahill:**

**The Office of Science and Technology is most happy to comply with your request of February 17 by placing Professor Rinehart S. Pette' name on our mailing list to receive all future publications and releases.**

) Name added to the  
) mailing list (2 cards).  
)                   jb 2/18

**Under separate cover we have mailed him all publications which are available at this time.**

) Mailed him twelve  
) publications.  
)                   jb 2/18

**Sincerely yours,**

**Donald F. Hornig  
Director**

**The Honorable William T. Cahill  
Congress of the United States  
House of Representatives  
Washington, D. C.**

**RBarlow:jb:2-18-65  
Bcc: RB file and chron  
S&T file and chron  
DFH ch~~ron~~  
WH (2)**

**S&T Control No. 0256**



*Dr. Hornig*

**EXECUTIVE OFFICE OF THE PRESIDENT  
OFFICE OF SCIENCE AND TECHNOLOGY**

**February 18, 1965**

**MEMORANDUM FOR OST STAFF**

**SUBJECT: Handling of Referred White House Mail**

Members of the staff of the Office have in general been highly conscientious about prompt replies to Presidential mail referred here by the White House. Nonetheless, I would like all of you to be aware of the attached memorandum from Horace Busby which re-emphasizes the necessity for action within 48 hours unless very special circumstances dictate otherwise.

**Donald F. Hornig  
Director**

**Attachment:**

**Memorandum for  
Cabinet Members and  
Agency Heads 2/16/65**

THE WHITE HOUSE  
WASHINGTON

MEMORANDUM FOR CABINET MEMBERS  
AND AGENCY HEADS

On February 3, 1964, the President sent to you a personal memorandum regarding the handling of White House mail referred to Departments or Agencies for response.

The volume of mail addressed to the President is increasing sharply. The White House referrals are increasing proportionately. While the President wishes to discuss this fully at the next meeting of the Cabinet, he has asked that the 1964 memorandum be supplemented immediately with the following:

1. That referred correspondence addressed to the President be replied to within 48 hours, excluding weekends and holidays.
2. That where initial acknowledgments are used, promising substantive responses later, such follow-up letters should be dispatched within five working days.
3. That all correspondence reflecting adequate return addresses be acknowledged with appropriate replies.

The special situations arising from unusually heavy mail flows regarding legislation, public issues or news developments may in some instances require improved procedures to assure that this prompt handling of White House referrals is accomplished efficiently and economically.

A report would be appreciated by February 20 on both the status of White House referrals currently at your Department or Agency and on innovations your offices find effective in meeting heavier-than-usual flows of White House and Congressional referrals.

Horace Busby  
Special Assistant to the President

February 16, 1965

XEROX FROM QUICK COPY

**February 18, 1965**

**MEMORANDUM FOR**

**Lawrence O'Brien**

Attached is a statement on government patent policy that I have indicated a willingness to make available to the House Public Works Committee prior to their hearings tomorrow. I believe that it avoids the pitfalls raised in my conversation with Mike Manatos and is consistent with the tenor of my conversation with the President.

*D/CH*

**Donald F. Hornig**  
**Director**

**Attachment**

DZBeckler;khb  
CC: DFH subj. & chron  
Mr. Beckler  
S&T File  
S&T Chron



February 18, 1965

Dear President Davis:

Thank you for your letter of February 1, inviting me to speak at the third Research Day at Stevens Institute in May. I very much appreciate your invitation, and I am certain I would enjoy the opportunity to visit Stevens, but, unfortunately my schedule for the first two weeks in May is extremely crowded, and I doubt that it would be possible for me to get away from Washington on any of the dates you suggest.

Sincerely yours,

Donald F. Hornig  
Director

Dr. J. H. Davis  
President  
Stevens Institute of Technology  
Castle Point Station  
Hoboken, New Jersey

eac

Speech declines "S"

**February 18, 1965**

**MEMORANDUM FOR**

**Mr. Horace Busby  
Special Assistant to the President**

**SUBJECT: Handling of Referred White House Mail**

**This is in response to your February 16 memorandum regarding the prompt handling of White House mail. My Office has been very conscientious about compliance in the past, but I am circulating your memorandum as a reminder that we need to continue to respond promptly to correspondence addressed to the President.**

**There are existing procedures in the Office to control closely all White House mail and to follow up to be sure that appropriate action is taken. At the time this is written, action has been taken on all Presidential correspondence which has been in the office longer than 48 hours.**

**(signed) Don**

**Donald F. Hornig  
Director**

**RBarlow:jb:2-18-65  
Bcc: RB file and chron  
S&T file and chron  
DFH ~~chron~~**

**S&T Control No. 0244**

20506

17 February 1965

Dear Fred:

Thank you for your letter of January 19 urging support of the National Standard Reference Data Program budget request for F. Y. 1966. The Office of Science and Technology position vis-a-vis the NSRDP has been consistently in active support of this Program in all of its stages, from its initial endorsement by the Federal Council for Science and Technology, the original transferral of \$600,000 from four agencies to the National Bureau of Standards, to the request by the National Bureau of Standards for funds for F. Y. 1965 and 1966.

The Bureau of the Budget reacted unfavorably to the F. Y. 1965 NSRDP requests and again to the F. Y. 1966 requests, with this Office supporting the agencies in both instances. We are once again facing the problem of sustaining the President's budget in the Congress.

As you have suggested, we intend to continue our strong support for this Program. To this end I will shortly send letters to the two appropriations subcommittees of the Congress stressing the importance and great value of this Program.

Thank you very much for your interest.

Sincerely,

(signed) Don

Donald F. Hornig  
Director

Dr. Frederick Seitz, President  
National Academy of Sciences  
2101 Constitution Avenue, N. W.  
Washington, D. C. 20418

S&T 0094

MEMO JHK:las

OST file-chron JHK file-chron

✓ D. F. Hornig; S. Rivkin



**February 18, 1965**

**MEMORANDUM FOR**

**The President**

**We are submitting for your approval a report on cotton insects prepared by a panel of your Science Advisory Committee.**

**The Department of Agriculture has reviewed the report and concurs in the desirability of its publication. The Department has already underway many of the actions recommended in the Panel Report.**

**We request your approval for publication including the introductory statement of the President, which is largely taken from your news release of November 2, 1964, copy attached.**

**"Don Hornig"**

**Donald F. Hornig**

**Attachment**

**JLB/emu Chron  
DFH/Chron ✓  
S&T File Cotton Insects  
S&T Chron  
JLB  
Extra**

**February 18, 1965**

**At the present time, between ten and twenty percent of the cost of producing cotton is spent on insect control mainly through the use of chemical pesticides. Despite the progress that has been achieved in insect control, several problems have emerged that require immediate attention to achieve effective control of these cotton pests. Many of the most important insect pests have become partially or completely resistant to some pesticide chemicals.**

**A panel of my Science Advisory Committee has studied these questions and prepared a report for me which makes useful recommendations. Because of its general interest, I am releasing the report for publication.**

**JLB:shb Chron  
S&T Files cotton insects  
CMM**

**S&T Chron  
DFH Files ✓  
JLB**

Feb. 18, 1965

X

DONALD F. HORNIG

J. R. SMILEY  
PRESIDENT  
UNIVERSITY OF COLORADO, BOULDER, COLORADO

DELIGHTED TO ACCEPT YOUR KIND INVITATION  
TO DINNER FEBRUARY 25. LOOK FORWARD TO  
SEEING YOU THEN.



20906

February 17, 1965

Dear Mr. Chairman:

Thank you for sending me with your letters of January 22 and January 26, copies of H.R. 912, To Establish the National Oceanographic Agency, and H.R. 2218, To Provide for a Comprehensive Long Range, and Coordinated National Program in Oceanography.

My testimony of June 23, 1964, before the Subcommittee on Oceanography of the House Merchant Marine and Fisheries Committee (two copies enclosed) continues to represent what seems to me to be the essential considerations to be taken into account in organizing the Executive Branch for an effective oceanographic program. H.R. 912 and H.R. 2218 represent quite different approaches to this question. I do not believe that H.R. 912 provides a satisfactory solution because it would centralize in a single agency many aspects of oceanography which must be carried on by many parts of the Federal Government if they are to discharge their statutory obligations. On the other hand, H.R. 2218 provides a policy and actions which would strengthen oceanographic activities without centralizing them. This I consider the preferable general approach, and I would be glad to discuss these matters, as well as more recent developments in the Federal oceanographic programs, in greater detail at the appropriate time.

Thank you for the opportunity to comment on these measures.

Sincerely yours,

(signed) Donald F. Hornig

Donald F. Hornig  
Director

Honorable Herbert C. Bonner  
Chairman, Committee on Merchant  
Marine and Fisheries  
House of Representatives  
Washington, D. C.

CVKidd:jan  
cc: White House Files (2)  
Jean Lewis /  
DFH chron  
CVK file & chron  
S&T file & chron  
S&T Cont. Nos. 0131 & 0137

**February 17, 1965**

**Gentlemen:**

**Thank you very much for your cordial letter of February 5 and for the two volumes on "Medical and Hospital Care for Merchant Seamen" which I have received under separate cover.**

**In order to conduct the necessary studies regarding the management of the five Public Health Service General Hospitals, I have assembled a panel of distinguished citizens for this purpose. I am sure their deliberations would be helped by an opportunity to hear your point of view and profit by your experience in this area. I have asked Mr. J. Milo Anderson, who is serving as staff for this study, to contact you and arrange for you to speak with the Committee at one of their meetings. You may expect to hear from him shortly.**

**I am very appreciative of your continued interest in the problem of medical care for merchant seamen and I hope you will not hesitate to contact me if you have any further questions.**

**Yours sincerely,**

**(signed) Donald F. Hornig**

**Donald F. Hornig  
Special Assistant for  
Science and Technology**

**Mr. Earl W. Clark  
Mr. Hoyt Haddock  
Co-Directors  
Labor-Management Maritime Committee  
100 Indiana Avenue, N. W.  
Washington, D. C.**

**PSB/emu Chron  
DFH/Chron ✓  
S&T File PHS  
S&T Chron**



20906

February 17, 1968

Dear Mildred:

Several members of the staff and I read your account of the Princeton Junior Museum with considerable interest. It looks very much like one of the kinds of things people have been talking about in connection with the "supplementary educational centers and services" proposed in the new education legislation.

In case you have not come across a description of the new legislation elsewhere, I am enclosing a description of the new bill (see Title III) and a copy of the President's education message (see pages 6-7).

A member of the staff, Joe Turner, has taken the liberty of sending copies of the account to interested people in the Bureau of the Budget, the Office of Education, and the Smithsonian Institution. He asked if he might keep the newspaper clippings for a little while, but will return them.

Sincerely,

(signed) Don

Donald F. Hornig  
Director

Enclosures

Mrs. Mildred Goldberger  
The Princeton Junior Museum  
Borough Hall  
Princeton, New Jersey

✓ cc: Dr. Hornig (chron)  
JTurner/ekb  
OSE file - chron  
JT file - chron



20506

February 17, 1965

Dear Mr. Cawa:

Donald Hornig thought that this brief description of the Princeton Junior Museum might be of interest to people worrying about "supplementary education centers." It seems very much like one of the kinds of things that we have been talking about.

Mrs. Goldberger is the wife of a former colleague of Dr. Hornig's at Princeton.

Sincerely,

Joseph Turner

Enclosure

Mr. Peter Cawa  
Carnegie Corporation of New York  
389 Fifth Avenue  
New York, N. Y. 10017

Same letter to:

Miss Margaret E. Mahoney  
Carnegie Corporation of New York  
389 Fifth Avenue  
New York, N. Y.

J Turner/ekb  
OST file - chren

✓ JT file (Museums) - chren  
cc: Dr. Hornig (info copy)

February 17, 1965

**MEMORANDUM FOR**

**Mr. Valenti**

Enclosed are the oceanography speech we discussed and testimony I gave before the Congress last year. I like the testimony better than the speech. Also attached is my biography for whatever interest it may be.

**Donald F. Hornig  
Special Assistant for  
Science and Technology**

**Attachments**

**DFH/eac**

**"v"**

EXECUTIVE OFFICE OF THE PRESIDENT  
OFFICE OF SCIENCE AND TECHNOLOGY  
WASHINGTON 20506


February 17, 1965

Dear Fritz:

Donald Hornig thought that this brief description of the Princeton Junior Museum might be of interest to people worrying about "supplementary education centers." It seems very much like one of the kinds of things that we have been talking about.

Mrs. Goldberger is the wife of a former colleague of his at the University.

Sincerely,

  
Joseph Turner

Enclosure

{ cc: Hendrik D. Glendonse  
Barbara D. McNeill  
Thomas D. Clemens

Dr. Francis A. J. Ianni  
Director  
Division of Educational Research  
U. S. Office of Education  
Washington, D. C. 20202

XEROX FROM QUICK COPY

✓ Info copy for: Dr. Hornig

Note: Memo (essentially the same as letter to Dr. Ianni) also sent to:  
William B. Cannon  
Emerson J. Elliott  
Hugh F. Loweth



EXECUTIVE OFFICE OF THE PRESIDENT  
OFFICE OF SCIENCE AND TECHNOLOGY  
WASHINGTON 20506

February 17, 1965

Dear Professor Ripley:

More ideas on museums!

Donald Hornig thought that the enclosed brief description of the Princeton Junior Museum might be of interest to people worrying about "supplementary education centers." It seems very much like what some people have been talking about. It also seems to bear on some of the interests of the Smithsonian Institution.

Mrs. Goldberger is the wife of a former colleague of Dr. Hornig's at Princeton.

Sincerely,

Joseph Turner

Enclosure

cc: Dr. Philip C. Ritterbush  
Mr. Frank Taylor

Honorable S. Dillon Ripley  
Secretary  
Smithsonian Institution  
Washington, D. C. 20560

XEROX FROM QUICK COPY

✓ Info copy for: Dr. Hornig

**February 16, 1965**

**Dear Mr. Berkeley:**

**Your letter of January 25 to President Johnson raises a question which is interesting but almost impossible to answer.**

**The President's State of the Union Message to Congress and his Annual Economic Report to Congress, copies of which are enclosed, provide an extensive catalogue of what needs to be done in this country.**

**Although we are always interested in the methods used by other countries to improve their welfare and in the degree of success which they achieve, I am inclined to think that the most productive approach is to measure our own needs and respond to them directly rather than to react to the activities of other nations which may take place in a different environment and under quite different circumstances.**

**Sincerely yours,**

**(signed) Donald F. Hornig**

**Donald F. Hornig  
Special Assistant for  
Science and Technology**

**Enclosures - 2**

**Mr. Edmund C. Berkeley  
Editor  
Computers and Automation  
615 Washington Street  
Newtonville 60, Mass.**

**RBarlow:jb:2-12-65  
Bcc: RB file and chron  
S&T file and chron  
~~DM~~  
S&T Control No. 0201**

**February 16, 1965**

**Dear Mr. McClary:**

**I am happy to respond to your inquiry of January 22 on behalf of Mr. Edward P. Heller III of Waukegan. Dr. Edward Weisk, Jr., to whom your letter was addressed, no longer works with the Federal Council for Science and Technology; he is now serving the Congress as Chief of the Science Policy Research Division, Library of Congress.**

**The Office of Science and Technology, which provides the staff support for the Federal Council, has in the past on two occasions employed students during the summer months. In each case, however, this has been a graduate student, usually a Ph.D. candidate with a strong background in the natural sciences. If a student is employed here during the forthcoming summer, I would expect that this pattern would probably be retained.**

**Mr. Heller sounds like a very able and worthy young man and I hope that he will be able to find appropriate employment this summer.**

**Sincerely yours,**

**(signed) Donald F. Hornig**

**Donald F. Hornig  
Director, Office of Science & Technology, and  
Chairman, Federal Council for Science & Technology**

**The Honorable Robert McClary  
U.S. House of Representatives  
Washington, D. C.**

**RBarlow:jh:2-12/15-65  
Bcc: RB file and chron  
S&T file and chron**

**DFH chron  
WH (2)**

**S&T Cont. No. 0120**



February 16, 1965

**MEMORANDUM FOR: Francis Keppel  
Leland Haworth**

**SUBJECT: New Members for the Panel on Educational Research  
and Development**

The Panel on Educational Research and Development has agreed, as described in the minutes of the January 25-26 meeting, to my suggestion that it devote a portion of its work to the problems of higher education. Jervold Zacharias and I feel that it would be appropriate, accordingly, to expand the membership.

On the basis of informal discussions with you, I have already written to John Gardner asking him if he would join the Panel.

In addition, we should like to ask the following people:

Walter H. Stockmayer	Dept. of Chemistry	Dartmouth
Colin S. Pittendrigh	Dept. of Biology	Princeton
Charles P. Slichter	Dept. of Physics	U. of Illinois
Andrew M. Gleason	Dept. of Mathematics	Harvard
Jerome B. Wiesner	Dean of Science	M. I. T.

Earlier we had been considering adding Gresham Sykes, David Riesman, and Noah Greenberg to the Panel. Dr. Sykes has agreed to join the Panel. Dr. Riesman is presently in Europe and we have not asked him. Noah Greenberg will not be asked to join the Panel.

(signed) Don

Donald F. Hornig

JTurner/ekb  
OST file - chron  
JT file (PERD Members) - chron

✓ cc: Dr. Hornig (chron)

**February 16, 1965**

**Dear Mr. Blackman:**

**The President has brought your letter of February 4th to my attention. I was pleased to learn of the Society's efforts in behalf of our young people through scholarships, assistance in high school guidance activities, and active participation in other important education programs.**

**Accident prevention is a new frontier for scientific inquiry and a critical area for the application of technology. Contributions such as yours are to be highly commended as they will assist in developing and emphasizing this essential requirement.**

**With all best wishes,**

**Sincerely,**

**(Signed) Donald F. Hornig**

**Donald F. Hornig  
Director**

**Mr. A.C. Blackman  
Managing Editor  
American Society of Safety Engineers  
5 North Wabash Avenue  
Suite 1705  
Chicago, Illinois 60602**

**WLHooper:gl  
DISTRIBUTION:  
1-addressee  
2-Hornig chron file  
3-OST chron  
4-OST subj  
5-6-WLHooper files**

**OST CONTROL #0210**

21  
**February 16, 1965**

**MEMORANDUM FOR**

**Mr. Lee C. White  
The White House**

**A White House security clearance for Dr. Nathan W. Snyder has now been in process at OST's request since November 2, 1964. Dr. Snyder is on the faculty at the Georgia Institute of Technology, Atlanta, Georgia. We regard his advice on matters relating to space sciences as very valuable to the Office and would like to clarify his status as soon as this can reasonably be done.**

**(signed) Donald F. Hornig**

**Donald F. Hornig  
Director**

**RBarlow:jb:2-16-65**

**Ecc: RB-c**

**VG**

**DFH**



February 15, 1965

MEMORANDUM FOR THE OST STAFF

We are currently receiving quite a lot of proposed legislation for review and comments. In general, the incoming correspondence will be referred to the appropriate staff member for comments or to draft an appropriate reply.

Will you provide Steve Rivkin with a copy of your comments and/or proposed response so that he can act as a clearinghouse?

However, in no case should any comments purporting to reflect an OST position be sent out other than over the signature of Dr. MacLeod or myself, unless prior approval has been obtained.

Donald F. Hornig

**February 15, 1965**

**Dear Mr. Turner:**

**Thank you for your letter of February 9th, inviting me to attend the National Space Club luncheon to commemorate the first orbital space flight of the United States on February 19th. I would very much like to be with you, but unfortunately I have a long-standing engagement for luncheon on the 19th which it would be impossible for me to break.**

**Sincerely,**

**Donald F. Hornig  
Director**

**Mr. Thomas Turner  
President  
National Space Club  
1629 K Street, N. W.  
Washington, D. C. 20006**

**eac**

**February 15, 1965**

**Dear Professor Eringen:**

**Thank you for your letter of January 21st, inviting me to address the conference on the mechanics and chemistry of solid propellants being held on April 20th at Purdue University. Unfortunately, I have to be in Washington on April 20th and 21st for meetings of the President's Science Advisory Committee and so it will not be possible for me to be with you. Please accept my best wishes for the success of the conference.**

**Sincerely,**

**Donald F. Hornig  
Special Assistant for  
Science and Technology**

**Professor A. C. Eringen  
School of Aeronautics, Astronautics  
and Engineering Sciences  
Purdue University  
Lafayette, Indiana 47907**

**eac speech declines "P"**



**February 15, 1965**

**Dear Mr. Scanlin:**

**On January 13 I advised you that I had asked the National Science Foundation for a review of your "Report on Artificially Induced Rainfall." Subsequently your "Proposed Study of Meteorological Processes" was referred to them to supplement the earlier report.**

**I now have their reply which is quite pessimistic about your process. They note, for example, that the hydrogen you released amounts to less than 1/10,000 per cent increase in the hydrogen content of a cubic mile of air. For the larger volume represented by the eastern two-thirds of the country the percentage increase would be infinitesimal--less even than the hydrogen released by weather balloons, industry and chemical laboratories.**

**It is difficult to draw reliable conclusions from data on two series of events which occur frequently and yet have no clear cause and effect relationship. Earthquakes occur almost every day somewhere in the world. Tropical storms form every few days during the spring and summer and intense rainfalls occur quite frequently throughout the year. Thus, a tropical storm or intense rainfall inevitably follows within a few days after an earthquake somewhere. This time sequence does not prove a relationship, however. A similar problem**

exists with respect to your rainmaking experiments. The occurrence of rain after your hydrogen releases does not prove cause and effect. The rain might well have occurred even though you had made no releases.

On the basis of this evaluation, I do not feel that a Federal program to test your theory is warranted.

A copy of the National Science Foundation's comments is enclosed.

Sincerely,

(signed) Donald F. Hornig

Donald F. Hornig  
Director

Enclosures:

1. Comments
2. Proposed study
3. Report

Mr. Thomas Scanlin  
63 Roundwood Lane  
Levittown, Pennsylvania

RKLinsley, Jr.:paw

cc: Dr. Hornig - Chron ✓  
Mr. Linsley - Chron  
Mr. Linsley - Subject  
S&T - Chron  
S&T - Subject



20506

February 18, 1965

Dear John:

This is an invitation from Lee Haworth, Frank Keppel and myself, to join the Panel on Educational Research and Development, which reports to the three of us and is under the chairmanship of Jerrold Zacharias. Since its establishment late in 1961, the Panel has been concentrating on elementary and secondary education, but the Panel now plans to devote considerable time to higher education and is seeking to expand its membership accordingly.

The chief function of the Panel has been to identify research and development programs in education that might prove of major significance. Responsibility for accepting the Panel's advice rests with the agencies. An account of the Panel's work is offered in the enclosed report, Innovation and Experiment in Education. Also enclosed by way of background are the minutes of our most recent meeting, January 25-26, plus Appendices A, B, and C.

The present membership of the Panel is given on pages 61-62 of the report. The persons besides yourself that we are seeking to add to the Panel are: Walter Stockmayer, Dartmouth; Colin Pittendrigh, Princeton University; Charles Slichter, University of Illinois; Andrew Gleason, Harvard University; and Jerome B. Wiesner, M.I.T. Dr. Wiesner has already agreed to accept membership.

We would hope that you could come to the last meeting of the Panel for this academic year, May 24-25. Next academic year the Panel probably will hold five two-day meetings. The Office of Science and Technology is able to provide transportation, a per diem of \$16.00 a day for time spent away from home, and a consultant fee of \$75.00 a day for time spent at meetings.

JTurner:kbb

OST file - chron

ST file (Panel Membership) - chron

cc:Dr. Hornig (chron file)



**Our society is evolving, which means that our very notions about the aims of education and the role of the Federal Government in the support of education must also evolve. The Federal Government needs the advice of persons who have been thinking about the problems of education. I hope that you will accept our invitation to join the Panel on Educational Research and Development.**

**Sincerely,**

(signed) Don

**Donald F. Hornig  
Director**

**Enclosures**

**Mr. John W. Gardner  
President  
Carnegie Corporation of New York  
589 Fifth Avenue  
New York, N. Y. 10017**

**15 February 1966**

**Dear Mr. Auerbach:**

**Your letter of January 11 to the President suggested the possibility of his addressing the 1966 meeting of the International Federation for Information Processing.**

**While the subject area is attractive in connection with the Administration's emphasis on education and science and technology, the President's schedule for May is unfortunately too crowded for him to accept the invitation to give a public address.**

**As Mr. Kees discussed with you over the phone, a message from the President to the Federation, in the nature of a welcome to the participants and endorsement of the meeting's objectives may reasonably be assumed.**

**Cordially,**

**(signed) Donald F. Hornig**

**Donald F. Hornig  
Special Assistant for  
Science and Technology**

**Isaac L. Auerbach, President  
The Auerbach Corporation  
1634 Arch Street  
Philadelphia, Pennsylvania 19103**

**S&T 0314**

**WTK:las WTK file-chron; OST file-chron  
D. F. Hornig; WM-gr-ybwh**

15 February 1966

Dear Mannis:

Your letters of January 14 and 20 suggested the possibility of the President addressing the 1966 meeting of the International Federation for Information Processing.

While the subject area is attractive in connection with the Administration's emphasis on education and science and technology, the President's schedule for May is unfortunately too crowded for him to accept the invitation to give a public address.

Bill Katz has talked to Ascherbach about the alternate possibility of a short message from the President to the Federation, in the nature of a welcome to the participants and an endorsement of the meeting's objectives. Ascherbach agreed that such a message would be most acceptable in the event the President could not appear personally, and we feel that it may be reasonably assumed.

Sincerely,

(signed) Don

Donald F. Hornig  
Special Assistant for  
Science and Technology

Dr. E. R. Fiere  
Vice President and Group Executive  
International Business Machines Corp.  
Armonk, New York 10504

S&T 0214 WTK:las

OST file-chron; WTK file-chron; D.F. Hornig

WH-yi-gr-wh



15 February 1965

Dear Mr. Hear:

Your suggestion to the President that a Presidential message be prepared for a special supplement in the New York Sunday Times, May 23, 1965, on the information revolution, was considered, along with a request from Mr. Auerbach that the President give an address opening the International Federation for Information Processing conference that week.

We have been informed that, due to extremely heavy commitments during that period, the President will be unable to contribute to the special supplement.

In spite of our negative reply with regard to the President's participation, we wish your activities every success.

Cordially,

(signed) Donald F. Hornig

Donald F. Hornig  
Special Assistant for  
Science and Technology

Mr. Frederick M. Hear  
International Federation for  
Information Processing  
345 East 47th Street  
New York, New York 10017

S&T #0214

WTK:las

OST file-chron

WTKfile-chron

WH: gr-yi-wh

✓ D. F. Hornig

February 13, 1965

Dear Commissioner Brenner:

Thank you for your letter of January 25th, inviting me to attend the Conference on the Patent System to be held on March 1st. I would very much like to attend the Conference, and while my schedule is such that it will not be possible for me to attend for the entire day, I hope to be present for part of the discussion.

Sincerely,

(signed) Donald F. Hornig

Donald F. Hornig  
Director

Honorable Edward J. Brenner  
Commissioner of Patents  
U. S. Department of Commerce  
Washington, D. C. 20231

eac

DFH Chron. & File  
S&T Chron. & File

Re S&T No. ~~XXXX~~ 0153

February 13, 1965

Dear Mrs. Warshauer:

As suggested in Dr. Hershey's letter of February 8th, Dr. Hornig asked me to give you some possible dates for a meeting with your Executive Committee. In April he is free on the 26th, and in May on the 3rd and 24th. I think these dates avoid the problem of the third Monday in each month which Dr. Hershey mentioned.

I'll hold the time on his calendar until we hear from you.

Sincerely,

Eleanor A. Connors (Miss)  
Secretary to Dr. Hornig

Mrs. Marie Warshauer  
Secretary to Dr. Robert L. Hershey  
E. I. Du Pont de Nemours & Company  
Wilmington 98, Delaware

eac



**February 12, 1963**

**Dear Mr. Hall:**

**I am sorry for the delay in replying to your letter of January 14th, however, I have been out of the country for a short time and have just begun to get at the correspondence which accumulated during my absence.**

**I was pleased to hear of the activities of the Commission on Engineering Education and would very much like to attend your meeting on February 27th. Unfortunately, I have a conference in the Mid-West on the 26th and will not be back in Washington until late on the 27th, so it will not be possible for me to be present.**

**Sincerely,**

**Donald F. Hornig  
Director**

**Mr. Newman A. Hall  
Executive Director  
Commission on Engineering Education  
1785 Massachusetts Avenue, N. W.  
Washington, D. C. 20036**

**eac**

**invitations regretted**

February 13, 1965

Dear Jim:

I'm sorry for the delay in replying to your letter of January 18th, requesting me to speak on March 2nd at the dinner held in connection with the Second International Symposium in Williamsburg. I have talked with Dr. Kidd about the matter and since my schedule is extremely full, it has been decided that Dr. MacLeod will deliver the speech in my place. I'm sorry I can't get there, but I know Colin will do an excellent job.

Sincerely,

Donald F. Hornig  
Director

Dr. James A. Shannon  
Director  
National Institutes of Health  
Bethesda, Maryland 20014

eac

EXECUTIVE OFFICE OF THE PRESIDENT  
OFFICE OF SCIENCE AND TECHNOLOGY  
WASHINGTON

February 12, 1965

*copy given to  
POPP Feb 12  
1965*

MEMORANDUM FOR : J.F. C. Hyde, Jr.  
Office of the Assistant Director  
for Legislative Reference  
Bureau of the Budget

I should like to offer further comment, beyond my letter to you of February 2, 1965, on the draft bill "to authorize the Secretary of the Interior to conduct a program of research, study, and surveys of the natural environmental systems of the United States." Upon further reflection, I believe that we could go along with this bill at this time without waiting for the results of the OST-BoB studies requested by the President in his Message on Natural Beauty.

*This document  
should be  
sent to  
POPP*

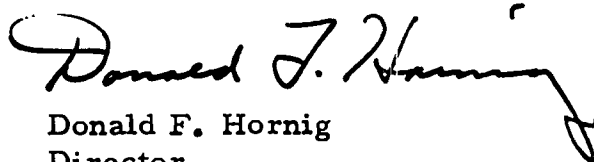
These studies will deal with the present organization of pollution control and research activities, and with future efforts to study natural plant and animal communities and their interaction with man and his activities. I see no reason at this time to delay going ahead with this bill until such studies are completed. I would recommend, however, that the title of the bill be changed to refer to Natural Ecological Systems, to avoid confusion with the use of the term "Environmental" by other Agencies.

Additionally, I would like to offer comments on two other draft bills included in the submission by Secretary Udall:-

1. With respect to the bill on strip mining, it is noted that the current Appalachia Bill authorizes a nationwide study of strip mine reclamation needs. Thus, the draft bill appears to be premature.



2. Concerning the draft bill on acid mine drainage, the control of acid mine drainage is currently vested in the Department of Health, Education & Welfare, with a cooperative program between Interior and HEW already under way. Furthermore, it is my understanding that a great deal is yet to be learned about the process of acid formation in mines before a full-scale control program is undertaken. One might well question the present organizational arrangement, and perhaps the bill is a suitable vehicle for doing so.

  
Donald F. Hornig  
Director

February 12, 1965

MEMORANDUM FOR

THE PRESIDENT

A problem is developing in the Congress concerning the handling of rights to inventions made under government research and development contracts. It centers on an amendment to a series of bills on research, introduced by Senator Russell Long, that would require all resulting patents to be made freely available to the general public.

Although Senator Long's amendment superficially appears to have merit, it fails to take account of the need for agency flexibility in attracting competent contractors, and in inducing industry to make the substantial additional investments needed to bring an invention from the point of discovery to public use.

At issue is whether the government-wide patent policy, issued by President Kennedy in 1963, is the Administration's policy. This policy was the result of some 18 months of study by 20 agencies. It provides guidelines for the allocation of rights to inventions, recognizing that no single assumption of title as proposed by Senator Long can adequately promote the public interest. It would normally provide for government title-taking in the research areas covered by the Long amendment, but leaves discretionary authority in agency hands where needed to achieve the agency's mission. It was widely hailed by industry as a first step in pulling together the many agency patent policies in a reasonable way.

Senator Long has undertaken a systematic campaign to add his amendment to all bills on Federally-financed research, including bills on coal and saline water research passed by the Congress. However, the House rejected it in the Clean Air and Mass Transit

**Acts.** The Appalachia and Water Pollution (Muskie) bills have passed the Senate with the amendment. There are clear indications that Senator Long will try to affix his amendment to all of your priority legislative proposals dealing with research.

Not all of the bills, individually, may pose a serious problem--other than the diversionary controversy generated by the amendment. But if the Congress wishes to legislate on government patent policy, I feel that it should face the issue directly, with necessary hearings and deliberation to determine where the proper balance lies. Perhaps Senator Long could be persuaded to take this positive approach and avoid the piecemeal effort where there is little opportunity to debate the central issues which go well beyond the specific bills involved.

I would appreciate an opportunity to talk with you about this situation, to explain the current Policy Statement (attached), and to receive your advice on whether:

- a. the 1963 Statement represents your views; and if so,
- b. you would authorize me and/or the Bureau of the Budget to oppose the language parallel to the Long amendment which has been included in the House version of the Muskie Bill, scheduled for hearings the week of February 15th;
- c. you wish to write to the Congress in support of the policy in the 1963 Statement, and encouraging the enactment of general legislation as an alternative to restrictive amendments; or
- d. you would prefer to discuss your views with the House and Senate leadership.

Donald F. Hornig

Attachment

(current Policy Statement)

DZBeckler:gpw

cc: S&T Files; S&T Chron; DFH Chron; DZB Chron



**February 12, 1965**

**Dear Mr. van de Velde:**

**In connection with the 1965 Rockefeller Public Service Awards, I should like formally to re-nominate Mr. David Z. Beckler in the category of Administration.**

**Last year extensive information was supplied to you regarding Mr. Beckler's career and contributions and I do not believe that any events have occurred in the intervening year which would alter that submission substantially.**

**Mr. Beckler is an outstanding public servant of the highest competence, well worthy of so distinguished an honor as the Rockefeller Award.**

**Sincerely yours,**

**(Signed) Donald F. Hornig**

**Donald F. Hornig  
Director**

**Mr. R. W. van de Velde  
Faculty Secretary  
Rockefeller Public Service Awards  
Princeton University  
Princeton, New Jersey**

**RBarlow/jh:2-11-65  
Bcc: S&T file and chron  
RB file and chron  
Dr. MacLeod  
Mr. Beckler  
→DPH chron**

**February 12, 1965**

**Dear Mr. Manning:**

**I was most interested in your letter of February 5. The possible achievements both in the utilization of wood resources and pest control would be of great importance. I am sending a copy of your letter relative to forest products to Mr. Herbert Fleischer, Chief of the Forest Products Division of the Forest Service for comment and advice. It is possible that his office will contact you for further information. In any case, I will write you again after I have heard from him.**

**With respect to GPX-1700, I suggest that you send a copy of the brochure to the following:**

**Director, Office of Saline Water  
Department of the Interior**

**Director, Bureau of Mines  
Department of the Interior**

**Deputy Assistant Secretary of  
Defense for Procurement  
Department of Defense**

**Commissioner, Federal Supply Service  
General Services Administration**

All of the above offices are in Washington, D. C. All are concerned in some way with problems of corrosion control and would be interested in evaluating GPX-1700 for their uses.

Sincerely,

(signed) Donald F. Hornig

Donald F. Hornig  
Director

cc: Mr. Herbert Fleischer

Mr. John A. Manning  
Rust Engineering & Research Company  
P. O. Box 173  
Dalton, Massachusetts 01226

cc: Dr. Hornig - Chron ✓  
Mr. Linsley - Chron  
Mr. Linsley - Subject  
S&T Files - Chron  
S&T Files - Subject

RKLinsley, Jr. :paw



**February 12, 1965**

**MEMORANDUM FOR**

**Mr. Valenti**

**May I have an appointment with the President as soon as possible in order to explain to him the patent problem which has developed in the Congress and to obtain his decision on the questions raised in the attached memorandum.**

**Donald F. Hornig  
Special Assistant for  
Science and Technology**

**Attachment:  
Memo to President**

**DFH/eac**

February 12, 1965

Dear Mr. Robbins:

Thank you for your letter of February 5th, inviting me to attend a seminar sponsored by the Atomic Industrial Forum on March 8th. I am very much interested in the topic to be discussed and would certainly like to attend. Unfortunately, however, I have an out-of-town engagement for that date, and will not be able to be with you.

Since the subject is one of interest to my office, I would like to suggest that you might wish to invite Mr. Robert Barlow of my staff to attend the seminar on my behalf. Mr. Barlow has had a great deal of experience in field of atomic energy matters, as you may be aware.

Sincerely,

Donald F. Hornig  
Director

Mr. Charles Robbins  
Executive Manager  
Atomic Industrial Forum Inc.  
850 Third Avenue  
New York, New York 10022

eac

cc: Mr. Barlow with incoming

February 12, 1965

Dear Mr. Pingree:

Pursuant to our telephone conversation, I would like to confirm the appointment we arranged for you and your associates to meet with Dr. Hornig on March 2nd at 10:00 a.m. We are located in Room 200 of the Executive Offices Building at 17th and Pennsylvania Avenue, N. W., Washington.

Sincerely,

E. A. Connors, Secretary to  
Donald F. Hornig

Mr. Harold M. Pingree, Jr.  
NBC Film  
990 Winchester Avenue  
Lincoln Park, Michigan



**February 12, 1965**

**Dear Senator Magnuson:**

**It gives me great pleasure to transmit the  
attached budget request for the Office of Science  
and Technology for Fiscal Year 1966.**

**Sincerely,**

**(signed) Donald F. Hornig**

**Donald F. Hornig  
Director**

**Attachment  
(12 copies)**

**The Honorable Warren Magnuson  
Chairman  
Subcommittee on Independent Offices  
Committee on Appropriations  
United States Senate  
Washington, D. C.**

**RBarlow:jbl-14/2-12-65  
Bcc: RB file and chron  
S&T file and chron  
~~DPH~~  
MLC**

~~CONFIDENTIAL~~

February 11, 1965

Dear Jim:

After you indicated yesterday that you had not been previously aware of my views and those of the Space Technology Panel concerning the SNAP 8 program, I checked and found that on December 18 I sent the report to you, to Glenn Seaborg and to Harold Brown in the hope that the Panel's views and mine would be understood by all the executive agencies concerned. For your convenience, I enclose another copy of the Panel report.

As you see by reading the recommendations on SNAP 8, your present budget position is not necessarily in conflict with the Panel views, provided that you are able to find a way to complete the 10,000 hour test of the power conversion system at Aerojet with FY 65 funds. If you can do this, the power conversion system portion of the SNAP 8 program could be properly described as "completed" after these tests rather than "cancelled." It would then seem that although an argument might be raised about the wisdom of not going further with the program, the logic behind the program plan could not be seriously questioned.

Please let me know if I can supply any additional information that may be helpful to you.

Sincerely,

(Signed) Don

Donald F. Hornig  
Director

The Honorable James E. Webb  
Administrator  
National Aeronautics and Space  
Administration  
Washington, D. C.

When separated from enclosures  
handle this document as *unclassified*.

Enclosure OS&T Control No. 1810 copy #1B  
DFH Chron, DHS Chron, DHS Subj, S&T Chron, S&T Subj  
DFH/DHS:hk

~~CONFIDENTIAL~~

20506

February 11, 1965

MEMORANDUM FOR

Mr. Elmer Staats, Deputy Director, Bureau of the Budget

SUBJECT: Westlands Irrigation Project

Mr. Linsley has reviewed with me the technical problems associated with the Westlands Irrigation Project, and it appears to us that a much more comprehensive analysis of the total problem and its possible solutions is called for before any large commitment is made which might establish a precedent for future expenditures.

The basic problem which will face us is that the long term build-up of nutrients in the delta of the San Joaquin and Sacramento Rivers and in San Francisco Bay can be expected eventually to lead to serious algae growths such as those which now cover some 2600 square miles of Lake Erie. Nutrient supported algae growth produces problems of odor, oxygen depletion and sometimes physical obstruction of hydraulic works, as well as being aesthetically offensive. The water quality standards proposed for the drainage from the Westlands Project are reasonable enough on a short term basis, but, according to the map presented by Mr. Fisher, most of the channels on the Southern Delta already show excessive nutrient loads during the summer and fall. As irrigation expands, and particularly as the Westlands drainage is added, the situation can be expected to worsen and extend into the Bay.

The technical facts appear to be these. About 1,000,000 acre-feet per year of water will ultimately be used in the Westlands Project, and assuming one-third of that to enter the drainage system, there would be an average flow of 1,000 acre-feet per day (500 cubic feet per second) into the Delta. This can be compared with the present



fresh water outflow into the Bay which drops to about 3,000 cubic feet per second in the late summer and fall. If all of this water carried no nutrient flow whatever, the drainage flow would have to carry less than 18 ppm of nitrates and phosphates to meet Mr. Fisher's standards for the Bay. It seems almost impossible that a figure this low could be achieved. Dilution by other flows in the Bay, such as tides, would diminish the problem, but, because the tides do not flush the Bay completely, there would be an accumulation near the Delta which would to a considerable extent undo this effect. It seems quite likely, therefore, that the standard on the amount of nutrients would be exceeded fairly soon, especially since other new irrigation projects will be coming in as well. For this reason, we have serious reservations concerning Mr. Fisher's proposed solution as a basis for a long run commitment.

At the present time it is not clear whether any of the alternatives suggested by Mr. Fisher would be satisfactory. They include:

1. Extend the drain. The solution is feasible but is likely to be costly. It would either run into more valuable land and require a tunnel if it passed Carquinez Straits, or it would have to be laid out into the Bay. In that case, it would have to be at least 12 feet in diameter and would need to be dredged into the bottom to avoid problems with navigation. In any case, it might not solve the problem unless the pipe were carried right through the Golden Gate.

2. Dilute the wastes. This might be the lowest cost solution, but it would require the use of several hundred thousand acre-feet of dilution water. It would be strongly resisted since the goal of the California Water Plan and the Central Valley Project is to reduce to a minimum the fresh water outflow to the sea.

3. Desalt the wastes. This is completely uneconomic. At 10¢/1000 gallons--and there is no prospect of getting the costs that low--it would cost \$32.50 an acre to remove the salts. This is about four times the price Westlands would pay for its water and 60 times the price it would pay for drainage.

4. Tunnel through to the ocean near Monterey. This is feasible and possibly the only certain solution. However, it would be very costly.

5. Evaporate the waste. Assuming that of the 300,000 acre-feet per year, 200,000 could be discharged during seasons when there is adequate fresh water dilution, this would leave 100,000 acre-feet for evaporation. In that case, at least 25,000 acres of level land would be required for evaporation ponds, containing dikes would have to be constructed, and the whole area might have to be sealed to avoid contamination of the ground water. This, too, would be costly.

It appears, therefore, that all of the possible solutions would be expensive. Mr. Fisher has suggested that some cities would want to share the cost. It seems unlikely that cities would share any significant part of the cost, since it would take a population of two to three million to produce a volume of waste water equal to that from Westlands. In any case, municipal waste is easier to treat and contains far less plant nutrients than the Westlands water.

If the Westlands project were the only source of troublesome drainage, the problem would be simplified. The East Side project, the Glenn-Colusa area, large acreages of State projects, and even some private development, can be anticipated. The effect is two-edged--increased pollutants in the return flow and decreased fresh water outflow to the Bay. A comprehensive analysis of the total problem and its possible solutions would seem prudent before a commitment is made which might establish a precedent for some extremely large future expenditures.

Altogether, it would seem extremely unwise to go ahead with the Westlands Project until some of these questions have been clarified.

(signed) Donald F. Hornig

Donald F. Hornig  
Director

RKLinsley/ekb  
OST file - chron  
BL file - chron  
✓cc:Dr. Hornig chron



February 11, 1965

To: Secretary Udall

From: Donald F. Hornig

I have looked over the material on Dr. Bates. It is obvious that he has sound qualifications in engineering and administration and, although none of the people here know him personally, I would anticipate that he would make an excellent Science Adviser.

Attachment:  
Interior Memo on possible  
Science Advisers

DFH/ea c

Re S&T No. 213

DFH Chron. ✓  
S&T Files  
S&T Chron.



February 11, 1965

Dear Mr. Williamson:

Thank you for your letter of January 26th.  
Unless something unforeseen arises, I shall plan  
to make my manuscript available prior to the  
meeting of the National Science Teachers  
Association so that it can be seen by the interrogators.

Sincerely,

Donald F. Hernig  
Special Assistant for  
Science and Technology

Mr. Stanley E. Williamson  
Department of Science Education  
Oregon State University  
Cervallis, Oregon 97331

DFH/eac

tickle March 1

**February 11, 1965**

**MEMORANDUM FOR**

**Mr. Busby**

**Re: Possible Approach to NICB Speech**

**1. The achievement of our national goals**

- a) the elimination of poverty**
- b) improving the quality of life for all Americans**

**will require a constant advance in productivity as well as the creation of new technology to satisfy unmet needs .**

**2. At the same time we must conquer the problems of environmental pollution which accompany increased industrialization and urbanization.**

**3. In meeting these goals government and industry are partners. Some of them are clearly the major responsibility of industry--others are necessary for the national good but are not profitable, so they must be undertaken by the government.**

**4. The Government is attempting to create conditions in which progress can be achieved most rapidly by the private sector without interference.**

**5. Announce a Presidential Commission on the patent system.**

**6. We will initiate steps to establish an international patent system.**

**7. We will take steps within the government to use the purchasing power of the government to provide incentives to invention and innovation.**

**Some of these points, as well as still more, are detailed in the attached memorandum. If the general approach looks at all promising, I can develop them further.**

**DFH;eac**  **DFH Chron & File**  
**S&T Chron & File**  
**cc: Mr. Beckler**

**Donald F. Hornig**  
**Special Assistant for**  
**Science and Technology**

**Re S&T 0195**

**Encl.**

7  
**February 10, 1965**

**Dear Dr. Adelman:**

**Thank you for the letter of January 29, 1965 in which you describe the characteristics, and possible missions, of Saturn IB class space vehicles augmented by 120-inch solid rocket motors in a "Stage Zero" configuration.**

**Your proposal appears feasible and quite interesting technically. However, as you doubtless realize, estimation of its prospects in the space program is a complex problem involving elements many of which cannot be defined for some time. Accordingly, it is not now possible for me to comment on the current or future utility of the vehicle in the national space program.**

**I appreciate your bringing this concept to my attention, and hope that you will continue to keep me advised of new developments by your organization in this and other related areas.**

**Sincerely,**

**(signed) Donald F. Hornig**

**Donald F. Hornig  
Director**

**Dr. Barnet R. Adelman  
Division President  
United Technology Center  
A Division of United Aircraft Corporation  
Sunnyvale, California 94088**

**DFH Chron**

**NEG Chron, NEG Subj, S&T Chron, S&T Subj      NEG:hk**



**February 10, 1965**

**To: Larry O'Brien**

**From: D. F. Hornig**

**Per your memo of February 9th, I am  
attaching my letter to Dr. Cornette for  
your transmittal to Congressman Rogers.**

**Attachment**

**DFH/eac**

**DFH Chron.**

**S&T Files & Chron.**

**DZR Chron. & Files**

**Re S&T No. 148**

10 February 1965

Dear President Cornette:

The President has asked me to reply to your letter of January 19, sent here by Congressman Rogers on January 26, which discusses in some detail your application for a science development grant with the National Science Foundation.

Your letter raises some very important policy issues which affect not only your university, but also other members of the American Association of State Colleges and Universities. I would be very happy to discuss these issues with you, Dr. Smith, and Congressman Rogers at our mutual convenience, and I have already so informed Congressman Rogers.

As you know, the President is interested in improving the education of all Americans at all levels. The Science Development program of the National Science Foundation is one of these programs, and I believe that it is being administered by the National Science Board and the Foundation as fairly as they can.

Nevertheless, the problems that you raise are very significant, and go to the heart of the determination of the criteria and the goals of programs aimed at improving the quality of science education in this nation.

I am looking forward to meeting you in the near future.

Sincerely,

(signed) Donald F. Hornig

Donald F. Hornig  
Special Assistant  
for Science and Technology

Dr. James P. Cornette  
President  
West Texas State University  
Canyon, Texas 79016

DZRobinson:hh

S&T

S&T

DFH

DZR

DZR

WH

S&T 0148

cc: Honorable Walter Rogers, HR

**February 10, 1965**

**Dear Dr. Brady:**

**We appreciate your letter of January 18 and reports on the progress made by the Department of Agriculture in response to the PSAC Report, "Science and Agriculture." The Department certainly is to be commended for the energetic way in which they have implemented recommendations of the Report. It was thoughtful of you to report to us on your progress. We will find the information you provide useful in illustrating one of the roles our Office plays.**

**We certainly appreciate your Report.**

**Sincerely yours,**

**(signed) Donald F. Hornig**

**Donald F. Hornig  
Director**

**Dr. N. C. Brady  
Director of Science and  
Education  
Department of Agriculture  
Washington, D. C.**

**JLB/shb/emu Chron  
DFH/Chron  
S&T File Agriculture  
S&T Chron**

**S&T Control Number 110**



**February 18, 1965**

**MEMORANDUM FOR**

**Mr. Frederick L. Holborn  
Special Assistant in the White House**

Enclosed for the signature of the President are five letters to the recipients proposed by the AEC for the 1965 E. O. Lawrence Award. Also enclosed is the transmittal letter to the President from Glenn Seaborg.

As you know, we are trying to think through the President's role in the entire awards system, but until this has been accomplished, I think it best to proceed the way we have done in the past. Presidential signature of the five letters is one way to provide the "approval of the President" required by the Atomic Energy Act.

(signed) Donald F. Hornig

**Donald F. Hornig  
Special Assistant for  
Science and Technology**

**Enclosures**

**RBarlow:jb:2-9-65  
Bcc: RB file and chron  
S&T file and chron  
DFH**

February 10, 1965

MEMORANDUM FOR

Dr. McRae

I think it would be most useful at PSAC to discuss the DOD review system and the relation of PSAC activities to the DOD.

One question you might think about is, who is to review PSAC's inventions; after all, invention is perhaps its most important activity, or at least stimulation of action. I am not being facetious but eventually the reviewing process runs out of gas.

Donald F. Hornig

February 10, 1965

MEMORANDUM FOR

Dr. MacLeod

Shell Research Labs has announced the development of a chemical (composition unknown to me) which at concentrations of 25 parts per hundred million parts of water is found to be highly effective for killing fresh water snails. It is said to be 5 to 10 times more effective than any other known in recent tests in Egypt. Does this indicate that a possible breakthrough is in process on schistosomiasis?

D. F. Hornig



20806

February 10, 1965

Dear Mr. Chairman:

This will acknowledge receipt of your letter of January 28 requesting my comments on H. R. 3419, to exempt oceanographic research vessels from the application of certain vessel inspection laws, and for other purposes. Our views will be transmitted in the near future.

Sincerely yours,

(signed) Donald F. Hornig

Donald F. Hornig  
Director

Honorable Herbert C. Bonner  
Chairman  
Committee on Merchant Marine  
and Fisheries  
House of Representatives  
Washington, D. C.

CVKidd:jan

cc: White House Files (2)

Jean Lewis

DFH chron

S&T file & chron

CVK file & chron

S&T Cont. No. 0152

February 9, 1966

MEMORANDUM FOR : Kermit Gordon, Director  
Bureau of the Budget

SUBJECT : Grade Controls - GS-14 and Above

As you know, the prospect of operating within BoB staffing targets at Grades 14 through 18 has generated considerable concern within science-oriented Agencies and Federal laboratories. In order to minimize the adverse effect of needed staffing controls on the performance of important scientific and technical tasks within the Government, I believe it is highly desirable to maintain close cooperation between OST and BoB in the formulation, administration and assessment of these controls applied to scientific personnel.

I have three specific suggestions in mind:-

First, I should like to propose that OST be given an opportunity to review formal guidelines for the administration of grade controls, in advance of their issue by BoB, whenever such controls are expected to affect scientific and technical activities. I believe that this office can provide a useful service by examining and commenting upon proposed criteria for adjustment of staffing allowances and additional review mechanisms to be established, if any.

Secondly, I strongly suggest that arrangements be made for the joint OST-BoB review of controls established for science-oriented Agencies in those cases where further consideration is requested by such Agencies. In particular, it is proposed that OST be represented whenever possible at Executive Office meetings in which Agency representatives are expected to discuss their requirements for additional high-level scientists and engineers. I am prepared to make a

member of my staff available to follow developments, and I would expect to give personal attention to the problems at issue.

Finally, it would be most helpful if I could be provided in the next few days with a status report on DoD actions taken with respect to R&D-performing Agencies and Bureaus. In addition to being furnished information regarding numbers of top-level positions allowed and ceilings established for average salaries, I would also like to become fully acquainted with the methods used to determine the actual allowances applied to R&D activities.

(signed) Don

Donald F. Hornig  
*Director*

WLMooper:gl  
DISTRIBUTION:  
1-addressee  
2-Dr. Astin, NBS  
3-Dr. Kidd  
4-Hornig chron file  
5-6 - OST chron & subj files  
7-8 - WLMooper followup  
9-10 - WLM files



February 9, 1965

Dear Paul:

Please accept my apologies for not having answered your letter sooner. When I returned from my Russian trip, I immediately became involved in the budget process, then came the Inauguration, and then a week's trip to Hawaii (business, unfortunately), so that the pile of mail got deeper and deeper.

I'd like very much to talk to the people at the University, but I'm afraid I haven't any idea when it could be done. It's practically impossible to plan ahead in this job, and I've already had the very embarrassing experience of having to cancel out at the last minute on some out of town talks, all of which has made me very hesitant about accepting invitations. Hopefully, the situation will improve, but not, I'm afraid, in the immediate future.

With best regards,

Sincerely,

Donald F. Hornib  
Special Assistant for  
Science and Technology

Dr. Paul N. Schatz  
Cobb Chemical Laboratory  
University of Virginia  
Charlottesville, Virginia

DFH/eac

"S"

9 February 1965

Dear Dr. Chen:

The President has asked me to reply to your letter of January 25 concerning your IFIS project.

We are well aware of the importance of thin films in biological and physical science, as well as in industry. However, the Office of Science and Technology has no funds with which to support research projects. Projects such as yours may be supported by a number of Government agencies, including the Army, Navy, Air Force, National Aeronautics and Space Administration, the National Science Foundation, and the Public Health Service. They all support projects which appear to have high scientific merit and which are directly related to their efforts. In very unusual circumstances they have been willing to give general support of the kind you request.

In order to obtain support from any of these agencies, a proposal must be submitted to them which is then evaluated in competition with other requests. You are, of course, aware that a great deal of research on thin films is already underway.

We very much appreciate your calling your program to our attention and I hope that you will be able to make fruitful progress.

Sincerely,

(signed) Donald F. Hornig

Donald F. Hornig  
Special Assistant  
for Science and Technology

Dr. Paul S. Chen  
Director  
Institute for Film and Interface Studies  
P.O. Box 2543  
Pomona, California 91766

DZRobinson:hh

S&T

S&T

DFH

DZR

DZR

WH

S&T 0149

**February 8, 1965**

**MEMORANDUM FOR**

**Mr. Frederick L. Holborn  
Special Assistant in  
The White House**

**Enclosed is a suggested message which I think  
would be appropriate to send to the annual Inter-  
national Edison Birthday Celebration in Oklahoma  
City for use at the Edison Science Youth Day  
Dinner on Wednesday, February 10. The tele-  
gram should be addressed to:**

**Mr. Walker L. Cislcr  
Care of Mr. George Probst  
Skirvin Hotel - Room 1004  
Oklahoma City, Oklahoma  
Telephone: CEntral 2-4411**

**(signed) Donald F. Hornig**

**Donald F. Hornig  
Special Assistant for  
Science and Technology**

**Enclosure**

**RBarlow:jh:2-9-65  
Bcc: RB file and chron  
S&T file and chron  
DCH**

**S&T Control Number 0108**



**February 8, 1965**

**Dear President Elkins:**

**I am naturally pleased and honored that the University of Maryland would like to confer an honorary degree of Doctor of Science on me. I would be very happy to accept the honor and will be present at the Commencement Exercises on June 5th.**

**Sincerely,**

**Donald F. Hornig  
Special Assistant for  
Science and Technology**

**Dr. Wilson H. Elkins  
President  
The University of Maryland  
College Park, Maryland 20742**

**DFH/eac**

**tickle 6/5**

February 8, 1965

**MEMORANDUM FOR**

**Mr. Valenti**

Enclosed is a request to the President that he address the International Federation for Information Processing on either May 24 or May 29, 1965. It is a large and important international meeting which will be attended by more than 5000 people from 50 countries.

It would not be inappropriate for him to do so.

Nevertheless, in my judgment, the purpose would be served by a suitable message.

I will be glad to furnish more information if he desires. Otherwise, please advise what action to take.

(signed) Don

**Donald F. Hornig  
Special Assistant for  
Science and Technology**

**Attachment**

dfh:eac

DFH Chron & File  
S&T Chron & File

February 8, 1965

MEMORANDUM FOR

THE PRESIDENT

SUBJECT Science Talent Search

Itemization of enclosures:

- . Orig ltr 1/8/65 - S&T 0037
- . Tear sheet from Science Svc, entitled Science Talent Search
- . Booklet entitled How you can search for Science Talent
- . Magazine SCIENCE NEWS LETTER, March 18, 1961 issue.

I strongly urge that you accept the enclosed invitation to address the Awards Banquet for the annual Science Talent Search. As you know, the awards honor 40 high school students of outstanding promise in science. The event is on March 1st here in Washington, at the Statler-Hilton.

The Science Talent Search has been around for nearly a quarter century, sponsored by two organizations of the highest repute (Science Service and the Westinghouse Educational Foundation), with rigorous standards of excellence. The important point, however, is the sense of challenge and competitive excitement it has brought to high school science throughout the nation. This stimulus to the interest of young people in science has done great good, in my opinion, and this good could be much enhanced by your personal support and participation.

In short, I think this is an outstanding opportunity to demonstrate the direct interest of the Presidency in youth, education, science, and high standards of achievement. I shall be glad to assist you in every possible way if you decide that you can present this address.

(Signed) Donald F. Hornig

Donald F. Hornig

Enc.

RBarlow:jb:2-1/3-65

Bcc: RB file and chron

S&T file and chron

DFH



**February 8, 1965**

**MEMORANDUM FOR**

**THE PRESIDENT**

**I just want you to know how very well not only the Medalists but the entire scientific community received the presentation ceremony today for the National Medal of Science. All of the participants were extremely pleased with the significance and appropriateness of your very excellent remarks and by the general warmth which you imparted to the ceremony. I have heard nothing but the most favorable comments.**

**(Signed) Donald F. Hornig**

**Donald F. Hornig**

**RBarlow:jb:2-8-65**

**Bcc: RB file and chron**

**S&T file and chron**

**DFH**

**February 2, 1965**

**Dear Mr. Wall:**

**Thank you very much for your letter of January 3 with the suggestion on the possible use of ultrasonic vibration for scale control in desalting process. The Office of Saline Water in the Department of the Interior is currently supporting some research on the use of ultrasonics for scale control. However, your suggestion may represent a different approach. I am sending your letter on to them for consideration in connection with their future research plans.**

**Your thoughtfulness in sending me this suggestion is greatly appreciated.**

**Sincerely,**

**(signed) Donald F. Hornig**

**Donald F. Hornig  
Director**

**cc: Mr. Frank C. Di Luzio  
Office of Saline Water, Interior**

**Mr. Claude G. Wall  
928 Sherman Avenue  
Huntingdon Valley  
Pennsylvania 19006**

**cc: Dr. Hornig - Chron ✓  
Mr. Linsley - Chron  
Mr. Linsley - Subj.  
S&T Files - Chron  
S&T Files - Subj.**

**RKLinsley, Jr.:paw**

~~SECRET~~

February 8, 1965

Dear Charlie:

Enclosed are the reports which the PSAC Military Aircraft Panel have circulated for discussion by the PSAC on *February* 15th. They are for your eyes only. It might be helpful if you would set down on paper any counter arguments to which the PSAC might give thought before the meeting.

Sincerely,

Donald F. Hornig  
Special Assistant for  
Science and Technology

Encl.

S&T No. 147, cy 22-B

S&T No. 146, Cy 25-A

Honorable Charles J. Hitch  
Assistant Secretary of Defense (Comptroller)  
Room 3E854, The Pentagon  
Washington, D. C.

DFH;eac

DFH Chron. ✓  
S&T File  
S&T Chron.  
V. McRae for info.

This document consists of 1 pages  
No. 2 of 5 in series A

When the attachments are removed,  
this document becomes *unclassified*

~~SECRET~~



~~SECRET~~

February 8, 1965

Dear Harold:

Enclosed are the reports which the PSAC Military Aircraft Panel have circulated for discussion by the PSAC on *February* 15th. They are for your eyes only. It might be helpful if you would set down on paper any counter arguments to which the PSAC might give thought before the meeting.

Sincerely,

Donald F. Hornig  
Special Assistant for  
Science and Technology

Encl.

S&T No. 146, Cy 22A

S&T No. 147, Cy 23 B

Honorable Harold Brown  
Director of Defense Research and  
Engineering  
Room 3E1006, The Pentagon  
Washington, D. C.

DFH;eac

DFH Chron. ✓  
S&T Files  
S&T Chron.  
V. McRae for info.

~~SECRET~~

This document contains 1 page  
No. 2 of 5 Copies, Series A

When the administrative markings are removed,  
this document becomes *Unclassified*

February 6, 1965

Dear Dr. Dessen:

Thank you for your letter inviting me to lunch with the members of the Committee on Science and Technology on February 12th. I would very much like to, but unfortunately, I have a long-standing engagement for luncheon on that day. I hope it will prove possible for me to meet with the Committee at some later date for I would enjoy discussing with them problems of mutual concern.

Sincerely yours,

Donald F. Hornig  
Director

Dr. Edgar L. Dessen  
Chairman, Committee on  
Science and Technology  
Chamber of Commerce of the United States  
1615 H Street, N. W.  
Washington, D. C. 20006

eac - speech declines "C"

20506

February 5, 1965

Dear Mr. Chairman:

This will acknowledge your letter of January 14, requesting my views on S. 100, a Bill to Establish a Department of Education.

The Office of Science and Technology is concerned with scientific research and development. Nevertheless, it has become evident that there is a close interdependence between the effectiveness of our national effort in science and technology and the strength of our total educational system. This Office is therefore interested in any measures which will enhance the capacity of the nation's educational system to increase the numbers and quality of scientists, engineers and other technically trained people. The general concept of enhancing the status of educational activities within the Executive Branch has merit. However the means by which this should be done involves complex matters on which we have not yet formulated views. Accordingly, we have no detailed comments on S. 100 to present at this time.

Sincerely yours,

(signed) Donald F. Hornig

Donald F. Hornig  
Director

Honorable John L. McClellan  
Chairman  
Committee on Government Operations  
House of Representatives  
Washington, D. C.

Orig. & 4 - Addressee  
cc: White House Files (2)  
Jean Lewis  
DFH chron ✓  
S&T file & chron  
CVK file & chron

S&T Cont. No. 0081

*CVK:js*



5 February 1965

Dear Mrs. Walcher:

The President has asked me to reply to your letter of January 5 with regard to your crystallography discoveries, and need for research funds.

Crystallography is an interesting and fascinating subject, and one in which amateurs have made contributions for some time. Research in crystallography is supported by the Federal Government, chiefly in industry or universities. The money that the Government spends on research is largely spent by agencies with specific missions, which try to solve specific problems of interest to them. National Science Foundation funds are used to support basic science and they are allocated on the basis of the merit of research proposals submitted to NSF, as judged in competition with other proposals, by panels of scientists.

If you wish to refute the work that is done by other scientists, it is necessary to understand their work thoroughly. I would suggest that you might consider taking some courses in crystallography and mineralogy at a local educational institution so that you can compare your ideas more specifically with the results of many years of experimentation.

We very much appreciate your calling your ideas to our attention, and I wish you well in your continuing work.

Sincerely,

(signed) Donald F. Hornig

Donald F. Hornig  
Director

Mrs. Gertrude Milton Walcher  
The Walcher Foundation  
1016 North Star Drive  
Colorado Springs, Colorado 80901

DZRobinson:hh

S&T

S&T

~~DFH~~

DZR

DZR

WH

WHITE HOUSE

5 February 1965

MEMORANDUM FOR:

Lawrence F. O'Brien  
Special Assistant to the President

SUBJECT: Attached correspondence with  
Congressman Rogers

I enclose a draft copy of a letter which is somewhat responsive to the request for an interview with the President. I really think that an important issue is being raised, and would be happy to spend some time with them, although I do not believe this will increase the chances of the institution's getting a grant.

If you feel that this is a good idea, I will leave procedure and protocol up to you. You can transmit the reply through Rogers, or I will write a letter to him. I will assume that your office will take care of finding an appropriate date.

(signed) Donald F. Hornig

Donald F. Hornig

DZRobinson:hh

S&T

S&T

DFH

DZR

DZR S&T 0148



WHITE HOUSE

d r a f t  
4 February 1965

Dear President Cornette:

The President has asked me to reply to your letter of January 19, sent here by Congressman Rogers on January 26, which discusses in some detail your application for a science development grant with the National Science Foundation.

Your letter raises some very important policy issues which affect not only your university, but also other members of the American Association of State Colleges and Universities. I would be very happy to discuss these issues with you, Dr. Smith, and Congressman Rogers at our mutual convenience, and I have already so informed Congressman Rogers.

As you know, the President is interested in improving the education of all Americans at all levels. The Science Development program of the National Science Foundation is one of these programs, and I believe that it is being administered by the National Science Board and the Foundation as fairly as they can.

Nevertheless, the problems that you raise are very significant, and go to the heart of the determination of the criteria and the goals of programs aimed at improving the quality of science education in this nation.

I am looking forward to meeting you in the near future.

Sincerely,

Donald F. Hornig

Dr. James P. Cornette  
President  
West Texas State University  
Canyon, Texas 79016



**February 5, 1965**

**Dear Dr. Miller:**

**I am pleased to enclose a copy of the final report of the sub-panel on HEW activities in the Colorado River basin. On behalf of myself and the members of the President's Science Advisory Committee, I would like to express appreciation for your service on this sub-panel. I know that it required an intensive effort, necessitating diversions in what were already crowded personal schedules. The prompt and efficient inquiry and unambiguous conclusion was of great help to the President's Science Advisory Committee and to your Government.**

**Sincerely,**

**(signed) Donald F. Hornig**

**Donald F. Hornig  
Chairman**

**Enclosure:  
Report**

**Dr. Robert Miller  
Department of Agronomy  
New York State College of  
Agriculture  
Cornell University  
Ithaca, New York 14850**

**cc: Dr. Hornig - Chron ✓  
Mr. Linsley - Chron  
Mr. Linsley - Subject  
S&T Chron -  
S&T Subject**

**RKLinsley, Jr. :paw**

**February 5, 1965**

**Dear Dr. Anderson:**

**I am pleased to enclose a copy of the final report of the sub-panel on HEW activities in the Colorado River basin. On behalf of myself and the members of the President's Science Advisory Committee, I would like to express appreciation for your service on this sub-panel. I know that it required an intensive effort, necessitating diversions in what were already crowded personal schedules. The prompt and efficient inquiry and unambiguous conclusion was of great help to the President's Science Advisory Committee and to your Government.**

**Sincerely,**

**(signed) Donald F. Hornig**

**Donald F. Hornig  
Chairman**

**Enclosure:  
Report**

**Dr. Gaylord Anderson  
Director of Medical Science  
University of Minnesota  
Minneapolis, Minnesota 55455**

**cc: Dr. Hornig - Chron ✓  
Mr. Linsley - Subject  
Mr. Linsley - Chron  
S&T Files - Chron  
S&T Files - Subject**

**RKLinsley, Jr.:paw**

**February 5, 1965**

**Dear Dr. Tolley:**

**I am pleased to enclose a copy of the final report of the sub-panel on HEW activities in the Colorado River basin. On behalf of myself and the members of the President's Science Advisory Committee, I would like to express appreciation for your service on this sub-panel. I know that it required an intensive effort, necessitating diversions in what were already crowded personal schedules. The prompt and efficient inquiry and unambiguous conclusion was of great help to the President's Science Advisory Committee and to your Government.**

**Sincerely,**

**(signed) Donald F. Hornig**

**Donald F. Hornig  
Chairman**

**Enclosure:  
Report**

**Dr. George Tolley  
North Carolina State College of  
Agriculture and Engineering  
Raleigh, North Carolina**

**cc: Dr. Hornig - Chron ✓  
Mr. Linsley - Chron  
Mr. Linsley - Subject  
S&T Files - Chron  
S&T Files - Subject**

**RKLinsley, Jr. :paw**



**February 5, 1965**

**Dear Dr. Geyer:**

**I am pleased to enclose a copy of the final report of the sub-panel on HEW activities in the Colorado River basin. On behalf of myself and the members of the President's Science Advisory Committee, I would like to express appreciation for your service on this sub-panel. I know that it required an intensive effort, necessitating diversions in what were already crowded personal schedules. The prompt and efficient inquiry and unambiguous conclusion was of great help to the President's Science Advisory Committee and to your Government.**

**Sincerely,**

**(signed) Donald F. Hornig**

**Donald F. Hornig  
Chairman**

**Enclosure:  
Report**

**Dr. John Geyer  
Department of Sanitation  
Johns Hopkins University  
Baltimore, Maryland**

**cc: Dr. Hornig - Chron ✓  
Mr. Linsley - Chron  
Mr. Linsley - Subject  
S&T Files - Chron  
S&T Files - Subject**

**RKLinsley, Jr.:paw**

**February 5, 1963**

**Dear Dean Peterson:**

**I am pleased to enclose a copy of the final report of the sub-panel on HEW activities in the Colorado River basin. On behalf of myself and the members of the President's Science Advisory Committee, I would like to express appreciation for your service on this sub-panel. I know that it required an intensive effort, necessitating diversions in what were already crowded personal schedules. The prompt and efficient inquiry and unambiguous conclusion was of great help to the President's Science Advisory Committee and to your Government.**

**Sincerely,**

**(signed) Donald F. Hornig**

**Donald F. Hornig  
Chairman**

**Enclosure:  
Report**

**Dean D. F. Peterson  
Utah State University  
Logan, Utah**

**cc: Dr. Hornig - Chron ✓  
Mr. Linsley - Chron  
Mr. Linsley - Subject  
S&T Files - Chron  
S&T Files - Subject**

**RKLinsley, Jr.:paw**

**February 5, 1965**

**MEMORANDUM FOR**

**Mr. Valenti**

**I was very pleased by your memorandum of February 3 to GSA, naming the Office of Science and Technology one of the continuing occupants of the Executive Office Building.**

**Regarding our immediate and very pressing needs for additional space here, I understand there is little or no probability that we can occupy the rooms to be vacated by Dick Goodwin. I hope, nevertheless, that you will keep us at the top of the list for the Stafford Warren area or any other space adjacent to or reasonably near our present quarters on the second floor which can be made available.**

**Donald F. Hornig  
Special Assistant for  
Science and Technology**

**R.B.;DFH:jb;eac**

**DFH Chron & File  
Barlow Chron & File  
S&T Chron & File**



February 5, 1965

Dear Mr. Carleton:

Dr. Hornig has asked me to reply to your letter of January 25th. He does not anticipate using any projection equipment for his speech, and he has asked me to suggest that as far as the room facilities are concerned, he would leave that to your judgment.

We anticipate that Dr. Hornig will arrive in Denver on the evening of March 28th, probably about 8:30. He expects to depart almost immediately after his presentation, depending upon what plane connection he can make.

Sincerely,

Eleanor A. Connors, Secretary to  
Donald F. Hornig

Mr. Robert H. Carleton  
Executive Secretary  
National Science Teachers Association  
1201 Sixteenth Street, N. W.  
Washington, D. C. 20036

February 4, 1965

MEMORANDUM FOR

Dr. Harold Brown

During the recent Japanese State Visit to Washington, Prime Minister Sato and the President agreed on a U. S. -Japanese cooperative program of medical research. Although the Japanese are very opposed to any military participation in the actual cooperative program, I think it would be very useful to have military advice in the formulation of the U. S. position. We have asked representatives of the Army and Navy to join in the planning of a joint U. S. -Japanese conference at which the international program will be decided upon. General Blount has nominated Dr. Colin Voder Bruegge and Admiral Newman has named Dr. James Kingston to represent the Army and Navy, respectively. I'll keep you advised on the progress of the interagency planning group.

Donald F. Hornig  
Special Assistant for  
Science and Technology

PSBing:sb/mts

cc: Dr. Hornig chron ✓  
Dr. MacLeod  
Dr. Bing subj. & chron  
S&T file and chron

February 3, 1965

Dear Mr. Keith:

The desalting program of the Federal Government began in 1952. Even at that time desalting was not a new process and had been in use on ships and in a few shore locations for some time. However, the early desalting plants were quite costly and the goal of the Federal program has been to find ways of reducing cost to a level equivalent to other means of providing fresh water. Today, demonstration plants are producing water at a cost of about one dollar per thousand gallons. At this price desalted water is competitive for many locations but it is hoped that cost between 20 and 30 cents per thousand gallons can be achieved in larger plants.

Desalting research has been directed at several processes. The principal ones are:

Distillation or vaporizing of the water to separate it from the salts.

Freezing the water so that the salts remain in the unfrozen brine.

Electrodialysis in which the salts are caused to pass through membranes under the action of an electric potential.

Reverse osmosis in which the water is forced under pressure through a membrane which excludes the salts.



Many variations on each of the methods have been tried. In addition, other approaches such as biological removal, chemical precipitation, hydrate processes, etc., have had consideration.

The Office of Saline Water in the Department of the Interior is responsible for the desalting program. I am enclosing a copy of their 1963 Saline Water Conversion Report which describes work in progress. A list of reports published under the program appears on page 175. These reports will give more detail on any specific process in which you may be interested.

Sincerely,

(signed) Donald F. Hornig

Donald F. Hornig  
Director

Enclosure:  
Report

Mr. Jesse Keith  
6505 Center Street  
Apartment 201  
Omaha, Nebraska

RKLinsley, Jr.:paw

cc: Dr. Hornig - Chron ✓  
Mr. Linsley - Chron  
Mr. Linsley - Subject  
S&T Files - Chron  
S&T Files - Subject

February 2, 1966

Dear Mr. Hyde:

In response to your request for OST comments on two draft bills submitted for BoB clearance by the Department of the Interior, I would like to offer the following comments:-

1. In general, I endorse the objective of the draft bill "to authorize the Secretary of the Interior to enter into agreements for scientific and technological research, and for other purposes." I think it important that Agency heads have wide discretion to make arrangements for support of research at academic institutions in carrying out Agency missions. I do, however, have some reservations about the current form of the draft bill:-

a. The effect of the bill is to authorize grants for basic research as well as contracts and cooperative arrangements for mission-oriented research through the implicit operation of 42 USC 1891 which makes the grant mechanism complementary to any contract authority. I fail to see the rationale for this indirect approach, which could be counterproductive. I think that grant authority should be explicitly spelled out.

b. Furthermore, I question using this bill to amend this same statute, 42 USC 1891, in order to establish Government-wide authority for training grants wherever contract authority exists. While such a step may eventually prove desirable, its effects on other Agency programs and the Government-wide implications need to be assessed. Introduction of this item could prejudice favorable action on the bill. However, there is sufficient justification for the Interior Department's requirements for training grant authority to increase the pool of natural resources scientists, and such authority should be explicitly covered in the bill.

c. Section 4 of the draft bill would condition expenditures under the bill upon restrictive patent provisions

Dr. Hornig's chron file

contrary to the spirit of the President's 1963 Memorandum on Patent Policies. The policy guidelines set forth in the President's Memorandum provide flexibility in the disposition of patent rights so as to promote the public interest which, in certain situations, can be better served by leaving exclusive rights in the contractor or grantee. All patent provisions should therefore be deleted from the Interior bill as being both inherently objectionable and unnecessary.

d. I find the second sentence of the first paragraph, relating to the Water Resources Research Act of 1964, confusing in meaning and perhaps inconsistent with the apparent approach of this draft bill to supplement, rather than supplant, existing authorities. Moreover, consideration might well be given in the framework of this bill to seeking the repeal of the restrictive language of the 1964 Act, which the President opposes, dealing with prior consultation with the Congress on individual water resources research grants.

e. In the light of the foregoing reservations, and my further concern that the language of Section 2 might inhibit the Secretary's flexibility (as well, perhaps, as strengthen his hand in some circumstances), I suggest that serious consideration be given to trimming the bill to a short, concise provision of authority for research contracts, cooperative arrangements, and grants, and for training grants related to Interior-sponsored research.

2. The second draft bill, "to authorize the Secretary of the Interior to conduct a program of research, study, and surveys of the natural environmental systems of the United States, and for other purposes," would also be a useful measure in keeping with the recommendation of the President's Task Force on Environmental Pollution that the Department of the Interior should "conduct baseline ecological studies and surveys which would allow assessment of the biological changes in the environment due to human actions." However, I question at this time whether the scope of the proposed authority



-3-

has been sufficiently reviewed in the light of the ongoing missions of the several Departments and Agencies that have responsibilities in this area. I hope that such a review would precede any legislation of this sort.

Thank you for the opportunity to comment.

Sincerely,

(signed) Donald F. Hornig

Donald F. Hornig

Mr. J. F. C. Hyde  
Office of the Assistant Director  
for Legislative Reference  
Bureau of the Budget

SRRivkin:gl  
DISTRIBUTION:  
1&2-addressees  
3-Hornig chron file  
4-5 - OST chron & subj files  
6-7 - SRRivkin files

**2 February 1965**

**Dear Frank:**

**I have received a copy of your letter to Fred Seitz with regard to reopening the energy question.**

**As I understand the situation, there is nothing particularly new in the Brookhaven article on this matter. The Ramsey Panel clearly understood that the difference between 200 Bev and 1000 Bev was only a matter of money and time. This point was also recognized by the group of users that PSAC had look at the matter, and by the Walker Subcommittee of the Pake Committee, which examined the high energy physics question.**

**All these groups proposed advancing to the 800 Bev range in two steps for a number of reasons, including availability of the 200 Bev earlier, the need to advance the technology not only of accelerator construction but of instrument use of such highly energetic beams, the possibility of saving funds in the construction of the second machine due to experience gained through the construction of the first, etc.**

**This, of course, does not stop anybody from reopening the question if he wants to. I just don't think that the Brookhaven report adds significantly to this long standing debate.**

**Best regards.**

**Sincerely,**

**(signed) Don**

**Donald F. Hornig  
Director**

**Dr. Franklin A. Long  
Vice President for Research  
and Advanced Studies  
Cornell University  
Ithaca, New York**

DZRobinson:hh

S&T

S&T

DFH

DZR

DZR

2 February 1965

Dear Mr. Schild:

Thank you for sending me a copy of your book review on Differential Equations of Mathematical Physics, in which you complain about the high price of the translated book.

The problem you raise -- of getting adequate textbooks to individuals -- is a very complex one because of the interaction of private enterprise and the issue of government competition. It does not seem possible to subsidize all technical books which might be used as texts; nor does it seem reasonable for a government group to select the best texts.

Actually, the price of 3¢ a page does not seem to be very much out of line with the price for untranslated books. A cursory look at Science magazine seems to indicate that most books which appear to be aiming at a relatively small market seem to have prices of this magnitude. The National Science Foundation does have a program of translations, and certain reports are also published, but the translation cost is only a very small portion of the retail price of the book.

I appreciate your sending me a copy of your review, and I am happy to get your views.

Sincerely,

(signed) Donald F. Hornig

Donald F. Hornig  
Director

Professor Alfred Schild  
Department of Physics  
The University of Texas  
Austin, Texas

DZRobinson:hh

S&T

S&T

DFH

DZR

DZR



February 2, 1965

Dear Mr. Bower:

Thank you very much for bringing your proposed process for desalting sea water to my attention.

Your letter of January 4 with the description of your process for desalting of sea water has been carefully reviewed by some of my staff. The patent application does not disclose the full details of the process but on the basis of the information it does contain, I have serious doubts that the process would effectively remove ninety-nine percent of the salts in sea water. Oxidation is not an effective means of precipitating such elements as sodium, potassium and calcium from water. In addition, separation of any precipitate from a spray of water drops by gravity would not be very efficient. The separation would not be greatly enhanced by the ionizing radiation or the electrical field.

Some separation would result from flash evaporation on passage of the spray into the vacuum chamber. However, at the low temperatures involved the effectiveness of this phase would be quite small. On the other hand the cost of equipment and energy for the process would be very high.

I believe that it would be possible for you to verify my conclusions at fairly modest cost by construction of a model of your process at laboratory scale.

Sincerely,

(signed) Donald F. Hornig

Donald F. Hornig  
Director

Mr. Fred W. Bower  
P.O. Box 7  
Inyokern, California

RKLinsley, Jr.:paw

cc: Dr. Hornig - Chron ✓  
Mr. Linsley - Chron  
Mr. Linsley - Subject  
S&T Files - Chron  
S&T Files - Subject

**February 2, 1965**

**Dear Mr. Schirtzinger:**

**I am pleased to learn from your letter of January 21 that the prospects for the BIMMO development are even better than at our earlier discussion. Mr. Linsley has also told me something of your telephone conversation with him after your return from Nassau. The BIMMO concept is a challenging one, and I am pleased to see it entering the competition as an alternative mode of water development. Feel free to contact Mr. Linsley for such help as he can provide. I shall continue to be interested in the progress of your studies.**

**Sincerely,**

**(signed) Donald F. Hornig**

**Donald F. Hornig  
Director**

**Mr. J. F. Schirtzinger, President  
Air Logistics Corporation  
3600 E. Foothill Boulevard  
Pasadena, California 91109**

**cc: Dr. Hornig - Chron ✓  
Mr. Linsley - Chron  
Mr. Linsley - Subject  
S&T - Chron  
S&T - Subject**

**RKLinsley, Jr. :paw**



**February 2, 1965**

**Dear Mr. Vice President:**

**Mrs. Hornig and I would like to extend an invitation to you and Mrs. Humphrey to attend a reception in honor of the retiring members of the President's Science Advisory Committee.**

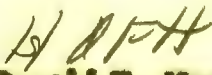
**As you know, the Science Advisory Committee includes a number of outstanding scientists and engineers, appointed by the President, to advise on a broad range of scientific and technological matters bearing on national policies. A list of the membership is attached, including the following members whose four year terms of appointment ended last December 31st:**

**Dr. Harvey Brooks  
Dr. Paul M. Doty  
Dr. Edwin R. Gilliland  
Dr. Colin M. MacLeod  
Dr. Wolfgang K. H. Panofsky  
Dr. Jerome B. Wiesner  
Dr. Jerrold R. Zacharias**

**I hope that it will be possible for you and Mrs. Humphrey to join us, and I know that the members of the Committee and their wives would greatly appreciate the opportunity to see you on this occasion.**

**The cocktail and buffet will be on Monday, February 15, at 7:00 pm, at our home at 2810 Brandywine Street, N. W.**

**Sincerely yours,**

  
**Donald F. Hornig  
Special Assistant for  
Science and Technology**

**The Honorable Hubert H. Humphrey  
The Vice President of the United States  
Washington, D. C.**

**DZB;DFH;khb;eac  
DZB Chron & File, DFH Chron.  
S&T Chron & File**

**February 2, 1965**

**Dear Bob:**

**Thank you very much for your note of January 22nd. I should have answered sooner except that I have just returned from a trip. I'd like very much to meet with the Executive Committee and see your research laboratory. Unfortunately, I'm unable to do it on any of the dates you suggest. Why don't we put it off until you return from your vacation.**

**I must say that I envy you that Caribbean vacation. I have just returned from Hawaii, but that was all work and has only whetted my appetite. Lilli needs it particularly but the peculiar situation that has developed is that now that she is teaching, her schedule is more rigid than mine.**

**Lilli joins me in sending you and Molly our very best wishes.**

**Sincerely yours,**

**Donald F. Hornig  
Special Assistant for  
Science and Technology**

**Dr. Robert L. Hershey  
Vice President  
E. I. Du Pont de Nemours & Company  
Wilmington 98, Delaware**

1 February 1965

Dear Leo:

Thanks for your letter of January 14, offering the help of the Astronomical Society with regard to the implementation of the Whitford report. I very much appreciate your offer of help. At the present time we are trying to establish a Federal Government response to the report of the Whitford Panel, particularly in finding out what the normal programs of the agencies would be, and what additional actions would have to be taken if the report were to be fully implemented.

At this point I think the most important thing that the astronomy community can do is to promote sound discussions within and without the Government.

After all, the Whitford Committee presented a ten-year program for the Federal Government. In order to implement a good astronomical facilities program over the years, there will have to be high quality proposals coming from the astronomical community, and effective scientific proof that the recommendations made in 1964 will continue to be valid through this next period of time.

Thanks again for giving me your views. I hope we can keep in touch on this matter.

Sincerely,

(signed) ed Don

Donald H. Hornig  
Director

Dr. Leo Goldberg, President  
American Astronomical Society  
Harvard Observatory  
Cambridge, Massachusetts

dzt:hh

S&T

S&T

~~DFH~~

DZR

DZR



**February 1, 1965**

**Dear Charlie:**

**Thank you for your letter of January 13th which, since it was addressed to Princeton, has just reached me. I would very much like to be with you in May to honor Professor Mark, but it is impossible for me to say at this time whether I will be able to be present. As I am sure you can appreciate, my schedule is very uncertain and it is difficult to predict very far ahead.**

**Sincerely,**

**Donald F. Hornig  
Director**

**Dr. C. G. Overberger  
Director  
Polymer Research Institute  
Polytechnic Institute of Brooklyn  
333 Jay Street  
Brooklyn, New York 11201**

**eac**

February 1, 1965

Dear Dr. Fraser:

Dr. Donald Hornig has asked that I write to you, giving you a number of dates on which he will be available to meet with you. I note from your last letter you do not return to Princeton until February 8th, and I assume you would probably not want to come to Washington that week. The afternoon of February 17th (Wednesday) is free, as is the afternoon of Friday, February 19th. In addition, Dr. Hornig could see you the morning of March 3rd or the afternoon of March 4th. If none of these dates would fit in with your schedule, you might indicate a date on which you would be free, and I will try to work it into Dr. Hornig's calendar.

Sincerely,

Eleanor M. Connors (Miss)  
Office of the Special Assistant  
for Science and Technology

Dr. Russell A. Fraser  
Associate Dean  
The Graduate School  
Princeton University  
Princeton, New Jersey

**February 1, 1965**

**MEMORANDUM FOR**

**William B. Cannon  
Assistant Director for Legislative Reference  
Bureau of the Budget**

**The OST supports both the objectives and approach of the draft Department of Agriculture bill "to amend the Federal Insecticide, Fungicide and Rodenticide Act, as amended," recently transmitted to me for comment.**

**While not specifically recommended for enactment in the 1963 Report of the President's Science Advisory Committee panel on Pesticides, the current draft bill is fully consistent with the intent of that panel's recommendations.**

**(signed) Donald F. Hornig**

**Donald F. Hornig  
Director**

**JLB/emv Chron  
DFH/Chron ✓  
S&T File P&T.  
S&T Chron  
S&T Control No. 119**



**February 1, 1965**

**Dear Mr. Evers:**

**Thank you for your letter of January 13th. I am sorry for the delay in replying, however, I have just returned from a brief trip out of the country. I was very interested to learn of your program and would be very happy to meet with you. I suggest you let me know when next you will be in Washington and perhaps we can work out a mutually satisfactory date.**

**Sincerely,**

**Donald F. Hornig  
Director**

**Mr. W. L. Evers  
Director of University Scientific  
Relations  
Calanese Corporation of America  
522 Fifth Avenue  
New York, New York 10036**

**February 1, 1965**

**Dear Dr. Curet:**

**Please accept my sincere apology for the delay in replying to your very kind letter of November 5th inviting me to speak at the Ninth Latin American Congress of Chemistry to be held in Puerto Rico during the week of August 1 to 8. I have delayed replying in the hope that I would be able to predict what my schedule would be like in August with some firmness, so that I would be able to accept your invitation. Unfortunately, this has not proved to be the case. In view of the expectation that duties will require my presence in Washington, I regret very much that I will not be able to be with you in August.**

**Sincerely,**

**Donald F. Hornig  
Director**

**Dr. Juan D. Curet  
IX Congreso Latinoamericano de Quimica  
Direccion Postal Apartado 2647  
Rio Piedras, Puerto Rico**

**Speech declines "P"**





January 30, 1965

Dear Mr. Foster:

In view of the significance of the research activities of the Arms Control and Disarmament Agency and the inter-relationships between this and other Federal programs, it would be useful if your Agency could provide an observer at the meetings of the Federal Council for Science and Technology. Dr. Scoville agrees with this view. If you would confirm your willingness to have an appropriate staff member serve in this capacity, Dr. Kidd, the Executive Secretary of the Council, will provide the necessary briefing on the work of the Council.

Sincerely yours,

Donald F. Hernig  
Chairman

Honorable William C. Foster  
Director  
U. S. Arms Control and Disarmament  
Agency  
New State Department Building  
Washington, D. C. 20541

CVKidd:jsn  
cc: DFH chron ✓  
S&T file & chron  
CVK file & chron

January 30, 1965

Dear Mr. Benjamin:

Dr. Hornig is presently out of the country for a brief period, however, before he left he asked me to let you know that it will not be possible for him to keep your luncheon date on February 25th. He is giving a speech at the University of Colorado in Boulder on the 25th and will be leaving the evening of the 24th. I am afraid he had forgotten his commitment to be in Colorado when he spoke to you.

Dr. Hornig will be back early next week, and I would suggest you either call or write as to when you next expect to be in Washington, so that another date can be arranged.

Sincerely,

Eleanor A. Connors (Miss)  
Office of the Special Assistant  
for Science and Technology

Mr. William A. Benjamin  
President  
W. A. Benjamin, Inc.  
1 Park Avenue  
New York, New York 10016

January 29, 1965

Dear Mr. Tyler:

As requested in your letter of January 22nd, I am attaching a biography and a photograph of Dr. Hornig for the lecture on February 25th. With respect to your request for an advance copy of his lecture, if one is available I will certainly send it to you, however, on the basis of past performance, it is very unlikely that a copy will be available in advance.

Sincerely,

Eleanor A. Connors (Miss)  
Secretary to Dr. Hornig

Mr. Scott Tyler  
Director  
Office of Public Information  
University of Colorado  
Boulder, Colorado 80304



**January 29, 1965**

**Dear Mr. Rossi:**

**I very much appreciate your invitation to write a guest editorial for EXPERIMENTAL MECHANICS. Unfortunately, the press of business here in the wake of the Inauguration is such that I simply do not feel I would have the time to prepare the type of article which would be of most value to your readers. I regret that this is the case, but I am sure you can appreciate the situation.**

**Sincerely,**

**Donald F. Hornig  
Special Assistant for Science  
and Technology**

**Mr. B. E. Rossi  
Executive Secretary and Editor  
Society for Experimental Stress Analysis  
21 Bridge Square  
Westport, Connecticut 06882**

**eac**

**January 28, 1965**

**Dear General Heaton:**

**Thank you for your letter of 19 January inviting me and members of my staff to attend Operation MUST to be held at Brooke Army Medical Center on 24 February. The aims of the operation are indeed praiseworthy, and I hope that the meeting will be successful. Unfortunately, it will not be possible for anyone from our office to be present at the conference due to the press of duties here in Washington.**

**Sincerely,**

**Donald F. Hornig  
Director**

**Lieutenant General Leonard D. Heaton  
The Surgeon General  
Headquarters, Department of the Army  
Washington, D. C. 20315**

**eac**

**Invitationd regretted "A"**

January 27, 1965

**MEMORANDUM FOR**

**THE PRESIDENT**

**Subject: Appointment of New Members to the President's Science  
Advisory Committee**

The members of your Science Advisory Committee are appointed by the President for a period of four years, with exceptions in the case of the Special Assistant to the President and the President of the National Academy of Sciences who serves ex officio.

Since its establishment by Presidential action in 1957, the Committee has had a normal complement of 17 members, although the number has never been fixed rigidly. A list of members and appointment expiration dates is attached (Attachment A). On December 31, 1964, the terms of seven members expired. As the result of a number of factors, the turnover this year is much greater than the average of four to five, as follows:

**Dr. Harvey Brooks, Dean, Division of Engineering and Applied  
Physics, Harvard University**

**Dr. Paul M. Doty, Professor of Chemistry, Harvard University**

**Dr. Edwin R. Gilliland, Professor of Chemical Engineering,  
Massachusetts Institute of Technology**

**Dr. Colin M. MacLeod, Deputy Director, Office of Science and  
Technology**

**Dr. Wolfgang K. H. Panofsky, Director, Stanford Linear  
Accelerator Center, Stanford University**

**Dr. Jerome B. Wiesner, Dean of Science, Massachusetts Institute  
of Technology**

**Dr. Jerrold R. Zacharias, Professor of Physics, Massachusetts  
Institute of Technology**



I would like to recommend the appointment of the following four persons as members of the Science Advisory Committee. The names have been selected from a list of some 50 outstanding scientists and engineers identified by the Committee as warranting consideration for membership. Detailed resumes are attached (Attachment B).

**Dr. Lewis Branscomb, Chairman, Joint Institute for Laboratory Astrophysics, National Bureau of Standards, Boulder, Colorado.**

Dr. Branscomb is one of the outstanding scientists in the Federal Government. A leader in laboratory astrophysics, his leadership made possible the highly successful transfer of the Bureau of Standards' astrophysics research activities from Washington to Boulder, Colorado, where it has been closely linked to the University of Colorado. He has been a valuable contributor to the work of this Office, working on the "Bell Report" on government research contracting-out policies and as a member of the Space Sciences Panel of the Science Advisory Committee. Dr. Branscomb's appointment to the Committee would set a precedent, for he would be the first government scientist to serve in this capacity--a precedent to which I fully subscribe.

*713-JA8-4141*  
**Dr. Kenneth Pitser, President, Rice University, Houston, Texas.**

Dr. Pitser is a distinguished chemist with long and valuable association with the Federal Government. In the past he served as Director of the Division of Research of the Atomic Energy Commission and currently holds a Presidential appointment as a member of the Commission's General Advisory Committee (a post he would probably relinquish if appointed to the Science Advisory Committee).

**Dr. George Pake, Provost and Professor of Physics, Washington University, St. Louis, Missouri.** *314-Volunteer 3-0100*

Dr. Pake currently chairs the Physics Survey Committee of the National Academy of Sciences. His broad acquaintance with the structure of Federal support of physics will be of great value to the Science Advisory Committee's efforts to make Federal science programs, particularly in the universities, more effective.

**Dr. Gordon MacDonald, Institute of Geophysics and Planetary Physics, University of California at Los Angeles.**

**Dr. MacDonald is one of the foremost geophysical scientists, with wide ranging abilities and interests in all of the earth sciences. He would bring to the Science Advisory Committee outstanding competence and broad judgment in dealing not only with the major Federal research programs in oceanography and atmospheric sciences, but also with national policy problems that are affected by developments in the geophysical sciences, such as the monitoring of arms control agreements. Dr. MacDonald has been serving as a consultant to this Office as a member of our panels on antisubmarine warfare and atmospheric sciences. He is a member of the National Academy of Sciences.**

**If you approve, I recommend that Drs. Branscomb, Pitzer, and MacDonald be appointed as soon as feasible so that they can attend the next meeting of the Science Advisory Committee on February 15 and 16. They have the necessary security clearances and have indicated a willingness to serve. Letters to these individuals are attached for your signature (Attachment C).**

**The appointment of Dr. Pake would have to be withheld until his security clearance has been completed, but I would appreciate your tentative approval of his appointment at this time.**

**I hope to submit to you in the next month or two, my recommendations for filling the remaining three vacancies. I feel that at least one of these vacancies should be filled by a scientist or engineer with strong industrial experience at management levels. I would also appreciate your signing the attached letters of appreciation to the retiring members of the Science Advisory Committee (Attachment D). In the case of Drs. Wiesner and Brooks, I hope that you will agree to appoint them Consultants-at-Large to the Science Advisory Committee, so that we may continue to have the benefit of their advice and experience in dealing with problems of national science policy (Attachment E).**

DZBeckler;khb

CC: DFH subj. & Chron

Mr. Beckler

S&T File

S&T Chron

Donald F. Hornig



# **PRESIDENT'S SCIENCE ADVISORY COMMITTEE**

## **MEMBERS AND CONSULTANTS**

		<b><u>Term Expires</u></b>
<b><u>Chairman</u></b>	Dr. Donald F. Hornig Special Assistant to the President for Science and Technology The White House Washington, D. C.	12-31-67
<b><u>Members</u></b>	Dr. Harvey Brooks Dean Division of Engineering and Applied Physics Harvard University Cambridge, Massachusetts	12-31-64
	Dr. Melvin Calvin Professor of Chemistry University of California Berkeley, California	12-31-66
	Dr. Paul M. Doty Professor of Chemistry Harvard University Cambridge, Massachusetts	12-31-64
	Dr. Richard L. Garwin IBM Watson Laboratory Columbia University New York, New York	12-31-65
	Dr. Edwin R. Gilliland Professor of Chemical Engineering Massachusetts Institute of Technology Cambridge, Massachusetts	12-31-64
	Dr. Philip Handler Chairman Department of Biochemistry Duke University Medical Center Durham, North Carolina	12-31-67



<u>Members</u> (Cont'd)		<u>Term Expires</u>
Dr. Franklin A. Long Vice President for Research and Advanced Studies Cornell University Ithaca, New York		12-31-66
Dr. Colin M. MacLeod Deputy Director Office of Science and Technology Washington, D. C.		12-31-64
Dr. William D. McElroy Chairman Department of Biology The Johns Hopkins University Baltimore, Maryland		12-31-66
Dr. Wolfgang K. H. Panofsky Director Stanford Linear Accelerator Center Stanford University Stanford, California		12-31-64
Dr. John R. Pierce Executive Director, Research Communications Principles and Communications Systems Division Bell Telephone Laboratories Murray Hill, New Jersey		12-31-66
Dr. Edward M. Purcell Professor of Physics Harvard University Cambridge, Massachusetts		12-31-65
Dr. Frederick Seitz President National Academy of Sciences Washington, D. C.		ex officio

<u>Members</u> (Cont'd)		<u>Term Expires</u>
Dr. Jerome B. Wiesner Dean of Science Massachusetts Institute of Technology Cambridge, Massachusetts		12-31-64
Dr. Herbert F. York, Jr. Chancellor University of California, San Diego La Jolla, California		12-31-67
Dr. Jerrold R. Zacharias Professor of Physics Massachusetts Institute of Technology Cambridge, Massachusetts		12-31-64

**BRANSCOMB, Dr. Lewis M(cAdery) Director, Astrophysics Laboratory,  
National Bureau of Standards, Boulder, Colo. PHYSICS. Born:  
Asheville, N. C., Aug. 17, 1926. A. B., Duke, 1945; M. A., Harvard,  
1947, Ph. D. (physics), 1949. Instr. physics, Harvard, 1950, jr. fel.,  
Soc. Fels, 1949-51; physicist, Bur. Standards, 1951-54, Chief,  
Atomic Physics Sect., 1954-63, Director, Astrophysics Laboratory,  
Boulder, Colo., 1963- Rockefeller pub. ser. award, Univ. Cal.,  
London, 1957-58; Wash. Acad. award, 1959. U.S.N.R., 1944-46,  
Ens. Fel. Phys. Soc.; Geophys. Union; Astron. Sec. Atomic  
physics and gaseous electronics; spectra of diatomic molecules; physics  
of the upper atmosphere; physics of negative ions.**

**Source: American Men of Science, Tenth Edition**



**PITZER, Kenneth S.,** chemist, univ. pres. Born: Pomona, Cal.,  
January 6, 1914. B.S., Cal. Inst. Tech., 1935; Ph.D., U. Cal.,  
1937; D.Sc., Wesleyan University, 1962. Instr. chemistry, U. Cal.,  
1937-39, asst. prof., 1939-42, asso. prof., 1942-45, prof., 1945-61,  
asst. dean letters and sci., 1947-48; pres., prof. chemistry, Rice  
University, Houston, 1961-; tech. dir., Md. Research Lab. for  
OSRD, 1943-44; dir. research, U. S. AEC, 1949-51, mem., gen. adv.  
cm., 1958-, chmn, 1960-62; dean, coll. chemistry, U. Cal., 1951-60.  
Mem., adv. bd. U. S. Naval Ordnance Test Sta., 1956-59, chmn.,  
1958-59. Mem. commn. chem. thermo-dynamics, Internat. Union  
Pure and Applied Chemistry, 1953-. Dir. Ann. Revs., Inc.; trustee  
Rand Corp. Awarded Guggenheim Fellowship, 1950, Precision Sci.  
Co. award in petroleum chemistry, 1950; One of the 10 Outstanding  
Young Men, U. S. Jr. C. of C., 1950; Clayton Prize, Instn. Mech.  
Engrs., London, 1958. Mem. program com. for phys. scis. Sloan  
Found., 1955-60. Fellow Am. Nuclear Soc., Am. Inst. Chemists,  
Am. Acad. Arts and Scis., Am. Phys. Soc.; mem. Am. Chem. Soc.  
(award pure chemistry, 1943), Faraday Soc., A. A. A. S., Nat. Acad.  
Sci., Am. Philos. Soc. Home: President's House, Rice University,  
Houston 1, Texas.

**PAKE, Prof. George E(dward), Provost and Professor of Physics,**  
**Washington University, St. Louis, Missouri. PHYSICS. Born:**  
**Jeffersonville, Ohio, April 1, 1924. B.S. & M.S., Carnegie**  
**Inst. Tech., 1945; Nat. Res. Council fel., Harvard, 1946-48,**  
**Ph.D. (physics), 1948. Instr. physics, Carnegie Inst. Tech., 1945;**  
**jr. engr., electronics dept., Westinghouse Elec. Co., Pa.,**  
**1945-46; asst. prof., PHYSICS, Washington (St. Louis), 1948-52,**  
**assoc. prof., 1952-53, prof., 1953-54; prof. physics, Stanford,**  
**1954-62; Provost & prof. physics, Washington (St. Louis), 1962-**  
**Fel. Phys. Soc.; Asn. Physics Teachers. Nuclear magnetic**  
**resonance; paramagnetic resonance of free radicals.**

**Source: American Men of Science, Tenth Edition**

**MacDONALD, Prof. Gordon J(ames) F(raser), Institute of Geophysics,**

**University of California, Los Angeles, Calif. GEOPHYSICS.**

**Born: Mexico, D. F., Mex., July 30, 1929; nat. A. B., Harvard,**

**1950, A. M., 1952, fel., 1952-54, Ph. D., 1954. Asst. prof. geol.,**

**Mass. Inst. Tech., 1954-55, assoc. prof., 1955-58; PROF.**

**GEOPHYS, CALIFORNIA, LOS ANGELES, 1958- Staff assoc.,**

**geophys. lab., Carnegie Institution, 1955- Consult., Nat.**

**Aeronaut. & Space Admin., 1960- Geol. Soc.; Mineral Soc.;**

**Geochem. Soc.; Geophys. Union. Rotation of the earth; physics of**

**interior of planets; use of computers in geophysics.**

**Source: American Men of Science, Tenth Edition**



**January 28, 1965**

**Dear Dr. Branscomb:**

**I would like to invite you to serve as a member of the President's Science Advisory Committee for a term ending December 31, 1968.**

**With the ever increasing impact of science and technology on the affairs of government, there is both an opportunity and a need for the Science Advisory Committee to assure that our policies and programs take proper account of this impact and of the nation's scientific and technological potential.**

**Your willingness to accept membership on the Committee, with the substantial personal commitment that it entails, will help to assure its continuing contributions to that objective.**

**Sincerely yours,**

**Dr. Lewis Branscomb  
Chairman  
Joint Institute for Laboratory  
Astrophysics  
National Bureau of Standards  
Boulder, Colorado**

**LBJ:DFH:DZB:kbb  
CC: Presidential Files  
White House Files(2)  
DFH  
Mr. Beckler  
Mrs. Robb  
Mrs. Chatrnuck  
S&T File  
S&T Chron**

**Dr. Kenneth Pitzer**  
**President**  
**Rice University**  
**Houston, Texas**

**Dr. Gordon MacDonald**  
**Institute of Geophysics and**  
**Planetary Physics**  
**University of California**  
**Los Angeles, California**

**January 28, 1965**

**Dear Dr. Brooks:**

**With the expiration of your term of appointment on the President's Science Advisory Committee, I want to thank you for your many effective contributions. Throughout your service as a member of the Committee, you have given tirelessly of your time and attention, undertaking difficult assignments without hesitation and providing leadership in coming to grips with complex issues of national science policy.**

**So that your experience and advice will continue to be available to the Committee during its deliberations, I would like to appoint you a Consultant-at-Large to the Committee for such time as you can actively participate in the work of the Committee.**

**Sincerely yours,**

**Dr. Harvey Brooks  
Dean  
Division of Engineering and  
Applied Physics  
Harvard University  
Cambridge, Massachusetts**

**LBJ:DFH:DZB:kbb  
CC: Presidential Files  
White House Files(2)  
DFH  
Mr. Beckler  
Mrs. Robb  
Mrs. Chatrnuck  
S&T Files  
S&T Chron**



**January 28, 1965**

**Dear Jerry:**

**With the expiration of your term of appointment on the President's Science Advisory Committee, I want to thank you for your many effective contributions. Your long and spirited dedication to the work of the Committee, including a period as Chairman, is gratefully acknowledged.**

**So that your experience and advice will continue to be available to the Committee during its deliberations, I would like to appoint you a Consultant-at-Large to the Committee for such time as you can actively participate in the work of the Committee.**

**Sincerely yours,**

*Lyndon B. Johnson*

**Dr. Jerome B. Wiesner  
Dean of Science  
Massachusetts Institute of Technology  
Cambridge, Massachusetts**

**LBJ:DFH:DZB:kbb  
CC: Presidential Files  
White House Files(2)  
DFH  
Mr. Beckler  
Mrs. Robb  
Mrs. Chatrnick  
S&T Files  
S&T Chron**

*Filed 2-16-65.*

January 28, 1965

Dear Dr. Doty:

With the expiration of your term of appointment on the President's Science Advisory Committee, I want to thank you for your many effective contributions.

You and your colleagues on the Committee can find reward in the knowledge that the national security and welfare have been significantly advanced through your concerted efforts. In particular, I would like to express appreciation for your creative leadership in analyzing the scientific and technological aspects of national policy in civil defense, and for your thoughtful proposals bearing on East/West exchanges of scientists.

Although you have earned a respite from the heavy demands the Committee has placed on your time and energy, I hope that we may continue to call upon you from time to time when your experience and advice is especially needed.

Sincerely yours,

*L. B. Johnson*

Dr. Paul M. Doty  
Professor of Chemistry  
Harvard University  
Cambridge, Massachusetts

LBJ:DFH:DZB:kbb  
CC: Presidential Files  
White House Files(2)  
DFH  
Mr. Beckler  
Mrs. Robb  
Mrs. Chatrnuck  
S&T File  
S&T Chron

*Mailed 2-16-65*

**January 28, 1965**

**Dear Dr. Gilliland:**

**With the expiration of your term of appointment on the President's Science Advisory Committee, I want to thank you for your many effective contributions.**

**You and your colleagues on the Committee can find reward in the knowledge that the national security and welfare have been significantly advanced through your concerted efforts. In particular, I would like to express appreciation for your leadership in the preparation of reports and proposals designed to strengthen the quantity and quality of the nation's scientific and engineering manpower, the results of which have already been reflected in legislation and in increased public awareness and understanding.**

**Although you have earned a respite from the heavy demands the Committee has placed on your time and energy, I hope that we may continue to call upon you from time to time when your experience and advice is especially needed.**

**Sincerely yours,**

*Lyndon B. Johnson*

**Dr. Edwin R. Gilliland  
Professor of Chemical Engineering  
Massachusetts Institute of Technology  
Cambridge, Massachusetts**

**LBJ:DFH:DZB:khh  
CC: Presidential Files  
White House Files(2)  
DFH  
Mr. Beckler  
Mrs. Robb  
Mrs. Chatrnick  
S&T File  
S&T Chron**

*Mailed 2-16-65.*



January 28, 1965

Dear Dr. MacLeod:

With the expiration of your term of appointment on the President's Science Advisory Committee, I want to thank you for your many effective contributions. You and your colleagues on the Committee can find reward in the knowledge that the national security and welfare have been significantly advanced through your concerted efforts.

In particular, I would like to express my appreciation for your contributions to the work of my Task Force on Environmental Pollution and to the programs and legislative proposals based on its report.

I highly value your services and am especially pleased that you will continue to serve as Deputy Director of the Office of Science and Technology.

Sincerely yours,

*S. Lyndon B. Johnson*

Dr. Colin M. MacLeod  
Deputy Director  
Office of Science and Technology  
Washington, D. C.

LBJ:DFH:DZB:kbb  
CC: Presidential Files  
White House Files (2)  
DFH  
Mr. Beckler  
Mrs. Robb  
Mrs. Chatrnick  
S&T File  
S&T Chron

*Mailed 2-16-65*

**January 28, 1965**

**Dear Dr. Panofsky:**

**With the expiration of your term of appointment on the President's Science Advisory Committee, I want to thank you for your many effective contributions.**

**You and your colleagues on the Committee can find reward in the knowledge that the national security and welfare have been significantly advanced through your concerted efforts. In particular, I would like to express appreciation for your contributions to national security through painstaking analysis of the policy and program implications of technological factors affecting the development of major defensive weapons systems.**

**Although you have earned a respite from the heavy demands the Committee has placed on your time and energy, I hope that we may continue to call upon you from time to time when your experience and advice is especially needed.**

**Sincerely yours,**

*Lyndon B. Johnson*

**Dr. Wolfgang K. H. Panofsky  
Director  
Stanford Linear Accelerator Center  
Stanford University  
Stanford, California**

**LBJ:DFH:DZB:kbb  
CC: Presidential Files  
White House Files(2)  
DFH  
Mr. Beckler  
Mrs. Robb  
Mrs. Chatrnick  
S&T File  
S&T Chron**

*Mailed 2-16-65.*

January 28, 1965

Dear Dr. Zacharias:

With the expiration of your term of appointment on the President's Science Advisory Committee, I want to thank you for your many effective contributions.

You and your colleagues on the Committee can find reward in the knowledge that the national security and welfare have been significantly advanced through your concerted efforts. In particular, I would like to express appreciation for your creative leadership in developing far-reaching proposals for innovations in education, proposals that have been incorporated in the anti-poverty program and in the program of Federal aid to education that has recently been transmitted to the Congress.

Although you have earned a respite from the heavy demands the Committee has placed on your time and energy, I hope that we may continue to call upon you from time to time when your experience and advice is especially needed.

Sincerely yours,

*L. B. Johnson*

Dr. Jerrold R. Zacharias  
Professor of Physics  
Massachusetts Institute of Technology  
Cambridge, Massachusetts

LBJ:DFH:DZB:kbb  
CC: Presidential Files  
White House Files(2)  
DFH  
Mr. Beckler  
Mrs. Robb  
Mrs. Chatrnuck  
S&T File  
S&T Chron

*Filed 2-16-65*



26 January 1965

**MEMORANDUM FOR:**

**Lawrence F. O'Brien,  
Special Assistant to the President**

**SUBJECT:      Communications from Senator Bartlett's office with  
                 regard to action on the Anderson Commission's  
                 recommendation for the Alaskan Earthquake**

A member of my staff received a call from Senator Bartlett's office stating that the Senator wished to give a speech on the response of the Executive Branch to the Alaskan earthquake, and praising the Anderson Commission for its constructive report. My staff man suggested that the Senator write directly to you asking for information.

The response to the Anderson Commission report was undertaken by three agencies:

1. Office of Science and Technology, which considered a number of technical recommendations.
2. Office of Emergency Planning, which considered some recommendations dealing with emergency actions.
3. Housing and Home Finance Agency, which considered some questions with regard to housing problems.

The President asked each of these agencies to prepare recommendations and, at least in the case of the technical recommendations, a number of actions were taken which were responsive to the Anderson Commission report and which involved budgetary increases of a few million dollars. These increases were put into the FY 66 budget.

Now that the budget is out, you may wish to consider whether a special reply should be prepared for Senator Bartlett which he can use in his speech, or whether there should be a special letter from the President to Senator Anderson praising his work and describing the Executive Branch response. In either case, we would be pleased to provide the description of the action on the technical recommendations.

(signed) D. F. Hornig

Donald F. Hornig  
Director

DZRobinson:hh

S&T

S&T

~~DPH~~

DZR

January 26, 1965

MEMORANDUM FOR

Mr. Jack Valenti

We have received the enclosed request for the President to present an award to Dr. Michael DeBakey next June at the meeting of the International Cardiology Foundation. I don't think the size and scope of this organization warrant the President making a trip to New York. However, since Dr. DeBakey was chairman of the President's Commission on Heart Disease, Cancer and Stroke, I thought you might want to check this out before I turned the request down. A good compromise might be to send a warm telegram from the President detailing some of the services he has performed for the Federal Government. I would be glad to prepare such a message if you decide on that route.

(signed) Don

Donald F. Hornig

PSB/emu Chron  
DFH/Chron ✓  
S&T File LS/TF  
S&T Chron



20306

January 24, 1963

Dear Mr. Bonner:

This will acknowledge receipt of your letter of January 23 addressed to Dr. Hornig.

Dr. Hornig will be out of the United States until approximately February 1, and our formal response may therefore be somewhat delayed.

Sincerely yours,

Charles V. Kidd  
Technical Assistant

Honorable Herbert C. Bonner  
Chairman  
Committee on Merchant Marine  
and Fisheries  
House of Representatives  
Washington, D. C.

CVKidd:jm  
2cc: White House Files  
cc: Jean Lewis  
Dr. Hornig ✓  
S&T file & chron  
CVK file & chron

S&T Cont. No. 0131

House of Representatives

Committee on  
Merchant Marine and Fisheries

January 22, 1965

Dr. Donald F. Hornig  
Director  
Office of Science & Technology  
Executive Office Building  
Washington, D. C.

Dear Sir:

Enclosed herewith are copies of the captioned  
bill pending before this committee.

The Committee on Merchant Marine and Fisheries  
will be very glad to have the benefit of your views and  
recommendations on this proposed legislation. It will be  
appreciated if you will furnish the committee with 20  
copies of your report on this measure as soon as possible.

Sincerely,

*Herbert C. Bonner*

Herbert C. Bonner  
Chairman

H. R. 921-Mr. Wilson  
To establish the National  
Oceanographic Agency.

XEROX FROM QUICK COPY

2131

26 January 1965

Dear Mr. Chairman:

I am sending you the report on National Policy on High Energy Physics which your Committee asked the Atomic Energy Commission to prepare in conjunction with the other agencies of the Government for submission to me and to the Congress.

I commend the Commission and its staff for their efforts in working out a well-considered program covering such a long period of time into the future. The fundamental nature of high energy physics makes it one of the most important fields of basic science. We must continue to explore it vigorously and to maintain our national leadership.

The complexity and cost of the equipment required has necessitated the creation of major national centers managed and operated to meet the collective needs of the high energy physics research community. Many university scientists and their students are deeply and productively engaged in this field of research, both at their home institutions and in collaboration with their colleagues in the national centers. The strong cooperation of the universities and the centers will enhance our knowledge and understanding of nature and will contribute to the continued intellectual strength of our universities where we prepare the pathfinders for the nation's imagination and understanding.



Science knows no national boundaries; this has been especially true of high energy physics. It seems to me that this is a particularly fruitful field for international collaboration. Large accelerators are available in the United States, in Western Europe, and in the Soviet Union; and the scientific results are made available everywhere. Effective international cooperation and collaboration can advance not only science, but can show the way to greater international understanding.

The field of high energy physics, like all research in basic science, is ever changing. The needs for the long-range future as visualized today will undoubtedly change with time. We must not be so bound to our guidelines that there is no flexibility to respond to the changing needs of the program, and to changing fiscal needs and resources.

We will continue to compare the needs in this field with those of other scientific fields. In turn, the needs of science as a whole will be assessed in the light of other demands on Federal resources.

I believe that the AEC report provides a useful guideline for decision-making in the development of high energy physics.

Sincerely,

Honorable Chet Holifield  
Chairman  
Joint Committee on Atomic Energy  
Congress of the United States  
Washington, D. C.

S&T  
S&T  
~~DFH~~  
DZR  
WH (3)

Enclosure

LBJ:DFH:DZR:hh

January 26, 1965

Dear Admiral Knoll:

Thank you for your letter inviting me to speak at the banquet of the U. S. Navy Symposium on Military Oceanography on May 6th. I was most interested to learn of the symposium and will be pleased to accept your invitation. I am sure you appreciate, however, that my time is not always at my own command, so that there is always a possibility of my being forced to cancel at the last minute.

Sincerely,

Donald F. Hornig  
Special Assistant for  
Science and Technology

Rear Admiral Denys W. Knoll, USN  
Oceanographer of the Navy  
Office of the Chief of Naval Operations  
Washington, D. C. 20350

eac

tickle 5/6

OST

January 25, 1965

MEMORANDUM FOR

THE PRESIDENT

SUBJECT: AEC High Energy Physics Policy Study

Attached is a report entitled, "Policy for National Action in the Field of High Energy Physics" prepared by the AEC in response to a request from the Joint Committee on Atomic Energy. Also attached is a letter of transmittal to you from Chairman Seaborg and a proposed letter of transmittal from you to the Congress. These documents have been reviewed by both of us, and we recommend that you sign the letter.

The Joint Committee is concerned over the fact that we are spending about \$170 million per year in this field and that expenditures have been rising at a rate of about 15% per year. Chairman Hollifield feels that he cannot justify further growth in this program without a long-range policy statement from the Executive Branch. We have reason to believe that the Joint Committee expects to get a Presidential transmittal of the report.

In response to this concern, Don Hornig sent a letter to Senator Pastore on March 27, 1964, which outlined the general considerations shaping national policy in this area. The present AEC report is entirely consistent with that letter and the FY 66 budget, but goes into the type of detail that the Committee wants. The critical portions are pages 26-28 which outline general considerations, pages 76-80 which give the specific plan, and Appendix B which shows the budgetary implications of the proposed program.

In particular, the report presents a plan for a program whose expenditures would rise from \$188 million in FY 66 to \$340 million in FY 71



and \$470 million in FY 76. The largest elements of new construction cost are a 200 Billion electron volt accelerator whose design should be authorized in FY 67, and an 800 Billion electron volt accelerator which would be started in the 70's. The construction costs of these projects would be \$250 million and \$800 million respectively.

The report has been reviewed with care by your Science Advisory Committee, by the staff of OST, and by the Bureau of the Budget. All agree that it is a good document, which presents a plan for a scientifically exciting program. However, like all planning documents, all expect the plans to be reassessed in the light of progress in the field and our general fiscal situation as we proceed.

The suggested letter of transmittal does not commit you to the program in detail but does reaffirm your general support for an area of science which has enlisted our very best scientific brains and is producing the most fundamental new knowledge of any area in which we are engaged. It is an area in which the U. S. holds world leadership.

The letter emphasizes that fiscal considerations will play an important role in decisions which will be made in future years. It does state that you believe it to be a useful guideline for decision making.

This report to the Congress should not give rise to the problems of geographic and regional distribution which plagued us in the decision on the MURA accelerator last year. Locations of the two large new accelerators are not mentioned because they have not yet been determined. The report emphasizes that all new accelerators will be built as National facilities. At the present time major universities from all over the country are discussing the possibility of setting up a national consortium to operate the next large facility wherever it is located. This national cooperation by scientists and administrators will lead to a welcome unity of action rather than the divisiveness of the past.

**Attachments:**

Ltr from Dr. Seaberg with report  
Ltr to Cong. Hollifield with report

dzrobinson; F. Schultdt; DFHornig; KGordon; eac

cc: Mr. Gordon

S&T FILE & CHRON; DZR File & Chron. DPH File & Chron.

Kenneth Gordon  
Director, Bureau of the Budget

Donald F. Hornig  
Director, Office of Science  
and Technology

January 25, 1965

X

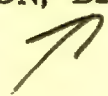
DONALD F. HORNIG

DR. PETER C. GOLDMARK  
PRESIDENT, CBS LABORATORIES  
STAMFORD, CONNECTICUT

MY CONGRATULATIONS TO THE COLUMBIA BROADCASTING  
SYSTEM FOR ITS FARSIGHTED DECISION TO GREATLY ENLARGE ITS  
RESEARCH AND DEVELOPMENT FACILITIES IN STAMFORD. THIS  
DECISION SYMBOLIZES THE MAJOR CONTRIBUTIONS THAT THIS  
AND SIMILAR PRIVATELY SPONSORED RESEARCH LABORATORIES ARE  
MAKING TO THE SUCCESSFUL PROSECUTION OF FEDERAL RESEARCH  
AND DEVELOPMENT ACTIVITIES, AND WILL HAVE THE ADDITIONAL  
VALUE OF CONTRIBUTING TO THE GROWTH OF TECHNOLOGICALLY  
BASED INDUSTRY IN CONNECTICUT.

DZB;eac

DZB FILE & CHRON., S&T FILE & CHRON, DFH CHRON.





**January 23, 1965**

**MEMORANDUM FOR**

**Bill Moyers**

**Attached is a memorandum for the President from Kermit Gordon and myself transmitting a report entitled "Policy for National Action in the Field of High Energy Physics." Also enclosed are a letter to the President from Chairman Seaborg and a suggested letter for the President to send to Congressman Hollifield transmitting the report to the Joint Committee for Atomic Energy. It is very important that the letter to Congressman Hollifield be sent before the Committee begins its hearings next week.**

**As you know, I will be away from the office from January 26 through January 30th, so that if you have any problems with the letter, we should get it settled today.**

**Donald F. Hornig  
Director**

**Attachments:**

**Memo to President from Gordon & Hornig  
Ltr to President from Seaborg with report  
Ltr to Hollifield from President with report**



D 7 W Chron

January 22, 1965

**MEMORANDUM FOR**

**THE PRESIDENT**

**SUBJECT: Summary of Views of American Businessmen on Trade With the Soviet Union**

When the American Businessmen's group who visited Moscow in November called on you on January 7, 1965, they left with you a number of documents providing background information and the conclusions they had reached after their discussions in Moscow. The key points in these documents are as follows:

1. The total foreign trade of the USSR is approximately \$14 billion, of which \$10 billion is with other Communist countries, and \$2.5 billion with the industrial Western countries and Japan. United States trade with the USSR is at a very low level - imports of \$21 million compared with U.K. \$255 million, Italy \$176 million, West Germany \$164 million, Japan \$149 million, France \$141 million; exports: U.S. to USSR \$22 million, U.K. \$155 million, Italy \$114 million, West Germany \$154 million, Japan \$155 million, France \$64 million. (All figures for 1963.)

2. Some recent acquisitions of Western technology by the USSR include plants and processes in these fields: Chemical, sugar beet processing, steel, cement, synthetic fibers, plastics, pulp and paper, auto engine parts, airborne navigation equipment, tractors, etc. Many of these transactions have been financed on long-term credits by Western European countries.

3. By and large, our strict trade controls - stricter than those of our allies - do not effectively prevent Soviet economic and military development, although they may slow it down in some sectors. In many sectors, the effect is to give our allies an undue competitive advantage, and to foster the growth of industries in the USSR that may compete with us in world markets.



4. There are many obstacles to increased U.S.-Soviet trade. Some are deeply rooted in the Soviet economy and their ways of doing business and will not change quickly, but there are others that can be more directly influenced by U.S. and Soviet Government decisions. If we want to increase our trade with the USSR, for political or business reasons, or both, the following steps by the United States would be indicated:

(1) Reach a lend-lease settlement, which would pave the way for extending normal commercial credit on exports to the Soviet Union.

(2) Limit restriction of exports, under the Export Control Act, to prohibit only the export of those products which would clearly and significantly add to the military might of the Soviet Union.

(3) Restore MFN treatment to Soviet goods imported by the United States.

(4) Increase our exchanges with the USSR to foster greater understanding on both sides of our economies and trading practices.

5. Corresponding Soviet steps: (1) settle lend-lease on terms we could accept, (2) sign the Paris Convention on the Protection of Industrial Property, (3) help create conditions for Western businessmen to operate in the USSR, such as opening up areas now closed to travel by foreigners, and (4) help to restore confidence by appropriate actions in the political and military spheres.

6. The decision to expand our trade with the USSR is for the Government to take, not American business. The report concludes: "If, within the limits of military security, we were now to open the channels of trade with the Soviet Union, contacts with Soviet officials, with foreign trade organizations and Soviet industrial managers would multiply. Mutually beneficial deals, licensing arrangements and possibly even joint ventures would be developed. Through successful experience in cooperation -- successful for both sides -- fears should fade and confidence grow."

**Don Hornig\***

Donald F. Hornig

WH: 1 green  
1 white  
1 yellow

IMTobin:gpw

cc: S&T Files

S&T Chron

DFH Chron

IMT Chron

(C-Views Based on the

Bus. Intnl. Moscow Roundtable"(I); C-Summary  
of Observations, BIME(II); U-Brg. Paper-Moscow  
USSR/Nov. 15-20, 1964; and U-Work Book)

IMT/gpw

January 25, 1965

Dear Dr. Bateman:

Thank you for your invitation to speak at a dinner of the Chemists' Club. I'm sure I would certainly enjoy the opportunity of visiting with some chemists again, both professionally and socially. Unfortunately, with my present schedule it is impossible for me to pick a date and be certain that I could be in New York on that day. With the inauguration of so many new activities in the wake of the election, I doubt that it would be possible for me to plan to be with you at all this spring. Perhaps we can work out something at a later date.

Sincerely,

Donald F. Hornig  
Special Assistant for  
Science and Technology

Mr. Robert L. Bateman  
President  
The Chemists' Club  
52 East 41st Street  
New York 17, New York

eac

Speech declines "C"



January 25, 1965

Dear Dr. Bates:

Thank you for your letter concerning my speaking to the scientific staff of the National Bureau of Standards. While I would very much like to meet with the NBS staff, I don't feel it would be possible to do so this spring. In the wake of the Inauguration there are so many new activities being generated that I feel I must concentrate almost exclusively on my duties here for the time being.

Sincerely yours,

Donald F. Hornig  
Special Assistant for  
Science and Technology

Dr. A. Allan Bates  
Building Research Division  
Institute for Applied Technology  
National Bureau of Standards  
Washington, D. C. 20234

DFH/eac

Speech declines "N"

**January 25, 1965**

**Dear Dr. Brown:**

**This letter comes to tell you how pleased I am that you will join the Public Health Service Hospitals Study Committee. I am particularly appreciative of your willingness to intrude this additional responsibility into your schedule, and my staff will do everything possible to minimize the disruption it may cause.**

**In requesting this study, the President expressed the hope that he could have your report by the first of May. To this end, we have been fortunate to obtain the services of the following men in addition to yourself.**

**Mr. Bethuel Webster (Committee Chairman)  
Webster, Sheffield, Fleischmann,  
Hitchcock & Chrystie  
Rockefeller Plaza  
New York, New York**

**Dr. Gardner Child  
Professor and Chairman  
Department of Surgery  
University of Michigan  
Ann Arbor, Michigan**

**Dr. Ralph Connor  
Chairman of the Board of  
Directors  
Rohm & Haas Company  
Philadelphia, Pennsylvania**

**Dr. Kenneth Clark  
Dean, Arts and Sciences  
University of Rochester  
Rochester, New York**

**Dr. Robert F. Goheen  
President, Princeton University  
Princeton, New Jersey**

**Dr. Philip Cohen  
Professor and Chairman  
Department of Biochemistry  
University of Wisconsin  
Madison, Wisconsin**

**Dr. C. Philip Miller  
Professor of Medicine Emeritus  
University of Chicago Medical  
College  
Chicago, Illinois**

Mr. Milo Anderson, who has had extensive experience in hospital administration, will serve as full-time staff director for this study. In the interim between now and the first meeting, preliminary arrangements will be made by Dr. Peter Bing of my staff. He will contact you shortly to get your preferences for meeting dates.

Again, I am very pleased that you will join the Committee and I look forward to working with you in the coming months.

Sincerely yours,

(signed) Donald F. Hornig

Donald F. Hornig  
Special Assistant for  
Science and Technology

Dr. Ray E. Brown  
Director, Graduate Degree Program  
Hospital Administration  
Duke University  
Durham, North Carolina

PSB:emu Chron  
S&T Chron  
S&T Files - PHS Hos.  
DFH



*Duplicate of letter sent to following:*

Dr. Gardner Child  
Professor and Chairman  
Department of Surgery  
University of Michigan  
Medical Center  
Ann Arbor, Michigan

Dr. Kenneth Clark  
Dean, Arts and Sciences  
University of Rochester  
Rochester, New York

Dr. Philip P. Cohen  
Professor and Chairman  
Department of Biochemistry  
University of Wisconsin  
Madison, Wisconsin

Dr. Ralph Connor  
Chairman of the Board  
of Directors  
Rohm & Haas Company  
Philadelphia, Pennsylvania

Dr. Robert F. Goheen  
President, Princeton University  
Princeton, New Jersey

Dr. C. Philip Miller  
Professor of Medicine Emeritus  
University of Chicago Medical College  
Chicago, Illinois

25 January 1965

Dear Mr. Kushi:

The President has asked me to reply to your letter of December 28, 1964.

The transmutations which you discussed do not seem to be primarily of military significance, but rather of economic and commercial value. I would therefore advise you and your friends to patent the process and use the normal commercial channels for protection and exploitation of your discovery. In this way you can later announce the details to the scientific community, where the results can be examined and confirmed under the regular scientific process.

We very much appreciate your calling your discovery to our attention.

Sincerely,

(Signed) Donald F. Hornig

Donald F. Hornig  
Director

Mr. Michio Kushi  
East West Institute  
101 Walden Street  
Cambridge, Massachusetts

DZR:hh

S&T

S&T

DFH

DZR

WH

S&T 0080

January 28, 1965

Dear Det:

In thinking about the activities of the President's Science Advisory Committee for the coming year, it would be very helpful to have a general idea as to the availability of the Consultants-at-Large to participate in the work of the Committee.

As you know, provision for Presidential appointment of Consultants-at-Large to the Committee was made in recognition of the considerable benefit that would be gained through the continuing, active association with the Committee of some of its members whose terms of appointment have expired. In my view, active participation of Consultants-at-Large should amount to attendance at about half of the formal Committee meetings or the investment of a comparable amount of time in panel activities.

I would greatly appreciate hearing from you as to your availability for PSAC activities this year, and sincerely hope that you will be able to participate on an active basis.

Sincerely yours,

(signed) Don

Donald F. Hornig  
Chairman

Dr. Detlev W. Bronk  
President  
The Rockefeller Institute  
66th Street and York Avenue  
New York, New York 10021

DZBeckler;khb

CC: DFH subj. & chron ✓

Mr. Beckler  
S&T File  
S&T Chron

Identical letters sent to:

Dr. Fisk, Dr. Killian, Dr. Kistiakowsky,  
Dr. Land, Dr. Piore, Dr. Rabi



**January 25, 1965**

**Dear President Kirk:**

**Thank you very much for your letter of January 18th, inviting me to participate in the Columbia Engineering Centennial Symposium on May 4th. Professor Rabi has already spoken to me about the occasion and, as I have indicated to him, I would be pleased to participate in the discussion. I feel I must add, however, that the nature of my duties here in Washington is such that there is always the possibility of my having to cancel at the last minute.**

**Sincerely,**

**Donald F. Hornig  
Special Assistant for  
Science and Technology**

**Dr. Grayson Kirk  
President  
Columbia University  
New York 27, N. Y.**

**eac**

25 January 1965

Dear Professor Lipkin:

Thank you very much for your letter of January 8 describing the possibility of setting up separate Regional Instrument Centers. Obtaining adequate instrumentation is a very important problem which faces university scientists everywhere. It is, of course, not a problem peculiar to chemistry, but affects other sciences as well.

I found your idea very interesting and thought-provoking. I can see both advantages and disadvantages to a system such as you describe. It is difficult enough at the present time to get department-wide operation of instrumentation in some places, and each professor at a single institution often wants to have his own equipment. Also, there is no question but that a lot of time would be wasted if people had to travel far to get to special instruments. Obviously there would be great savings if professors were willing to share equipment more readily.

As equipment gets more expensive, it may be that national centers will have to be set up in order to meet the needs of many scientists.

I am sending your letter to the National Science Foundation for its consideration. I hope that you will also write to Dr. Frank Westheimer at Harvard, who is studying the general field of chemistry for the National Academy of Sciences, and give him your views.

Sincerely,

(signed) Donald F. Hornig

Donald F. Hornig  
Director

Professor David Lipkin  
Chairman, Department of Chemistry  
Washington University  
St. Louis, Missouri 63130

cc:  
Dr. Randal M. Robertson, NSF

*W/Cy incoming*

DZR:hh

S&T

~~DFH~~

S&T

DZR

January 23, 1965

Dear Mr. Malof:

I'm sorry for the delay in replying to your letter inviting me to meet with participants in the Conference for Business Executives on Federal Government Operations on February 17th. I should be most happy to do so and will make the date down on my calendar.

Sincerely,

Donald F. Hornig  
Director

Mr. Peter Malof  
Assistant Director of  
Business Programs  
The Brookings Institution  
1775 Massachusetts Avenue, N. W.  
Washington, D. C. 20036

DFH/eac

tickle Feb. 17



January 23, 1956

**MEMORANDUM FOR**

**Mr. O'Brien**

Pursuant to your memorandum requesting that your office be informed of all contacts between WH staff and Members of Congress, I am attaching memoranda on conversation I have had during the last week. While the matters discussed were primarily in my function as Chairman of the Federal Council for Science and Technology, I nevertheless feel you should be aware of my conversations.

**Donald F. Hornig**

DFH/eac

DFH Chron & File  
S&T Chron & File

January 23, 1965

Dear Mr. LeFevre:

Thank you very much for your invitation to attend the Annual Goddard Memorial Dinner to be held on March 19th. Both Mrs. Hornig and I are pleased to accept and look forward to seeing you then.

Sincerely,

Donald F. Hornig  
Special Assistant for  
Science and Technology

Mr. Ted LeFevre  
Assistant Vice President  
General Dynamics Corporation  
1710 H Street, N. W.  
Washington, D. C. 20006

DFH/eac

2 tickle ~~1/1~~ 3/19

January 23, 1965

**MEMORANDUM FOR**

**Mr. John Macey**

From January 26 through 30 I will be away from Washington. Since the Deputy Director of OST, Dr. Colin MacLeod, will also be away during this period, I have named Mr. David Z. Beckler as Acting Director in my absence.

**Donald F. Horaig**  
**Director**

**cc: Bill Moyers**

**DFH;eac**

**S&T Files**

**S&T Chron.**

**DFH Chron. & File**

**Mr. Beckler**



**January 23, 1965**

**MEMORANDUM FOR**

**OST STAFF**

**During the week of January 26 through 30th, while both Dr. MacLeod and I are away, David Z. Beckler will be Acting Director of OST.**

**Donald F. Hornig  
Director**

DFH:eac

DFH Chron & File  
S&T Chron & File  
Mr. Beckler

January 22, 1965

**MEMORANDUM FOR THE FILES**

**SUBJECT: January 18, 1965 Discussion with Congressman Emilio Daddario**

I discussed with Congressman Daddario, Chairman of the Subcommittee on Science, Research and Development of the House Committee on Science and Astronautics, as well as with Representative Moeher, the possible questions to which the Subcommittee might address its attention. We discussed the general questions of rate of growth of science support, allocation among different fields, the division between inhouse and out of house efforts, and the means by which science might be more responsive to the social needs of society in areas such as transportation, urban development, pollution, etc.

I explained to them the FCST proposal for Project Related Research Allowances, and we went on to discuss the general question of the transfer of greater administrative authority to the universities in the conduct of federally supported research. I left a copy of the FCST proposal.

Donald F. Hornig  
Director

DFH/eac

DFH Chron. & Files  
S&T Chron. & Files  
Mr. Beckler/Dr. Kidd

~~SECRET~~

January 22, 1965

MEMORANDUM FOR

Mr. Bundy

Having read the section on sealift - airlift of the proposed statement of Bob McNamara to the Congress on the '66 defense program, I feel the necessity of bringing to your attention some questions concerning the mix of airlift and sealift forces.

This question was studied by a very good PSAC panel. Without going into detail, they conclude that the cost figures presented for the C-5A are very tenuous, to say the least. It seems very unwise to make firm claims which cannot be substantiated. I have already said this to Bob, and I hope he is making the statements all much more tentative. We are inclined to believe that the cost advantage of the C-5A is less than claimed, and I know of no very solid studies to back up the claims for the 15% commercial advantage.

Secondly, whereas it presents extensive figures for the costs of airlift (p. IV-6), the sealift section contains no quantitative assessment. The salient point, of course, is that rapid response sealift is significantly cheaper, perhaps a factor of three times. It seems to me that this point needs to be made (e. g. on p. IV-15) to strengthen the support of the rapid deployment sealift force since on the basis of previous experience it must be anticipated that this program will have difficulty in Congress.

Donald F. Hornig  
Special Assistant for  
Science and Technology

DECLASSIFIED  
By JW E.O. 13526, Sec. 3.4  
NARA, Date 3-17-8

DFH:eac

DFH Chron.  
S&T Files, S&T Chron.  
cc: Dr. McRae  
Mr. Keeny

~~SECRET~~

This is 3 of 1 pages  
No. 3 Series A



January 22, 1965

**MEMORANDUM FOR THE FILES**

**SUBJECT: January 13, 1965 Conversation with Senator Lister Hill**

The principal purpose of the visit was to explain the proposal for a Government-wide system of Project Related Research Allowances which is under discussion in the Federal Council for Science and Technology. Senator Hill agreed that it sounded like good business practice to provide a small percentage of the general support not immediately related to the research projects but generally related to collected projects and to the missions of the agencies. I left a draft copy of the proposal with him.

We then also discussed the indirect cost problem, and I made the basic point that the indirect costs of doing research should be computed properly on the basis of generally agreed accounting principles such as those of BOB Circular A-21 as a basis for any general policies. I made the second point that the division of costs between the institutions and the Federal Government should be a separate policy matter based on a knowledge of the full costs of carrying out the research. I noted the inequity of any flat rate since it was conducive to the transfer of minor items to the direct cost category with an increase in bookkeeping and that it discriminated against institutions which provided central services, which are normally charged to indirect costs, and thereby increase the efficiency of performance of the work. Senator Hill indicated that these remarks made good sense to him and that he would support modifications in the legislation along the lines indicated. He also felt, however, that the schools should make some contribution to the work carried on.

Donald F. Hornig  
Director

RTH:chm.

January 22, 1965

**MEMORANDUM FOR THE FILES**

**SUBJECT: Conversation with Congressman John Fogarty**

I explained to him the FCST proposal for Project Related Research Allowances. He was concerned whether this was an evasion of the indirect cost limitation, and I explained that this was for purposes directly connected with research and not related to the indirect cost question. He asked whether the 3 percent proposed would not grow in successive years to 5, 10 and 20 percent, and I indicated that this was an experiment and the future course would depend on the results achieved.

We discussed the indirect cost question, and he told me of his contact with Warren Tripp, Marion Folsom and other business leaders who strongly advocated a change in the indirect cost policy in health related research. He noted that Tripp is a trustee at Yale and he could understand his stand but did not know why the others were getting themselves involved. At any rate he was much impressed and planned to have a meeting with them in the next week. He told me that his committee is planning to reconsider the indirect cost question. He is obviously very reserved in giving away any personal position. He seems to feel strongly that the universities would like to take advantage of the Federal Government and that it is important that we not fund fully research projects. I said that this was a separate question and university contributions should not be buried in the indirect cost computation. I left him a copy of the proposal. I also apprised him of the fact that the NIH study would be submitted to the President in a month or so.

Donald F. Hornig  
Director

DFH:eac

DFH Chron & File  
S-T Chron & File

Beckler/Kidd



**January 22, 1965**

**MEMORANDUM FOR THE FILES**

**SUBJECT: January 15, 1965 Conversation with Congressman Chet Hollifield**

I explained the FCST Proposal for Project Related Research Allowances. He expressed some concern over their use to support people rather than for the purpose of equipment or the provision of services such as machine shops and libraries, but after discussion agreed that the proposal seemed satisfactory to him. I left a copy of the proposal with him for study by his staff.

We had a subsequent discussion of SNAP 8 and the question of whether the entire system should be carried to 10,000 hour tests rather than carrying out separate tests on the reactor and the power generating equipment. I told him our reasons for feeling that the integrated test was unnecessary and this led to a long renewal of our old discussion on the role of "requirements" and their desire to see projects carried through to a point where they had been demonstrated for potential users. However, he cited from his own experience the case of two aircraft engines where it was clearly desirable to cut one of them off when the other passed it by and demonstrated a higher value.

**Donald F. Hornig  
Director**

DFH/eac

DFH Chron & Files  
S&T Chron & Files  
Dr. Kidd/Mr. Beckler



**January 22, 1965**

**MEMORANDUM FOR**

**THE FILES**

**SUBJECT: Conversation with Senator John Pastore  
January 19, 1965**

**I discussed the FCST proposal on Project Related Research Allowances with him and also the indirect cost problem. He was sympathetic to both, but the visit was very brief.**

**Donald F. Hornig  
Director**

**DFH:eac**

**DFH Chron. & File  
S&T Chron. & File  
Mr. Beckler/Dr. Kidd**

January 22, 1965

Dear Guy:

Thanks very much for your letter inviting me to speak at your Research Laboratory colloquium. I certainly would like an opportunity to visit the Laboratory and learn how things are going there and wish it were possible for me to accept your kind invitation. Unfortunately, however, I have finally had to accept the fact that the nature of my duties here in Washington put such visits in the "luxury" class, i. e., ones I simply can't afford. Never knowing exactly what is going to happen here, it's impossible to pick a date and be sure that on that day I will not be required to be in Washington. I'm sure you can appreciate the situation and understand with what reluctance I have to say "no."

With best regards,

Sincerely,

Donald F. Hornig  
Director

Dr. C. G. Suits  
Vice President and  
Director of Research  
General Electric Company  
Schenectady, New York

eac

Speech declines "G"

January 22, 1965

X

Donald F. Hornig

(See Addressee List attached.)

ARRANGEMENTS CONFIRMED FOR PRESENTATION NATIONAL  
MEDAL OF SCIENCE AT WHITE HOUSE AT NOON MONDAY, FEBRUARY  
EIGHT. MEMBERS YOUR IMMEDIATE FAMILY CORDIALLY INCLUDED  
IN CEREMONY AND LUNCHEON WHICH FOLLOWS. PLEASE PROVIDE  
~~ME FULL NAMES OF YOUR GUESTS PROMPTLY.~~ PARTICIPANTS  
AND GUESTS SHOULD ARRIVE AT WHITE HOUSE BY WAY OF SOUTH  
WEST GATE AT 11:45 AM. LUNCHEON IS AT ONE PM AT NATIONAL  
ACADEMY OF SCIENCES, 2101 CONSTITUTION AVENUE.

DONALD F. HORNIG

RBarlow:jb:1-18/22-65  
Bcc: RB file and chron  
S&T file and chron  
DFH chron

(signed) D. F. Hornig



**ADDRESSEE LIST -- ELEVEN TELEGRAMS**

**for Telegram dated January 22, 1965, from Donald F. Hornig  
to Recipients of 1964 National Medal of Science**

---

**DR. ROGER ADAMS  
603 WEST MICHIGAN AVENUE  
URBANA, ILLINOIS**

**DR. HAROLD CLAYTON UREY  
7890 TORREY LANE  
LA JOLLA, CALIFORNIA**

**DR. OTHMAR HERMAN AMMANN  
HOTEL CARLYLE  
35 EAST 76TH STREET  
NEW YORK, NEW YORK**

**DR. ROBERT BURNS WOODWARD  
24 KENMORE ROAD  
BELMONT, MASSACHUSETTS**

**DR. THEODOSIUS DOBZHANSKY  
425 EAST 63RD STREET  
NEW YORK, NEW YORK**

**DR. CHARLES STARK DRAPER  
62 BELLEVUE STREET  
NEWTON, MASSACHUSETTS**

**DR. SOLOMON LEFSCHETZ  
11 LAKE LANE  
PRINCETON, NEW JERSEY**

**DR. NEAL ELGAR MILLER  
227 EVENT STREET  
NEW HAVEN, CONNECTICUT**

**DR. MARSTON MORSE  
40 BATTLE ROAD  
PRINCETON, NEW JERSEY**

**DR. MARSHALL WARREN NIRENBERG  
7723 OLD CHESTER ROAD  
BETHESDA, MARYLAND**

**DR. JULIAN SCHWINGER  
PHYSICS DEPARTMENT  
UNIVERSITY OF MIAMI  
MIAMI, FLORIDA**

January 21, 1965

Dear Mr. Dennis:

As Mr. Ivan Sinclair promised you in his letter of December 15, there has been further discussion with the appropriate Government officials on the matter of "audioscribing," as described in your letter of December 2. The general conclusion was that it is not propitious at this time for the President to establish a commission, or call a conference, to contemplate the revision of the alphabet.

All those concerned wish me again to express appreciation for your suggestions.

Sincerely,

(signed) D. F. Hornig  
Donald F. Hornig  
Director

Mr. William M. Dennis  
Educational Developments  
2652 Boyd  
Grandview Heights  
Des Moines, Iowa 50317

RB:JTurner:jb:1-19-65  
Bcc: RB file and chron  
S&T file and chron  
WH (2)  
DFT chron  
S&T Control No. 2073

**January 21, 1965**

**Dear Dr. Droeessler:**

**On January 13, 1965 I sent you a report by Mr. Thomas F. Scanlin describing his experiments in rainmaking. He has now sent me a copy of a proposal which he submitted to the National Science Foundation in 1963. This proposal indicates his reasons for using hydrogen as an agent for rainmaking. You may wish to consider this second document jointly with the earlier one in making your evaluation.**

**Sincerely,**

**(signed) Donald F. Hornig**

**Donald F. Hornig  
Director**

**Enclosure:  
Proposed Study**

**Dr. Earl Droeessler, Head  
Section on Atmospheric Sciences  
National Science Foundation  
1951 Constitution Avenue, N. W.  
Washington, D. C. 20550**

**cc: Dr. Hornig - Chron ✓  
Mr. Linsley - Chron  
Mr. Linsley - Subject  
S&T - Chron  
S&T - Subject**

**RKLinsley, Jr.:paw**



January 21, 1965

MEMORANDUM FOR

Mr. Bill Moyers  
Special Assistant to the President

Some months ago I raised the very serious problem which this Office has regarding the inadequacy of office space for its employees. At the time we had been forced to double up some of our senior staff men, and the situation has since become decidedly worse because of the loss of some offices which had been loaned to us. The situation we are now in makes it extremely difficult for us to persuade outstanding men that their services are needed by the White House.

It was entirely understandable that sacrifices in comfort and convenience would follow the assassination and would also be required during the period of the campaign. These matters are behind us, however, and I should like to urge again that our very grave needs be given further consideration. I have specifically in mind, for example, the space which is shortly to be vacated by Dr. Stafford Warren and which has the important advantage of being located very close to our existing office space. We would hope very much that additional conveniently located space could also be found.

I would welcome an opportunity to discuss this with you further.

(signed) Don

RBarlow:jb:1-21-65

Bcc: RB file and chron  
S&T file and chrono

MLC

DPH chron

Donald F. Hornig  
Director

January 21, 1965

Dear Mr. Schary:

Thank you for your letter of January 12th. Mrs. Hornig and I would be delighted to accept your invitation to attend the annual dinner of the Anti-Defamation League of B'nai B'rith on February 3rd, and we both look forward to the pleasure of seeing you there.

Sincerely,

Donald F. Hornig  
Special Assistant for  
Science and Technology

Mr. Dore Schary  
Anti-Defamation League of  
B'nai B'rith  
315 Lexington Avenue  
New York, New York 10016

**January 19, 1965**

**Dear Mr. Feldmann:**

**The President regrettably has found it impossible in the press of other matters to respond to your telegram regarding the retirement of Dr. John C. Warner.**

**In his place, however, I should like to acknowledge the great esteem in which Dr. Warner is held throughout the communities of science, technology, education and industry in this country. Forty years of teaching, of which nearly fifteen have been spent at the head of one of the nation's finest engineering institutes, is a remarkable career by any standards. On top of this, Dr. Warner has made notable direct contributions to science and has served his several professions and his country in many capacities. His association with the national atomic energy program has been especially close, embracing his wartime efforts for the Manhattan District and his service on the General Advisory Committee of the Atomic Energy Commission.**

**Carnegie Tech has expanded and flowered under his wise leadership, and it seems to me that both the Institute and Dr. Warner can justly take great pride in each other. I have been delighted to learn that Dr. Warner will continue to use his great energy and experience on behalf of industry, and would wish for him the continuing rewards that go with challenge and opportunity.**

**Sincerely yours,**

**(signed) Donald F. Hornig**

**Donald F. Hornig  
Special Assistant for  
Science and Technology**

**Mr. Eric Feldmann  
The Carnegie Tech Tartan  
Carnegie Institute of Technology  
Pittsburgh, Pennsylvania**

**RBarlow/jb:1-21-65  
Bcc: RB file and chron  
S&T file and chron  
WH (2)  
DFH chron  
S&T Control No. 0049**



January 19, 1965

MEMORANDUM FOR

Mr. Holborn


On January 28, 1965, Dr. Philip Morrison will be awarded the Oersted Medal by the American Association of Physics Teachers for his contribution to science teaching. I would like to suggest strongly that President Johnson send Professor Morrison a telegram of congratulations. A suggested text is attached.

**"Don Hornig"**

Donald F. Hornig  
Special Assistant for  
Science and Technology

Attachment

DFH/eac

DFH Chron   
S&T Files, S&T C<sup>H</sup>ron.  
Dr. Turner

January 18, 1965

Dear Mr. Cole:

I'm very sorry for the delay in replying to your letter of November 17th. I had been out of the country when your letter arrived and, unfortunately, it got buried in the pile of mail awaiting my return.

I believe it would be very appropriate for Washington, D. C., to serve as the host city for the National Science Fair-International in the near future. As the center of administration for scientific activities of the Federal Government, and as the location of several major laboratories such as the National Bureau of Standards, it seems to me that Washington would have special appeal to the young people involved in your program.

Sincerely,

(Signed) Donald F. Hornig  
Donald F. Hornig  
Director

Mr. Ralph L. Cole  
Chairman, Ad Hoc Committee  
1970 Science Fair  
417 Blair Road  
Falls Church, Virginia

RB,jb;eac

DFH Chron., Barlow Chron. S&T Files S&T Chron.

**January 18, 1965**

**Dear Bob:**

**Thank you for your letter of January 8th.**

**At your request, I am reluctantly accepting your resignation as a consultant to this Office. We greatly value your past contributions to the work of the President's Science Advisory Committee and hope that we may hear from you when the pressures of other duties have subsided to the point where it is feasible to reestablish a consulting relationship.**

**My best wishes to you in your future endeavors.**

**Sincerely yours,**

**(signed) Don**

**Donald F. Hornig  
Director**

**Mr. Robert N. Kreidler  
Director of Educational Affairs  
Alfred P. Sloan Foundation  
630 Fifth Avenue  
New York 20, New York**

**DZBeckler;khb**

**CC: DFH subj. & chron**

**Mr. Barlow  
Mrs. Graff  
Mr. Beckler  
S&T File  
S&T Chron**



January 18, 1965

**MEMORANDUM FOR**

**Bill Moyers**


**Subject: HEW Draft Bill "Regional Medical Complex Act of 1965"**

I believe submission of this bill to the Congress on January 18th offers serious hazards to the Medicare legislation.

This bill is intended to implement the report of the Commission on Heart Disease, Cancer and Stroke. It provides that the Federal Government provide direct medical care from general revenues. This would contradict the position the President has taken that Medicare should be funded through the Social Security mechanism. It also gives the American Medical Association further grounds for contending that the Federal Government intends to gradually take over medical care. It is not so much that there is anything seriously wrong with the proposal as that it is very unclear and will badly muddy the waters.


In addition to these serious political considerations, the bill itself is incompletely thought out and contains many important ambiguities which have not been resolved within the Department of Health, Education and Welfare.

In view of the potential embarrassment which introduction of the bill now may cause, I recommend strongly that its submission be delayed until these and other problems connected with it are resolved.

  
**Donald F. Hornig**  
Special Assistant for  
Science and Technology

PB;EFH;eac

EFH Chron., PB Chron. & File, S&T Chron. & File, CMM File



January 18, 1965

MEMORANDUM FOR  
THE PRESIDENT

I noted with interest that my name was not included on the list of Special Assistants issued at the ranch on Saturday. A similar omission occurred in a previous list but George Reedy assured me then that it was inadvertent. Naturally, since I was appointed by you last January, the new list has raised questions in my mind concerning my status--as it will also in the minds of those with whom I must deal.

I don't know whether there is a genuine problem but would like an opportunity to discuss it with you if there is. Otherwise, it seems to me that George ought to issue a formal correction if I am to discharge my responsibilities adequately.

DFH/eac

DFH File & Chron.

Donald F. Hornig  
Special Assistant for  
Science and Technology

January 17, 1965

**MEMORANDUM FOR**

**Mr. Valenti**

I have underlined the most important parts of the businessmen's conclusions and provided a brief guide to the big red books.

If the President desires, I could go a step further and write a two-page summary. This risks distortion, however.

(signed) Don

**Donald F. Hornig  
Special Assistant for  
Science and Technology**

**Attachments:  
Memo to President  
Material from Business International**

DFH/eac

→ **DFH Chron.  
S&T Files  
S&T Chron.  
Dr. Tobin**

**Re S&T No. 0026**



January 16, 1965

Dear Mr. Mesthene:

Thank you for your letter of January 8th. I shall put May 22nd down on my calendar for the meeting of the Committee at Harvard and will do my best to attend.

Sincerely,

Donald F. Hornig  
Director

Mr. Emmanuel G. Mesthene  
Executive Director  
Harvard Program on Technology and Society  
Harvard University  
Morgan Hall, Soldiers Field  
Boston, Massachusetts 02163

eac

tickle 5/22

87H  
Cham

January 15, 1965

**MEMORANDUM FOR**

**THE PRESIDENT**

In accordance with your request I have gone through the attached material given to you by the Business International group that recently visited Moscow. The most important report here is the mimeographed paper entitled "Views Based on the Business International Roundtable" (which I have marked as No. I). This represents the considered judgment of the businessmen's group after their discussions in Moscow. I have underlined in red pencil the passages in which you might be most interested and I would say that if your time is limited these underlined passages will provide a concise summary of the main points involved. The obstacles to trade arising from both sides are summarized on pages 5-7 and the final conclusions of the group which explain their support for increased U.S. - Soviet trade are on pages 7-8.

The second mimeographed report "Summary of Observations, Business International Roundtable" (which I have marked as No. II), provides the background findings of the group following their consultations in Moscow. Again I have underlined key passages in red pencil.

The "Briefing Paper", with a view of the Kremlin on the front cover, is a background document prepared before the visit to Moscow. It contains a massive amount of information on the Soviet Government, geography, economic resources, industrial management, economic growth, foreign trade, trading and licensing practices, and Western controls on trade with the East. It is backed up by a number of excellent charts and tables. If you have any time for this document I suggest that you might look at

- 1) the examples of recent Western technology acquired by the USSR (pp. 30-31);
- 2) the information on U. S. controls on trade with the East (pp. 35-40); and

- 3) Table 19 on the commodity breakdown of Soviet trade with the West (pp. 68-69).

The hard cover binder "Work Book" is a planning document that the group took with them to Moscow. It contains biographical data on the members of the American group and the Soviet industry leaders with whom they met, and also provides questions in advance to be studied by both sides before the meeting. If you would like to sample these questions, which are very interesting, you might turn to the Tab marked "Session 16" which contains questions bearing directly on Soviet-U.S.A. trade relations.

*"Don Hornig"*

Donald F. Hornig

**Attachments**

- (C - "Views Based on the Business Internatl. Moscow Roundtable"(I)
- C - Summary of Observations, Business Internatl. Moscow Roundtable" (II)
- U - Briefing Paper - Moscow USSR/Nov. 15-20, 1964
- U - Work Book)

IMTobin:gpw

cc: S&T Files  
S&T Chron  
DFH Chron  
IMT Chron

WH copies: 1 green  
1 white  
1 yellow

IMT/gpw



January 15, 1965

Dear Mr. Shimberg:

Thank you very much for your invitation to address the Society of Technical Writers and Publishers at their 12th Annual Convention to be held in New York in May. I was very interested to read the statement of the Society's history and objectives enclosed with your letter, and I am sure I would enjoy the opportunity to meet with your members at the convention. Unfortunately, however, my schedule for May is already over-committed, and I do not feel it would be possible to add an out-of-town speaking engagement to the list. Please accept my very best wishes for the success of your convention.

Sincerely,

Donald F. Hornig  
Director

Mr. H. L. Shimberg  
U. S. Naval Ordnance Laboratory  
White Oak,  
Silver Spring, Maryland

eac

Speech declines

When the attachments are removed,  
this document becomes **UNCLASSIFIED**

~~CONFIDENTIAL~~

January 15, 1965

Dear Herb:

You may find of use the enclosed copy of my Report to the President on our Russian trip with attachments and the Memorandum of Conversation of our final meeting with Rudnev on November 19.

Assistant Secretary Wyman expressed interest in documents of this kind when we met with him and you may wish to make them available to him. Perhaps Secretary Connor, when he has had time to settle in, might also be interested in seeing these documents.

I am sure you will appreciate that the copy of my report to the President should circulate only on a very restricted basis.

Sincerely,

(signed) Don

Donald F. Hornig  
Special Assistant for  
Science and Technology

Attachments (1. CONFIDENTIAL - Report to the President (copy) w. atts.  
2. OFFICIAL USE ONLY - Nov. 19, 1964 Final Meeting w.  
Deputy Premier K. N. Rudnev, re US/USSR Technological  
Honorable J. Herbert Holloman Cooperation)  
Assistant Secretary for Science and Technology  
Department of Commerce  
Room 5884 Commerce  
Washington, D. C. 20230

IMTobin:gpw  
cc: S&T Files  
S&T Chron  
DFH Chron  
IMT Chron

~~CONFIDENTIAL~~

January 14, 1965

Dear Phil:

The suggestions in your December letter have, in large part, been fulfilled. The President's mention of Population Control in his State of the Union Message has evoked widespread reactions and will, undoubtedly, lead to a much more intensive scientific effort to solve this problem.

As far as the NSF is concerned, all of the proposed changes discussed at the last PSAC meeting have been approved by the President and will be reflected in the new budget.

I look forward to seeing you at the next PSAC meeting and send my very best wishes until then.

Yours sincerely,

(signed) Don

Donald F. Hornig,  
Director

Dr. Philip Handler  
Duke University Medical Center  
Durham, North Carolina

PSB/emu Chron  
DFH/Chron ✓  
S&T File Population Control  
S&T Chron



January 14, 1965

Dear Dean Gelbart:

Thank you very much for your letter of January 11th. I feel deeply honored that you should recommend me for an honorary doctorate from Yeshiva and would be most pleased to accept it. It will add to my pleasure to receive it at a convocation for the Vice President.

With best regards,

Sincerely,

Donald F. Hornig  
Special Assistant for  
Science and Technology

Dr. A. Gelbart  
Dean  
Belfer Graduate School of Science  
Yeshiva University  
Amsterdam Avenue and 186th Street  
New York, New York 10033

DFH/eac

Ticke 3/7/65

January 14, 1965

**MEMORANDUM FOR**

**THE PRESIDENT**

**SUBJECT: Pollution of the Great Lakes**

In talking with Prime Minister Pearson, it would probably be a good idea to mention the Great Lakes pollution problem, which concerns both countries.

Pollution of the Great Lakes is becoming increasingly serious. The sources are domestic and industrial wastes and agricultural fertilizers. At present the effects are most evident in Lake Erie where in addition to other effects profuse growth of algae occurs with a serious decrease in water quality for domestic and industrial use and rapidly "aging" of the lake. Similar effects are present in the other lakes but to a lesser degree.

The International Joint Commission working with the U. S. Public Health Service and Canadian authorities has been concerned with pollution of the lakes but its activities have not been of sufficient scope nor has it had the resources to cope with the problems.

The International Joint Commission should be directed by the two governments to develop in cooperation with responsible government agencies a comprehensive plan for the abatement and prevention of pollution of the Lakes as a basis for further action by the Governments.

Donald F. Hornig

CMM:mts

cc: Dr. Hornig chron

CMM subj. and chron

Mr. Linsley/Dr. Buckley

S&T file and chron



January 14, 1965

MEMORANDUM FOR  
THE PRESIDENT

Re: Diversion of water from Rivers of the Canadian Arctic

A matter which might come up during your conversations with Prime Minister Pearson is the "Parson's plan," a breathtaking scheme by which enormous quantities of water from the Canadian Arctic would be diverted to provide power, industry, irrigation and transportation in Canada, the United States and Mexico.

This proposal has received a great deal of attention in the Canadian press in the last few weeks and has been criticized as a planned American "steal" of Canadian resources. Some Canadian Government leaders have also reacted sharply against it.

In case the Prime Minister should raise this, the background is as follows:

The United States and Canada share a problem in water use. Both nations have abundant supplies in some regions but not in others. Optimum use of water on the North American continent would be advantageous to both countries. At least one imaginative concept has been proposed during the last year--described as the North American Water and Power Alliance (NAWAPA) concept.

The plan is summarized as follows from a very preliminary report by the Ralph M. Parson & Company which suggested the concept. The North American Water and Power Alliance concept consists of utilizing the tremendous quantities of water that fall annually in Alaska, Canada, and the northwestern United States. Water now wasting to the sea in these areas would be collected and stored in an interconnected system of reservoirs at elevations varying up to 5000 feet. Approximately 663,000,000 acre-feet per year would thus be available for power development and



other water usage in Canada, the United States, and Mexico. From this total amount approximately 100,000 megawatts of gross power would be produced of which 70,000 megawatts would be sold for revenue; approximately 110,000,000 acre-feet per year of water would be utilized for irrigation, industrial usage, and domestic consumption in areas of deficiency; and in addition approximately 40,000,000 acre-feet per year would be directed into the Great Lakes to alleviate falling water level and pollution.

To place this plan in perspective it can be noted that the normal flow of the Colorado River is 16 million acre-feet. The flow of the Columbia River is 141 million acre-feet. Total stream flow in the U. S. west of the Rockies is roughly 332 million acre-feet. Thus, NAWAPA envisions a development over four times as large as the Columbia River and twice as large as the total U. S. water potential west of the Rocky Mountains.

Senator Moss, Chairman of the Special Subcommittee on Western Water Development of the Senate Public Works Committee, announced last April that his subcommittee would study the NAWAPA plan.

As indicated above, the concept has been criticized by the Canadian press as a "steal" of Canadian resources. Yet some such imaginative plan might be in the long-range interest of Canada, the U. S., and Mexico. The plan has, however, not yet been studied carefully within the U. S. Government.

Donald F. Hornig

CMM;eac

CMM Chron.

DFH Chron. ✓

S&T Files

S&T Chron.

CMM Files

Dr. Buckley files

January 14, 1965

MEMORANDUM FOR

Bill Hopkins

The Study of the National Institutes of Health initiated by President Kennedy and continued by President Johnson has been completed. Publication costs for this White House document have been estimated between \$1500 and \$2000 for those copies to be distributed from here. Since the public demand for this document will be heavy, we can leave major distribution and responsibility of publication to the Superintendent of Documents. Would you please o.k. this expenditure so that Carson Howell can issue a requisition? Many thanks.

"Don Hornig"

Donald F. Hornig  
Special Assistant for  
Science and Technology

PSB/emu Chron  
DFH/Chron ✓  
DFH/Sub.  
S&T File NIH  
S&T Chron

January 4, 1945

Dear Mr. Elliott:

As you leave the Congress, I want you to know how much I and my colleagues throughout the Executive Branch appreciate the energy and imagination you have given to the work of the Select Committee on Government Research.

I have looked through the volumes of your reports and I think that they set a high standard for future cooperation between the Executive Branch and the Congress in meeting their joint responsibilities for the health of American science and technology. The reports are a tribute to your leadership and to the quality of the work of your Committee and its exemplary staff.

Again, thank you for your conscientious efforts, and please accept my very best wishes for the future and for your early return to public service.

Cordially,

(signed) Donald H. Hornig

Donald H. Hornig

*Director*

Honorable Carl Elliott  
Chairman, Select Committee  
on Government Research  
House of Representatives  
United States Congress

SRRivkin:gl  
DISTRIBUTION:  
1-addressee  
2-DFHornig chron  
3-4 - Cong'l files  
5-6 - OST subj & chron  
7-8 - SRRivkin files



January 13, 1965

Dear Viki:

I have had in mind your letter of December 17 about Cecil Powell but wanted to go into your question fully before responding. Regrettably I can't give you the kind of assurance that you would like to have. As you may know, under the law Powell would need a "waiver" from the Attorney General to receive a visa, and a decision in such a case can only be made when there is a concrete application for entry. There is no way for anyone to predict the decision on a hypothetical basis.

Of course if, at the time of application, Powell were the Director General of CERN I imagine this would be a pertinent factor to be taken into account, and one likely to have a positive influence on the decision. Also, since each application is acted on separately, earlier denial of a visa to Powell would not necessarily preclude a favorable decision. Individuals have been known to receive a visa despite a previous denial. However, I reiterate that there is simply no way in which any assurance can be given. You will just have to weigh this element of uncertainty as best you can in your consideration of the matter.

I am always glad to hear of CERN developments, so I hope it will not be too long before we have another chance to get together.

Sincerely,

(signed) Don

Donald F. Hornig  
Special Assistant for  
Science and Technology

Professor Victor F. Weisskopf  
Director General  
CERN  
Geneva, Switzerland

IMTobin:gpw  
cc: S&T Files  
S&T Chron  
DFH Chron  
IMT Chron

**January 13, 1965**

**MEMORANDUM FOR**

**The President**

**The Task Force on Environmental Pollution, which did such an outstanding job, was different from your other task forces, in that it was also a Panel of your Science Advisory Committee. It is continuing, as a Panel to consider a series of questions related to Environmental Pollution. The topics presently under consideration include:**

**Manpower**

**Effects of pollutants directly on man**

**Effects of pollutants on living organisms other than man**

**Soil pollution**

**Disposal of solid wastes, including junk cars**

**Monitoring**

**Biological control of pests**

**Supersonic transport and cloud formation**

**The effects of carbon-dioxide on climate**

**Improvement of equipment useful in pollution control**

**Separation of sanitary wastes and storm water run-off**

**Nitrogen and phosphorus enrichment of waters**

**The subpanels will report in May, and a final Panel report will be finished in the Fall.**

**May I suggest letters of thanks to the Task Force members, even though they are continuing work on the problem as members of a PSAC Panel.**

**Don Hornig**

JLB:shb Chron

S&T Chron

S&T Files - env. poll. panel

JLB

DFH Files ✓

**Donald F. Hornig  
Special Assistant for  
Science and Technology**

**January 13, 1963**

**Dear Dr. Dreesler:**

**Enclosed is a letter and report from Mr. Thomas F. Scanlin concerning some experiments in rainmaking which he conducted during 1964. I would appreciate your advice on the merits of his ideas and suggestions concerning further action, if any is indicated. We will reply to Mr. Scanlin after receiving your comments.**

**Sincerely,**

*(signed) Donald F. Hornig*

**Donald F. Hornig  
Director**

**Enclosures:**

- 1. Letter**
- 2. Report**

**cc: Dr. Hornig - Chron ✓  
Mr. Linsley - Chron  
Mr. Linsley - Subject  
S&T - Chron  
S&T - Subject**

**Dr. Earl Dreesler, Head  
Section on Atmospheric Sciences  
National Science Foundation  
1951 Constitution Avenue, N. W.  
Washington, D. C. 20550**

**RKLinsley, Jr. :paw**



January 13, 1965

Dear Admiral Moorer:

Thank you very much for your letter of 9 January. I will be arriving in Honolulu on the 28th and can stay until the 30th. Naturally I am interested in Pacific Naval operations in general, but on this visit I would like to pay particular attention to anti-submarine warfare problems. I am therefore bringing with me the Chairman of my ASW panel and one of its members. As far as I know, the arrangements are proceeding very smoothly. I shall look forward to seeing you.

Sincerely yours,

Donald F. Hornig  
Special Assistant for  
Science and Technology

Admiral T. H. Moorer, USN  
Commander in Chief  
United States Pacific Fleet  
Fleet Post Office  
San Francisco, California

DFH/eac

Hawaiian trip file

**January 13, 1965**

**Dear Mr. Scanlin:**

**Thank you for the material you sent me on rainmaking. Since I do not have a meteorologist on my staff, I have taken the liberty of sending it to the National Science Foundation which has very good people in this area. I will write again after I have heard from them.**

**Sincerely,**

**(signed) Donald F. Hornig**

**Donald F. Hornig  
Director**

**Mr. Thomas F. Scanlin  
63 Roundwood Lane  
Levittown, Pennsylvania**

**cc: Dr. Hornig - Chron ✓  
Mr. Linsley - Chron  
Mr. Linsley - Subject  
S&T - Chron  
S&T - Subject**

**RKLinsley, Jr.:paw**

13 January 1965

Dear Frank:

Thanks for your note of January 5 on the progress of your Earthquake Panel. I am sorry not to have kept in closer touch as the work progressed. Dave Robinson has shown me your letter of January 7, and I am pleased with the result so far.

As you probably know, we have postponed any major activity in Fiscal 66 on earthquake prediction until your report comes out.

I would certainly wish to talk with you more about it when our paths cross. I think it would be particularly worthwhile to be sure to get together before you go to Japan.

Best personal regards.

(Signed) Don

Sincerely,

Donald F. Hornig  
Director

Dr. Frank Press  
Director  
Seismological Laboratory  
220 North San Rafael Avenue  
Pasadena, California

DZRobinson:hh

S&T

S&T

~~DEH~~

DZR

DZR



13 January 1965

Dear Leland:

Many thanks for sending me a copy of the Fifth Annual Report on Weather Modification. I have indicated to the White House that it should be sent to the Congress.

However, I do have a couple of general comments on the report which, since we did not have a chance to comment before publication, might as well be made with regard to future reports. I found the body of the report, on pages 5 through 40, very worthwhile, describing many of the federal and non-federal activities, although I would have thought that perhaps some mention of the special Commission of the Foundation could have been made. Nevertheless, I must admit that I found the Introduction somewhat confusing. It does not appear to make clear what the state of weather modification is, or even to indicate too well that the situation is unclear.

I could cite a lot of detailed questions in my mind, but I guess that my chief problem with the Introduction is that it does not appear to give a very clear picture of the direction the NSF research in this area should go in the next few years. Perhaps this is because we should wait for the various commissions and committees to report. Perhaps there are other good reasons,

but in any event I do not feel that I can get from it much guidance as to where we should go. Perhaps that was not the intention of the Introduction.

I do hope that in future years we might have an opportunity to comment on the report when it is in an earlier state of preparation.

Sincerely,

(Signed) Don

Donald F. Hornig  
Director

Dr. Leland J. Haworth  
Director  
National Science Foundation  
1951 Constitution Avenue, N. W.  
Washington, D. C.

DZRobinson:hh

S&T

S&T

~~DFH~~

DZR

DZR

S&T 2056

**January 13, 1965**

**Dear Mr. Litchford:**

**Thank you for your letter of January 3, 1965 concerning the operation of the helicopter air lines.**

**The decision of the President on this question has not yet been announced, and so it would be inappropriate for me to discuss it in detail at this time. However, the whole matter has been the subject of serious review and I feel sure that it has received the careful consideration of the President in arriving at his own conclusion.**

**Sincerely,**

**(Signed) Donald F. Hornig**

**Donald F. Hornig  
Special Assistant for  
Science and Technology**

**Mr. George B. Litchford  
32 Cherry Lawn La  
Northport, L.I., N.Y.**

→ **DFH Chron  
DHS Chron  
DHS Subj  
S&T Chron  
S&T Subj**

**DHS:hk**

*DFH*  
*Concurred by BSB*  
*(see attached draft)*



**January 13, 1965**

**MEMORANDUM FOR : Mr. Frederick L. Halborn  
The White House**

**SUBJECT : Presidential Message to the National Society of  
Professional Engineers Commemorating National  
Engineers' Week**

The efforts of the National Society of Professional Engineers to make use of "Engineers' Week" in a constructive fashion warrants a short Presidential Message. You will note - from Mr. Rebbins' letter of January 6th, attached - that this Message would find its way into many publications and many classrooms -- hence, the emphasis on the selection of a second high school program.

Early action is suggested, as NSPE wishes to publish and distribute the Message before the end of this month.

*10/2/65* *Donald F. Hornig*

**Donald F. Hornig**

**Attachments**

**WLHoeper:gl**

**DISTRIBUTION:-**

**1-addressee**

**2-Hornig Chron file**

**3-OST chron file**

**4-OST lsubj file**

**5&6-WLHoeper files**

**DRAFT PRESIDENTIAL MESSAGE  
TO THE  
NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS  
COMMEMORATING NATIONAL ENGINEERS' WEEK**

The position of the United States as the foremost industrial power rests, in considerable measure, on technological leadership. Our engineering prowess is second to none--and we must keep it that way. In the past, the American engineer has contributed much to the preservation of national well-being and security. The exciting engineering tasks of tomorrow are only dimly seen today. New horizons beckon to us beneath the sea, in space, and in the interior of the earth. The greatest challenges will be related to improving the life of man. Better housing, modernization of transportation, freedom from the hazards of air and water pollution, greater control over the destructive forces of nature, and the establishment of a new and attractive urban environment -- these are all urgent tasks.

During National Engineers' Week, I ask the members of the profession to assist in meeting these challenges by dedicating themselves to an even more active interest in our young people who will bear the engineering responsibilities of the future. Many high school students - particularly the children of disadvantaged families - are unaware of engineering career opportunities and often fail to obtain a sound preparation for college study. The engineering societies and their membership can contribute by providing guidance and information to students, parents, and school counselors. Technical talent of America's youth must be nurtured if we are to make the best use of new knowledge in the building of a better society.

13 January 1965

Dear Lee:

As you know, the Whitford Committee of the National Academy of Sciences has written a report on the need for ground-based astronomy facilities over the next decade. I found the report very interesting and worthy of serious consideration by the government agencies.

Accordingly, I would like to ask the National Science Foundation to take the lead in establishing an ad hoc group of agency representatives to develop for this Office a government-wide assessment of the recommendations of the Whitford report. This assessment should include suggestions for alternate future programs, their costs and time of construction. The group should consider the following:

- a. The present agency programs and their plans to construct new facilities in optical and radio astronomy.
- b. Other facilities which could be supported under the agency concepts of their mission but which are of lower priority.
- c. The capability of the industry to supply and the astronomers to build and utilize the number of telescopes proposed.
- d. The research and operating costs of astronomy programs which would be carried out with these instruments, based on agency experience.



- e. Appropriate organizations and sites for the facilities.

If you are agreeable to the establishment of such a group under NSF leadership, I would appreciate receiving a report by April 1.

Sincerely,

(signed) Don

Donald F. Hornig  
Director

Dr. Leland J. Haworth  
Director  
National Science Foundation  
1951 Constitution Avenue, N. W.  
Washington, D. C.

DZRobinson/DZBeckler:hh  
S&T  
S&T  
~~DFH~~  
DZR  
DZR

13 January 1965

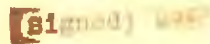
Dear Fred:

I want to thank you for transmitting the report of the Whitford Committee "Ground-Based Astronomy; A Ten-Year Program." I found the report very interesting and worthy of serious consideration by the Government agencies.

Accordingly I have asked the National Science Foundation to take the lead in establishing an ad hoc group of agency representatives to develop for our office a government-wide assessment of the recommendations of the Whitford report, including suggestions for alternate future programs, their costs and time of construction. After we have made this assessment, I think the Government agencies can plan their program in a more useful manner.

I wish you would convey my appreciation to the members of the Whitford Committee. Their efforts have produced a report whose impact on the science will be of long duration.

Sincerely,

 (signed) DHF

Donald F. Hornig  
Director

Dr. Frederick Seitz  
President  
National Academy of Sciences  
2101 Constitution Avenue, N. W.  
Washington, D. C.

DZRobinson:hh

S&T

S&T

DFH

DZR

DZR

Dr. Hanning

January 13, 1965

Dear Mr. Carter:

Because President Johnson is so intensively involved in the many activities which come with the opening of a new Congress and plans for the inauguration in addition to the normal government operations, I have been asked to reply to your letter of January 5.

Engineering has been defined in many ways but one concise definition describes engineering as "the control of the forces of nature for the benefit of mankind." Examples of the benefits of engineering are abundant -- buildings, dams, irrigation systems, aids to air and sea navigation and many others. The demands on engineering technology are not static. Water and waste treatment systems have virtually eliminated waterborne disease in the United States. We must help to extend this protection to less fortunate countries and we must gain control of other stream pollutants which are injurious to man, aquatic life and natural beauty.

We must provide for urban and interurban transport, for industrial growth and for an expanding population but in doing these things we must protect the air we breathe from pollution and prevent the despoiling of our land with the waste products of civilization.

There are many other jobs for engineers to do. We must press forward on our exploration of outer space and on the development of peaceful uses for the skills



we gain there. At the same time, we must intensify our exploration of inner space -- the depths of the oceans and the continents -- in a search for understanding and resources. We must house, clothe, feed and find jobs and recreation for an expanding population. We must control waste and inefficiency in the use of all of our resources.

Engineers, working together with our natural and social scientists, will play a leading role in seeking solutions to the problems which we can foresee now and in anticipating future problems before they become serious. I extend my best wishes for the success of the twelfth annual convention of the Consulting Engineers Association of California with confidence that your members will meet the challenge of the present and future with the same skill that they have displayed in the past.

Sincerely,

(signed) Donald F. Hornig

Donald F. Hornig  
Special Assistant for  
Science and Technology

Mr. Hugh C. Carter, President  
Consulting Engineers Association of California  
800 West Colorado Boulevard  
Los Angeles, California 90041

cc: WH Files (2)  
Dr. Hornig - Chron ✓  
Dr. Hornig - Subject  
Mr. Linsley - Chron  
Mr. Linsley - Subject  
S&T Files (2)

RKLinsley, Jr. :paw

January 13, 1965

MEMORANDUM FOR  
THE PRESIDENT

Re: U. S. -Japanese Cooperation in the Health Field

We have had extensive collaborative programs between the United States and Japan in the health field for many years in a number of fields. Both of us have gained much from this collaboration in the past, but we have much more to gain in the future not only for our two countries but for the health of peoples of the whole Pacific area.

I propose that we enlarge our common efforts in the following important areas of health and disease:

1. The long term effects of irradiation on man. Collaborative studies have been going on since 1945 in Japan and we must continue them in the future.
2. Pollution of the Air: This is of great importance to both our countries and we should attack it jointly.
3. Effects of pesticides: A joint conference to initiate these studies will be held in Hawaii in April 1965.
4. Malaria: This is still the most important disease of man and we have strong common interests in controlling it.
5. Cholera: This disease is of great current importance throughout the Western Pacific. We must increase our efforts. An International Conference is to be held in Hawaii in January 1965 including participants from the U. S., Japan and many other countries.



6. Tuberculosis: We should press forward in our research so that we can control and hopefully eradicate this dread disease that affects so many of the world's people.

7. Cancer and Heart Disease: The differences in these diseases make it of great importance to study them jointly.

8. Schistosomiasis: A snail-borne disease and one of the great scourges of much of the earth. We must increase our joint efforts toward prevention and treatment.

I propose a high level conference of medical scientists from both countries to meet in the very near future. Such a delegation from the U. S. would be led by Dr. Colin MacLeod, Deputy Director of the Office of Science and Technology, and might include the following members:

Effects of pesticides: Dr. Stanley Bennett, Dean, Division of Biological Sciences, University of Chicago

Air Pollution: Dr. James Whittenberger, Harvard University

Genetics: Dr. Joshua Lederberg (Nobel Laureate), Stanford University

Effects of Atomic Irradiation: Dr. R. Keith Cannon, Director, Division of Medical Sciences, National Research Council

Malaria: Dr. Leon Schmidt, Primate Center, University of California, Davis; Dr. Harry Most, New York University; Dr. Thomas Weller (Nobel Laureate), Harvard University

Cholera: Dr. Robert Phillips (Captain, USN), NAMRU-2, Taiwan; Dr. Abraham Benenson, SEATO Cholera Research Laboratory, Dacca, East Pakistan; Dr. Theodore Woodward, University of Maryland; Dr. Albert Sabin, University of Cincinnati

Studies on Cancer: Dr. Kenneth Endicott, National Cancer Institute  
Dr. Frank L. Horsfall, Jr., Sloan-Kettering Inst., NY

Studies on Heart Disease: Dr. Irvine Page, Cleveland Clinic, Cleveland, Ohio; Dr. Michael de Bakoy, Baylor University, Houston, Texas



Citizen interest and competence: Mr. Marion B. Folsom,  
Director, Eastman Kodak Company, Rochester, NY

Donald F. Hornig

January 12, 1965

Dear Dick:

I have given a great deal of thought to your recent letter and want you to know that I fully appreciate the effective work that you and your panel have been doing, especially with respect to the CX-NLS. I have attempted to put the results of your work to effective use and believe, in fact, that I have done so. Nevertheless, I believe that you should put two questions squarely to the PSAC: (1) Is PSAC prepared to adopt the panel position? (2) Does PSAC believe this to be an issue which should be brought to the attention of the President? These questions are obviously interrelated but their discussion is clearly within the province of the President's Science Advisory Committee.

I want to assure you that I would not regard your doing this as being personal in any sense, for PSAC is the proper forum to consider such issues. They are all intelligent people who have not been directly involved in the debates thus far, apart from the short presentation you made to them, and they are certainly in a position to test the adequacy of the arguments you have prepared. Moreover, they have experience in selecting those issues which are of sufficient import to bring directly to the President's attention.

Please be assured that I will make every effort to present PSAC's view to the President should they decide that this is appropriate.

Sincerely,

D. F. Hornig  
Special Assistant for Science  
and Technology

Dr. Richard L. Garwin  
IBM Watson Laboratory  
612 West 115th Street  
New York, New York 10025

January 12, 1968

Dear Herb:

This is to acknowledge for the President your letter concerning attendance at the dinner in honor of the Prime Minister of Japan.

You can be sure that the President appreciates your desire to get on with the Appello review for him.

With warm regards,

Sincerely yours,

(Signed) Don

Donald F. Hornig  
Special Assistant for  
Science and Technology

Dr. Herbert F. York, Jr.  
Chancellor  
University of California, San Diego  
P. O. Box 109  
La Jolla, California 92038

DZBeckler;DFHornig;khb  
CC: Social Office, WH  
WH Files(2) w/incoming letter  
DFH subj. & chron  
Mr. Beckler  
S&T File w/copy of incoming letters  
S&T Chron



January 12, 1965

Dear Van:

Regarding your inquiry, the Office of Saline Water has just acquired a new Director whose name is Frank C. DiLusio. May I suggest that your friend contact DiLusio directly at the following address:

Office of Saline Water  
1107 - 16th Street, N. W.  
Washington, D. C.

I hope that this information will be of some help to Dr. Dixon.

I was pleased to hear that the American Institute of Physics will be in good hands. Congratulations and best wishes for your success.

Sincerely,

Donald F. Hornig  
Director

Dr. Van Williams  
4 Tower Road  
Riverside, Connecticut

DFH/eac

"W"

**12 January 1965**

**Dear Herb:**

**With reference to your letter of January 4,  
I would like to nominate Irwin M. Tobin to  
serve on the policy working group, and  
David Z. Robinson to be an observer on  
the technical working group, of the Inter-  
agency Committee for International  
Meteorological Programs.**

**Sincerely,**

**(signed) Don**

**Donald F. Hornig  
Director**

**Dr. J. Herbert Hollomon  
The Assistant Secretary of  
Commerce  
Washington, D. C. 20230**

**cc: Irwin M. Tobin**

**dzt:hh**

**S&T**

**S&T**

**DPH**

**DZR**

**DZR S&T 0007**

12 January 1965

**TO:** Kermit Gordon  
Director, Bureau of the Budget

**FROM:** Donald F. Hornig

I enclose a copy of the final version of the AEC High Energy Physics report.

I am trying my hand at drafting a letter of transmittal from the President to the Congress, and I hope to get together with you when my draft is done.

**Enclosure:**  
**Policy for National Action**  
**in the Field of High Energy**  
**Physics, 1/6/65 (S&T 0038)**

*S/D.H.*

DZRobinson:hh  
S&T  
S&T  
~~DFH~~  
DZR  
DZR



Distribution:

Orig. +4 - CSchafer  
Bcc: RB file and chron ✓  
S&T file and chron  
DFH chron  
MLC

January 12, 1965

**MEMORANDUM FOR**

**Kenneth Gordon**  
**Director, Bureau of the Budget**

I hereby request a supplemental appropriation of funds in the amount of \$74,835 to cover salary expenses and related costs resulting from the pay increases provided by Public Law 88-434. Since the Fiscal Year 1965 budget as approved by Congress was less than that requested by the Office of Science and Technology and since the pay act was passed after the OST budget submission, we have no funds with which to absorb these additional costs. Those funds originally appropriated are fully committed and cannot accommodate additional expense.

I hereby certify that I have reviewed with meticulous care each vacancy resulting from voluntary resignation, retirement, or death to determine whether the duties of the position can be reassigned to other employees or whether the position can be abolished without seriously affecting the execution of essential functions.

OST currently has one vacant professional staff position which it is actively seeking to fill. It is anticipated that this vacancy will not exist by June 30, 1965. Moreover, the President has approved the OST request for seven additional positions in Fiscal Year 1964. It therefore does not appear that any cuts can be made without serious detriment to fulfillment of our mission.

(signed) Donald F. Hornig

**Donald F. Hornig**  
**Director**

RB:MLChatrnoch:jbl-11-65

January 11, 1965

Dear Chick:

Thank you very much for your letter of January 4th. Subsequently, Harold Brown also relayed your kind invitation to stay with you at your quarters. I have asked him to accept for me with great pleasure. I shall look forward to seeing you and learning more about the ASW business in the Pacific. I will bring with me Dr. Richard Garwin, Chairman of my ASW Panel, and Dr. Gordon MacDonald, one of its members.

I plan to go straight out to Maui on the 26th and to proceed to Honolulu on the 28th. I should be available that afternoon for briefings.

I look forward to seeing you once more.

With best regards,

Sincerely yours,

Donald F. Hornig  
Special Assistant for  
Science and Technology

Vice Admiral John T. Hayward, USN  
Commander  
Antisubmarine Warfare Force Pacific  
Fleet Post Office  
San Francisco, California

DFH/eac

January 11, 1965

Dear Bob:

The enclosed will interest you. As you will see, the President referred most warmly to our meeting with him, as he has done several times in the past few weeks.

Sincerely,

(Signed) Don

Donald F. Hortaig  
Special Assistant for  
Science and Technology

Enclosure (Jan. 7, '65 White House Press Release  
"Remarks of the President, Secy. Hodges, &  
Mr. Blackie with a number of Businessmen  
who visited Moscow as participants in the Moscow  
Dr. Robert L. Hershey Roundtable under the auspices  
Vice President of Business International)  
E. I. du Pont de Nemours & Co., Inc.  
Wilmington, Delaware

Identical letter to:

IMTobin:gpw  
cc: S&T Files  
S&T Chron  
DFH Chron  
IMT Chron

Dr. (Jim) Fisk  
Dr. (Mannie) Piore



**January 11, 1965**

**Dear Dr. Rudder:**

**I am much pleased to learn of the plans for the 1965 International Conference: "Modern Trends in Activation Analysis," at Texas A&M University, and wish to extend my best wishes to the delegates who will attend.**

**Nuclear activation analysis and other aspects of isotope technology constitute an important branch of science which deserves to be encouraged. It is especially gratifying to note the cooperative sponsorship of this meeting by the International Atomic Energy Agency, the European Atomic Energy Community, the United States Atomic Energy Commission, and the Texas A&M University.**

**I wish all of the delegates success in their efforts and deliberations.**

**Sincerely yours,**

**(signed) Donald F. Hornig**

**Donald F. Hornig  
Special Assistant for  
Science and Technology**

**Dr. Earl Rudder  
President  
Texas A&M University  
College Station, Texas**

**RBarlow:jb:1-8/11-65  
Bcc: RB file and chron  
S&T file and chron  
DFH chron**

January 11, 1968

**MEMORANDUM FOR**

**John W. Macy, Jr.**  
**Chairman**  
**U. S. Civil Service Commission**

Thank you for relaying the name of Dr. Zarem for possible PSAC membership. He participated in a recent session we conducted on problems of civilian technology and, in this connection, there has been some opportunity to see him in action. My feeling is that it would be better to involve him in future panel activities or in consulting for one of the R&D agencies to get a better appreciation of his potential for PSAC membership.

"Don Hornig"

**Donald F. Hornig**  
**Chairman**

DZBeckler;khb  
CC: DFH chron & file  
Mr. Beckler  
S&T File  
S&T Chron

Reply to S&T Cont. No. 2097

January 9, 1965

**MEMORANDUM FOR**

**Mr. Knox**

Thank you for the digest of Bill Ely's comments. It was interesting enough so that I read the totality of his analysis. Will you please draft an appreciative reply suggesting that we would indeed like to go over the plans and programs with him. I think any discussion with him ought to occur after our own discussion, however.

**Donald F. Hornig**  
**Director**

DFH/eac

DFH Chron.



January 11, 1965

Dear President Smiley:

Thank you very much for your invitation to speak at the University of Colorado on the occasion of the ground breaking for the construction of the new laboratory building for the Joint Institute for Laboratory Astrophysics. I have spoken to Dr. Branscomb about it and, as I indicated to him, I would be most pleased to accept your invitation. I will have my office contact your staff to work out a mutually convenient date.

I feel I should warn you, however, that, due to the nature of my position in Washington, there is always a possibility that I might be forced to cancel at the last minute. While I do not expect that this will be the case, I do feel that you should be aware of the possibility.

Sincerely,

Donald F. Hornig  
Special Assistant for  
Science and Technology

Dr. J. R. Smiley  
President  
University of Colorado  
Boulder, Colorado

eac

tickle Feb.

X

January 8, 1965

DONALD F. HORNIG  
DIRECTOR, OFFICE OF SCIENCE AND TECHNOLOGY, WASHINGTON

DR. NATHAN PUSEY  
PRESIDENT  
HARVARD UNIVERSITY  
CAMBRIDGE, MASSACHUSETTS

DEEPLY REGRET THAT ONCE AGAIN I WILL NOT BE ABLE  
TO ATTEND OVERSEERS MEETING MONDAY, JANUARY 11.  
MUST BE IN WASHINGTON TO ATTEND CABINET MEETING.

EXECUTIVE OFFICE OF THE PRESIDENT  
OFFICE OF SCIENCE AND TECHNOLOGY

January 8, 1965

MEMORANDUM FOR OST STAFF

Once again Mr. Lawrence O'Brien in the White House office has called to our attention the necessity for following White House procedures rigorously in the handling of Congressional contacts. A copy of Mr. O'Brien's memorandum is attached for your information, together with a copy of an internal OST memorandum dated July 14, 1964, on this subject.

There are certain special problems which this Office faces as a result of being partly in the White House and partly outside it. The safe and proper thing to do, however, is to notify Dr. MacLeod or me of all significant contacts with Congress, to continue routing all outgoing Congressional correspondence through the White House Congressional liaison office with appropriate copies for White House files, and to consult Dr. MacLeod or me in any cases of doubt.

Donald F. Hornig  
Director

Attachments - 2



**MEMORANDUM FOR THE WHITE HOUSE STAFF**

**FROM: LARRY O'BRIEN**

**It is absolutely essential that this office be informed of all contacts between you and Members of Congress.**

**The following procedure should apply.**

- (1) Mail from Members should be sent to my office, upon receipt, to be recorded.**
- (2) All correspondence to Members should be routed through my office.**
- (3) Personal and phone contacts should be reported weekly (by noon each Saturday) by memorandum to me noting the subject and disposition.**
- (4) Responses to written or other requests from the Hill should consist essentially of a reference to this office for further action.**

**The above procedures, as you know have been in effect. However, in my view they have not adequately been adhered to in recent months.**

**With the Congress now back, it is essential that they be complied with.**

**Please alert those members of your staff who may be approached from time to time by members.**

**Obviously, this does not apply to any contacts you consider of a personal nature.**

OFFICE OF SCIENCE AND TECHNOLOGY

July 14, 1964

MEMORANDUM TO OST STAFF

SUBJECT: Congressional Correspondence

The following guidelines are designed to assure the proper and uniform handling of Congressional correspondence received by OST:

1. In general, all Congressional correspondence should be handled promptly as a matter of high priority.
2. Where it is not possible to provide a complete response to a Congressional request or inquiry immediately, an interim acknowledgment should be considered.
3. OST comments on legislation, or correspondence which relates to legislation which I have approved in draft, should be cleared with the Budget Bureau (through P. S. Hughes' office) before it is sent to me for signature prior to transmittal to the Congress.
4. By White House edict, outgoing correspondence directed to Congress must without exception be routed through the White House Congressional Liaison Office with appropriate copies for the White House files.

Donald F. Hornig

20506

January 7, 1965

Dear Dr. Weber:

Thank you for your letter of December 23.

We do not have for distribution a report of our Russian tour last November, but some of the impressions we gained will be available in the next issue of "International Science and Technology" which interviewed the members of the group.

I am much interested to know of your own trip, and if you can conveniently do so next time you are in Washington, I would like to hear some of your impressions.

Sincerely yours,

(signed) Donald F. Hornig

Donald F. Hornig  
Director

Dr. Ernest M. Weber  
Vice President for Scientific Affairs  
Chas. Pfizer & Company, Inc.  
235 East 42nd Street  
New York, New York 10017

IMTobin:gpw

cc: S&T Files  
S&T Chron  
DFH Chron ✓  
IMT Chron



January 7, 1965

Dear Mr. Ripley:

I want to thank you for sending me a copy of your letter of December 18th to Mr. Moyers concerning a National Foundation for the Humanities and Arts. We are much interested in this general concept and shall watch its development closely.

Sincerely,

(signed) Donald F. Hornig

Donald F. Hornig  
Special Assistant for  
Science and Technology

Honorable S. Dillon Ripley  
Secretary  
Smithsonian Institution  
Washington, D. C. 20560

CMM:mts

cc: Dr. Hornig chron ✓

Dr. MacLeod chron

Dr. Turner subj. and chron

*for Tech & file*

January 6, 1965

Dear Mel:

I greatly regret that it is not feasible to proceed with the January meeting of the Science Advisory Committee.

It now appears that events connected with the Inauguration will preclude my being in New York at that time, and, as previously concluded, a Washington meeting would not be practical. Other members of the Committee have also indicated that a meeting in New York would conflict with obligations in Washington.

I am sorry if this change in plans has inconvenienced you in any way. The next meeting will be held on February 15 and 16 in Washington as planned.

Sincerely yours,

(Signed) Do

Donald F. Hornig  
Chairman

Dr. Melvin Calvin  
Professor of Chemistry  
University of California  
Berkeley, California 94720

DZB;khb;eac

DZB Chron., DPH Chron., S&T Files, S&T Chron., DZB Files

Identical letters to: Garwin, Handler, Long, McElroy, Pierce, Purcell  
Seitz, York, Bronk, Fisk, Killian, Kistiakowsky, Land, Piore & Rabi

January 6, 1965

Dear Ed:

I greatly regret that it is not feasible to proceed with the January meeting of the Science Advisory Committee.

It now appears that events connected with the Inauguration will preclude my being in New York at that time, and, as previously concluded, a Washington meeting would not be practical. Other members of the Committee have also indicated that a meeting in New York would conflict with obligations in Washington.

I am sorry if this change in plans has inconvenienced you in any way. The next meeting will be held on February 15 and 16 in Washington as planned. I particularly hope that you will plan to attend the February meeting since I am anxious that retiring and new members have a meeting in common.

Sincerely yours,

(signed) Don

Donald F. Hornig  
Chairman

Dr. Edwin R. Gilliland  
Professor of Chemical Engineering  
Massachusetts Institute of Technology  
Cambridge, Massachusetts 02139

DZB;khb:eac

DFH Chron. DZB Chron. S&T Files, S&T CHRON, Mr. Beckler files

Identical letter to: Brooks, Panofsky, Wiesner, Doty & Zacharias



January 4, 1963

Dear Mrs. Bradford:

The President has asked me to comment on your letter of 14 December with regard to the paper by Dr. Ralph Willard on use of carbonyle for various purposes.

We are pleased that you called Dr. Willard's work to our attention, and will consider his discussion very carefully.

Sincerely,

(Signed) Donald F. Hornig

Donald F. Hornig  
Special Assistant for  
Science and Technology

Mrs. Beark Bradford  
915 S. Normandie, Apt. 3  
Los Angeles, California 90006

DZRobinson:gpw  
cc: S&T Files  
S&T Chron  
DZR Chron

DZR/gpw  
WH copies: 1 white  
1 green  
1 yellow

*Dr. Hornig's Chron*

January 6, 1965

Dear Mr. Morgan:

I appreciate your interest in sending me the report of the Screening Committee of the Governor's Council of Science and Technology.

The Committee has rendered a valuable service in identifying qualified scientists and engineers for possible service to Federal agencies. Although they are Pennsylvanians, the persons familiar to me would rank high on a national listing.

We, in this office, will find the list useful in considering future consultants, and I am confident that it will be of assistance to other agencies concerned with research and development.

Sincerely yours,

(signed) Donald F. Hornig

Donald F. Hornig  
Special Assistant for  
Science and Technology

Honorable Thomas E. Morgan  
Chairman  
Steering Committee  
Pennsylvania Congressional Delegation  
Room 502 Old House Office Building  
Washington 25, D. C.

DZBeckler:kbb  
CC: WH Files (2) w/copy of incoming letter  
Jean Lewis, WH  
DFH Chron & File  
Mr. Beckler  
S&T File  
S&T Chron

Reply to S&T Cont. No. 2076

January 6, 1965

Dear Dean Sondermann:

I am disappointed that my schedule precludes participation in the Colorado College Symposium on "The New Science". The objectives of the symposium, the care that has gone into the program selection, and the impressive roster of speakers add up to an event of unusual interest and significance to scientists and non-scientists alike.

Today it is commonplace to emphasize the importance of widespread understanding of science to the development and welfare of our society, as well as to the well-rounded education of each individual. What is not so common is the recognition of those factors that, in my view, facilitate effective communication of science: the qualities of creation and imagination, the quest of excellence, and the excitement of scientific discovery.

These same factors influence the communication of ideas outside the area of science, and in this regard your program is equally challenging. This leads me to the observation that "The New Science" symbolizes the underlying unity of human knowledge.

I wish you a most successful symposium and am confident that its beneficial effects will be felt far outside of Colorado College.

Sincerely yours,

(Signed) Donald F. Hornig

Donald F. Hornig  
Special Assistant for  
Science and Technology

Dr. Fred A. Sondermann  
Associate Dean  
The Colorado College  
Colorado Springs, Colorado

DZBeckler;khb

CC: DFH Chron & File

Mr. Beckler Chron & File

S&T File

S&T Chron



January 5, 1965

Dear Mr. Dies:

Your inquiry of December 29, 1964, presumably refers to a study now being made by the President's Science Advisory Committee of how to increase the effectiveness of the laboratories operated by the Federal Government. This study is concerned with such matters as laboratory management and the place of the laboratories in the Federal research and development structure, but is not primarily concerned with the division of federally financed research and development activities between in-house and other organizations.

There is no master mailing list relating to this study, and it is not the usual practice to hold public hearings in connection with PSAC studies of this kind. I should be glad, however, to see that you are provided with copies of any publicly released material resulting from this activity.

Sincerely yours,

(Signed) Donald F. Hornig

Donald F. Hornig  
Chairman

Mr. Douglas Dies  
Executive Secretary  
American Council of  
Independent Laboratories, Inc.  
1026 17th Street, N. W.  
Washington, D. C. 20036

(Name added to  
"Misc." mailing list.)

REarlow:jb:12-4-65

Bcc: RB file and chron

S&T file and chron

DFH chron ✓

Jan - 5 5  
~~December 29, 1964~~

**MEMORANDUM FOR**

**Mr. Kermit Gordon  
Director  
Bureau of the Budget**

Because of the difficulties inherent in the indefinite terms of its members and chairman, I feel it is desirable to incorporate some amendments in Executive Order No. 10961, signed on August 21, 1961, by President Kennedy, which provides procedures for the award of the National Medal of Science. The proposed amendments attached to this memorandum have been prepared by the President's Committee on the National Medal of Science and have my approval. They will accomplish the following:

1. Formally establish a system for rotating the committee membership (appointment of four people each year for three-year terms).
2. Set the membership terms to coincide with calendar year. (In the past, this has been ambiguous and confused.)
3. Provide for biennial designation of a chairman by the President.
4. Establish clear rules for the timing of the awards announcement and its presentation. (The amendments provide for announcement during the last sixty days of the calendar year and presentation during the first ninety days of the following year.)
5. Provide a clearer basis for financial support of the logistics of the award by the National Science Foundation.

I believe that these amendments would contribute to the smooth working of the machinery and would clarify a number of present ambiguities.

(signed) Donald F. Hornig

Donald F. Hornig  
Director

**Attachment:**

8 copies of  
proposed amendments  
to Executive Order  
No. 10961

(Bcc: Robert Johnston - NSF) and (Frank Brink, Jr. President's Committee  
on the National Medal of Science)

RB:shb Chron  
S&T Chron  
S&T Files  
DFH Chron ✓



January 4, 1965

Dear Mr. Bailey:

Dr. Donald Hornig will be coming to Cambridge to attend the Board of Overseers meeting to be held on Monday, January 12th. It is expected he will arrive on the evening of Sunday, January 10th. Accordingly, it would be appreciated if you could arrange accommodations for Dr. Hornig for the evening of the 10th in Cambridge. He will be returning to Washington on the evening of the 12th.

Sincerely,

Eleanor A. Connors  
Secretary to Dr. Hornig

Mr. David W. Bailey  
Secretary of the Board of Overseers  
Massachusetts Hall  
Cambridge, Massachusetts

**January 4, 1965**

**Dear Glenn:**

**I much appreciate the opportunity to review Dwight Lusk's memorandum on the visit of the U.S. desalting group to the Soviet Union. There are several points of interest in it apart from desalting, notably the discussion of Flowshare.**

**Sincerely,**

**Donald F. Hornig  
Director**

**The Honorable  
Glenn T. Seaborg  
Chairman  
Atomic Energy Commission  
Washington, D. C. 20545**

**RBarlow:jb:12-28 to 31-64  
Bcc: RB file and chron  
S&T file and chron  
DFH ~~chron~~  
S&T Control No. 2083**

**January 4, 1965**

**MEMORANDUM FOR**

**Mr. Frederick L. Holborn  
Special Assistant  
in the White House**

**It does not seem appropriate to me for the President to send the message sought by President Rudder of Texas A&M University in the attached letter of December 22, 1964. The 1965 International Conference on "Modern Trends in Activation Analysis" strikes me as too narrow and limited a field to warrant recognition at this level.**

**If you want to offer an alternative, however, I should be glad to transmit a brief message of greeting over my own signature.**

**(Signed) Donald F. Hornig**

**Donald F. Hornig  
Special Assistant for  
Science and Technology**

**Attachment:**

**Ltr for Texas A&M  
w/encld suggested msg**

**REarlow:jb:12-28 to 31-64**

**Ecc: RB file and chron**

**S&T file and chron**

**DFH c/ron**

**S&T Control No. 2096**



January 4, 1965

Dear Mr. Secretary:

I wish to express my continuing interest in the Northeast Corridor Project. The exploration of the long-term transportation needs of the "Corridor" and the effective application of science and technology to meet those needs are important not only in their own right but also because they may establish a precedent for Federal action in solving other regional transportation problems. Therefore, it is essential, in my judgment, that a plan of action be established soon which will eventually permit the making of sound investment decisions by Government and by private enterprises. An analysis of alternatives will be particularly challenging because new engineering concepts will be involved, performance of a complex transportation system must be projected into the future, and many important considerations exist which never before have been reduced to quantitative terms.

At such time as you consider appropriate for a review of the proposed research and development, demonstration, and analytical study activities, I would be pleased to have my Office participate and to take a personal interest in the refinement of an integrated, comprehensive plan of action.

Sincerely,

(Signed) Don

Donald F. Hornig

The Honorable Luther M. Hodges  
Secretary of Commerce  
U. S. Department of Commerce  
Washington, D. C. 20230

WLHoooper:gl

**DISTRIBUTION:**

1-addressee

2-Hornig chron file

3&4-OST chron & subj

5&6-WLN files

7-Beckler

8-Hallomon

January 4, 1965

Dear Logan:

At the December 22, 1964 meeting of the Federal Council for Science and Technology, the Statement of the American Council on Education on Preventing Conflicts of Interest in Government-Sponsored Research at Universities was carefully considered. The Council members considered the Statement to be excellent, and expressed pleasure that the ACE took the initiative in drawing it up. I congratulate all of those concerned, including the Association of American University Professors, on the issuance of a statesmanlike and useful statement of principle in this difficult area. The Federal agencies are prepared to use the principles enunciated in the Statement as a guide to their policies and practices in this area.

The issuance of this Statement seems to me to be an important concrete example of the manner in which the academic community can accept the responsibilities which inevitably accompany the acceptance of Federal funds for research. The greater the degree of responsibility accepted and exercised effectively by colleges and universities, the fewer detailed rules and regulations will the Federal agencies have to impose. It is essentially for this reason that I hope the Statement is broadly accepted by colleges and universities. My office is prepared to work with you on other problems involving the definition of responsibilities of government and universities in the research and development field.

- 2 -

In view of the significance of the Statement, I hope that you can review its effects after a suitable period has elapsed. Such a review will be undertaken by the Federal agencies concerned.

Sincerely yours,

(Signed) Don

Donald F. Hornig  
Chairman

Dr. Logan Wilson  
President  
American Council on Education  
1785 Massachusetts Avenue, N. W.  
Washington, D. C. 20036

cc: Wm. A. Miller, ACE

CVKidd:jsn  
cc: Mr. Miller, ACE  
DFH chron  
S&T file & chron  
CVK file & chron



**January 4, 1965**

**Dear Mr. Hyde:**

**With reference to your Legislative Referral Memorandum of December 14, 1964 concerning the draft bill "To expand, extend, and accelerate the saline water conversion program conducted by the Secretary of the Interior, and for other purposes.", this office has no special comment on the bill. It is a necessary action in support of the President's program in desalting.**

**Because of the relatively simple nature of the bill, I believe the bill should be transmitted by Secretary Udall rather than the President. Should it be decided that the President should transmit this bill, I believe the draft transmittal letter should be softened somewhat. Suggested changes are shown on the attached copy of the draft letter.**

**Sincerely,**

**(signed) Donald F. Hornig**

**Donald F. Hornig  
Director**

**Enclosure:  
Draft letter**

**Mr. J. F. C. Hyde, Jr.  
Assistant Chief  
Resources Defense International Branch  
Bureau of the Budget  
Room 262, Executive Office Building  
Washington, D. C.**

**cc: Dr. Hornig - Chron ✓  
Mr. Linsley - Chron  
Mr. Linsley - Subject  
S&T - Chron  
S&T - Subject**

**RK:Linslev. Jr.:paw**

**January 4, 1965**

**Dear Dr. Moore:**

**Thank you for your letter of December 15, 1964 supplementing your comments before our special panel on the Colorado River Salinity Studies.**

**The President's Science Advisory Committee acted on December 15 to approve the continuation of the U. S. Public Health Service activities in the Colorado River Basin for Fiscal Year 1965. The non-agricultural aspects of pollution were recognized as an important consideration in this decision.**

**Sincerely,**

**(Signed) Donald F. Hornig**

**Donald F. Hornig  
Chairman**

**Dr. William J. Moore  
Commissioner  
Arizona State Department of Health  
Arizona State Office Building  
Phoenix, Arizona 85007**

**cc: Dr. Hornig - Chron ✓  
Mr. Beckler  
Mr. Linsley - Chron  
Mr. Linsley - Subject  
S&T - Chron  
S&T - Subject**

**RKLinsley, Jr. :paw**