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Subseries: Organization Files - FCCSET

OA/ID Number: 62073
Folder ID Number: 62073-001

Folder Title:
FCCSET [Federal Coordinating Council for Science, Engineering, and Technology] - General [1990]

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THE WHITE HOUSE

WASHINGTON
November 8, 1990

MEMORANDUM FOR GOVERNOR SUNUNU

FROM: D. ALLAN BROMLEY *Alan*

SUBJECT: OCTOBER 30 MEETING OF THE
FEDERAL COORDINATING COUNCIL FOR
SCIENCE, ENGINEERING AND TECHNOLOGY

On October 30, 1990, the Federal Coordinating Council for Science, Engineering and Technology (FCCSET) met to address efforts underway to support preparations for the President's science, technology and education initiatives in the FY92 budget.

You will recall that, as a result of the FCCSET revitalization, the full FCCSET now includes the relevant Cabinet Secretaries or Deputy Secretaries, and the Directors of the relevant science-and-technology-related independent agencies.

The meeting, well attended by the principals, discussed the current status of the budget-crosscut exercise and highlighted the Council's continued support for providing the Administration with the highest degree of scientific advice. Appropriate coordination within and among the agencies was stressed to ensure full communication in the budget crosscut process. This should avoid duplication in data collection and program activity.

In the area of federal R&D priority setting and budget preparation, FCCSET committees have coordinated three multi-agency initiatives: (1) global change research, (2) mathematics and science education, and high performance computing. Each of these areas are under consideration by OMB as potential budgetary initiatives for the President in FY92.

This past year, FCCSET has revisited the entire U.S. governmental global change research program in light of new data and new circumstances. The FY92 multi-agency budget crosscut for OMB will be the second year for this effort by the Bush Administration. The Council was briefed on the current status of the crosscut and ways to better coordinate between the FCCSET Committee process and the individual agency's budget process. Where inconsistencies exist, they will be corrected with deference paid to the budget numbers approved by the Cabinet Secretary. FCCSET will also be producing the first ever comprehensive inventory of federal activities in the area of mathematics and science education, with the intent of highlighting how the R&D agencies can best coordinate their programs for maximum efficiency and effectiveness, and the objective of supporting the National Education Goals.

Finally, the Council discussed ways it will interact with OMB and other White House offices as planning gets underway for FY93. The Council also considered ways to identify new initiatives and areas of scientific inquiry so it can continue to provide the highest credible scientific input to the Administration.

THE WHITE HOUSE
WASHINGTON

May 31, 1990


Dear Mr. Atwood:

As you know, the Federal Coordinating Council for Science, Engineering and Technology will meet on June 6, 1990 in the Roosevelt Room at The White House. I have enclosed a copy of the agenda for the meeting.

At this meeting, I want to give you an update on the status of the FCCSET Committees and their organization. A great deal of progress has been made since our last meeting, and I believe you will be interested in the very active programs of work, some of which are already under way.

As part of this session, I have asked that more detailed reports on their current and planned activities be provided by two committees: the Committee on Education and Human Resources (chaired by Admiral Watkins), and the Committee on Physical, Mathematical and Engineering Sciences (chaired by Erich Bloch).

Copies of the current drafts of the Committee charters have been provided to you under separate cover. I recommend that you may want to review them prior to the meeting to facilitate our discussions in that area.

I look forward to meeting with you on June 6.

Sincerely yours,



D. Allan Bromley
Assistant to the President
for
Science and Technology

The Honorable Donald J. Atwood, Jr.
Deputy Secretary of Defense
The Pentagon
Washington, D.C. 20301

Enclosure

THE WHITE HOUSE
WASHINGTON

May 31, 1990


Dear Mr. Bloch:

As you know, the Federal Coordinating Council for Science, Engineering and Technology will meet on June 6, 1990 in the Roosevelt Room at The White House. I have enclosed a copy of the agenda for the meeting.

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I look forward to meeting with you on June 6.

Sincerely yours,



D. Allan Bromley
Assistant to the President
for
Science and Technology

The Honorable Erich Bloch
Director
National Science Foundation
1800 G Street, NW
Washington, D.C. 20550

Enclosure

THE WHITE HOUSE

WASHINGTON

May 31, 1990

Dear Mr. Delli Bovi:

As you know, the Federal Coordinating Council for Science, Engineering and Technology will meet on June 6, 1990 in the Roosevelt Room at The White House. I have enclosed a copy of the agenda for the meeting.

At this meeting, I want to give you an update on the status of the FCCSET Committees and their organization. A great deal of progress has been made since our last meeting, and I believe you will be interested in the very active programs of work, some of which are already under way.

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I look forward to meeting with you on June 6.

Sincerely yours,



D. Allan Bromley
Assistant to the President
for
Science and Technology

The Honorable Alfred Delli Bovi
Under Secretary
Department of Housing and Urban
Development
451 - 7th Street, SW
Washington, D.C. 20410

Enclosure

THE WHITE HOUSE

WASHINGTON

May 31, 1990


Dear Mr. Secretary:

As you know, the Federal Coordinating Council for Science, Engineering and Technology will meet on June 6, 1990 in the Roosevelt Room at The White House. I have enclosed a copy of the agenda for the meeting.

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I look forward to meeting with you on June 6.

Sincerely yours,



D. Allan Bromley
Assistant to the President
for
Science and Technology

The Honorable Lauro F. Cavazos
Secretary of Education
400 Maryland Avenue, SW
Washington, D.C. 20202

Enclosure

THE WHITE HOUSE
WASHINGTON

May 31, 1990

Elaine
Dear Ms. Chao:

As you know, the Federal Coordinating Council for Science, Engineering and Technology will meet on June 6, 1990 in the Roosevelt Room at The White House. I have enclosed a copy of the agenda for the meeting.

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I look forward to meeting with you on June 6.

Sincerely yours,



D. Allan Bromley
Assistant to the President
for
Science and Technology

The Honorable Elaine Chao
Deputy Secretary
Department of Transportation
400 - 7th Street, SW
Washington, D.C. 20590

Enclosure

THE WHITE HOUSE
WASHINGTON

May 31, 1990

Mannie
Dear Mr. Secretary:

As you know, the Federal Coordinating Council for Science, Engineering and Technology will meet on June 6, 1990 in the Roosevelt Room at The White House. I have enclosed a copy of the agenda for the meeting.

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I look forward to meeting with you on June 6.

Sincerely yours,



D. Allan Bromley
Assistant to the President
for
Science and Technology

The Honorable Manuel Lujan, Jr.
Secretary of the Interior
18th and C Streets, NW
Washington, D.C. 20240

Enclosure

THE WHITE HOUSE

WASHINGTON

May 31, 1990

Richard
Dear Mr. McCormack:

As you know, the Federal Coordinating Council for Science, Engineering and Technology will meet on June 6, 1990 in the Roosevelt Room at The White House. I have enclosed a copy of the agenda for the meeting.

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I look forward to meeting with you on June 6.

Sincerely yours,



D. Allan Bromley
Assistant to the President
for
Science and Technology

The Honorable Richard T. McCormack
Under Secretary for Economic Affairs
Department of State
2201 C Street, NW
Washington, D.C. 20520

Enclosure

THE WHITE HOUSE
WASHINGTON

May 31, 1990


Dear Mr. Murrin:

As you know, the Federal Coordinating Council for Science, Engineering and Technology will meet on June 6, 1990 in the Roosevelt Room at The White House. I have enclosed a copy of the agenda for the meeting.

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I look forward to meeting with you on June 6.

Sincerely yours,



D. Allan Bromley
Assistant to the President
for
Science and Technology

The Honorable Thomas J. Murrin
Deputy Secretary
Department of Commerce
14th & Constitution Avenue, NW
Washington, D.C. 20230

Enclosure

THE WHITE HOUSE
WASHINGTON

May 31, 1990

Dear Mr. Principi: 

As you know, the Federal Coordinating Council for Science, Engineering and Technology will meet on June 6, 1990 in the Roosevelt Room at The White House. I have enclosed a copy of the agenda for the meeting.

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I look forward to meeting with you on June 6.

Sincerely yours,



D. Allan Bromley
Assistant to the President
for
Science and Technology

The Honorable Anthony J. Principi
Deputy Secretary
Department of Veterans Affairs
810 Vermont Avenue, NW
Washington, D.C. 20420

Enclosure

THE WHITE HOUSE

WASHINGTON

May 31, 1990


Dear Mr. Reilly:

As you know, the Federal Coordinating Council for Science, Engineering and Technology will meet on June 6, 1990 in the Roosevelt Room at The White House. I have enclosed a copy of the agenda for the meeting.

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I look forward to meeting with you on June 6.

Sincerely yours,



D. Allan Bromley
Assistant to the President
for
Science and Technology

The Honorable William K. Reilly
Administrator
Environmental Protection Agency
401 M Street, SW
Washington, D.C. 20460

Enclosure

THE WHITE HOUSE

WASHINGTON

May 31, 1990

Dear Mr. ~~Secretary~~ *hoy*:

As you know, the Federal Coordinating Council for Science, Engineering and Technology will meet on June 6, 1990 in the Roosevelt Room at The White House. I have enclosed a copy of the agenda for the meeting.

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I look forward to meeting with you on June 6.

Sincerely yours,



D. Allan Bromley
Assistant to the President
for
Science and Technology

The Honorable Louis W. Sullivan
Secretary of Health and Human Services
200 Independence Avenue, SW
Washington, D.C. 20585

Enclosure

THE WHITE HOUSE

WASHINGTON

May 31, 1990

Dear  Truly:

As you know, the Federal Coordinating Council for Science, Engineering and Technology will meet on June 6, 1990 in the Roosevelt Room at The White House. I have enclosed a copy of the agenda for the meeting.

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I look forward to meeting with you on June 6.

Sincerely yours,



D. Allan Bromley
Assistant to the President
for
Science and Technology

The Honorable Richard H. Truly
Administrator
NASA
400 Maryland Avenue, SW
Washington, D.C. 20546

Enclosure

THE WHITE HOUSE

WASHINGTON

May 31, 1990


Dear Mr. Secretary:

As you know, the Federal Coordinating Council for Science, Engineering and Technology will meet on June 6, 1990 in the Roosevelt Room at The White House. I have enclosed a copy of the agenda for the meeting.

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I look forward to meeting with you on June 6.

Sincerely yours,



D. Allan Bromley
Assistant to the President
for
Science and Technology

The Honorable James D. Watkins
Secretary of Energy
1000 Independence Avenue, SW
Washington, DC 20585

Enclosure

THE WHITE HOUSE

WASHINGTON

May 31, 1990

Clayton
Dear Mr. Secretary:

As you know, the Federal Coordinating Council for Science, Engineering and Technology will meet on June 6, 1990 in the Roosevelt Room at The White House. I have enclosed a copy of the agenda for the meeting.

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I look forward to meeting with you on June 6.

Sincerely yours,

DAB

D. Allan Bromley
Assistant to the President
for
Science and Technology

The Honorable Clayton Yeutter
Secretary of Agriculture
12th Street & Jefferson Drive, SW
Washington, D.C. 20250

Enclosure

THE WHITE HOUSE

WASHINGTON

April 30, 1990

MEMORANDUM FOR D. ALLAN BROMLEY

FROM:

BRENT SCOWCROFT 

SUBJECT:

Federal Coordinating Council for Science,
Engineering and Technology (FCCSET)

I understand you are well on the way to providing a charter and committee structure for the Federal Coordinating Council for Science, Engineering and Technology (FCCSET). I support this initiative and hope you continue to improve federal responsiveness and coordination in this important arena which affects our national security and economic strength.

The National Security Council has a distinct role to play in this area, and I hope to be able to attend some of your meetings as the work of FCCSET evolves. The NSC is active in issues pertinent to the FCCSET charter, such as the Superconducting Supercollider Project, plans for expanding U.S. assistance to the U.S.S.R. in nuclear power plant safety, and many other areas where the "national security" role may not be so obvious. For that reason, I believe it is important that the role of other agencies in the Executive Office of the President be delineated clearly in organizations such as FCCSET.

I suggest that you establish a formal membership status for the NSC and others, such as OMB or the Space Council, that need to be fully informed of FCCSET's activities. If you believe that full membership is unwarranted for other Executive Office of the President agencies, perhaps formal observer status would be appropriate. This would parallel the role your staff is playing in coordinating groups managed by the NSC, such as the Policy Coordinating Committee on Technology Transfer, in which your staff is actively participating and for which you regularly receive meeting notices, policy papers, etc.

EXECUTIVE OFFICE OF THE PRESIDENT
OFFICE OF SCIENCE AND TECHNOLOGY POLICY
WASHINGTON, D.C. 20508

FAX Transmittal Sheet

DATE: 10 MAY

TO:

DAMAR

ORGANIZATION:

OSTP

TELEPHONE:

6272

FAX:

3261

FROM:

TOM W

ORGANIZATION: OFFICE OF SCIENCE AND TECHNOLOGY POLICY

TELEPHONE:

FAX:

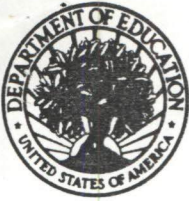
202-395-3719

NUMBER OF PAGES, INCLUDING COVER PAGE: 2

SPECIAL INSTRUCTIONS:

FOR USE, IF DESIRED,
WITH SCOWCROFT MEMO.





UNITED STATES DEPARTMENT OF EDUCATION

THE SECRETARY

APR 18 1990

Honorable D. Allen Bromley
Assistant to the President for
Science and Technology
Director, Office of Science and
Technology Policy
Executive Office of the President
Washington, DC 20506

Dear Dr. Bromley:

I appreciated the opportunity to meet with you and Dr. Erich Bloch to discuss opportunities for the Department of Education and the National Science Foundation (NSF) to work more closely to improve math and science education.

Following our meeting, I requested that the Department's General Counsel prepare advice for me on statutory impediments to cooperative projects with NSF. Enclosed is a copy of the information which our General Counsel has prepared.

I look forward to our continued discussions about increased cooperation on math and science education and hope you find the enclosed information helpful.

Sincerely,

Lauro F. Cavazos

Enclosure

THE WHITE HOUSE

WASHINGTON

May 2, 1990

Dear Dr.  Cavazos:

Thank you for your letter of April 18, 1990, following up on our earlier meeting regarding Department of Education and National Science Foundation cooperation on mathematics and science education. I am extremely pleased with the progress made so far, and want to discuss with you how we might bring this "success story" to the attention of the Congress and other interested constituencies.

The information you provided on statutory impediments to cooperative projects with NSF is most interesting. It is very important that impediments -- both real and perceived -- be removed to the maximum extent possible. The FCCSET Committee on Education and Human Resources should be aware of this situation, and can be expected to help. Accordingly, I am forwarding a copy of your letter to Admiral Watkins, Chairman of the FCCSET Committee, and to Ted Sanders and Luther Williams, the Committee Vice Chairmen.

Thank you again for your leadership in improving cooperation with the NSF and improving math and science education in this nation.

Sincerely,



D. Allan Bromley
Assistant to the President
for Science and Technology

cc: Admiral James Watkins
Ted Sanders
Luther Williams

The Honorable Lauro F. Cavazos
Secretary
United States Department of Education
400 Maryland Ave., S.W.
Washington, D.C. 20202-0100

THE WHITE HOUSE
WASHINGTON

April 2, 1990

MEMORANDUM TO THE SECRETARY OF HOUSING AND URBAN
DEVELOPMENT

SUBJECT: FCCSET COMMITTEES

I am pleased to announce Committee Chairmen and Vice-Chairmen for the FCCSET Committees agreed on at our last meeting on March 14. You will find the complete list on Attachment 1. As you know, this list was assembled following extensive discussions with you. I believe it combines strong leadership for the individual committees with a careful balance of responsibilities among the agencies. I plan to meet with all the committee chairmen and vice-chairmen shortly, in order to assure we hit the ground running in the weeks ahead.

Questions are already arising as to FCCSET committee organization and start-up. Attachment 2 provides some initial guidance for your use. You are invited to raise other questions and to send me your suggestions as how to handle best a myriad of operational issues.

Attachment 3 comprises a list of current members of the full FCCSET.

Finally, it is important for each of you to convey the goals and importance of FCCSET to the leadership within your department or agency. This would ensure that we can count on the appropriate level of support throughout the FCCSET structure. For example, FCCSET committee membership normally should be at the assistant secretary level or above. FCCSET subcommittees and working groups may, of course, be populated at lower levels.

Thank you for your assistance on these matters and your continuing enthusiasm for the work of FCCSET.

Sincerely yours,



D. Allan Bromley
Assistant to the President
for
Science and Technology

Enclosure

**FEDERAL COORDINATING COUNCIL
FOR SCIENCE, ENGINEERING & TECHNOLOGY
COMMITTEES
MARCH 1990**

Earth and Environmental Sciences

Chairman: Dallas Peck, Director, US Geological Survey, Department of the Interior

Vice Chairmen: Eric Bretthauer, Assistant Administrator for Research,
Environmental Protection Agency
Lennard Fisk, Associate Administrator for Space Science and
Applications, National Aeronautics and
Space Administration

OSTP Liaison Member: James B. Wyngaarden, Associate Director for Life Sciences

Education and Human Resources

Chairman: Adm. James Watkins (Ret.), Secretary, Department of Energy

Vice Chairmen: Ted Sanders, Deputy Secretary, Department of Education
Luther Williams, Senior Science Advisor, National Science
Foundation

OSTP Liaison Member: J. Thomas Ratchford, Associate Director for Policy
and International Affairs

Food, Agriculture and Forest Research

Chairman: Charles Hess, Assistant Secretary for Science and Education,
Department of Agriculture

Vice Chairmen: David O'Neil, Assistant Secretary for Land and Minerals,
Department of Labor
James Benson, Acting Commissioner, Food and Drug
Administration, Department of Health
and Human Services

OSTP Liaison Member: James B. Wyngaarden, Associate Director for Life Sciences

International Science and Engineering

Chairman: Reginald Bartholomew, Under Secretary for Security Assistance,
Science and Technology, Department of
Health and Human Services

Vice Chairmen: Fred Bernthal, Deputy Director, National Science Foundation
Philip Schambra, Director, Fogarty International Center,
National Institutes of Health,
Department of Health and Human
Services

OSTP Liaison Member: J. Thomas Ratchford, Associate Director for Policy
and International Affairs

Life Sciences and Health

Chairman: James O. Mason, Assistant Secretary, Department of Health and
Human Services

Vice Chairman: David Galas, Associate Director for Health and Environmental
Research, Office of Energy Research,
Department of Energy

OSTP Liaison Member: James B. Wyngaarden, Associate Director for Life
Sciences

Physical, Mathematical and Engineering Sciences

Chairman: Erich Bloch, Director, National Science Foundation

Vice Chairman: Charles Herzfeld, Director Defense Research and Engineering,
Department of Defense

OSTP Liaison Member: Eugene Wong, Associate Director (designate) for
Physical Sciences and Engineering

Technology and Industry

Chairman: Thomas Murrin, Deputy Secretary, Department of Commerce

Vice Chairman: J.R. Thompson, Deputy Director, National Aeronautics and
Space Administration

OSTP Liaison Member: William D. Phillips, Associate Director (designate) for
Industrial Technology

March 30, 1990

MEMORANDUM TO MEMBERS OF THE FCCSET

FROM: D. ALLAN BROMLEY

SUBJECT: FCCSET COMMITTEE OPERATIONS

Below are answers to some initial questions that have arisen with respect to the FCCSET committees. Please send any comments, further questions, and suggestions to the FCCSET Executive Director, Tom Welch.

1. When do the new committees become operational and, for those directly replacing old ones, when do the old ones go out of business (or become subcommittees of new ones)?

Answer: The new ones become operational when the members are appointed and I sign the committee charter.

2. Who drafts and who approves FCCSET Committee charters? What about selecting committee members?

Answer: Chairmen, with the assistance of Vice-Chairmen, draft committee charters and nominate committee members. The draft charter and suggested committee membership are forwarded to the FCCSET chairman for approval, who will usually fax them to FCCSET members for comment.

After one week, the chairman, after taking into account any comments received, will issue the charter and announce the committee membership.

3. What is the role of the vice chairmen?

Answer: Among other duties they chair full committee meetings in the absence of the chairmen; work closely with the chairmen and the OSTP liaison member in developing the committee agenda; and provide leadership to subcommittees, as appropriate.

4. What about staff for the Committees?

Answer: The chairman's agency is expected to provide the committee's executive secretary (normally a full-time position) and core support staff. Each vice chairman should also designate a staff person (not necessarily full-time) to work on all committee activities.

5. What is the relationship of OSTP staff to the FCCSET committees?

Answer: OSTP Associate Directors are ex officio liaison members of FCCSET committees. The Associate Director will usually involve an Assistant Director or others in OSTP in the work of FCCSET committees.

6. What about committee budgets?

Answer: The chairman's agency has lead responsibility for funding committee expenses, with contributions from the agencies of vice-chairmen and subcommittee chairmen as agreed upon.

7. Is it possible to arrange some instruction for committee chairmen and staff?

Answer: Dallas Peck, Chairman; Bob Corell, Vice Chairman; and Paul Dressler, Executive Secretary, have been asked to brief their peers on other committees about the successful operations of the Committee on Earth Sciences.

**MEMBERSHIP LIST
FEDERAL COORDINATING COUNCIL
FOR SCIENCE, ENGINEERING AND TECHNOLOGY**

Chairman

The Honorable D. Allan Bromley
Assistant to the President
for Science and Technology
and Director
Office of Science and Technology Policy
358 Old Executive Office Building
Washington, D.C. 20506

Members

The Honorable Manuel Lujan, Jr.
Secretary of the Interior
18th and C Streets, N.W.
Washington, D.C. 20240

The Honorable Clayton Yeutter
Secretary of Agriculture
12th Street and Jefferson Drive, S.W.
Washington, D.C. 20250

The Honorable Louis W. Sullivan
Secretary of Health and Human Services
200 Independence Avenue, S.W.
Washington, D.C. 20585

~ The Honorable Jack Kemp
Secretary of Housing and Urban Development
451 7th Street, S.W.
Washington, D.C. 20410

The Honorable James D. Watkins
Secretary of Energy
1000 Independence Avenue, S.W.
Washington, D.C. 20585

The Honorable Donald J. Atwood, Jr.
Deputy Secretary of Defense
The Pentagon
Washington, D.C. 20301

The Honorable William K. Reilly
Administrator
Environmental Protection Agency
401 M Street, S.W.
Washington, D.C. 20460

The Honorable Richard H. Truly
Administrator
National Aeronautics and Space Administration
400 Maryland Avenue, S.W.
Washington, D.C. 20546

The Honorable Erich Bloch
Director
National Science Foundation
1800 G Street, N.W.
Washington, D.C. 20550

The Honorable Thomas J. Murrin
Deputy Secretary
Department of Commerce
14th and Constitution Avenue, N.W.
Washington, D.C. 20230

The Honorable Elaine Chao
Deputy Secretary
Department of Transportation
400 7th Street, S.W.
Washington, D.C. 20590

The Honorable Anthony J. Principi
Deputy Secretary
Department of Veterans Affairs
810 Vermont Avenue, N.W.
Washington, D.C. 20420

The Honorable Richard T. McCormack
Under Secretary for Economic Affairs
Department of State
2201 C Street, N.W.
Washington, D.C. 20520

Non-statutory Members

The Honorable Elizabeth Dole
Secretary of Labor
200 Constitution Avenue, N.W.
Washington, D.C. 20210

The Honorable Lauro F. Cavazos
Secretary of Education
400 Maryland Avenue, S.W.
Washington, D.C. 20202

THE WHITE HOUSE
WASHINGTON

April 3, 1990

MEMORANDUM FOR FCCSET COMMITTEE CHAIRMEN AND VICE-CHAIRMEN

SUBJECT: ORGANIZING THE FCCSET COMMITTEES

Your acceptance of a position of leadership on a FCCSET committee is most gratifying. We have an excellent group assembled to guide the new committees, and I look forward to working personally with each of you in the weeks and months ahead.

Attached you will find a copy of my April 2, 1990 memorandum to the FCCSET members announcing your appointment. Included with that memorandum are:

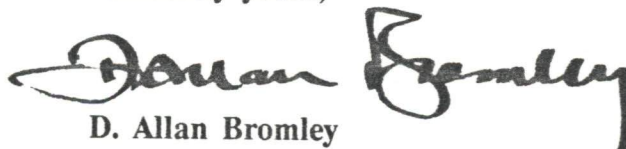
- (1) Current FCCSET Members.
- (2) Listing of FCCSET Committee Chairmen, Vice-Chairmen and OSTP Liaison Members, and
- (3) answers to some questions related to FCCSET Committee operations.

I shall be in touch with each of you shortly concerning scheduling of the first of what I expect will be monthly meetings with Committee Chairmen and Vice-Chairmen. At this first meeting I hope we can deal with the major steps required to get the committees up and running. The two most important are committee charters and membership.

In preparation for our first meeting, I would ask you to prepare (1) a draft charter and (2) list of potential members. The attached "generic" draft committee charter will provide a starting point for developing your charter. For both the charter and membership, the chairmen should work with the vice-chairmen and OSTP Liaison Members.

Upon completion, please fax your draft charter and list of potential committee members to the FCCSET Executive Director, Tom Welch (FAX #395-3719). This should be no later than April 17 so that we can prepare to meet the following week. Tom Welch will contact you shortly to schedule a meeting date and time.

Sincerely yours,



D. Allan Bromley
Assistant to the President
for
Science and Technology

Enclosure

cc: FCCSET Members
OSTP Liaison Members

THE WHITE HOUSE
WASHINGTON

April 2, 1990

MEMORANDUM TO THE SECRETARY OF THE INTERIOR

SUBJECT: FCCSET COMMITTEES

I am pleased to announce Committee Chairmen and Vice-Chairmen for the FCCSET Committees agreed on at our last meeting on March 14. You will find the complete list on Attachment 1. As you know, this list was assembled following extensive discussions with you. I believe it combines strong leadership for the individual committees with a careful balance of responsibilities among the agencies. I plan to meet with all the committee chairmen and vice-chairmen shortly, in order to assure we hit the ground running in the weeks ahead.

Questions are already arising as to FCCSET committee organization and start-up. Attachment 2 provides some initial guidance for your use. You are invited to raise other questions and to send me your suggestions as how to handle best a myriad of operational issues.

Attachment 3 comprises a list of current members of the full FCCSET.

Finally, it is important for each of you to convey the goals and importance of FCCSET to the leadership within your department or agency. This would ensure that we can count on the appropriate level of support throughout the FCCSET structure. For example, FCCSET committee membership normally should be at the assistant secretary level or above. FCCSET subcommittees and working groups may, of course, be populated at lower levels.

Thank you for your assistance on these matters and your continuing enthusiasm for the work of FCCSET.

Sincerely yours,



D. Allan Bromley
Assistant to the President
for
Science and Technology

Enclosure

MEMBERSHIP LIST
FEDERAL COORDINATING COUNCIL
FOR SCIENCE, ENGINEERING AND TECHNOLOGY

Chairman

The Honorable D. Allan Bromley
Assistant to the President
for Science and Technology
and Director
Office of Science and Technology Policy
358 Old Executive Office Building
Washington, D.C. 20506

Members

The Honorable Manuel Lujan, Jr.
Secretary of the Interior
18th and C Streets, N.W.
Washington, D.C. 20240

The Honorable Clayton Yeutter
Secretary of Agriculture
12th Street and Jefferson Drive, S.W.
Washington, D.C. 20250

The Honorable Louis W. Sullivan
Secretary of Health and Human Services
200 Independence Avenue, S.W.
Washington, D.C. 20585

~ The Honorable Jack Kemp
Secretary of Housing and Urban Development
451 7th Street, S.W.
Washington, D.C. 20410

The Honorable James D. Watkins
Secretary of Energy
1000 Independence Avenue, S.W.
Washington, D.C. 20585

The Honorable Donald J. Atwood, Jr.
Deputy Secretary of Defense
The Pentagon
Washington, D.C. 20301

The Honorable William K. Reilly
Administrator
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401 M Street, S.W.
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1800 G Street, N.W.
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The Honorable Thomas J. Murrin
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The Honorable Elizabeth Dole
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Washington, D.C. 20210

The Honorable Lauro F. Cavazos
Secretary of Education
400 Maryland Avenue, S.W.
Washington, D.C. 20202

**FEDERAL COORDINATING COUNCIL
FOR SCIENCE, ENGINEERING & TECHNOLOGY
COMMITTEES
MARCH 1990**

Earth and Environmental Sciences

Chairman: Dallas Peck, Director, US Geological Survey, Department of the Interior

Vice Chairmen: Eric Bretthauer, Assistant Administrator for Research,
Environmental Protection Agency
Lennard Fisk, Associate Administrator for Space Science and
Applications, National Aeronautics and
Space Administration

OSTP Liaison Member: James B. Wyngaarden, Associate Director for Life Sciences

Education and Human Resources

Chairman: Adm. James Watkins (Ret.), Secretary, Department of Energy

Vice Chairmen: Ted Sanders, Deputy Secretary, Department of Education
Luther Williams, Senior Science Advisor, National Science
Foundation

OSTP Liaison Member: J. Thomas Ratchford, Associate Director for Policy
and International Affairs

Food, Agriculture and Forest Research

Chairman: Charles Hess, Assistant Secretary for Science and Education,
Department of Agriculture

Vice Chairmen: David O'Neil, Assistant Secretary for Land and Minerals,
Department of Labor
James Benson, Acting Commissioner, Food and Drug
Administration, Department of Health
and Human Services

OSTP Liaison Member: James B. Wyngaarden, Associate Director for Life Sciences

International Science and Engineering

Chairman: Reginald Bartholomew, Under Secretary for Security Assistance,
Science and Technology, Department of
Health and Human Services

Vice Chairmen: Fred Bernthal, Deputy Director, National Science Foundation
Philip Schambra, Director, Fogarty International Center,
National Institutes of Health,
Department of Health and Human
Services

OSTP Liaison Member: J. Thomas Ratchford, Associate Director for Policy
and International Affairs

Life Sciences and Health

Chairman: James O. Mason, Assistant Secretary, Department of Health and
Human Services

Vice Chairman: David Galas, Associate Director for Health and Environmental
Research, Office of Energy Research,
Department of Energy

OSTP Liaison Member: James B. Wyngaarden, Associate Director for Life
Sciences

Physical, Mathematical and Engineering Sciences

Chairman: Erich Bloch, Director, National Science Foundation

Vice Chairman: Charles Herzfeld, Director Defense Research and Engineering,
Department of Defense

OSTP Liaison Member: Eugene Wong, Associate Director (designate) for
Physical Sciences and Engineering

Technology and Industry

Chairman: Thomas Murrin, Deputy Secretary, Department of Commerce

Vice Chairman: J.R. Thompson, Deputy Director, National Aeronautics and
Space Administration

OSTP Liaison Member: William D. Phillips, Associate Director (designate) for
Industrial Technology

March 30, 1990

MEMORANDUM TO MEMBERS OF THE FCCSET

FROM: D. ALLAN BROMLEY

SUBJECT: FCCSET COMMITTEE OPERATIONS

Below are answers to some initial questions that have arisen with respect to the FCCSET committees. Please send any comments, further questions, and suggestions to the FCCSET Executive Director, Tom Welch.

1. When do the new committees become operational and, for those directly replacing old ones, when do the old ones go out of business (or become subcommittees of new ones)?

Answer: The new ones become operational when the members are appointed and I sign the committee charter.

2. Who drafts and who approves FCCSET Committee charters? What about selecting committee members?

Answer: Chairmen, with the assistance of Vice-Chairmen, draft committee charters and nominate committee members. The draft charter and suggested committee membership are forwarded to the FCCSET chairman for approval, who will usually fax them to FCCSET members for comment.

After one week, the chairman, after taking into account any comments received, will issue the charter and announce the committee membership.

3. What is the role of the vice chairmen?

Answer: Among other duties they chair full committee meetings in the absence of the chairmen; work closely with the chairmen and the OSTP liaison member in developing the committee agenda; and provide leadership to subcommittees, as appropriate.

4. What about staff for the Committees?

Answer: The chairman's agency is expected to provide the committee's executive secretary (normally a full-time position) and core support staff. Each vice chairman should also designate a staff person (not necessarily full-time) to work on all committee activities.

5. What is the relationship of OSTP staff to the FCCSET committees?

Answer: OSTP Associate Directors are ex officio liaison members of FCCSET committees. The Associate Director will usually involve an Assistant Director or others in OSTP in the work of FCCSET committees.

6. What about committee budgets?

Answer: The chairman's agency has lead responsibility for funding committee expenses, with contributions from the agencies of vice-chairmen and subcommittee chairmen as agreed upon.

7. Is it possible to arrange some instruction for committee chairmen and staff?

Answer: Dallas Peck, Chairman; Bob Corell, Vice Chairman; and Paul Dressler, Executive Secretary, have been asked to brief their peers on other committees about the successful operations of the Committee on Earth Sciences.

February 6, 1990

DRAFT
SAMPLE FCCSET COMMITTEE CHARTER

The Committee on _____ is hereby established by action of the Federal Coordinating Council for Science, Engineering, and Technology (FCCSET). FCCSET derives its authority from PL 94-282.

Purpose

The purpose of the Committee on _____ is to increase the overall effectiveness and productivity of Federal R&D efforts in [fields related to the committee's jurisdiction]. The Committee will address significant national policy matters which cut across agency boundaries and shall provide a formal mechanism for interagency science policy coordination and exchanges of information regarding the scientific aspects of [field of jurisdiction].

Functions

The Committee on _____ will:

- o review national and international Federal R&D programs, including budgets, in [the field of committee jurisdiction];
- o facilitate planning, coordination, and communication among Federal agencies engaged in [the field of committee jurisdiction];
- o identify and define Federal R&D needs in [the field of committee jurisdiction];
- o develop and update long-range plans, including funding levels, for overall Federal R&D efforts in [the field of committee jurisdiction];
- o address specific programmatic and operational issues and problems which affect two or more Federal agencies;
- o provide reviews, analyses, advice, and recommendations to the FCCSET on Federal policies and programs concerned with [the field of committee jurisdiction].

Structure

The Chairman of the Committee on _____ is appointed by the Chairman of the FCCSET.

Responsibilities of the Chairman:

- o hold regular meetings of the Committee (no fewer than six per year) and approve agendas;
- o submit an annual report to the Chairman of the FCCSET for review by the full Council;
- o approve the establishment, continuation or termination of subcommittees, task forces and working groups as necessary to achieve the Committee's purpose;
- o meet regularly (bimonthly) with the Chairman of the FCCSET and other Committee chairmen to evaluate progress, discuss policy coordination, receive new instructions from the FCCSET and report on ongoing activities.

The following departments and agencies are represented on this Committee at the Assistant Secretary level or above:

[All FCCSET members and any other agency or department not on the FCCSET but with S&T activities in the committee's field of jurisdiction].

Membership on subcommittees, task forces, and working groups is not restricted to Committee members and is established as the Committee Chairman may determine appropriate.

Committee activities will be coordinated by an Executive Secretary, designated by the Committee Chairman. Additional staff and funding assistance, consistent with the functions of this charter, will be provided by member agencies as required by the Committee chairman.

Private Sector Interface

The Committee will recommend to the Chairman of the FCCSET the nature of private sector advice needed to accomplish its mission. The Chairman of the FCCSET will take necessary steps to ensure appropriate interaction between the President's Council of Advisors on Science and Technology (PCAST) and the Committee. The Committee may also seek ad hoc advice from various private sector groups as consistent with the Federal Advisory Act.

Compensation

All members are full-time Federal employees who are allowed reimbursement for travel expenses by their agencies plus per diem or subsistence while away from their duty stations and in accordance with standard government travel regulations.

Documentation

Agendas and records of actions of Committee meetings are prepared and disseminated to members by the Executive Secretary. Records of actions are submitted to members for approval. Complete records of all Committee activities, including those of task forces and working groups, are maintained in the office of the Chairman. The Committee prepares a report for the Chairman of the FCCSET not later than 60 days after the end of each fiscal year. The report contains, as a minimum, the Committee's functions; a list of members; a list of subcommittees, task forces and working groups and their charters; the dates, places and agendas for all meetings; and a summary of the Committee's activities and recommendations during the year.

Termination Date

Unless renewed by the Chairman of FCCSET prior to its expiration, the Committee on _____ shall terminate not later than March 31, 1991.

Determination

I hereby determine that the formation of the Committee on _____ is in the public interest in connection with the performance of duties imposed on the Executive Branch by law and that such duties can best be performed through the advice and counsel of such a group.

Approved:

Chairman, FCCSET

Date

CALIFORNIA COUNCIL ON SCIENCE AND TECHNOLOGY

L. DONALD SHIELDS, Ph.D.
EXECUTIVE DIRECTOR

TEL: (714) 854-4150
FAX: (714) 854-4179

Founding Members:
University of California
California Institute of
Technology
California State University
Stanford University
University of Southern
California

March 30, 1990

Honorable D. Allan Bromley
Assistant to the President for
Science and Technology
Old Executive Office Building, Room 358
Washington, D.C. 20506

Dear Dr. Bromley,

The California Council on Science and Technology is pleased to learn that you are establishing a new Federal Coordinating Committee on Science, Engineering and Technology (FCCSET) to focus federal efforts for science and mathematics education. We applaud this decision, and urge you to designate the National Science Foundation as the lead agency for this new committee.

The California Council on Science and Technology, an alliance of universities and industry, is charged with helping the State develop science and technology policy as well as implement major initiatives which relate to policy recommendations. Our founding members include the University of California, the California Institute of Technology, the California State University, Stanford University and the University of Southern California. Ensuring that California can produce a large portion of its own scientific and technical workforce is one of our prime concerns, and that is why we are closely following federal efforts in this area.

I have been a consultant to state and local boards of education, and president of two higher education institutions, as well as a member of the National Science Board, so I can attest to NSF's active and most effective role in advancing our nation's science, engineering, and mathematics education programs. Its expertise in the teaching and learning of science spans the entire spectrum from elementary through graduate school. NSF leads the federal effort in curriculum and materials design, teacher preparation, informal science education, and the evaluation of science, mathematics and engineering education.

Most importantly, NSF has a proven ability to draw in all the sectors involved with science and mathematics education, and to link the research community with the education community. For these reasons, it is clear the Foundation has a unique leadership role to play in the new FCCSET committee.

Thank you for hearing our opinion on this important issue. We look forward to learning more about the FCCSET committee.

With best regards,

A large, stylized handwritten signature in black ink, appearing to read "L. Donald Shields".

L. Donald Shields
Executive Director

cc: David Gardner
Thomas Everhart
Donald Kennedy
W. Ann Reynolds
James Zumberge

THE WHITE HOUSE

WASHINGTON

May 1, 1990

Dear Dr. Shields:

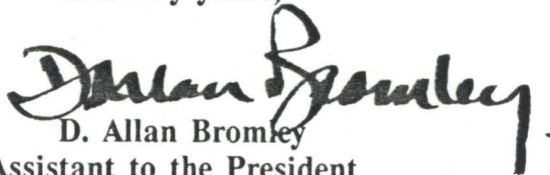
I am pleased to have your support for the upcoming efforts of the Federal Coordinating Council for Science, Engineering and Technology (FCCSET) in the area of science and mathematics education.

As FCCSET Chairman, I have established a Committee on Education and Human Resources. That Committee will be responsive to the six National Education Goals set by the President and the Nation's Governors. The Committee will address issues like those you have identified for California: improving education, particularly with regard to the long-term impact on the science and technology workforce.

I am pleased to announce that the Committee on Education and Human Resources will be chaired by Admiral James Watkins (Retired), Secretary, Department of Energy. Admiral Watkins has a strong personal interest in this area. The Vice Chairmen are Ted Sanders, Deputy Secretary, Department of Education and Luther Williams, Senior Science Advisor, National Science Foundation.

As you can see, the National Science Foundation will play a major role in the Committee on Education and Human Resources.

Sincerely yours,



D. Allan Bromley
Assistant to the President
for
Science and Technology

L. Donald Shields, Ph.D.
Executive Director
California Council on Science
and Technology
National Academy of Science and Engineering
100 Academy Drive
Irvine, California 92715

THE WHITE HOUSE

WASHINGTON

March 23, 1990

MEMORANDUM FOR JAMES W. CICCONI

FROM: D. ALLAN BROMLEY *AB*
SUBJECT: DRAFT PRESS RELEASE

Enclosed is the draft press release on the Science and Technology Working Group and FCCSET Reorganization. I would appreciate your staffing it to concerned White House offices for review. I have worked closely with Steve Danzansky; Cabinet Affairs is in concurrence with the text.

If I can be of further assistance, please let me know.

Attachment

"CORRESPONDENCE TRACKING"

TYPE: Action Item

DOCUMENT NUMBER: 9021184

FROM: Hackerman, Norman, Rice University

TO: Bromley

DATE OF
CORRESPONDENCE: 03/21/90

SUBJECT: Concerns about FCCSET subcommittee leadership

ASSIGNED TO: THOMAS WELCH

ACTION REQUIRED: draft for DAB's signature

SENDER'S DUE DATE: 03/30/90

OSTP DUE DATE: 04/01/90

DATE COMPLETED:

COPIES TO: Thomas Ratchford

WHITE HOUSE TRACKING #:

CONTACT PERSON:

REMARKS:

DATE RECEIVED:

FILE: FCCSET

RICE UNIVERSITY

P. O. BOX 1892
HOUSTON, TEXAS 77251

NORMAN HACKERMAN
PRESIDENT EMERITUS

March 21, 1990

The Honorable D. Allan Bromley
Assistant to the President for
Science and Technology
Room 358
Old Executive Office Building
Washington, DC 20506

Dear Allan:

Ordinarily I don't get involved in letter writing, but I was certainly happy to hear that you were moving quickly to address federal efforts in science and math education. This is an area in which I have considerable interest and in which I have tried to insert ideas in a number of places. The problem is multifaceted, of course, and involves among other things in a very important way what I perceive to be a growing gap between the science/engineering community and the general public. At any rate, the FCCSET Committee approach is a good way to get the major players in the Federal government working together on this problem.

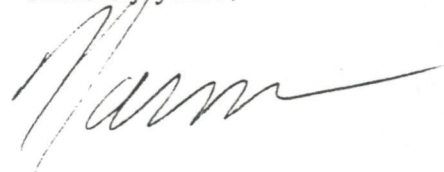
The reason for this letter is to suggest to you if you have not already designated an agency to take the lead in this matter that the NSF qualifies for such a position. The Foundation has, on numerous occasions, faced the problems of quality and quantity of scientists and engineers and has indeed touched on the question of public literacy in science. It has the respect of the leaders in education, science, and industry as well as in federal and state governments.

As you may remember my affiliation with the NSF spans some thirty years including some twelve years with the National Science Board with six of those as its chairman. This may appear to constitute bias on my part, but it certainly has permitted me to see directly the creativity and enthusiasm of staff and the way that has contributed to its success in promoting high quality in research and education. In the latter case, as I said above, this involved not only the talent for science and engineering but also enhanced public understanding of nature, its materials and forces.

I have been able to view the NSF not only from inside but also as educator, research worker, and university president and believe that its reputation for doing an outstanding job not only in the field of research but also in the field of education is well earned. It is this combination which makes the agency so well qualified for leadership of the committee you have in mind. It would be my pleasure to discuss this matter further at your convenience if you wish.

Best regards

Sincerely yours,



NH:jgb

THE WHITE HOUSE

WASHINGTON

April 6, 1990

Dear Norman,

It was a pleasure to hear from you, and I very much appreciate your comments on the FCCSET, the importance of mathematics and science education, and the special role and value of the NSF.

We are most fortunate to have Admiral James Watkins [Ret.], Secretary, Department of Energy, as our FCCSET Chairman for Education and Human Resources. His Vice Chairmen are Luther Williams, Senior Science Advisor, NSF, and Ted Sanders, Deputy Secretary, Department of Education. I am also very pleased to tell you that Erich Bloch, Director, NSF, will be Chairman of the FCCSET committee on Physical, Mathematical and Engineering Sciences.

These two committees will work together and at the full FCCSET level to assure the national plans, programs and budgets for mathematical and science education are the most responsive possible. I urge you to maintain your interest in FCCSET, and through your affiliations with NSF and the National Science Board, assist in FCCSET mathematics and science education initiatives.

Sincerely yours,



D. Allan Bromley
Assistant to the President
for
Science and Technology

Dr. Norman Hackerman
President Emeritus
Rice University
P.O. Box 1892
Houston, TX 77251

RICE UNIVERSITY

P. O. BOX 1892
HOUSTON, TEXAS 77251

NORMAN HACKERMAN
PRESIDENT EMERITUS

March 21, 1990

The Honorable D. Allan Bromley
Assistant to the President for
Science and Technology
Room 358
Old Executive Office Building
Washington, DC 20506

Dear Allan:

Ordinarily I don't get involved in letter writing, but I was certainly happy to hear that you were moving quickly to address federal efforts in science and math education. This is an area in which I have considerable interest and in which I have tried to insert ideas in a number of places. The problem is multifaceted, of course, and involves among other things in a very important way what I perceive to be a growing gap between the science/engineering community and the general public. At any rate, the FCCSET Committee approach is a good way to get the major players in the Federal government working together on this problem.

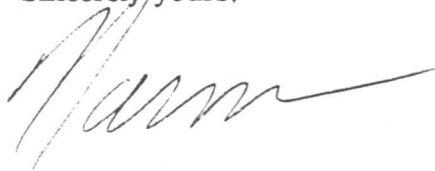
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I have been able to view the NSF not only from inside but also as educator, research worker, and university president and believe that its reputation for doing an outstanding job not only in the field of research but also in the field of education is well earned. It is this combination which makes the agency so well qualified for leadership of the committee you have in mind. It would be my pleasure to discuss this matter further at your convenience if you wish.

Best regards

Sincerely yours,



NH:jgb

THE WHITE HOUSE

WASHINGTON

April 2, 1990

Dear Norman,

It was a pleasure to hear from you, and I very much appreciate your comments on the FCCSET, the importance of mathematics and science education, and the special role and value of the NSF.

We are most fortunate to have Admiral James Watkins [Ret.], Secretary, Department of Energy, as our FCCSET Chairman for Education and Human Resources. His Vice Chairmen are Luther Williams, Senior Science Advisor, NSF, and Ted Sanders, Deputy Secretary, Department of Education. I am also very pleased to tell you that Erich Bloch, Director, NSF, will be Chairman of the FCCSET committee on Physical, Mathematical and Engineering Sciences.

These two committees will work together and at the full FCCSET level to assure the national plans, programs and budgets for mathematical and science education are the most responsive possible. I urge you to maintain your interest in FCCSET, and through your affiliations with NSF and the National Science Board, assist in FCCSET mathematics and science education initiatives.

Sincerely yours,



D. Allan Bromley
Assistant to the President
for
Science and Technology

Dr. Norman Hackerman
President Emeritus
Rice University
P.O. Box 1892
Houston, TX 77251

"CORRESPONDENCE TRACKING"

TYPE: Action Item

DOCUMENT NUMBER: 9020842

FROM: Erich Bloch, NSF

TO: Bromley

DATE OF
CORRESPONDENCE: 03/06/90

SUBJECT: Leadership of the FCCSET Committee on Education and
Human Resources. NSF to lead this committee

ASSIGNED TO: Thomas Ratchford

ACTION REQUIRED: DRAFT reply for
DAB

SENDER'S DUE DATE: OSTP DUE DATE: 03/16/90

DATE COMPLETED: -----

COPIES TO: Judy Bostock
Thomas Welch

WHITE HOUSE TRACKING #:

CONTACT PERSON:

REMARKS:

DATE RECEIVED: 03/08/90

FILE: NEOB

NATIONAL SCIENCE FOUNDATION
WASHINGTON, D.C. 20550

nsf

March 6, 1990

OFFICE OF THE
DIRECTOR

The Honorable D. Allan Bromley
Assistant to the President for
Science and Technology
Room 358, Old Executive Office Building
Washington, D.C. 20506

Dear Allan:

I am writing you regarding the leadership of the FCCSET Committee on Education and Human Resources. For a FCCSET Committee with the goal of effective coordination of Federal agency programs bearing on education and human resource development in science and technology, NSF is the most logical agency for provision of the requisite leadership of the Committee. This position is based on the substantial and long term experiences, expertise, and comprehensive programs of NSF addressing:

- (a) teachers, students, and materials at all levels of precollege mathematics and science education;
- (b) informal science and mathematics education, education technologies, and research on mathematics and science learning;
- (c) student research experiences, faculty, laboratory instrumentation and improvement, and course and curriculum developments in undergraduate science, engineering, and mathematics education;
- (d) science and engineering graduate education and career development;
- (e) broadening participation of women and minorities at critical steps in the science and engineering education pipeline, and career initiation and advancement;
- (f) science and engineering institutional infrastructure development at the institutional and state (EPSCOR) levels;
- (g) evaluation of model mathematics and science education programs developed in diverse institutional settings, and assessments of student learning in mathematics and science; and

- (h) facilitating the implementation of these education and human resources programs via effective participation by the science and engineering disciplinary scholars, the professional bodies and societies of science and engineering, state and local agencies, the private sector, and the public.

As an alternative to the aforementioned leadership role by NSF, one might ask why not assign the leadership of the FCCSET Committee to the DoEd?

Succinctly, while the DoEd has a major Federal role for precollege and postsecondary education in the generic, its role in science, mathematics, and engineering education, is only a fraction (e.g., \$136 million of a total budget exceeding \$11 billion for FY90) of the rather broad programs/responsibilities of this agency. Moreover, even in the instance of science and mathematics education, DoEd has a rather limited responsibility; engineering education is not a component of its portfolio and the Department has no responsibility for programs addressing human resource development in science and technology. The distinct absence of expertise and relevant program experiences would, in my opinion, serve to constrain the DoEd's perspectives and understanding of issues, strategies, and directions essential to effective coordination of the Federal agency programs.

Beyond NSF and DoEd, leadership by any other Federal agency, a member of the FCCSET Committee, would be highly problematic and possibly ineffective owing to:

- (a) the substantial lack of relevant program knowledge in science and technology human resource development and science, mathematics, and engineering education; and
- (b) the absence of organizational credibility, experience, and regular interactions with the academic sector based science and engineering grantee community for science, mathematics, and engineering education.

Leadership by such an agency would decrease the stature of the FCCSET Committee with the Congress, science and engineering societies, and the higher education community.

In summary, I am simply suggesting that the Federal agency assigned responsibility for 46% of the total Federal government's effort in science, mathematics, and engineering education and human resource development in science and technology be extended

- 3 -

the opportunity to continue its leadership role. I appreciate your consideration of the issues raised in this letter, and I would be pleased to discuss further the matter of the leadership of this exceedingly important FCCSET Committee with you.

Sincerely,

A handwritten signature in dark ink, appearing to read "E. Bloch", with a stylized flourish at the end.

Erich Bloch
Director

THE WHITE HOUSE

WASHINGTON

March 16, 1990

Dear Erich:

Thank you very much for your letter regarding the leadership of the FCCSET Committee on Education and Human Resources, and for your interest in this important subject.

As you know, I am now in the process of consulting with FCCSET members about the chairmanships of the various committees. Be assured that I will consider very seriously the issues you raise in your letter.

Thank you again for your interest in this important FCCSET Committee.

Sincerely,



D. Allan Bromley
Assistant to the President
for Science and Technology

The Honorable Erich Bloch
Director
National Science Foundation
1800 G Street, N.W.
Washington, D.C. 20550

THE WHITE HOUSE

WASHINGTON

February 26, 1990

MEMORANDUM FOR ALLAN BROMLEY

FROM: DAVID Q. BATES 
SUBJECT: FCCSET and Science and Technology Policy

Thanks for your thoughtful letter of February 12 concerning the functions and activities of FCCSET and its draft charter. I have reviewed the materials with interest. You have properly identified several potential problems of coordination and possible duplication of functions with existing policy bodies, two of which the Office of Cabinet Affairs has direct responsibility for administering.

As you well know Allan, the President in signing the charter for the DPC and EPC clearly designated those two Cabinet Councils as the "primary channels for advising the President on policy." Early in the Reagan Administration there were six Cabinet Councils, each with a separate area of expertise and jurisdiction. That was changed in the summer of 1985 when it was discovered that the proliferation of policy bodies, all reporting to the President, invited Cabinet officers to "forum shop" their issues between and among the councils which would likely give them the best result. Thereafter all Cabinet-level policy formulation was to be done in one of three fora: the National Security Council, the Economic Policy Council and the Domestic Policy Council.

With the addition of the Space Council and recently the Competitiveness Council, there is growing concern that despite the President's early directive, we are in danger of repeating the mistakes of the past and undermining the positive benefit of the 1985 consolidation. That is why I am expressing some reserve in ratcheting up yet another "policy" body, albeit limited in scope to matters of science and technology. The fact that Congress has passed law establishing the FCCSET as a coordinating mechanism, does not mean that it can tell the President how to run his Administration.

I would recommend, therefore, some careful thought and deliberation before proceeding apace with a new charter for FCCSET. In fact, the EPC last year established a Working Group on Science and Technology with a broad mandate to examine federal policy in this area with an eye on U.S. competitiveness and sound economic policymaking. Unfortunately, that group has somewhat ground to a halt and just last week we spoke with Hollis

McLaughlin (Nick Brady's Counsellor) about revitalizing that effort under your leadership. I believe that Steve Danzansky mentioned this possibility to you. Treasury was most enthusiastic.

In that light, I have asked our staff to work with White House Counsel's office on how best to incorporate the work of FCCSET with the EPC/DPC process without jeopardizing executive privilege or subjecting ourselves to FOIA requests or congressional oversight. They are now looking into the matter and should have some answers within the next few days.

I would therefore counsel further consultation on the FCCSET question. Right now I would be leaning toward establishing an S&T Working Group in both the EPC and DPC under your leadership, with the former policy council looking at economic interface (e.g. competitiveness and industrial policy) and the latter focusing upon controversial domestic policy considerations (e.g. fetal research, medical experimentation, biotechnology, etc.). Perhaps the FCCSET effort could then be limited to an advisory or informational and coordinative role to protect the President from congressional intrusiveness.

I promise to be back with you shortly on these important questions and thank you for consulting with me in advance of proceeding.

it is
To the extent not being addressed
in the Competitiveness Council.

THE WHITE HOUSE
WASHINGTON

February 22, 1990

Dear Secretary Sullivan:

On February 8, I sent you follow-up information to the first meeting of the Federal Coordinating Council for Science, Engineering, and Technology (FCCSET). I believe my office has already been in contact with you to schedule the next FCCSET meeting, but I would like to take this opportunity to formally invite you to attend the second meeting of the FCCSET on March 1, 1990 from 3:15-4:30 p.m. in the Roosevelt Room of the White House.

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I welcome your thoughts and ideas about the mandate of the FCCSET and I look forward to discussing the draft FCCSET charter circulated with my February 12 letter. It will be important to iron out any differences by March 1, so that we can move quickly to issue the charter and begin tackling the many serious issues at hand.

Due to space limitations, attendance at the meeting is limited to principals plus one. Please confirm your participation with Sally Sherman (395-3902), and also advise her of the name and date of birth of the staff member who will attend with you.

I look forward to a worthwhile and lively discussion.

Sincerely,



D. Allan Bromley
Assistant to the President
for Science and Technology

Attachment

The Honorable Louis W. Sullivan
The Secretary of Health
and Human Services
Washington, DC 20201

OSTP:SBowden:raf
(2/21/90 - WP:C:FCCSET)

THE WHITE HOUSE
WASHINGTON

February 22, 1990

Clayton
Dear Secretary Yeutter:

On February 8, I sent you follow-up information to the first meeting of the Federal Coordinating Council for Science, Engineering, and Technology (FCCSET). I believe my office has already been in contact with you to schedule the next FCCSET meeting, but I would like to take this opportunity to formally invite you to attend the second meeting of the FCCSET on March 1, 1990 from 3:15-4:30 p.m. in the Roosevelt Room of the White House.

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Sincerely,

Dan

D. Allan Bromley
Assistant to the President
for Science and Technology

Attachment

The Honorable Clayton Yeutter
The Secretary of Agriculture
Washington, DC 20250

OSTP:SBowden:raf
(2/21/90 - WP:C:FCCSET)

THE WHITE HOUSE
WASHINGTON

February 22, 1990

Bill
Dear Mr. Reilly:

On February 8, I sent you follow-up information to the first meeting of the Federal Coordinating Council for Science, Engineering, and Technology (FCCSET). I believe my office has already been in contact with you to schedule the next FCCSET meeting, but I would like to take this opportunity to formally invite you to attend the second meeting of the FCCSET on March 1, 1990 from 3:15-4:30 p.m. in the Roosevelt Room of the White House.

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D. Allan Bromley
Assistant to the President
for Science and Technology

Attachment

The Honorable William K. Reilly
Administrator
Environmental Protection Agency
Washington, DC 20460

OSTP:SBowden:raf
(2/21/90 - WP:C:FCCSET)

THE WHITE HOUSE

WASHINGTON

February 22, 1990


Dear Mr. Atwood:

On February 8, I sent you follow-up information to the first meeting of the Federal Coordinating Council for Science, Engineering, and Technology (FCCSET). I believe my office has already been in contact with you to schedule the next FCCSET meeting, but I would like to take this opportunity to formally invite you to attend the second meeting of the FCCSET on March 1, 1990 from 3:15-4:30 p.m. in the Roosevelt Room of the White House.

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Sincerely,



D. Allan Bromley
Assistant to the President
for Science and Technology

Attachment

The Honorable Donald J. Atwood, Jr.
Deputy Secretary
Department of Defense
Washington, DC 20301

OSTP:SBowden:raf
(2/21/90 - WP:C:FCCSET)

THE WHITE HOUSE

WASHINGTON

February 22, 1990

Dear Mr. Principi:

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Sincerely,



D. Allan Bromley
Assistant to the President
for Science and Technology

Attachment

The Honorable Anthony J. Principi
Deputy Secretary
Department of Veterans Affairs
Washington, DC 20420

OSTP:SBowden:raf
(2/21/90 - WP:C:FCCSET)

THE WHITE HOUSE
WASHINGTON

February 22, 1990


Dear Mr. Murrin:

On February 8, I sent you follow-up information to the first meeting of the Federal Coordinating Council for Science, Engineering, and Technology (FCCSET). I believe my office has already been in contact with you to schedule the next FCCSET meeting, but I would like to take this opportunity to formally invite you to attend the second meeting of the FCCSET on March 1, 1990 from 3:15-4:30 p.m. in the Roosevelt Room of the White House.

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Sincerely,



D. Allan Bromley
Assistant to the President
for Science and Technology

Attachment

The Honorable Thomas J. Murrin
Deputy Secretary
Department of Commerce
Washington, DC 20320

OSTP:SBowden:raf
(2/21/90 - WP:C:FCCSET)

THE WHITE HOUSE
WASHINGTON

February 22, 1990

Elaine

Dear Ms. ~~Chao~~:

On February 8, I sent you follow-up information to the first meeting of the Federal Coordinating Council for Science, Engineering, and Technology (FCCSET). I believe my office has already been in contact with you to schedule the next FCCSET meeting, but I would like to take this opportunity to formally invite you to attend the second meeting of the FCCSET on March 1, 1990 from 3:15-4:30 p.m. in the Roosevelt Room of the White House.

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Sincerely,

Dua

D. Allan Bromley
Assistant to the President
for Science and Technology

Attachment

The Honorable Elaine Chao
Deputy Secretary
Department of Transportation
Washington, DC 20590

OSTP:SBowden:raf
(2/21/90 - WP:C:FCCSET)

THE WHITE HOUSE
WASHINGTON

February 21, 1990

Erich

Dear Mr. Bloch:

On February 8, I sent you follow-up information to the first meeting of the Federal Coordinating Council for Science, Engineering, and Technology (FCCSET). I believe my office has already been in contact with you to schedule the next FCCSET meeting, but I would like to take this opportunity to formally invite you to attend the second meeting of the FCCSET on March 1, 1990 from 3:15-4:30 p.m. in the Roosevelt Room of the White House.

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D. Allan Bromley

D. Allan Bromley
Assistant to the President
for Science and Technology

Attachment

The Honorable Erich Bloch
Director
National Science Foundation
Washington, DC 20550

OSTP:SBowden:raf
(2/21/90 - WP:C:FCCSET)

THE WHITE HOUSE
WASHINGTON

February 22, 1990


Dear Admiral Watkins:

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Sincerely,



D. Allan Bromley
Assistant to the President
for Science and Technology

Attachment

The Honorable James D. Watkins, USN (Ret)
The Secretary of Energy
Washington, DC 20585

OSTP:SBowden:raf
(2/21/90 - WP:C:FCCSET)

THE WHITE HOUSE
WASHINGTON

February 21, 1990


Dear Admiral Truly:

On February 8, I sent you follow-up information to the first meeting of the Federal Coordinating Council for Science, Engineering, and Technology (FCCSET). I believe my office has already been in contact with you to schedule the next FCCSET meeting, but I would like to take this opportunity to formally invite you to attend the second meeting of the FCCSET on March 1, 1990 from 3:15-4:30 p.m. in the Roosevelt Room of the White House.

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Sincerely,



D. Allan Bromley
Assistant to the President
for Science and Technology

Attachment

The Honorable Richard H. Truly
Administrator
National Aeronautics and
Space Administration
Washington, DC 20546

OSTP:SBowden:raf
(2/21/90 - WP:C:FCCSET)

THE WHITE HOUSE
WASHINGTON

February 22, 1990


Dear Secretary Cavazos:

On February 8, I sent you follow-up information to the first meeting of the Federal Coordinating Council for Science, Engineering, and Technology (FCCSET). I believe my office has already been in contact with you to schedule the next FCCSET meeting, but I would like to take this opportunity to formally invite you to attend the second meeting of the FCCSET on March 1, 1990 from 3:15-4:30 p.m. in the Roosevelt Room of the White House.

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Sincerely,



D. Allan Bromley
Assistant to the President
for Science and Technology

Attachment

The Honorable Lauro F. Cavazos
The Secretary of Education
Washington, DC 20202

OSTP:SBowden:raf
(2/21/90 - WP:C:FCCSET)

THE WHITE HOUSE
WASHINGTON

February 22, 1990

Jack
Dear Secretary Kemp:

On February 8, I sent you follow-up information to the first meeting of the Federal Coordinating Council for Science, Engineering, and Technology (FCCSET). I believe my office has already been in contact with you to schedule the next FCCSET meeting, but I would like to take this opportunity to formally invite you to attend the second meeting of the FCCSET on March 1, 1990 from 3:15-4:30 p.m. in the Roosevelt Room of the White House.

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Sincerely,

Allan

D. Allan Bromley
Assistant to the President
for Science and Technology

Attachment

The Honorable Jack Kemp
The Secretary of Housing
and Urban Development
Washington, DC 20410

OSTP:SBowden:raf
(2/21/90 - WP:C:FCCSET)

THE WHITE HOUSE
WASHINGTON

February 22, 1990



Dear Secretary Dole:

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D. Allan Bromley
Assistant to the President
for Science and Technology

Attachment

The Honorable Elizabeth H. Dole
The Secretary of Labor
Washington, DC 20210

OSTP:SBowden:raf
(2/21/90 - WP:C:FCCSET)

THE WHITE HOUSE
WASHINGTON

February 21, 1990


Dear Secretary Lujan:

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D. Allan Bromley
Assistant to the President
for Science and Technology

Attachment

The Honorable Manuel Lujan, Jr.
Secretary of the Interior
Washington, DC 20240

OSTP:SBowden:raf
(2/21/90 - WP:C:FCCSET)

THE WHITE HOUSE
WASHINGTON

February 22, 1990

Richard
Dear Mr. McCormack:

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Dan

D. Allan Bromley
Assistant to the President
for Science and Technology

Attachment

The Honorable Richard T. McCormack
Under Secretary for Economic Affairs
Department of State
Washington, DC 20520

OSTP:SBowden:raf
(2/21/90 - WP:C:FCCSET)

THE WHITE HOUSE
WASHINGTON

February 22, 1990

BSB
Dear Mr. Grady:

On February 8, I sent you follow-up information to the first meeting of the Federal Coordinating Council for Science, Engineering, and Technology (FCCSET). I believe my office has already been in contact with you to schedule the next FCCSET meeting, but I would like to take this opportunity to formally invite you to attend the second meeting of the FCCSET on March 1, 1990 from 3:15-4:30 p.m. in the Roosevelt Room of the White House.

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D. Allan Bromley

D. Allan Bromley
Assistant to the President
for Science and Technology

Attachment

Mr. Robert E. Grady
Associate Director
Natural Resources, Energy,
and Science
Office of Management and Budget
Washington, DC 20503

OSTP:SBowden:raf
(2/21/90 - WP:C:FCCSET)

THE WHITE HOUSE
WASHINGTON

February 22, 1990


Dear Mr. Porter:

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D. Allan Bromley
Assistant to the President
for Science and Technology

Attachment

The Honorable Roger B. Porter
Assistant to the President
for Economic and Domestic Policy
The White House
Washington, DC 20500

OSTP:SBowden:raf
(2/21/90 - WP:C:FCCSET)

THE WHITE HOUSE
WASHINGTON

February 22, 1990


Dear General Scowcroft:

On February 8, I sent you follow-up information to the first meeting of the Federal Coordinating Council for Science, Engineering, and Technology (FCCSET). I believe my office has already been in contact with you to schedule the next FCCSET meeting, but I would like to take this opportunity to formally invite you to attend the second meeting of the FCCSET on March 1, 1990 from 3:15-4:30 p.m. in the Roosevelt Room of the White House.

Attached you will find a copy of the agenda for the meeting. There are two points that merit highlighting. First, because of the President's emphasis on science and technology, we need to proceed expeditiously to establish committees and charters. I hope we will be able to finalize the committee structure and agree on priority areas of research for initial emphasis.

I welcome your thoughts and ideas about the mandate of the FCCSET and I look forward to discussing the draft FCCSET charter circulated with my February 12 letter. It will be important to iron out any differences by March 1, so that we can move quickly to issue the charter and begin tackling the many serious issues at hand.

Due to space limitations, attendance at the meeting is limited to principals plus one. Please confirm your participation with Sally Sherman (395-3902), and also advise her of the name and date of birth of the staff member who will attend with you.

I look forward to a worthwhile and lively discussion.

Sincerely,



D. Allan Bromley
Assistant to the President
for Science and Technology

Attachment

The Honorable Brent Scowcroft
Assistant to the President
for National Security Affairs
National Security Council
Washington, DC 20500

OSTP:SBowden:raf
(2/21/90 - WP:C:FCCSET)

THE WHITE HOUSE
WASHINGTON

February 22, 1990

David

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Sincerely,

Alan

D. Allan Bromley
Assistant to the President
for Science and Technology

Attachment

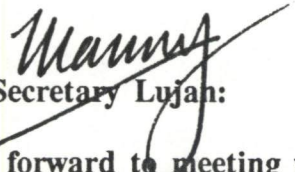
The Honorable David Q. Bates, Jr.
Assistant to the President
and Secretary to the Cabinet
The White House
Washington, DC 20500

OSTP:SBowden:raf
(2/21/90 - WP:C:FCCSET)

THE WHITE HOUSE

WASHINGTON

February 21, 1990


Dear Secretary Lujan:

I look forward to meeting with you on Monday, February 26, at 1:00 p.m. to talk to you about the role of the Department of the Interior in the Federal Coordinating Council for Science, Engineering, and Technology (FCCSET). As you know, Dallas Peck is doing an outstanding job as Chairman of the FCCSET Committee on Earth Sciences, a committee that in many ways serves as a model for other FCCSET committees in the future. There are science and technology activities within the Department of the Interior, other than those in the USGS, which could play a vital role in the FCCSET, and I hope we can discuss some of these as well.

No doubt there are other issues related to science and technology that are of great importance to the Department. I welcome this opportunity to explore ways in which OSTP may assist in dealing with them effectively.

I look forward to our meeting on the 26th.

Sincerely,



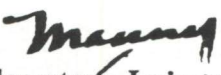
D. Allan Bromley
Assistant to the President
for Science and Technology

The Honorable Manuel Lujan, Jr.
Secretary of the Interior
Washington, DC 20240

OSTP:PIA:SB/TJR:raf
Feb. 16, 1990
(WP/CDrive/Lujan)

THE WHITE HOUSE
WASHINGTON

February 21, 1990


Dear Secretary Lujan:

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Sincerely,



D. Allan Bromley
Assistant to the President
for Science and Technology

Attachment

The Honorable Manuel Lujan, Jr.
Secretary of the Interior
Washington, DC 20240

OSTP:SBowden:raf
(2/21/90 - WP:C:FCCSET)

**MEETING OF THE
FEDERAL COORDINATING COUNCIL
FOR SCIENCE, ENGINEERING, AND TECHNOLOGY**

**THURSDAY, MARCH 1, 1990
3:15 - 4:30 P.M.**

THE ROOSEVELT ROOM

AGENDA

- I. Summary of Minutes of January 24 Meeting**
- II. Discussion of Draft FCCSET Charter**
- III. Review and Approval of Committee Structure: Discussion of Priority Areas for FCCSET Committee Consideration and Coordination**
- IV. Discussion of Draft Sample Committee Charter**
- V. Administrative**
 - FCCSET Membership**
 - Update on Executive Secretariat**

THE WHITE HOUSE
WASHINGTON

February 16, 1990

MEMORANDUM FOR DAVID Q. BATES

FROM: D. ALLAN BROMLEY 
SUBJECT: FEDERAL COORDINATING COUNCIL FOR SCIENCE,
ENGINEERING AND TECHNOLOGY

Your memorandum of February 5, 1990 concerning the structure and operations of the Federal Coordinating Council for Science, Engineering and Technology (FCCSET) is greatly appreciated. Ken Yale's participation in the first FCCSET meeting on January 24, and his subsequent conversations with Tom Ratchford on a variety of issues related to FCCSET have also been immensely helpful. Clearly, it will be a significant challenge to develop and coordinate truly national research programs from various components in several agencies. However, the success of the FCCSET Committee on Earth Sciences in the area of global change does, I believe, point the way for other areas of research and development.

Although the primary responsibility of the FCCSET is to coordinate R&D among the federal agencies, and the overwhelming fraction of the efforts of its committees will be directed toward accomplishment of this mainly technical task, the FCCSET should play a constructive policy role with respect to the Cabinet Councils. Below are some preliminary thoughts on how this might be structured; I would be pleased to discuss the issue with you in more detail, at your convenience.

The major policy role of FCCSET would be to provide expertise and analyses to the DPC, EPC, NSC, as well as the Space and Competitiveness Councils. Typically the issues would be very broad, with science and technology playing an important but subsidiary role. In many - perhaps most - cases, the FCCSET could be tasked by the appropriate council to provide analysis of a particular issue. In some cases, alternative options might be analyzed by the appropriate FCCSET committee, in response to specific requests by a council. In other cases - probably not very many - a broad issue with mainly scientific and technological content might evolve to the point of deserving consideration by a council.

What we need are effective ways for the councils to identify policy issues to be sent to the FCCSET. With some thought and planning, I believe this can be done in an operationally satisfactory manner.

Somewhat easier to conceptualize, is the process by which policy issues might originate in FCCSET and be fed into the appropriate council. As FCCSET chairman, and a member of EPC and DPC, it would be my responsibility to propose these council agenda items.

The above discussion has focussed on what I call science and technology for policy: i.e., making sure that the best science and technology (from the FCCSET) is made available in a timely, "user friendly" manner to the policy fora (Cabinet Councils). An example of this is the input of the FCCSET Committee on Earth Sciences to the DPC Climate Change Working Group.

In addition to science and technology for policy, there is also a need, in some cases, to provide policy for science and technology. This class of issues typically is not important enough - on the national scale - to earn attention from a Cabinet Council, and could be resolved directly by the FCCSET. An example of this class of issues is the setting of priority among and within areas of basic research.

I am convinced that FCCSET, properly organized and functioning smoothly, will make a significant difference in the coordination and priority setting within federal science and technology programs. This is the primary responsibility of OSTP and of FCCSET as set forth in our founding legislation. FCCSET can also be a useful adjunct to the primary policy fora, and we look forward to working with you to see that this is done in the most effective manner possible.

THE WHITE HOUSE

WASHINGTON

Feb 12, 1990

Mr. David Bates:

Dear David:

Thank you for your note on this topic. Look forward to making the FCCSET a more responsive input concerning issues and technology to both the EPC and DOE.

Discussed this morning with Ken Yale and Shlomo that we are in agreement as to how best to proceed. Recognizing that FCCSET's role is to provide input to policy rather than policy itself.

Sincerely
Bill

EXECUTIVE OFFICE OF THE PRESIDENT
OFFICE OF SCIENCE AND TECHNOLOGY POLICY
WASHINGTON, D.C. 20506

February 12, 1990

Dear David:

As you know, on January 24 I chaired the first meeting of the Federal Coordinating Council for Science, Engineering and Technology. I was pleased to have Ken Yale from your staff there to represent the Office of Cabinet Affairs. I believe that we are off to a good start on putting together a clearly much-needed structure to address and coordinate cross-cutting science and technology issues within the Administration. I would like to take this opportunity to fill you in on the outcome of our meeting and to extend a personal invitation to you to participate in succeeding meetings. I would greatly appreciate your support and input in these initial months as we develop the charter, committee structure, and staffing arrangements.

Several issues were raised during the course of our discussion on the 24th, some of which are fairly easy to resolve while others will require the careful consideration of all FCCSET members. First, I think there was a general consensus that we need to define in more detail the functions and activities of the FCCSET. There were concerns expressed, for example, about the FCCSET's role vis-a-vis the President's Council of Advisors on Science and Technology (PCAST), the types of issues the FCCSET would address, FCCSET's role in the budget process, possible duplication of the functions of other policy coordinating bodies such as the Domestic Policy Council and the Economic Policy Council, frequency of meetings, etc.

In general terms, we have agreed that the future success of FCCSET and of its committees depends crucially upon the participation of very senior policy level representatives of the member agencies both in the FCCSET and in its committees.

We have also agreed that inasmuch as I chair both FCCSET and PCAST, I shall accept the responsibility for insuring communication between the private sector PCAST panels and the FCCSET committees and working groups that may be established to consider parallel issues.

You will find attached a draft charter for the FCCSET which I believe addresses these and other issues concerning the role, structure and functions of the FCCSET. I request that you give this draft careful consideration and let me know your thoughts on how it might be modified or improved.

Mr. Bates

Page 2

Second, at our meeting on the 24th, we discussed possible changes in the list of FCCSET committees. There was general consensus that we should keep the number of committees down but no agreement on how to accomplish that objective. There are, I think you would agree, two types of committees. First, there are those that are designed to oversee functional areas of R&D, such as health and life sciences or mathematical and physical sciences. These committees would be responsible for coordinating cross-cutting activities within their field of responsibility and reporting on emerging issues and policy concerns. (I have attached a draft sample charter for this type of committee.)

There are also those committees that are designed to address cross-cutting concerns that affect the scientific well-being of this country but go beyond the confines of any one functional area. They have a policy focus or enabling character that cuts across all of the functional areas. Examples are: education, industrial technology, and international science and technology.

Each of these two types of committees has validity within the FCCSET structure and I would suggest that we find a way to keep both when needed. I have attached a revised committee structure which incorporates many of the suggestions from our meeting. In addition, I have suggested some cross-cutting issues that may be included in the mandate of these committees. I encourage you to review this suggested structure in detail and let me know whether or not it meets the needs of your agency.

I am also interested in your ideas on critical cross-cutting issues which require FCCSET attention and your suggestions as to which committee they might be assigned. I encourage you to be as creative as possible and not necessarily restrained by the committee structure suggested, because, it is by the development of a variety of cross-cutting issues, that we will be able to test the validity of the suggested framework.

A third issue coming out of our meeting on the 24th was the need for a FCCSET executive secretariat. I am in the process of developing a list of candidates to serve in this capacity. I am inclined to identify one senior, and one mid-level professional staff person, together with support staff, to serve in the executive secretariat to the FCCSET. The executive secretariat would be responsible for coordinating our activities as well as overseeing the FCCSET committee structure. I would be interested in any thoughts you have on this structure as well as any candidates you believe merit consideration. One of the first tasks I will assign the executive

Mr. Bates
Page 3

secretariat is to work with the Department of Education to develop the necessary language to amend PL 94-282 to incorporate the Department of Education as a permanent member of the FCCSET.

I am anxious to move rapidly on all of these issues. As you know, there are a number of urgent concerns that require FCCSET attention, and I would like us to get to work on these posthaste. Therefore, I have asked my staff to try to arrange the next meeting of the FCCSET as soon as possible. They will be contacting your office to find a mutually convenient time. I hope that during the course of the meeting we can reach agreement on the charter and the committee structure. I want to try and have the executive secretariat established by that time. Therefore, if you have candidates in mind for these positions, please let me know by February 14 so that I can give them fair consideration.

Again, let me thank you for your continued support, and I look forward to seeing you at our next meeting.

Sincerely yours,



D. Allan Bromley
Director

Attachments:

Tab A	Draft FCCSET Charter
Tab B	Suggested Committee Structure
Tab C	Sample FCCSET Committee Charter
Tab D	FCCSET Membership List
Tab E	Attendees at January 24 FCCSET Meeting

The Honorable David Q. Bates, Jr.
Assistant to the President
and Secretary to the Cabinet
The White House
Washington, D.C. 20500

cc: Kenneth P. Yale

February 6, 1990

DRAFT CHARTER

Federal Coordinating Council For Science, Engineering and Technology

LEGISLATIVE MANDATE

The Federal Coordinating Council for Science Engineering and Technology (FCCSET) was established in 1976 pursuant to Public Law 94-282, Title V of the "National Science and Technology Policy Organization and Priorities Act of 1976" to consider cross-cutting science, engineering and technology issues. the law states that:

"The Council shall consider problems and developments in the fields of science, engineering, and technology and related activities affecting more than one Federal agency, and shall recommend policies and other measures designed to:

- (1) provide more effective planning and administration of Federal scientific, engineering, and technological programs,
- (2) identify research needs including areas requiring additional emphasis,
- (3) achieve more effective utilization of the scientific, engineering, and technological resources and facilities of Federal agencies, including the elimination of unwarranted duplication, and
- (4) further international cooperation in science, engineering, and technology."

OBJECTIVES

In fulfilling this mandate, the FCCSET's two major objectives are:

- o to provide authoritative scientific and technological expertise and advice to policy discussions and decisions to other cabinet-level councils including the National Security Council, the Economic Policy Council, the Domestic Policy Council, the Space Council and the Competitiveness Council.

- o to coordinate science and technology efforts affecting more than one Federal agency and surface and resolve S&T policy issues.

FUNCTIONS

To accomplish these two objectives the FCCSET will:

- o serve as a central coordinating forum for addressing problems and issues affecting more than one Federal agency, sharing information, reviewing national and international policy objectives and developing consensus;
- o identify priority research and development needs;
- o facilitate continuing cooperation in planning coordination and communication among Federal agencies on science and technology issues;
- o issue reports, studies and assessments of current S&T capabilities in fields of research and development of concern to the Administration;
- o provide reviews, analyses, advice and recommendations on science and technology matters to other policy coordinating bodies within the White House including the National Security Council, the Economic Policy Council, the Domestic Policy Council, the Space Council, and the Competitiveness Council;
- o seek to inform other policy making bodies of reviews, studies and analyses underway, and coordinate activities so as not to duplicate functions with these bodies;
- o identify science and technology issues and concerns of importance to the nation and bring policy recommendations to the attention of the President through appropriate policy bodies;
- o with the close cooperation of the Office of Management and Budget, develop, and review annual and long-range Federal budget plans in selected cross-cutting areas of science and technology;
- o improve planning, coordination and communication among Federal agencies engaged in science and technology.

ADMINISTRATIVE PROVISIONS

To accomplish these functions the FCCSET is authorized to:

- o detail employees to the Council to perform such functions, consistent with the purposes of the FCCSET, as the Chairman may assign to them;
- o establish committees for the purposes of conducting studies, making reports, coordinating Federal science and technology activities that involve more than one Federal agency, and making recommendations to the FCCSET;
- o develop, and review on an annual basis, charters for committees, and assign high priority agenda items as necessary;
- o Council meetings shall be called by the Chairman as deemed appropriate and each agency member shall attend at a senior policy level;
- o Council proceedings, studies, and reports, either preliminary or final, shall be printed and distributed only with the Chairman's authorization.

MEMBERSHIP

The Council shall be chaired by of the Director of the Office of Science and Technology Policy and shall be composed of one policy level representative of each of the following Federal Agencies:

Department of Agriculture
Department of Commerce
Department of Defense
Department of Energy
Department of Health and Human Services
Department of Housing and Urban Development
Department of the Interior
Department of State
Department of Transportation
Department of Veteran's Administration
National Aeronautics and Space Administration
National Science Foundation
Environmental Protection Agency

Other Agencies may be requested to participate in meetings of the Council concerned with matters of substantial interest to such agency.

DETERMINATION

I hereby approve and adopt this Charter which is determined to be consistent with PL 94-282 which establishes the FCCSET.

Approved:

D. Allan Bromley .
Chairman, Federal Coordinating
Council for Science, Engineering
and Technology

Date

FEDERAL COORDINATING COUNCIL
FOR SCIENCE, ENGINEERING AND TECHNOLOGY

SUGGESTED COMMITTEE STRUCTURE
WITH CROSS-CUTTING/SUBSIDIARY ISSUES

Committees:

Health and Life Sciences

Physical, Mathematical and Engineering Sciences

Earth and Environmental Sciences

Food Agriculture and Forestry Research*

Education and Human Resources

Technology and Industry

International Science, Engineering and Technology

Sample Cross-cutting/Subsidiary Issues:

Bioethics

Biotechnology

Global Change

High Performance Computing

Human Genome Research

Intellectual Property Rights

Manufacturing

Materials

Math and Science Education

S&T Initiatives in Eastern Europe

S&T Information Collection, Utilization and Dissemination

Social and Behavioral Sciences

Technology Transfer

*Established by PL 94-282; legislative relief required if
abolished or merged

- February 6, 1990

DRAFT
SAMPLE FCCSET COMMITTEE CHARTER

The Committee on _____ is hereby established by action of the Federal Coordinating Council for Science, Engineering, and Technology (FCCSET). FCCSET derives its authority from PL 94-282.

Purpose

The purpose of the Committee on _____ is to increase the overall effectiveness and productivity of Federal R&D efforts in [fields related to the committee's jurisdiction]. The Committee will address significant national policy matters which cut across agency boundaries and shall provide a formal mechanism for interagency science policy coordination and exchanges of information regarding the scientific aspects of [field of jurisdiction].

Functions

The Committee on _____ will:

- o review national and international Federal R&D programs, including budgets, in [the field of committee jurisdiction];
- o facilitate planning, coordination, and communication among Federal agencies engaged in [the field of committee jurisdiction];
- o identify and define Federal R&D needs in [the field of committee jurisdiction];
- o develop and update long-range plans, including funding levels, for overall Federal R&D efforts in [the field of committee jurisdiction];
- o address specific programmatic and operational issues and problems which affect two or more Federal agencies;
- o provide reviews, analyses, advice, and recommendations to the FCCSET on Federal policies and programs concerned with [the field of committee jurisdiction].

Structure

The Chairman of the Committee on _____ is appointed by the Chairman of the FCCSET.

Responsibilities of the Chairman:

- o hold regular meetings of the Committee (no fewer than six per year) and approve agendas;
- o submit an annual report to the Chairman of the FCCSET for review by the full Council;
- o approve the establishment, continuation or termination of subcommittees, task forces and working groups as necessary to achieve the Committee's purpose;
- o meet regularly (bimonthly) with the Chairman of the FCCSET and other Committee chairmen to evaluate progress, discuss policy coordination, receive new instructions from the FCCSET and report on ongoing activities.

The following departments and agencies are represented on this Committee at the Assistant Secretary level or above:

[All FCCSET members and any other agency or department not on the FCCSET but with S&T activities in the committee's field of jurisdiction].

Membership on subcommittees, task forces, and working groups is not restricted to Committee members and is established as the Committee Chairman may determine appropriate.

Committee activities will be coordinated by an Executive Secretary, designated by the Committee Chairman. Additional staff and funding assistance, consistent with the functions of this charter, will be provided by member agencies as required by the Committee chairman.

Private Sector Interface

The Committee will recommend to the Chairman of the FCCSET the nature of private sector advice needed to accomplish its mission. The Chairman of the FCCSET will take necessary steps to ensure appropriate interaction between the President's Council of Advisors on Science and Technology (PCAST) and the Committee. The Committee may also seek ad hoc advice from various private sector groups as consistent with the Federal Advisory Act.

Compensation

All members are full-time Federal employees who are allowed reimbursement for travel expenses by their agencies plus per diem or subsistence while away from their duty stations and in accordance with standard government travel regulations.

Documentation

Agendas and records of actions of Committee meetings are prepared and disseminated to members by the Executive Secretary. Records of actions are submitted to members for approval. Complete records of all Committee activities, including those of task forces and working groups, are maintained in the office of the Chairman. The Committee prepares a report for the Chairman of the FCCSET not later than 60 days after the end of each fiscal year. The report contains, as a minimum, the Committee's functions; a list of members; a list of subcommittees, task forces and working groups and their charters; the dates, places and agendas for all meetings; and a summary of the Committee's activities and recommendations during the year.

Termination Date

Unless renewed by the Chairman of FCCSET prior to its expiration, the Committee on _____ shall terminate not later than March 31, 1991.

Determination

I hereby determine that the formation of the Committee on _____ is in the public interest in connection with the performance of duties imposed on the Executive Branch by law and that such duties can best be performed through the advice and counsel of such a group.

Approved:

Chairman, FCCSET

Date

MEMBERSHIP LIST
FEDERAL COORDINATING COUNCIL
FOR SCIENCE, ENGINEERING AND TECHNOLOGY

Chairman

The Honorable D. Allan Bromley
Assistant to the President
for Science and Technology
and Director
Office of Science and Technology Policy
358 Old Executive Office Building
Washington, D.C. 20506

Members

The Honorable Manuel Lujan, Jr.
Secretary of the Interior
18th and C Streets, N.W.
Washington, D.C. 20240

The Honorable Clayton Yeutter
Secretary of Agriculture
12th Street and Jefferson Drive, S.W.
Washington, D.C. 20250

The Honorable Louis W. Sullivan
Secretary of Health and Human Services
200 Independence Avenue, S.W.
Washington, D.C. 20585

The Honorable Jack Kemp
Secretary of Housing and Urban Development
451 7th Street, S.W.
Washington, D.C. 20410

The Honorable James D. Watkins
Secretary of Energy
1000 Independence Avenue, S.W.
Washington, D.C. 20585

The Honorable Donald J. Atwood, Jr.
Deputy Secretary of Defense
The Pentagon
Washington, D.C. 20301

The Honorable William K. Reilly
Administrator
Environmental Protection Agency
401 M Street, S.W.
Washington, D.C. 20460

The Honorable Richard H. Truly
Administrator
National Aeronautics and Space Administration
400 Maryland Avenue, S.W.
Washington, D.C. 20546

The Honorable Erich Bloch
Director
National Science Foundation
1800 G Street, N.W.
Washington, D.C. 20550

The Honorable Thomas J. Murrin
Deputy Secretary
Department of Commerce
14th and Constitution Avenue, N.W.
Washington, D.C. 20230

The Honorable Elaine Chao
Deputy Secretary
Department of Transportation
400 7th Street, S.W.
Washington, D.C. 20590

The Honorable Anthony J. Principi
Deputy Secretary
Department of Veterans Affairs
810 Vermont Avenue, N.W.
Washington, D.C. 20420

The Honorable Richard T. McCormack
Under Secretary for Economic Affairs
Department of State
2201 C Street, N.W.
Washington, D.C. 20520

Non-statutory Members

The Honorable Elizabeth Dole
Secretary of Labor
200 Constitution Avenue, N.W.
Washington, D.C. 20210

The Honorable Lauro F. Cavazos
Secretary of Education
400 Maryland Avenue, S.W.
Washington, D.C. 20202

Attendees
FCCSET Meeting
Wednesday, January 24, 1990

<u>Agency</u>	<u>Principal</u>	<u>Staff</u>
<u>HHS</u>	Louis W. Sullivan	Dr. William E. Bennett Special Assistant to Secretary Sullivan Dr. William F. Raub Acting Director, NIH
<u>DOE</u>	James D. Watkins	Dr. James F. Decker Acting Director Office of Energy Research
<u>DOEd</u>	Lauro F. Cavazos	John T. (Ted) Sanders Under Secretary
<u>EPA</u>	William K. Reilly	Erich Bretthauer (Acting) Assistant Administrator for R&D
<u>DOC</u>	Thomas J. Murrin	Deborah Wince-Smith Assistant Secretary for Technology Policy
<u>VA</u>	Anthony J. Principi	Richard J. Greene, M.D. Assistant Chief Medical Director for R&D
<u>NASA</u>	Richard H. Truly	Kenneth S. Pedersen Associate Administrator for External Relations
<u>NSF</u>	Erich Bloch	Dr. Luther Williams Senior Science Adviser
<u>DOS</u>	Richard T. McCormack	Frederick M. Bernthal Assistant Secretary OES

<u>DOD</u>	George P. Millburn	Craig I. Fields Director, DARPA
<u>DOA</u>	Charles E. Hess	
<u>HUD</u>		
<u>DOI</u>	Dallas L. Peck	Dr. Harlan L. Watson Science Adviser to the Secretary of the Interior
<u>DOL</u>	Jennifer Dorn Assistant Secretary for Policy	Mr. Gary Reed Office Director, Office of Program Economics
<u>DOT</u>	Travis P. Dungan Administrator Research and Special Programs Administration	Joseph Canny Deputy Assistant Secretary for Policy
<u>OMB</u>	Robert Grady	
<u>NSC</u>	Eric D.K. Melby Director for International Economic Affairs	
<u>DPC</u>	Ken Yale Executive Secretary, DPC	
<u>OSTP</u>	Dr. J. Thomas Ratchford, Associate Director for Policy and International Affairs Dr. Karl A. Erb, Assistant Director for Physical Sciences and Engineering Ms. Sara Bowden Dr. Mary Harley Kruter Ms. Rachel Levinson	

THE WHITE HOUSE

WASHINGTON

February 5, 1990

MEMORANDUM FOR D. ALLAN BROMLEY

FROM:

DAVID Q. BATES 

SUBJECT:

Federal Coordinating Council on Science,
Engineering and Technology

Thank you for including us in the development of your Federal Coordinating Council on Science, Engineering and Technology (FCCSET). I am responding to the request for comments on the FCCSET structure. You may contact Ken Yale for more specific comments and recommendations.

We would like to work closely with you as your FCCSET committees get up and running. The scientific expertise which your Committee on Earth Sciences brings to the DPC Global Change Working Group has been very beneficial. There is much value in assembling scientific staff from the agencies to investigate the underpinnings of the issues faced by the Administration.

My staff and I look forward to working with you as your FCCSET Committees develop. Our Cabinet Counsels and associated working groups are at your service. You may find them a valuable resource as the FCCSET Committees develop reports and background papers.

As the "primary channels to advise the President on policy" -- and without agency, statutory or advisory status -- both the DPC and EPC are fully protected by executive privilege. As a result, they are not subject to many of the statutory restrictions that make it difficult for political appointees to have a full and frank discussion.★ Thus, you may want to consider close coordination with the DPC and EPC in order to develop a process for full and adequate vetting of issues that are Presidential in nature or require Presidential or Cabinet attention or decisions.

Again, I thank you for allowing us to participate. Should you have any questions, do feel free to contact myself, or the Executive Secretaries of the Councils: Lehmann Li and Ken Yale.

★ I hope, too, that we can
cut down on voluntary disclosures!

THE WHITE HOUSE

WASHINGTON

MEMORANDUM FOR DAVID Q. BATES

FROM: D. ALLAN BROMLEY

SUBJECT: FEDERAL COORDINATING COUNCIL FOR SCIENCE,
ENGINEERING AND TECHNOLOGY

Your memorandum of February 5, 1990 concerning the structure and operations of the Federal Coordinating Council for Science, Engineering and Technology (FCCSET) is greatly appreciated. Ken Yale's participation in the first FCCSET meeting on January 24, and his subsequent conversations with Tom Ratchford on a variety of issues related to FCCSET have also been immensely helpful. Clearly, it will be a significant challenge to develop and coordinate truly national research programs from various components in several agencies. However, the success of the FCCSET Committee on Earth Sciences in the area of global change does, I believe, point the way for other areas of research and development.

Although the primary responsibility of the FCCSET is to coordinate R&D among the federal agencies, and the overwhelming fraction of the efforts of its committees will be directed toward accomplishment of this mainly technical task, the FCCSET should play a constructive policy role with respect to the Cabinet Councils. Below are some preliminary thoughts on how this might be structured; I would be pleased to discuss the issue with you in more detail, at your convenience.

The major policy role of FCCSET would be to provide expertise and analyses to the DPC, EPC, NSC, as well as the Space and Competitiveness Councils. Typically the issues would be very broad, with science and technology playing an important but subsidiary role. In many - perhaps most - cases, the FCCSET could be tasked by the appropriate council to provide analysis of a particular issue. In some cases, alternative options might be analyzed by the appropriate FCCSET committee, in response to specific requests by a council. In other cases - probably not very many - a broad issue with mainly scientific and technological content might evolve to the point of deserving consideration by a council.

What we need are effective ways for the councils to identify policy issues to be sent to the FCCSET. With some thought and planning, I believe this can be done in an operationally satisfactory manner.

Somewhat easier to conceptualize, is the process by which policy issues might originate in FCCSET and be fed into the appropriate council. As FCCSET chairman, and a member of EPC and DPC, it would be my responsibility to propose these council agenda items.

The above discussion has focussed on what I call science and technology for policy: i.e., making sure that the best science and technology (from the FCCSET) is made available in a timely, "user friendly" manner to the policy fora (Cabinet Councils). An example of this is the input of the FCCSET Committee on Earth Sciences to the DPC Climate Change Working Group.

In addition to science and technology for policy, there is also a need, in some cases, to provide policy for science and technology. This class of issues typically is not important enough - on the national scale - to earn attention from a Cabinet Council, and could be resolved directly by the FCCSET. An example of this class of issues is the setting of priority among and within areas of basic research.

I am convinced that FCCSET, properly organized and functioning smoothly, will make a significant difference in the coordination and priority setting within federal science and technology programs. This is the primary responsibility of OSTP and of FCCSET as set forth in our founding legislation. FCCSET can also be a useful adjunct to the primary policy fora, and we look forward to working with you to see that this is done in the most effective manner possible.

JTPATCHFORD:vmm:2/16/90

THE WHITE HOUSE

WASHINGTON

June 13, 1990

MEMORANDUM FOR BOYDEN C. GRAY

FROM: D. ALLAN BROMLEY



SUBJECT: GASOHOL

Recently Sol Buchsbaum, who is a member of the President's Council of Advisors on Science and Technology sent me a copy of a 1980 study on the gasohol question prepared by a panel which Buchsbaum chaired.

Knowing of your interest in this subject I am enclosing herewith a copy of that document in case you had not seen it and am wondering whether you know of more recent studies that might have reached different conclusions. If so, I would appreciate learning of the appropriate references.

Enclosure

EXECUTIVE OFFICE OF THE PRESIDENT
OFFICE OF SCIENCE AND TECHNOLOGY POLICY
WASHINGTON, D.C. 20506

August 16, 1990

MEMORANDUM FOR THE SECRETARY OF ENERGY

FROM: D. ALLAN BROMLEY *Alan*
SUBJECT: FINAL DRAFT VERSION OF FCCSET COMMITTEE
CHARTERS, MEMBERSHIPS AND PROPOSED ACTIVITIES

As we agreed during our July 31, 1990 Council meeting I am forwarding for your review the final draft versions of the FCCSET Committee Charters, Membership Lists, and Proposed Activities.

It would be most helpful if you would forward your comments and analyses to my office by September 14. This will allow time for appropriate revisions and discussions as well as to position the Committees to commence activity in the Fall with the necessary direction and guidance from the Council. After accommodating your comments, I will sign the Committee Charters.

Thank you very much for your enthusiastic support for and continued participation in FCCSET.

Attachments

THE WHITE HOUSE

WASHINGTON

January 4, 1990

Dear Jim:

Many thanks for your letter of December 12 with which you forward a copy of the report, prepared at your request, assessing the impact of current and proposed limitations on CFCs and halons.

I recognize fully the sort of difficulties that the study team encountered in attempting unsuccessfully to obtain a consensus. I agree with you that this would appear to be the kind of interagency question that would fit comfortably within the FCCSET structure, and I would be happy on behalf of FCCSET to agree to take on the responsibility of addressing this question.

In a separate letter to you, I am outlining some of the changes that I shall propose in the FCCSET structure in attempting to make it a more active and effective body. You will see that the new structure is one into which this kind of question will fit comfortably.

I applaud your initiative in trying to obtain a realistic evaluation of the impact of the current and proposed CFC limitations and, as you know, I hope that through the DPC Working Group on Global Climate Change we can do something of the same sort on the general question of greenhouse emissions.

I believe that the meeting that I have called for 3:30 p.m. on January 24, in the Roosevelt Room, where the restructuring and revitalizing of FCCSET will be the agenda item, is a very important one, and I very much appreciate your willingness to participate in it.

I hope that the meeting in Hawaii was a great success and, again, very much regret that I was unable to join you for it. I would be delighted to help in any way I can in any subsequent meetings that you may plan relating to the scientific and technological components of your national energy plan.

With warmest best wishes for the new year,

Sincerely yours,

A handwritten signature in dark ink, appearing to read "D. Allan Bromley".

D. Allan Bromley
Assistant to the President
for
Science and Technology

The Honorable James D. Watkins
The Secretary of Energy
1000 Independence Avenue, S.W.
Washington, D.C. 20585

"CORRESPONDENCE TRACKING"

TYPE: Action Item

DOCUMENT NUMBER: 8920755

FROM: JAMES D. WATKINS
SECRETARY OF ENERGY

TO: BROMLEY

DATE OF
CORRESPONDENCE: 12/12/89

SUBJECT: WRITING IN CONCERN ABOUT VARIOUS ISSUES TO DO WITH
CFC'S AND THEIR REGULATION.

ASSIGNED TO: Nancy Maynard

ACTION REQUIRED: APPROPRIATE RESPONSE®

SENDER'S DUE DATE: OSTP DUE DATE: 12/29/89

DATE COMPLETED: -----

COPIES TO: D. Allan Bromley
Judy Bostock

REMARKS:

DATE RECEIVED: 12/20/89

FILE: NEOB



The Secretary of Energy
Washington, DC 20585

December 12, 1989

Dr. D. Allan Bromley
Director
Office of Science and Technology Policy
New Executive Office Building
Washington, D.C. 20503

Dear Dr. ^{Allan} Bromley:

The U.S. Department of Energy (DOE) has a strong interest in the Nation's policies that limit the availability of chlorofluorocarbons (CFCs) and halons. The Montreal Protocol, developed under the auspices of the United Nations Environment Programme (UNEP) and signed by the United States, has limited the production and consumption of these compounds. The President supports the ~~acceleration~~ of the phaseout of these compounds, a subject to be considered at a UNEP meeting next spring.

The Department's interest stems from the impact of the limitations on the Nation's energy use. About half of the CFCs are used for energy-related purposes - as refrigerants for air conditioning and refrigeration equipment, including mobile air conditioners, and as a foaming agent for insulation. In order to fulfill the President's objectives, we are redirecting our research and development toward energy-efficient, non-CFC products, often in collaboration with the affected industries. We also are acting to manage our halon inventory to eliminate waste and still provide fire protection for our facilities.

Last spring I asked that a report be prepared for me that assesses the impact of the current and proposed limitations on CFCs and halons. A copy is enclosed.

The report draws on technology assessments of the major end uses. In a supporting effort, the Energy Information Administration undertook an analysis of the economic and energy impacts of the Protocol and proposed changes. We conducted meetings with representatives from the affected industries and environmental organizations. The effort was guided by a steering committee composed of representatives from DOE offices and from the Office of Management and Budget, the Environmental Protection Agency, and Department of Commerce. The study team did not obtain a consensus. The EPA participants generally were more optimistic than DOE about the ability to phase out CFCs and halons rapidly with negligible economic and energy penalties. They thought DOE's efforts should be focused on research and development, on alternatives, and on housekeeping matters and did not support the broad range of recommendations contained in the report (pp. 55-58).

The Office of Science and Technology Policy could play an important and constructive role in developing a National policy position in this area. Therefore, I ask that you take on the role of coordinator of the efforts of all the affected agencies.

The protection of the earth's shield of atmospheric ozone is vitally important. It requires a National effort that draws on the resources of many departments and agencies. I and members of my staff look forward to supporting your leadership in this area.

Sincerely,



James D. Watkins
Admiral, U.S. ~~Navy~~ (Retired)

Enclosure

THE WHITE HOUSE

WASHINGTON

July 6, 1990

Dear Manuel,

I want to thank you for your recent letter of congratulations on FCCSET progress to date. The assistance of the Department of the Interior in achieving that progress is very much appreciated. I am sure your designated representatives to the seven FCCSET committees will be fully responsive to the needs of the committee chairmen.

Sincerely yours,



D. Allan Bromley
Assistant to the President
for
Science and Technology

The Honorable Manuel Lujan, Jr.
Secretary of the Interior
18th and C Streets, N.W.
Washington, D.C. 20240

THE WHITE HOUSE
WASHINGTON

November 13, 1990

MEMORANDUM FOR GOVERNOR SUNUNU

FROM: D. ALLAN BROMLEY 
SUBJECT: MATHEMATICS AND SCIENCE EDUCATION INFRASTRUCTURE
INITIATIVE

A proposal for an Administration initiative is outlined below which is aimed at preserving U.S. leadership in graduate science and engineering education and research, and in using this strong base to upgrade undergraduate mathematics and science education in order to address some very high priorities in K-12 mathematics and science education. Among its aims is the reassertion of Presidential leadership in this crucial area at a time of increasingly aggressive Congressional attention.

Background

Technological progress plays a central role in economic growth. This progress, in turn, depends on a supply of educated professionals in mathematics, science and engineering, and a scientifically and mathematically literate work force. Two recent Bush Administration reports, the February 1990 Economic Report of the President and the September 1990 U.S. Technology Policy emphasize these points. The February 1989 Administration document, Building a Better America, also focuses on the importance of these investments in America's future.

In the United States, our graduate education system in mathematics, science and engineering is, without doubt, the best in the world. It attracts the best students and researchers from all over the world. We must preserve this leadership.

The quality of our undergraduate education in these areas is much more variable than that found in most other countries. We have peaks of excellence and valleys of mediocrity, but on average we are competitive; however, we do need to improve the weaker institutions.

Precollege education in the United States - especially in mathematics and science - is scandalous. International comparisons of educational achievement in these subjects place American students near the bottom compared to other industrialized nations. This must be improved.

The challenge to the nation and the Bush Administration is to fix that part of our educational system that is broken and preserve excellence where it exists.

Precollege education is predominantly a non-Federal government responsibility. The Administration has done an excellent job of developing broad policy and shaping a climate for reform of our K-12 system. The President and the Governors have enunciated National Education Goals, and White House leadership has taken us well along the path toward educational reform that will be necessary for their attainment.

We have also made significant progress in developing a coherent federal approach to mathematics and science education. A committee of the Federal Coordinating Council on Science, Engineering and Technology (FCCSET), chaired by Admiral James Watkins, was asked to review all existing Federal agency-supported programs in the area of mathematics and science education, with the intent of providing greater coordination and efficiency among disparate Federal programs. In the process of doing this interagency cross-cutting evaluation, the Committee has taken the President's and Governors' goals and developed a National Education Priority Framework for the Federal government, with specific strategic objectives and implementation priorities. The highest priorities relate to teacher competence and curriculum and organizational reforms. These priorities have provided a template for an 11-agency Federal program for FY 1992. Admiral Watkins and I - together with agency officials - presented this cross-cutting evaluation to OMB for review during a two-hour hearing on November 1.

Colleges and universities have a clear and apparent role in graduate and undergraduate education. They also influence K-12 education in crucial ways.

The question is how should we position federal support in order to best preserve our lead in graduate education, improve our undergraduate instruction, and assist in fixing our K-12 problems.

OUTLINE OF INITIATIVE

Since the end of the Second World War, the United States has perpetrated a myth that the Federal government supports research in universities but not education at the graduate level. In reality, generations of graduate students in all fields have been supported as research assistants on federal grants and contracts throughout their graduate education program. The initiative that we suggest herein moves us away from that myth ever so slightly. It also provides an opportunity to require from the universities a plan, in return for the support provided by the initiative, outline steps they would take to bring university costs under control as well as to stabilize or reduce tuition costs at the undergraduate and graduate levels.

This initiative complements other efforts of the Administration towards achievement of the National Education Goals. It should be emphasized that the K-12 problem is predominantly a state and local responsibility. At the Federal level, the mathematics and science aspects of the K-12 problem are being addressed by Adm. Watkins' interagency committee, and the interagency FY 1992 initiative is now being reviewed by OMB and the EOP. That initiative would be on a parallel track with this one. Taken together, the two initiatives would constitute a comprehensive Administration mathematics, science and engineering educational and facilities initiative.

GOALS OF INITIATIVE

Graduate Education. We are number one in the world in graduate education in mathematics, science and engineering. Our support structure is fundamentally sound, although we face many tough decisions on individual programs and projects. However, the research universities have deferred building and renovating facilities for a decade. According to a new NSF study, we have accumulated a facilities backlog of approximately \$12 billion.

- o **Goal: retain our position of world leadership in graduate education in science, mathematics and engineering.**

Excellence in graduate education in mathematics and science is not enough if our nation is to be a world leader in the 21st century. For example, about half of our doctorates in engineering and physics are now granted to foreign citizens. Clearly, there are failures in our undergraduate and K-12 education programs.

Undergraduate Education. Almost 50% of American freshman enter a college or university within 50 miles of their homes. Thus, to provide a quality education, there is a need for excellent undergraduate institutions in all parts of the country. In science and engineering this means providing modest research support, such as that found in the highly successful EPSCoR (Experimental Program to Stimulate Competitive Research) Program. Without at least a modest base of high-quality research, teaching falters. At the same time, it should be emphasized that there is no reason whatever to support less than excellent research anywhere -- such research neither contributes to teaching nor to regional economic development.

Education at the undergraduate and graduate levels is becoming increasingly expensive. Concern has been expressed about the accessibility of college and university education. This initiative could address the cost issue by making receipt of program funds conditional on bringing overhead and tuition costs under control. This could also be structured to be consistent with the Administration's developing Empowerment policies.

- o **Goal: Make quality undergraduate education in mathematics, science and engineering available to students in all parts of the country.**

K-12 Education. A necessary condition for attaining the National Education Goals as they relate to mathematics and science is a talented teacher corps, well-prepared in the subject matter of their disciplines. Admiral Watkins' committee has placed its highest priority on teacher education and improvement. This is particularly important at the high school level.

Adequate training and retraining of our mathematics and science teachers is no small task. For it to be effective, reforms are needed in our teacher education, involving broader participation by senior professors in our universities and a normal preparatory path for teachers that includes undergraduate majors in subjects other than education. There is an opportunity for the federal government to catalyze this reform.

- o **Goal: Reorient college and university curricula and teaching so as to provide the best education possible for mathematics and science teachers, especially at the high school level.**

Major elements of the Initiative:

- o Upgrade university and college research facilities; studies indicate that the total accumulated shortfall may be as high as \$12 billion for both renovation and new construction. Our emphasis should be on renovation, to make available modern research facilities that are competitive with those in industry and in our leading competitor foreign nations. An emphasis on renovation (as contrasted to new construction) is especially important in this period of limited resources because it provides improved quality for the research environment of existing researchers without demanding their numbers increase.
- o Strengthen college and university teaching and related research in order to provide high-quality undergraduate opportunities for mathematics, science and engineering students in all parts of the country.
- o Support college and university efforts to reform K-12 teacher education and retraining. This implies upgraded teacher education programs, greater participation by senior professors, and substantial increases in the number of subject matter majors in mathematics and science.
- o Require universities to develop a management plan in the long run to evolve economic self-sufficiency to control costs, and stabilize or reduce tuition costs.

Characteristics:

- o 5-year program; no extension contemplated since once completed universities and colleges should be expected to manage their activities so that use and amortization fees paid as part of federal overhead payments would enable them to maintain their infrastructure at an acceptable quality level for the indefinite future.

- o \$1 - 1.4 billion/year Federal funding (average);
 - \$750M - \$1B/year for facilities
 - \$200 - 300M/year for targeted research in support of educational and economic development objectives
 - \$50 - 100M/year for teacher education reform
- o At least 50-50 non-federal matching for facilities to help insure high-quality activities.
- o Begin in FY 1992.

Interagency effort:

- o Policy and goals enunciated by the President.
- o Strategy and priorities developed by the technical agencies.
- o Interagency funding, management and coordination.

Budget Offsets:

- o End specific earmarkings of research and development funds by Congress (Congressional directed, "pork" projects); this would require agreement by Congressional leadership, including Appropriations Committees. These total a few hundred million dollars per year (a careful inventory is being prepared by OSTP) and could be directed to this initiative.
- o Shift in schedules/timing for some large projects in science. Specifics could be developed during the FY 1992 budget review.
- o Optimize the balance in current R&D programs between research, education and facilities funding. The overall effects on funding of research by individual investigators and small groups should be positive or, at worst, zero.

Homework to be Done:

- o Identify and characterize present congressional earmarks.
- o Identify and characterize current programs that support excellence in college and university mathematics and science teaching and related research; this would include EPSCoR and similar programs.
- o Review recommended and actual reforms under way in K-12 teacher education and retraining, and identify ways to leverage desirable reforms through modest federal support. Sources would include PCAST, NRC Biology Education Report and Carnegie Commission education effort.

Details of facilities program:

A 5-year program to support merit reviewed renovation and, where appropriate, construction projects as a component of the Federal support of U.S. research universities and colleges. Among the requirements of the program would be the following:

- a. 50/50 non-federal matching.
- b. a university commitment that user fees for buildings and amortization fees for equipment be sequestered for use exclusively in infrastructure and equipment purchase areas rather than as, at present, being added to general fund accounts.
- c. a Federal change in the building and equipment amortization schedules from 50 and 15 years to 20 and 5 years respectively to provide an adequate cash flow so that, following the catch-up enabled by this initiative, they could and should be expected to be self-sustaining with respect to infrastructure.
- d. a requirement that universities in applying to this initiative pledge to forego acquisition of facilities funding through pork channels.
- e. a commitment by universities and colleges that they manage their bureaucracies such that their overhead rates on federal grants and contracts be returned to, and stabilized at their 1985 levels.
- f. a commitment by universities and colleges that they take measures to stabilize, and where possible, reduce tuition costs to, or below, their 1990 levels.

OPTIONS

Three elements of a mathematics and science education infrastructure initiative are outlined above. They are:

- a. 5-year facilities renovation and construction program.
- b. Program to strengthen university and college teaching and related research on a widely distributed geographic basis.
- c. Program to support college and university efforts to reform K-12 teacher education and training in mathematics and science.

Although there is a certain amount of positive interaction between the three elements of the initiative as presented, they could be supported selectively, that is one element only or any two elements taken together. Thus, options include:

1. 5-year facilities program only
\$800 - \$1B/year
2. 10-year facilities program only
\$400 - \$500B/year
3. Program to strengthen university and college teaching and related research
\$200 - \$300M/year
4. Program for college and university efforts to reform K-12 teacher education
\$50 - 100M/year
5. 1 + 3 + 4 above
\$1 - 1.4B/year
6. 2 + 3 + 4 above
\$650 - 900M/year
7. 2 + 3 above
\$250 - 400M/year

IMPLEMENTATION

If this initiative, in any of its variants meets with approval, the State of the Union message would be a very effective vehicle for its announcement.

HARVARD UNIVERSITY

SCIENCE, TECHNOLOGY AND PUBLIC POLICY PROGRAM

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-3261

Mr. Thomas Ratchford
Office of Science and Technology Policy
Executive Office of the President
Washington DC, 20506

Dear Tom,

In 1986 I chaired a task force for the Carnegie Corporation Forum on Education and the Economy which produced a report *A Nation Prepared: Teachers for the Twenty-first Century*, (published by Carnegie Corp. of New York in May 1986. This report mapped out seven interrelated recommendations for K - 12 school reform. It was widely acclaimed and was unanimously adopted in August 86 by the National Governor's Association as their blueprint for school reform. I will ask David Robinson to send you a copy of our report, if they still exist.

One recommendation was that states should abandon the baccalaureate degree in education; instead schools of education should support an education minor for arts and sciences disciplinary majors.¹

Upon graduation these students might be ready, or close to ready, to be state certified as teachers. Arts and Science graduates who did not take the education minor would, on graduation, take a "clinical" master of arts in teaching degree, which would be taught by a collaboration of Master Teachers in middle and high schools and faculty of schools of education in the university.

A number of states have moved in this direction, stimulated in part by the strong movement (also recommended in our 1986 report) in the states toward "alternative paths" to teacher certification for any college graduate who wants to enter teaching in mid-career.

There were three strong reasons for this recommendation:

¹ Elementary school teachers might be an exception, since they are normally expected to take extensive training in early childhood development and related material.

(a) Teachers preparing students for post-high school study should themselves be university graduates in mainstream disciplines.

(b) Teachers need stronger subject matter mastery than most education majors receive.

(c) Teaching might attract students with higher levels of academic standing than is typical of education majors, who statistically come from lower levels of graduating high school classes, drawing in students who entered college without a prior decision for teaching as a career.

Last year Vanderbilt University, which has one of the strongest schools of education (Peabody School of Education) in the nation, adjusted its curriculum so that all of the undergraduate disciplinary majors had enough room for electives supplied by the Peabody School that any BA or BS graduate in arts or sciences could receive a Tennessee certificate to teach upon graduation.

Joe B. Wyatt, Vanderbilt's Chancellor, addressed his faculty in September of this year and urged them to urge their student advisees to take advantage of this opportunity to **preserve the option of a teaching career** on graduation. This excited my interest for the following reasons:

(a) Consistent with the recommendation of our 1986 task force, it provides a 4 year path for the excellent Vanderbilt students (Vanderbilt is very selective) to enter teaching. If the students respond in any numbers the injection of such able students into schools will begin to have a big effect.²

(b) Students can make the decision to teach their last year, perhaps attracting larger numbers into teaching by allowing them to sample practice teaching before they make an irrevocable commitment.

(c) Students of limited intellectual aspiration who start out to be teachers might find they are gifted in science, math, or other disciplines, might earn fellowships that allow them to go to graduate schools and become scientists, thus helping reverse the decline in U.S. born science and engineering professionals.

² Students are beginning to respond to the public service opportunity in teaching. Harvard University now has 90 undergraduates who have chosen to combine work with Harvard's school of education and their undergraduate major, intending to be teachers.

(d) Students who started out determined to persevere to the PhD might, when facing a \$ 50,000 graduate school debt, decide to teach instead for a few years until their undergraduate loans are paid off, again increasing the flow of math and science students into teaching.

(e) If these conditions increased substantially the number of undergraduate science and math majors (by combining students heading for post-graduate study, teaching certification, or the option to decide on graduation) the math and science faculty would have to address needed improvements in their undergraduate curriculum. More emphasis would be given to student motivation and to a sense of accomplishment in science or math by graduation time. Both future researchers and teachers would benefit from this change.

(f) In the research universities especially, the same faculty that comprises the NSF research grant constituency is responsible for undergraduate instruction too. If NSF found ways to provide resources and incentives for faculty to take both missions with equal seriousness -- the performance of first class research and the education of first class teachers -- we might be able to bring another major national resource to bear on the K-12 science and math education problem. And the nervousness, bordering on alarm, of academic research scientists that the NSF mission in K-12 education draws resources away from individual investigator research grants might be mitigated.

It is for this last reason that I want to explore these ideas with my Carnegie Commission task force and with both NSF and the Department of Education. It is vital that a significant part of our national academic research talent become committed to rapid improvement in our public schools. This is a direct mechanism, through the training of a new generation of first rate teachers.

Yours,

October 19 1990

cc: David Robinson
Chanc. Joe Wyatt
David Hamburg
Jim Rutherford



EXECUTIVE OFFICE OF THE PRESIDENT
OFFICE OF SCIENCE AND TECHNOLOGY POLICY
WASHINGTON, D.C. 20506

OCTOBER 5, 1990

MEMORANDUM FOR J. THOMAS RATCHFORD

FROM: CHARLES DICKENS 

SUBJECT: DISTANCE BETWEEN STUDENT'S HOME AND COLLEGE

One of the questions you asked me to investigate is the oft-repeated statement that one-half of the college and university students attend school within 50 miles of their birthplace. The information that I have been able to find provides the distance between the student's permanent home and the college attended.

The data come from the Cooperative Institutional Research Program (CIRP) directed by Alexander Astin, University of California, Los Angeles. This annual survey of freshmen now includes 575 campuses and 290,000 students each year.

According to CIRP literature, this survey is supposed to be able to produce national normative data profiling the population of first-time, full-time freshmen entering U.S. colleges and universities.

Ellyn Berz of the CIRP staff provided the following data from unpublished tabulations by telephone:

	<u>Percent</u>			
<u>Distance, one way</u>	<u>1988</u>	<u>cum</u>	<u>1989</u>	<u>cum</u>
10 miles or less	18.1		17.2	
11 to 50 miles	26.8	44.9	26.8	44.0
51 to 100 miles	14.7	59.6	15.9	59.9
101 to 500 miles	29.3		29.7	
More than 500 miles	11.2		10.4	
50 miles or less	44.9		44.0	

In terms of trends, Ms. Berz indicated the following:

1. The percentage of students reporting 10 miles or less in 1989 was the lowest figure on record.
2. The percentage of students reporting 11 to 50 miles has been very stable over the survey period, which for this question began in 1969.
3. The percentage of students reporting 51 to 100 miles was 13.1 in 1969.
4. The percentage of students reporting 101 to 500 miles has been very stable over the survey period.
5. The percentage of students reporting more than 500 miles was at its highest point in 1989.