

Originally Processed With FOIA(s):  
2005-0336-F

FOIA Number:  
2005-0336-F

# FOIA MARKER

**This is not a textual record. This is used as an  
administrative marker by the George Bush Presidential  
Library Staff.**

---

**Record Group/Collection:** George H.W. Bush Presidential Records  
**Collection/Office of Origin:** Science and Technology Policy, Office of (OSTP)  
**Series:** Bromley, D. Allan, Files  
**Subseries:** Organization Files - PCAST

---

**OA/ID Number:** 62079  
**Folder ID Number:** 62079-008

---

**Folder Title:**  
President's Council of Advisors for Science and Technology: Meeting - 11/14/91-11/15/91

---

Stack:

Row:

Section:

Shelf:

Position:

**0**

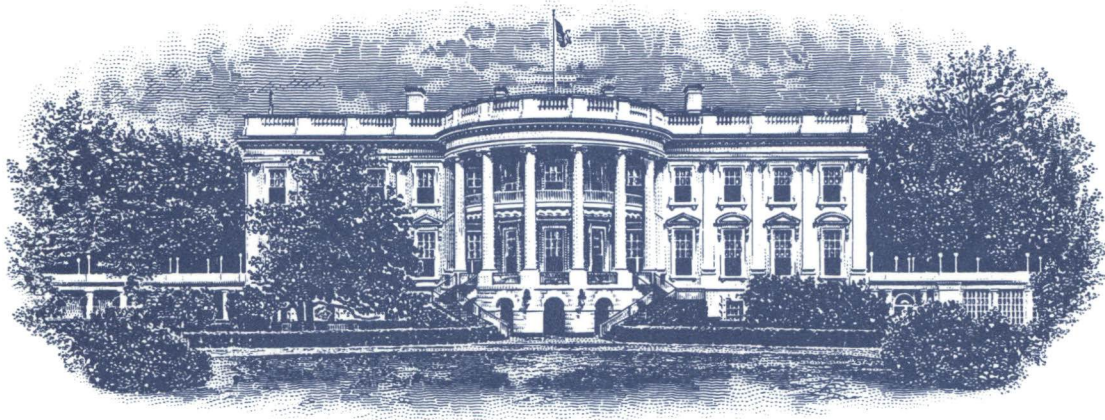
**0**

**0**

**0**

---

**PRESIDENT'S COUNCIL OF ADVISORS  
ON  
SCIENCE AND TECHNOLOGY**



**J. THOMAS RATCHFORD**

**NOVEMBER 14-15, 1991**

**P.J. O'Rourke on Government:**

**"The American political system is like a gigantic Mexican Christmas fiesta. Each political party is a huge piñata -- a papier-mâché donkey, for example. The donkey is filled with full employment, low interest rates, affordable housing, comprehensive medical benefits, a balanced budget, and other goodies. The American voter is blindfolded and given a stick. The voter then swings the stick wildly in every direction, trying to hit a political candidate on the head and knock some sense into the silly bastard."**



---

**MEETING OF THE  
PRESIDENT'S COUNCIL OF ADVISORS  
ON SCIENCE AND TECHNOLOGY**

**NOVEMBER 14-15, 1991**

# TABLE OF CONTENTS

## TAB

|                                                                 |                |
|-----------------------------------------------------------------|----------------|
| AGENDA .....                                                    | A              |
| PRESS PEOPLE INVITED.....                                       | B              |
| PCAST MEMBERS EXPECTED .....                                    | C              |
| DR. BROMLEY'S NOVEMBER 8 MEMORANDUM.....                        | D              |
| PRESIDENT'S PROCLAMATION ON WORLD POPULATION.....               | E              |
| TECHNOLOGY FORECAST BY JAPAN'S<br>ECONOMIC PLANNING AGENCY..... | F              |
| DINNER INFORMATION.....                                         | Rear<br>Pocket |
| PCAST PANEL CALENDAR AND PROGRESS CHART.....                    | G              |
| CALENDAR FOR FUTURE PCAST MEETINGS.....                         | H              |
| BIOGRAPHICAL SKETCHES (Alphabetical Order).....                 | I              |
| Michael Boskin                                                  |                |
| Mary Clutter                                                    |                |
| Admiral Jerimiah                                                |                |
| David Kearns                                                    |                |
| David Kessler                                                   |                |
| Robert Mosbacher                                                |                |

November 13, 1991

**PRESIDENT'S COUNCIL OF ADVISORS  
ON SCIENCE AND TECHNOLOGY**

**NOVEMBER 14-15, 1991  
AGENDA**

**THURSDAY, NOVEMBER 14, 1991**

**OPEN SESSION 9:00 AM - 11:15 AM  
CONFERENCE ROOM  
COUNCIL ON ENVIRONMENTAL QUALITY  
722 JACKSON PLACE, NW**

---

|                      |                                              |                    |
|----------------------|----------------------------------------------|--------------------|
| <b>8:30 - 9:00</b>   | <b>ARRIVAL AND COFFEE</b>                    |                    |
| <b>9:00 - 9:15</b>   | <b>OPENING REMARKS</b>                       | <b>DR. BROMLEY</b> |
| <b>9:15 - 10:00</b>  | <b>BIODIVERSITY</b>                          | <b>DR. CLUTTER</b> |
| <b>10:00 - 10:15</b> | <b>DISCUSSION</b>                            | <b>DR. BROMLEY</b> |
| <b>10:15 - 11:00</b> | <b>MATHEMATICS AND SCIENCE<br/>EDUCATION</b> | <b>MR. KEARNS</b>  |
| <b>11:00 -</b>       | <b>OPEN SESSION CLOSING REMARKS</b>          | <b>DR. BROMLEY</b> |

**(START OF CLOSED SESSION HERE AFTER 15 MINUTE BREAK)**

**THURSDAY, NOVEMBER 14, 1991 Continued...**

**CLOSED SESSION 11:15 AM - 12:00 NOON  
CONFERENCE ROOM  
COUNCIL ON ENVIRONMENTAL QUALITY  
722 JACKSON PLACE, NW**

---

|                      |                                                         |                    |
|----------------------|---------------------------------------------------------|--------------------|
| <b>11:15 - 12:00</b> | <b>S&amp;T AND THE FOOD AND<br/>DRUG ADMINISTRATION</b> | <b>DR. KESSLER</b> |
|----------------------|---------------------------------------------------------|--------------------|

|                     |                                                    |  |
|---------------------|----------------------------------------------------|--|
| <b>12:00 - 1:45</b> | <b>LUNCH (Dr. Bromley's Office, OEOB Room 358)</b> |  |
|---------------------|----------------------------------------------------|--|

---

**CLOSED SESSION - 1:45 PM TO 5:00 PM  
CEA CONFERENCE ROOM  
ROOM 324  
OLD EXECUTIVE OFFICE BUILDING**

---

|                    |                               |                    |
|--------------------|-------------------------------|--------------------|
| <b>1:45 - 2:45</b> | <b>NEW MODES OF OPERATION</b> | <b>DR. BROMLEY</b> |
|--------------------|-------------------------------|--------------------|

|                    |                                                    |                                    |
|--------------------|----------------------------------------------------|------------------------------------|
| <b>2:45 - 3:30</b> | <b>DISCUSSION OF PCAST PANEL PROGRESS</b>          |                                    |
|                    | - Science and Technology and<br>National Security  | <b>DR. HERZFELD</b>                |
|                    | - Global Environment and Natural Resources         | <b>DR. LOVEJOY<br/>DR. BORLAUG</b> |
|                    | - High Performance Computing and<br>Communications | <b>DR. WONG</b>                    |
|                    | - Bioscience and Biotechnology                     | <b>DR. NATHANS<br/>DR. BORLAUG</b> |
|                    | - Education and Human Resources                    | <b>DR. LIKINS<br/>DR. DRAKE</b>    |
|                    | - Megaprojects in the Sciences                     | <b>DR. MCTAGUE</b>                 |
|                    | - International Economic Competitiveness           | <b>DR. GOMORY</b>                  |

|                    |                                                           |                             |
|--------------------|-----------------------------------------------------------|-----------------------------|
| <b>3:30 - 4:15</b> | <b>THE GULF CONFLICT AND<br/>U.S. MILITARY STRATEGY *</b> | <b>ADMIRAL<br/>JERIMIAH</b> |
|--------------------|-----------------------------------------------------------|-----------------------------|

|                    |                                  |                   |
|--------------------|----------------------------------|-------------------|
| <b>4:15 - 4:45</b> | <b>FCCSET PLANS AND PRODUCTS</b> | <b>DR. SUTTON</b> |
|--------------------|----------------------------------|-------------------|

|                    |                                                              |                    |
|--------------------|--------------------------------------------------------------|--------------------|
| <b>4:30 - 5:00</b> | <b>DISCUSSION OF DECEMBER AGENDA<br/>AND CLOSING REMARKS</b> | <b>DR. BROMLEY</b> |
|--------------------|--------------------------------------------------------------|--------------------|

**FRIDAY, NOVEMBER 15, 1991**

**CLOSED SESSION 9:00 AM - 12:00 NOON  
CEA CONFERENCE ROOM  
ROOM 324  
OLD EXECUTIVE OFFICE BUILDING**

---

|               |                                                                     |                        |
|---------------|---------------------------------------------------------------------|------------------------|
| 8:30 - 8:50   | ARRIVAL AND COFFEE<br><u>(DR. BROMLEY'S OFFICE, ROOM 358, OEOB)</u> |                        |
| 8:50 - 9:00   | MOVE TO CEA CONFERENCE ROOM, ROOM 324                               |                        |
| 9:00 - 9:30   | PROSPECTS FOR ECONOMIC GROWTH                                       | MR. BOSKIN             |
| 9:30 - 10:00  | DISCUSSION                                                          | DR. BROMLEY            |
| 10:00 - 10:45 | S&T AND U.S. COMPETITIVENESS *                                      | SECRETARY<br>MOSBACHER |
| 10:45 - 11:30 | DISCUSSION                                                          |                        |
| 11:30 - 12:00 | OTHER BUSINESS<br>AND CLOSING REMARKS                               | DR. BROMLEY            |

\* Tentative

## **PRESS PEOPLE INVITED**

|                                               |                                       |
|-----------------------------------------------|---------------------------------------|
| <b>Wil Lepkowski</b>                          | <b>Chemical and Engineering News</b>  |
| <b>Colleen Cordes</b>                         | <b>Chronicle of Higher Education</b>  |
| <b>Bruce Agnew</b>                            | <b>Journal of NIH Research</b>        |
| <b>Ed Chen</b>                                | <b>Los Angeles Times</b>              |
| <b>Chris Anderson or<br/>Barbara Culliton</b> | <b>Nature</b>                         |
| <b>Chris Joyce</b>                            | <b>New Scientist</b>                  |
| <b>Richard McCormack</b>                      | <b>New Technology Week</b>            |
| <b>Warren Leary</b>                           | <b>New York Times</b>                 |
| <b>Michael Miller</b>                         | <b>Performance Materials Magazine</b> |
| <b>Irwin Goodwin</b>                          | <b>Physics Today</b>                  |
| <b>Dan Greenberg</b>                          | <b>Science and Government Report</b>  |
| <b>Elliot Marshall</b>                        | <b>Science Magazine</b>               |
| <b>Arthur Kranish</b>                         | <b>Science Trends</b>                 |
| <b>Tim Beardsley</b>                          | <b>Scientific American</b>            |
| <b>Jeffrey Mervis</b>                         | <b>The Scientist</b>                  |
| <b>Dick Thompson</b>                          | <b>Time-Warner</b>                    |
| <b>Georgia Persinos</b>                       | <b>Washington Insight</b>             |
| <b>William Booth</b>                          | <b>Washington Post</b>                |

**PRESIDENT'S COUNCIL OF ADVISORS  
ON SCIENCE AND TECHNOLOGY**

*Expected Attendance For November Meeting  
(as of November 8, 1991)*

|           | <u>14th</u>                                       | <u>Dinner</u> | <u>15th</u> |
|-----------|---------------------------------------------------|---------------|-------------|
| BORLAUG   | Yes                                               | Yes           | Yes         |
| BUCHSBAUM | No                                                | No            | No          |
| DRAKE     | Yes                                               | Yes           | Yes         |
| GOMORY    | Yes<br>(Will arrive about 2:00 PM on Thursday)    | Yes           | Yes         |
| GOOD      | Yes<br>(Will arrive about 2:00 PM on Thursday)    | Yes           | Yes         |
| LIKINS    | Yes<br>(Must leave at 3:30 PM on Thursday)        | No            | No          |
| LOVEJOY   | Yes                                               | No            | Yes         |
| McTAGUE   | Yes                                               | Yes           | Yes         |
| MURRIN    | Yes<br>(Will arrive about 12:00 NOON on Thursday) | Yes           | Yes         |
| NATHANS   | Yes                                               | ?             | Yes         |
| PACKARD   | No                                                | No            | No          |
| SHAPIRO   | No                                                | No            | No          |
|           | —                                                 | —             | —           |
| Totals    | 9                                                 | 6             | 8           |

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

November 8, 1991

MEMORANDUM FOR THE PRESIDENT'S COUNCIL OF ADVISORS ON SCIENCE  
AND TECHNOLOGY

FROM:

D. ALLAN BROMLEY *DB*

SUBJECT:

New Modes of Operation For PCAST

Based on discussions with many of you, I am convinced we need to consider new modes of operation for PCAST. In particular, I believe PCAST needs to consider new ways of providing advice to the President. In other words, we should move away from the brief dialogues and memoranda we used in the past and focus on developing concrete, "hard-copy" reports with succinct advice and policy options. I have in mind something similar to the reports produced by the former White House Science Council.

In order to accomplish this, we will need to expand our efforts in a deliberate fashion. Part of this expansion will come through greatly increased interaction with the Panel chairmen by the OSTP Associate and Assistant Directors. I believe, however, that further expansion on other levels will be required. For instance, the use of detailed agency staff, or perhaps, a full-time staff person working directly with each Panel chairman.

At our meeting next week, we need to discuss these issues in-depth. I ask that you give substantial thought to the necessary means in order to accomplish these expanded goals. For instance, please give some thought to the type and length of reports that would be appropriate; the number of man-hours of staff support necessary to produce these products; and, any other resources that you believe will be required.

I have set aside time on Thursday afternoon to discuss these issues. Also, I would like to use the Thursday evening dinner, which will be at the White House Mess, to continue our discussions. I am still anxious to hear of the Panel progress to date, but I ask that you keep these reports succinct.

The present environment is presenting PCAST with truly extraordinary opportunities to provide hard-hitting advice and to have it implemented. But, we must capitalize on these opportunities swiftly, as time is of the essence. I very much look forward to our discussion next week.

THE WHITE HOUSE  
Office of the Press Secretary

For Immediate Release

October 25, 1991

WORLD POPULATION AWARENESS WEEK, 1991

- - - - -

BY THE PRESIDENT OF THE UNITED STATES OF AMERICA

A PROCLAMATION

Demographic trends among the world's population, which now surpasses 5.4 billion, cannot be overlooked as a factor when we examine important global issues such as economic development and environmental degradation. That is why we do well to observe World Population Awareness Week.

The United States has long recognized that population growth, in and of itself, is a neutral phenomenon. Indeed, as we stated during the 1984 International Conference on Population, because every human being represents hands to work, and not just "another mouth to feed," population growth may be an asset or a liability depending on such factors as government economic policies, agricultural practices, and a nation's ability to put men and women to work. Rapid population growth is often occurring in those nations where economic stagnation, attributable in large part to the failure to adopt market-oriented policies, makes them less able to cope with economic and environmental challenges. For example, population growth may be viewed as a threat in countries where excessive government controls eliminate incentives for farmers and other workers to produce, where housing and health care facilities do not keep pace, or where precious natural resources are used without regard to future needs. Demographic change can also become problematic when a nation fails to anticipate or to respond to such trends as massive urban migration. However, because people are producers as well as consumers, population growth can also be a sign and a source of strength.

The United States has been a leader in efforts to focus attention on population issues -- particularly in less developed nations where population growth and related demands for land, public services, and other resources have exceeded their availability. At the Houston Economic Summit, the G-7 leaders stated that "In a number of countries, sustainable development requires that population growth remain in some reasonable balance with expanding resources . . . . Improved educational opportunities for women and their greater integration into the economy can make important contributions to population stabilization programs." Currently, the United States, cognizant of the rights and responsibilities of individuals and families and respectful of religious and cultural values, provides nearly half of all international assistance that supports effective, safe, and voluntary family planning programs. This aid is but one part of a comprehensive economic development assistance program. We have also taken a strong position in the global community to address problems such as illiteracy, poverty, and environmental degradation. Indeed, recognizing the need to use precious natural resources wisely, we have worked to promote sustainable development. We have also consistently advocated the political and economic freedom vital to the advancement of individuals and nations.

more

(OVER)

Of course, no nation can achieve acceptable levels of productivity and progress without a healthy population. Thus, the United States will continue to support and to promote programs that are designed to improve maternal and child health. We will continue to support education and disease prevention, as well as programs that target the specific health problems of the poor -- problems that are often aggravated by such factors as poor sanitation and the lack of safe drinking water.

During World Population Awareness Week, we reflect on the importance of every one of these efforts and reaffirm our commitment to them. After all, by promoting the health of individuals and the strength and stability of families, we can enhance the well-being of entire nations.

The Congress, by Senate Joint Resolution 160, has designated the week beginning October 20, 1991, as "World Population Awareness Week" and has authorized and requested the President to issue a proclamation in observance of this week.

NOW, THEREFORE, I, GEORGE BUSH, President of the United States of America, do hereby proclaim the week of October 20 through October 26, 1991, as World Population Awareness Week. I invite all Americans to observe this week with appropriate programs and activities.

IN WITNESS WHEREOF, I have hereunto set my hand this twenty-fifth day of October, in the year of our Lord nineteen hundred and ninety-one, and of the Independence of the United States of America the two hundred and sixteenth.

GEORGE BUSH

# # #

# Withdrawal/Redaction Sheet

## (George Bush Library)

| Document No.<br>and Type | Subject/Title of Document       | Date     | Restriction | Class. |
|--------------------------|---------------------------------|----------|-------------|--------|
| 01. Report               | Science and Technology (34 pp.) | 10/15/91 | (b)(1)      |        |

**Collection:**

**Record Group:** Bush Presidential Records

**Office:** Science and Technology Policy, Office of (OSTP)

**Series:** Bromley, D. Allan, Files

**Subseries:** Organization Files - PCAST

**WHORM Cat.:**

**File Location:** President's Council of Advisors for Science and Technology: Meeting - 11/14/91-11/15/91

|                               |             |                             |           |
|-------------------------------|-------------|-----------------------------|-----------|
| <b>Date Closed:</b>           | 5/17/2010   | <b>OA/ID Number:</b>        | 62079-008 |
| <b>FOIA/SYS Case #:</b>       | 2005-0336-F | <b>Appeal Case #:</b>       |           |
| <b>Re-review Case #:</b>      |             | <b>Appeal Disposition:</b>  |           |
| <b>P-2/P-5 Review Case #:</b> |             | <b>Disposition Date:</b>    |           |
| <b>AR Case #:</b>             |             | <b>MR Case #:</b>           |           |
| <b>AR Disposition:</b>        |             | <b>MR Disposition:</b>      |           |
| <b>AR Disposition Date:</b>   |             | <b>MR Disposition Date:</b> |           |

### RESTRICTION CODES

Presidential Records Act - [44 U.S.C. 2204(a)]

Freedom of Information Act - [5 U.S.C. 552(b)]

P-1 National Security Classified Information [(a)(1) of the PRA]  
P-2 Relating to the appointment to Federal office [(a)(2) of the PRA]  
P-3 Release would violate a Federal statute [(a)(3) of the PRA]  
P-4 Release would disclose trade secrets or confidential commercial or financial information [(a)(4) of the PRA]  
P-5 Release would disclose confidential advice between the President and his advisors, or between such advisors [(a)(5) of the PRA]  
P-6 Release would constitute a clearly unwarranted invasion of personal privacy [(a)(6) of the PRA]

C. Closed in accordance with restrictions contained in donor's deed of gift.

PRM. Removed as a personal record misfile.

(b)(1) National security classified information [(b)(1) of the FOIA]  
(b)(2) Release would disclose internal personnel rules and practices of an agency [(b)(2) of the FOIA]  
(b)(3) Release would violate a Federal statute [(b)(3) of the FOIA]  
(b)(4) Release would disclose trade secrets or confidential or financial information [(b)(4) of the FOIA]  
(b)(6) Release would constitute a clearly unwarranted invasion of personal privacy [(b)(6) of the FOIA]  
(b)(7) Release would disclose information compiled for law enforcement purposes [(b)(7) of the FOIA]  
(b)(8) Release would disclose information concerning the regulation of financial institutions [(b)(8) of the FOIA]  
(b)(9) Release would disclose geological or geophysical information

**THE PRESIDENT'S COUNCIL OF ADVISORS  
ON SCIENCE AND TECHNOLOGY**

*Council and Panel Calendar*

---

**November**

- 14      **President's Council of Advisors on Science and Technology, Open Session - 9:00 AM to 11:00 AM, CEQ Conference Room, 722 Jackson Place. Closed Session - 11:00 AM to 5:00 PM, Location TBA.**
- 15      **President's Council of Advisors on Science and Technology, Closed Session - 9:00 AM to 12:00 NOON, Location TBA.**
- 20      **Panel on Science, Technonology, and National Security, Deliberative session to draft proposed issue paper for discussion by the PCAST.**
- 21      **Panel on International Economic Competitiveness, fact-finding session, 12:00 NOON to 4:00 PM, Old Executive Office Building, Room TBA.**
- 22      **Panel on High Performance Computing and Communications, Closed Session, Old Executive Office Building, 9:00 AM to 5:00 PM, Room 180.**
- Panel on Bioscience and Biotechnology, fact-finding session, 11:00 AM, Old Executive Office Building, Room 476, Old Executive Office Building.**

**December**

- 2      **Panel on Science, Technology and National Security, Closed Session - 9:00 AM - 5:00 PM, Location TBA.**
- 3      **Panel on Science, Technology and National Security, Closed Session - 8:00 AM - 12:00 NOON, Location TBA.**
- 12      **President's Council of Advisors on Science and Technology, Open Session - 9:00 AM to 11:00 AM, CEQ Conference Room, 722 Jackson Place. Closed Session - 11:00 AM to 5:00 PM, Location TBA.**
- 13      **President's Council of Advisors on Science and Technology, Closed Session - 9:00 AM to 12:00 NOON, Location TBA.**

**PCAST PANEL ACTIONS**  
(November 14, 1991)

|                                         | Sol, Ralph                               | Ralph, Harold                             | Dan, Norman                   | Peter, Chuck                      | Sol, Johnny<br>Foster, David         | Tom, David,<br>Norman                | John, Harold                    |
|-----------------------------------------|------------------------------------------|-------------------------------------------|-------------------------------|-----------------------------------|--------------------------------------|--------------------------------------|---------------------------------|
|                                         | High Perfor.<br>Computing<br>& Commun.   | International<br>Economic<br>Competitive. | Bioscience<br>and<br>Biotech. | Education<br>& Human<br>Resources | Technology<br>& National<br>Security | Global<br>Environ. &<br>Natural Res. | Megaprojects<br>in the Sciences |
| Information<br>Briefing on Topic        | MAR '90                                  | MAY '90<br>JUL '90                        | APR '90                       | APR '90                           | FEB '91                              | MAY '90<br>JUL '90<br>FEB '91        | FEB '91                         |
| Issues & Panel<br>Members Discussed     | MAR '90                                  | APR '91                                   | MAY '90<br>MAR '91            | JUL '90<br>SEP '90<br>MAR '91     | FEB '91<br>MAR '91                   | FEB '91                              | FEB '91<br>MAR '91<br>APR '91   |
| Terms of Reference,<br>Members Approved | APR '90                                  | MAY '91                                   | MAY '91                       | MAY '91                           | APR '91                              | MAY '91                              | MAY '91                         |
| Progress<br>Report #1                   | JUL '90                                  | JUL '91                                   | JUL '91                       | JUL '91                           | JUL '91                              | JUL '91                              | JUL '91                         |
| Progress<br>Report #N                   | JUL '91<br>SEP '91<br>OCT '91<br>NOV '91 | SEP '91<br>OCT '91<br>NOV '91             | SEP '91<br>OCT '91<br>NOV '91 | SEP '91<br>OCT '91<br>NOV '91     | SEP '91<br>OCT '91<br>NOV '91        | SEP '91<br>OCT '91<br>NOV '91        | SEP '91<br>OCT '91<br>NOV '91   |
| PCAST Briefed                           |                                          |                                           |                               | SEP '91<br>OCT '91<br>NOV '91     | SEP '91<br>OCT '91<br>NOV '91        |                                      |                                 |
| PCAST Position<br>Taken                 |                                          |                                           |                               |                                   |                                      |                                      |                                 |
| Discuss With<br>President               |                                          |                                           |                               |                                   |                                      |                                      |                                 |
| Status<br>Review                        |                                          |                                           |                               |                                   |                                      |                                      |                                 |

# 1991-1992

## PCAST Meeting Schedule

August 1991

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
|    |    |    |    | 1  | 2  | 3  |
| 4  | 5  | 6  | 7  | 8  | 9  | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 |

August

- 1 8:30am PCAST AUGUST MEETING
- 2 8:30am PCAST AUGUST MEETING

September

- 2 Labor Day
- 12 8:30am PCAST SEPTEMBER MEETING
- 13 8:30am PCAST SEPTEMBER MEETING

October

- 10 8:30am PCAST OCTOBER MEETING
- 11 8:30am PCAST OCTOBER MEETING
- 14 Columbus Day (Observed)
- Thanksgiving Day (Canada)
- 27 Daylight Savings--set back 1 hour
- 31 Halloween

November

- 11 Veterans Day
- 14 8:30am PCAST NOVEMBER MEETING
- 15 8:30am PCAST NOVEMBER MEETING
- 28 Thanksgiving

December

- 12 8:30am PCAST DECEMBER MEETING
- 13 8:30am PCAST DECEMBER MEETING
- 25 Christmas

January

- 1 New Year's Day
- 9 8:30am PCAST JANUARY MEETING
- 10 8:30am PCAST JANUARY MEETING
- 20 Martin Luther King, Jr.

February

- 6 8:30am PCAST FEBRUARY MEETING
- 7 8:30am PCAST FEBRUARY MEETING
- 12 Lincoln's Birthday
- 14 Valentine's Day
- 17 President's Day
- 22 Washington's Birthday

March

- 5 8:30am PCAST MARCH MEETING
- 6 8:30am PCAST MARCH MEETING
- 17 St. Patrick's

April

- 1 April Fools Day
- 2 8:30am PCAST APRIL MEETING
- 3 8:30am PCAST APRIL MEETING
- 5 Daylight Savings--set ahead 1 hour
- 19 Easter

May

- 7 8:30am PCAST MAY MEETING
- 8 8:30am PCAST MAY MEETING
- 10 Mother's Day
- 16 Armed Forces Day
- 25 Memorial Day (Observed)

June

- 4 8:30am PCAST JUNE MEETING
- 5 8:30am PCAST JUNE MEETING
- 14 Flag Day
- 21 Father's Day

July

- 1 Dominion Day (Canada)

February 1992

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
|    |    |    |    |    |    | 1  |
| 2  | 3  | 4  | 5  | 6  | 7  | 8  |
| 9  | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |

March 1992

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
| 1  | 2  | 3  | 4  | 5  | 6  | 7  |
| 8  | 9  | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | 31 |    |    |    |    |

April 1992

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
|    |    |    |    | 1  | 2  | 3  |
| 4  | 5  | 6  | 7  | 8  | 9  | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 |    |

May 1992

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
|    |    |    |    |    |    | 1  |
| 2  | 3  | 4  | 5  | 6  | 7  | 8  |
| 9  | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | 31 |    |    |    |    |    |

June 1992

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
|    |    |    |    | 1  | 2  | 3  |
| 4  | 5  | 6  | 7  | 8  | 9  | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 |    |

July 1992

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
|    |    |    |    | 1  | 2  | 3  |
| 4  | 5  | 6  | 7  | 8  | 9  | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 |

September 1991

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
| 1  | 2  | 3  | 4  | 5  | 6  | 7  |
| 8  | 9  | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 |    |    |    |    |    |

October 1991

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
|    |    |    | 1  | 2  | 3  | 4  |
| 5  | 6  | 7  | 8  | 9  | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | 29 | 30 | 31 |    |

November 1991

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
|    |    |    |    |    |    | 1  |
| 2  | 3  | 4  | 5  | 6  | 7  | 8  |
| 9  | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 |    |    |    |    |    |    |

December 1991

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
| 1  | 2  | 3  | 4  | 5  | 6  | 7  |
| 8  | 9  | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | 31 |    |    |    |    |

January 1992

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
|    |    |    |    | 1  | 2  | 3  |
| 4  | 5  | 6  | 7  | 8  | 9  | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 |

THE CHAIRMAN OF THE  
COUNCIL OF ECONOMIC ADVISERS  
WASHINGTON

Michael J. Boskin  
Chairman  
The President's Council of Economic Advisers

Michael J. Boskin is the Chairman of the President's Council of Economic Advisers. He was appointed to this post by the President on February 2, 1989, following unanimous confirmation by the Senate. As Chairman, he provides economic analysis and advice directly to the President and assists in formulating national economic policies. Dr. Boskin is on leave from Stanford University where he is the Burnet C. and Mildred Finley Wohlford Professor of Economics. He is also on leave as a Research Associate of the National Bureau of Economic Research.

Dr. Boskin is the recipient of numerous professional awards and citations, ranging from the Chancellor's Award and Department Citation as outstanding undergraduate at the University of California in 1967 and the first National Tax Association Outstanding Doctoral Dissertation Award in 1971 to the Abramson Award for Outstanding Research from the National Association of Business Economists in 1987, and Stanford University's Distinguished Teaching Award in 1988. He is the author of more than 80 books and articles in the areas of government spending, tax theory and policy, public debt, Social Security, retirement patterns and behavior, U.S. saving behavior, capital formation, U.S. economic growth, and the economic status of the elderly.

Dr. Boskin received his B.A. degree with highest honors in 1967 from the University of California at Berkeley, where he also received his M.A. in 1968 and his Ph.D in 1971.

Previously, Dr. Boskin had served as a consultant and advisor to the White House, Department of Health and Human Services, Treasury Department, National Science Foundation, and other government agencies, and various Congressional Committees.

Dr. Boskin is a member of the Economic Education Committee of the American Economic Association. He and his wife, Chris, moved to Washington, D.C. from California. They both enjoy tennis and skiing.

September 1989

NATIONAL SCIENCE FOUNDATION  
1800 G STREET, N.W.  
WASHINGTON, D.C. 20550

MARY E. CLUTTER

ASSISTANT DIRECTOR  
FOR BIOLOGICAL, BEHAVIORAL, AND SOCIAL SCIENCES

Dr. Mary E. Clutter is the Assistant Director for Biological, Behavioral, and Social Sciences (BBS), of the National Science Foundation (NSF). As Assistant Director for BBS, she is responsible for six divisions encompassing major areas of research in biology--cellular, molecular, and environmental; the behavioral and neural sciences, including psychology, anthropology, and linguistics; the social sciences, including economics, sociology, and political science; and instrumentation and resources.

Prior to coming to NSF, Dr. Clutter was a member of the Department of Biology at Yale University. She came to NSF in 1976 as Program Director for Developmental Biology and has since served as Section Head for Cellular and Physiological Biosciences, Senior Science Advisor to the Director, and the Director of the Division of Cellular Biosciences.

Dr. Clutter serves on several policy level committees including: the Board of Regents of the National Library of Medicine; Federal Coordinating Council for Science, Engineering, and Technology (FCCSET) Committee on Life Sciences and Health and Committee on Food, Agriculture and Forestry Research of the Office of Science and Technology Policy; Joint Council on Food and Agricultural Sciences; the Army Science Board; and the Board of Trustees of the International Human Frontier Science Program; and also serves as an adviser to the McKnight Foundation, and is a member of the Task Force on Non-Governmental Organizations of the Carnegie Commission on Science, Technology, and Government. She is a member of the following professional societies: American Association for the Advancement of Science (AAAS), American Society for Cell Biology, American Society of Plant Physiologists, Association for Women in Science, International Society for Plant Molecular Biology, Sigma Xi, Society for Developmental Biology, and the Corporation of the Marine Biological Laboratory at Woods Hole. In 1981 she was elected as a AAAS Fellow and has served on the Board of Directors.

Dr. Clutter received a Bachelor of Science degree in biology from Allegheny College and her masters and doctoral degrees in botany from the University of Pittsburgh. She received a Presidential Rank Award in 1985, a D. Sc. Honoris Causa from Allegheny College in 1986, and the Bicentennial Medallion of Distinction from the University of Pittsburgh in 1987.

November 1991



## Admiral David E. Jeremiah Vice Chairman, Joint Chiefs of Staff

Admiral David E. Jeremiah is the Vice Chairman of the Joint Chiefs of Staff. In this capacity, he serves as the Nation's second highest ranking military officer.

He was born on February 25, 1934, and is a native of Portland, Oregon. He graduated from the University of Oregon in 1955 and received his commission through Officer Candidate School in 1956.

Admiral Jeremiah served on seven Pacific Fleet destroyers, including command of the USS Preble (DDG 46). He commanded Destroyer Squadron 24 from September 1979 until October 1980.

While serving as Commander, Cruiser-Destroyer Group Eight, from August 1984 until April 1986, he commanded Task Force 60 in the Mediterranean and directed the capture of the Egyptian airliner carrying the hijackers of the Italian cruise ship Achille Lauro. He also directed actions resulting in the sinking of two Libyan warships and the destruction of an anti-air missile site during freedom of navigation operations in the Gulf of Sidra between January and March 1986.

His early shore assignments included two tours in the Office of the Chief of Naval Operations and a tour in the Office of the Assistant Secretary of Defense for Program Analysis and Evaluation. After serving as Executive Assistant to the Commander in Chief, U.S. Pacific Fleet, from October 1980 until May 1982, he was reassigned to Washington, D.C., and served as Executive Assistant to the Chief of Naval Operations until July 1984. In June 1986, he assumed duties as Director, Navy Program Planning and was promoted to Vice Admiral on July 1, 1986.

Admiral Jeremiah received his fourth star in September 1987 and became the 23rd Commander in Chief, U.S. Pacific Fleet, that same month. He was appointed by the President as the second individual to be named the Vice Chairman of the Joint Chiefs of Staff, assuming that position on March 1, 1990.

Admiral Jeremiah has a Master of Science degree in Financial Management from George Washington University. He attended the Armed Forces Staff



College from July 1970 until January 1971, followed by four months as a student at the Harvard Business School's Professional Management Development Course.

His Navy awards include the Distinguished Service Medal with three gold stars, Legion of Merit with gold star, Meritorious Service Medal with gold star, and Achievement Medal with combat "V." In July 1991, President Bush awarded him the Presidential Citizens Medal for significant contributions during the Persian Gulf crisis and the successful liberation of Kuwait. He also has various foreign awards, unit commendations and campaign ribbons.

Admiral Jeremiah is married to the former Connie Jo Beem of University City, Missouri. They have two daughters: Krista and Jodi.

## DAVID T. KEARNS

David T. Kearns is Deputy Secretary of Education. He was nominated by President Bush on April 23, 1991, and unanimously confirmed by the U.S. Senate on May 22, 1991.

The Deputy Secretary advises the Secretary of Education on all major program and management issues. As the agency's second-highest official, he oversees the daily operations of the Education Department and its 4,500 employees.

Prior to joining the Department of Education, Mr. Kearns was chairman of the Xerox Corporation, Stamford, Connecticut.

Mr. Kearns joined Xerox in July 1971 as a corporate vice president. He was named group vice president, international operations, in 1976. He was named president and chief operating officer in 1977 and chief executive officer in 1982. Mr. Kearns served as chief executive officer until he relinquished that position in August 1990.

Prior to joining Xerox, Mr. Kearns was a vice president in the data processing division of International Business Machines Corporation.

He is a member of the President's Education Policy Advisory Committee, the Business Council, the Council on Foreign Relations, and the American Philosophical Society. He was a member of the board of directors of Chase Manhattan Corporation, Time Warner Incorporated, Ryder System, Inc., and the Dayton Hudson Corporation. He also served as a member of the board of trustees of The Ford Foundation, the Chairman of the National Urban League, the Chairman of the University of Rochester, and the Chairman of Junior Achievement.

In 1988, he co-authored a book with Denis Doyle, Winning the Brain Race, a bold plan to make our schools competitive.

Mr. Kearns served in the United States Navy, and he graduated from the University of Rochester in 1952 with a degree in business administration.

He is married to the former Shirley Cox, and they have six children and seven grandchildren.

###

As Commissioner of the Food and Drug Administration, David A. Kessler will guide an agency that monitors foods, cosmetics, animal drugs and a wide variety of medical products, prescription and nonprescription. All told, FDA has an impact on the safety and value of about 25 percent of what the American consumer purchases. Dr. Kessler took over as FDA Commissioner on December 3, 1990.

Both a Harvard-trained physician and a University of Chicago-trained lawyer, Dr. Kessler brings a breadth of research, education, professional and administrative experience to this post.

Administrative experience. From 1984 until his FDA appointment, Dr. Kessler was medical director of the Hospital of Albert Einstein College of Medicine in the Bronx, NY. He helped establish the hospital's medical and pediatric emergency/evaluation units. During his tenure, the medical service was consolidated, and a new cancer unit, a blood donor facility and an adult dialysis center were opened, while the dialysis program for children was expanded. Under his leadership, physician assistants were brought into the hospital's teaching program in what has become a model for teaching hospitals in New York State. And, Dr. Kessler built the hospital's current quality assurance system.

Dr. Kessler holds hospital appointments at the medical center and teaching appointments in pediatrics and in the department of epidemiology and social medicine.

He was awarded an advanced professional certificate from the New York University Graduate School of Business Administration in 1986.

Dr. Kessler brings to FDA a breadth of experience in FDA issues, having written in the New England Journal of Medicine and other professional journals on food labeling and safety, drug and medical device issues. He has chaired the drugs and biologics subcommittee of the Department of Health & Human Services' Advisory Committee on the Food and Drug Administration -- a group of experts reviewing the resources, mission and organization of the agency. He continues on the committee as a non-voting member. (The committee's final report is expected in the first half of 1991.)

Since 1986, Dr. Kessler has taught food and drug law at Columbia University School of Law in New York City.

From 1981 to 1984, Dr. Kessler was a consultant on FDA-related issues to Senate Labor and Human Relations Committee Chairman Orrin G. Hatch.

A pediatrician, Dr. Kessler did his internship and residency at Johns Hopkins, Baltimore. Despite his schedule as medical director at the Albert Einstein Hospital, Dr. Kessler made it his business to see sick children in one of New York's municipal emergency rooms each week.

He is also one of the authors of "Caring for the Elderly; Reshaping Health Policy," Johns Hopkins University Press.

He was Phi Beta Kapp and was graduated magna cum laude with a bachelor of arts by Amherst College in 1973; with an M.D. from Harvard Medical School in 1979. An attorney, he was graduated with a doctor of law (J.D.) from the University of Chicago Law School, where he was an associate editor of the University of Chicago Law Review, in 1978.

Dr. Kessler was born May 31, 1951, in New York City. He is married to attorney Paulette Steinberg Kessler. They have two children, Elise and Benjamin.



## Robert Adam Mosbacher

### 28th Secretary of Commerce

Nominated Secretary of Commerce by President-Elect George Bush on December 6, 1988. He was confirmed 100-0 by the United States Senate on January 31, 1989.

#### Formerly:

- **Chief Executive Officer and Chairman of Mosbacher Energy Company**  
 Director of Texas Commerce Bancshares, Houston, Texas  
 Director Enron Corporation, Houston, Texas  
 Director New York Life Insurance Company, New York
- **Past chairman of the National Petroleum Council**  
 Charter member and past chairman of the All American Wildcatters Association  
 Past president of the American Association of Petroleum Landmen  
 Member of the Executive Committee and Board of Directors of the American Petroleum Institute  
 Past chairman of the Mid-Continent Oil and Gas Association
- **Twice Past Chairman of the Board of Visitors of the Texas M.D. Anderson Cancer Institute**  
 Former member of Board of Trustees of the Texas Heart Institute  
 Former National Trustee, Boys Clubs of America Southwest Region  
 Past Active Trustee of the Aspen Institute for Humanistic Studies  
 Member of Washington Roundtable and Co-Chair of Houston Roundtable of Center for Strategic and International Studies
- **Mosbacher served as National Finance Chairman for George Bush for President**  
 National Finance Chairman of the Fund for America's Future  
 Chairman of Victory '88  
 Co-Chairman of the Republican National Finance Committee  
 Member of the Executive Committee for Reagan-Bush  
 National Finance Chairman for the President Ford Committee in 1976
- **Won both the North American and World Sailing Championships in the Olympic classes (Dragon and Soling)**  
 Won the Southern Ocean Racing Circuit  
 Won the Gold Cup twice
- Born in White Plains, New York, Mosbacher has lived in Houston, Texas since 1948. He graduated from Washington and Lee University in Lexington, Virginia in 1947.
- Mosbacher is married to the former Georgette Paulsin and is the father of four (Diane, Robert Jr., Kathryn and Lisa) and grandfather of six. The Mosbachers reside in Washington.

**PRESIDENT'S COUNCIL OF ADVISORS  
ON SCIENCE AND TECHNOLOGY**

**NOVEMBER 14-15, 1991  
AGENDA**

**THURSDAY, NOVEMBER 14, 1991**

**OPEN SESSION 9:00 AM - 11:15 AM  
CONFERENCE ROOM  
COUNCIL ON ENVIRONMENTAL QUALITY  
722 JACKSON PLACE, NW**

---

|                      |                                              |                    |
|----------------------|----------------------------------------------|--------------------|
| <b>8:30 - 9:00</b>   | <b>ARRIVAL AND COFFEE</b>                    |                    |
| <b>9:00 - 9:15</b>   | <b>OPENING REMARKS</b>                       | <b>DR. BROMLEY</b> |
| <b>9:15 - 10:00</b>  | <b>BIODIVERSITY</b>                          | <b>DR. CLUTTER</b> |
| <b>10:00 - 10:15</b> | <b>DISCUSSION</b>                            | <b>DR. BROMLEY</b> |
| <b>10:15 - 11:00</b> | <b>MATHEMATICS AND SCIENCE<br/>EDUCATION</b> | <b>MR. KEARNS</b>  |
| <b>11:00 -</b>       | <b>OPEN SESSION CLOSING REMARKS</b>          | <b>DR. BROMLEY</b> |

**PRESENTATION TO THE  
PRESIDENT'S COUNCIL OF ADVISORS ON SCIENCE AND TECHNOLOGY**

**NOVEMBER 14, 1991  
WASHINGTON, D.C.**

**MARY E. CLUTTER  
ASSISTANT DIRECTOR FOR  
BIOLOGICAL, BEHAVIORAL, AND SOCIAL SCIENCES  
NATIONAL SCIENCE FOUNDATION**

## Amid Insult and Injury, Urban Forests Hang On

City woodlands may even be more 'natural' than

## Why Let Chainsaws Pare the Old Forests at 1/12

Virtually all the national forests that make money are the Northwest's stands of thick-waisted giants. But they are also a national treasure that cannot be replaced by just planting seedlings for future harvests.

## Environmental Claims For Damage by Iraq Go Begging for Data

The fires are out, but lakes of oil remain to pollute the deserts.

## Resetting Golden Lion Tamarins in Eastern Brazil's Coastal Forest

Cytogenetics: Help in Animal Matchmaking Gets Help From U.S. Zoos, American Specialists

## In Eastern Brazil's Coastal Forest, Quota Official Cuts Against Grain

Endangered Sp. Gets Help From U.S. Zoos, American Specialists

## Fights U.S. Timber, Quota Manager Tries to Give Montana Forest 'a Rest'

Endangered Sp. Gets Help From U.S. Zoos, American Specialists

## SCIENCE

NOTEBOOK

## Zoology: Artificial Insemination for Great Cats

Virgin forests  
Only about 5% of the forests here when  
Initially all are on public land



1996

## Activities

Land-clearing  
Water diversion  
Agriculture  
Forestry  
Fisheries  
Grazing  
Mineral extraction  
Fossil fuel consumption  
Industrialization  
Urbanization  
Recreation



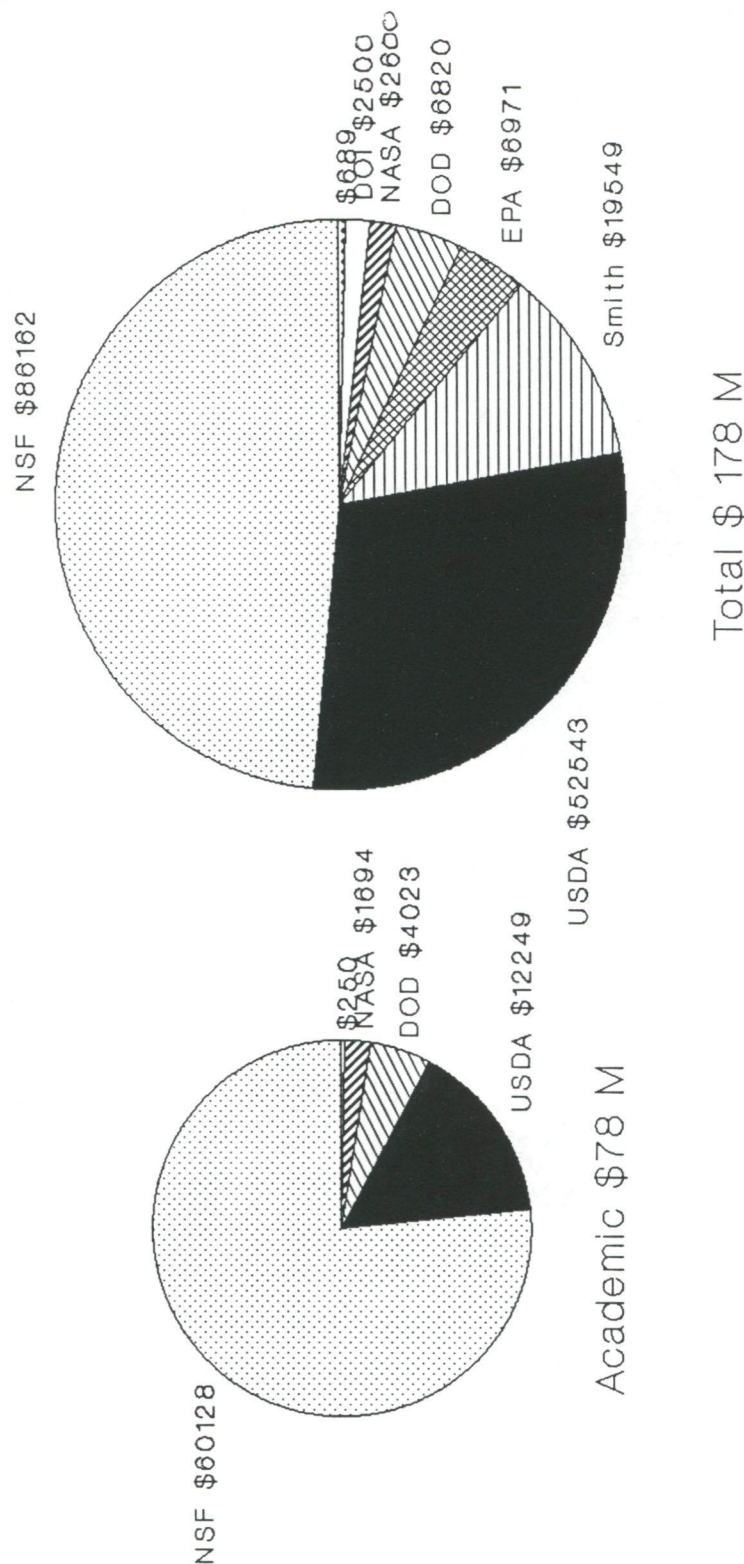
## Impacts and Stresses

Deforestation  
Desertification  
Acid precipitation  
Ozone depletion  
Pollution  
Eutrophication  
Sedimentation  
Climate change  
Landscape fragmentation

Extinctions  
Loss of genetic diversity  
Loss of habitat diversity  
Altered species distributions and abundances  
Altered landforms  
Subsidies of nutrients/energy

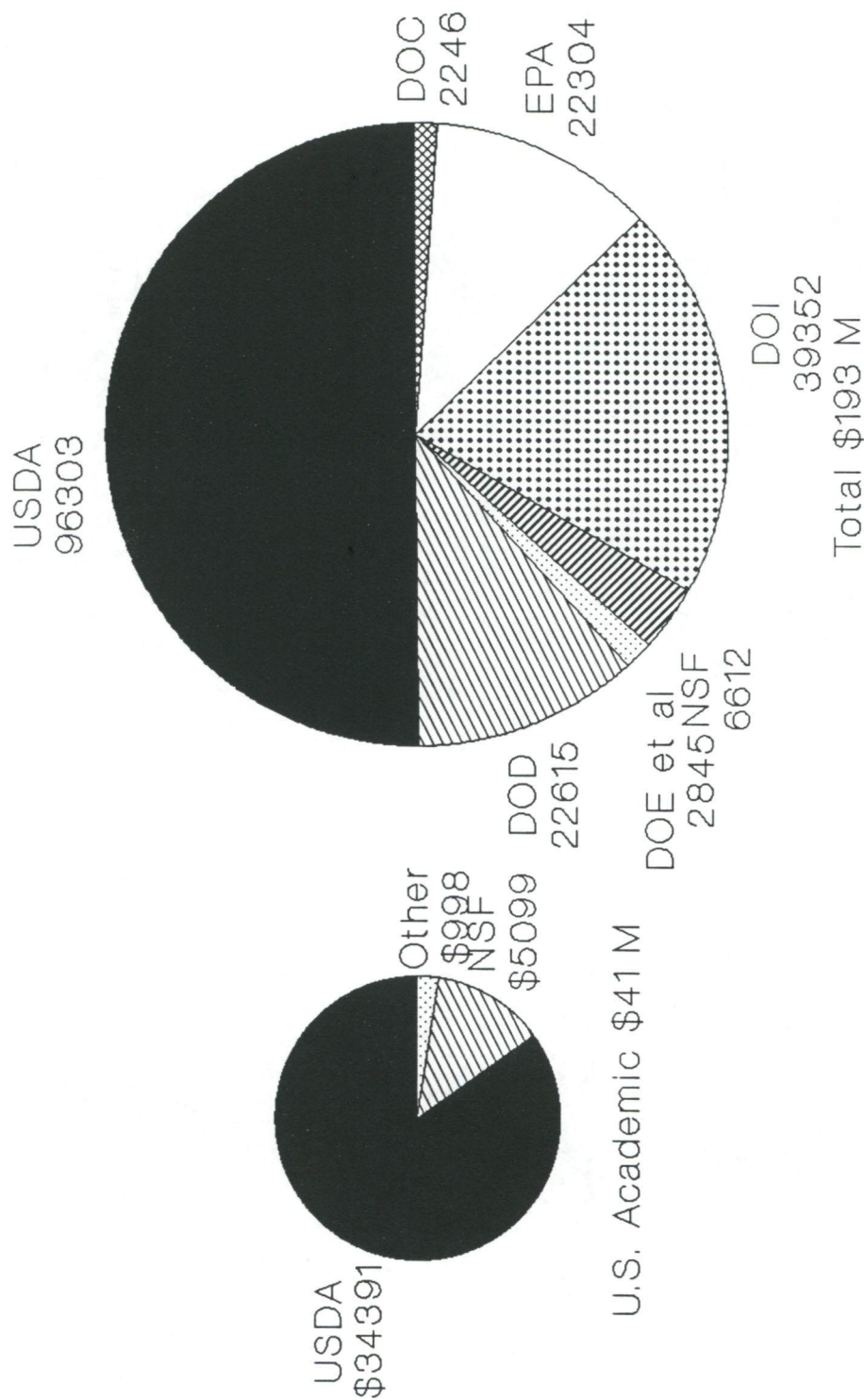
# Environmental Biology

## Basic Research--FY1990



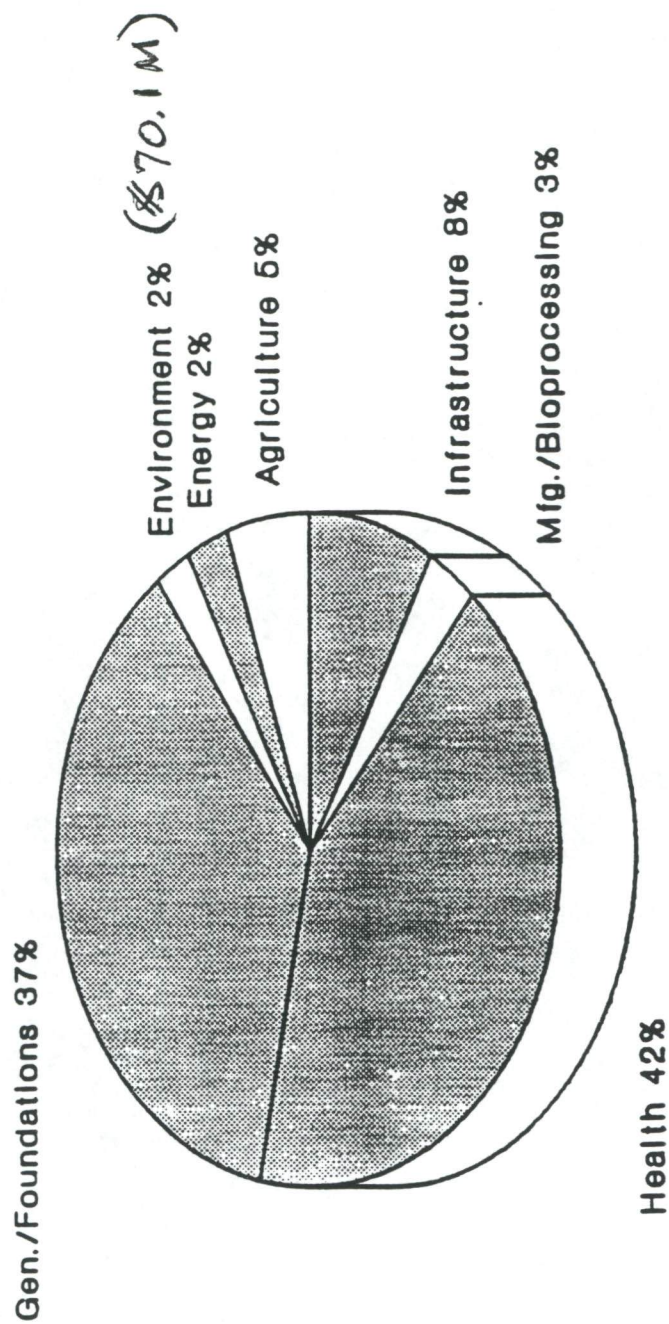
Source: NSF 90-237

# Environmental Biology Applied Research--FY1990



Source: NSF 90-237

# FEDERAL INVESTMENT IN BIOTECHNOLOGY RESEARCH



FY 1992 - \$3,644.4 M

(Social Impact not shown)

# Research on the Environment

## NSF's Role

---

- Develop the Basic Knowledge Base
- Support Research Facilities/Infrastructure
- Education and Training

# Examples of On-going Activities

Carnegie Commission Task Force on the Environment  
Committee for the National Institutes for the Environment  
NAS Committee on Environmental Research  
President's Commission on Environmental Quality  
FCCSET/Earth and Environmental Sciences  
FCCSET/Life Sciences and Health, Subcommittee on  
Environmental Biology (New)  
National Science Board, Committee on Biological Diversity

# Summary

What is needed?

- Knowledge of environmental behavior
- Causes and mechanisms of environmental change
- Knowledge base to avoid or resolve negative consequences

How do we get there?

- Multidisciplinary, integrated research
- Development of necessary infrastructure
- Seek new partnerships
- Training and human resource development

## DAVID T. KEARNS

David T. Kearns is Deputy Secretary of Education. He was nominated by President Bush on April 23, 1991, and unanimously confirmed by the U.S. Senate on May 22, 1991.

The Deputy Secretary advises the Secretary of Education on all major program and management issues. As the agency's second-highest official, he oversees the daily operations of the Education Department and its 4,500 employees.

Prior to joining the Department of Education, Mr. Kearns was chairman of the Xerox Corporation, Stamford, Connecticut.

Mr. Kearns joined Xerox in July 1971 as a corporate vice president. He was named group vice president, international operations, in 1976. He was named president and chief operating officer in 1977 and chief executive officer in 1982. Mr. Kearns served as chief executive officer until he relinquished that position in August 1990.

Prior to joining Xerox, Mr. Kearns was a vice president in the data processing division of International Business Machines Corporation.

He is a member of the President's Education Policy Advisory Committee, the Business Council, the Council on Foreign Relations, and the American Philosophical Society. He was a member of the board of directors of Chase Manhattan Corporation, Time Warner Incorporated, Ryder System, Inc., and the Dayton Hudson Corporation. He also served as a member of the board of trustees of The Ford Foundation, the Chairman of the National Urban League, the Chairman of the University of Rochester, and the Chairman of Junior Achievement.

In 1988, he co-authored a book with Denis Doyle, Winning the Brain Race, a bold plan to make our schools competitive.

Mr. Kearns served in the United States Navy, and he graduated from the University of Rochester in 1952 with a degree in business administration.

He is married to the former Shirley Cox, and they have six children and seven grandchildren.

###

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

---

For Immediate Release

October 28, 1991

Dr. D. Allan Bromley, the Assistant to the President for Science and Technology and Director of the Office of Science and Technology Policy, today announced his intention to name Dr. William F. Raub as Special Assistant for Health Affairs in the Office of Science and Technology Policy.

Dr. Raub is presently the Deputy Director of the National Institutes of Health in the Department of Health and Human Services, a position he has held since August 1986. He served as Acting Director of NIH from July 1989 through March 1991.

In announcing the appointment, Dr. Bromley said, "I am delighted that Dr. Raub has agreed to assume a position in this office. He is an outstanding senior science administrator with more than 25 years of experience in research and research management. His acquaintance with scientific programs throughout government will contribute greatly to our interagency efforts in policy development and planning."

Prior to his appointment as Deputy Director of NIH, Dr. Raub served as Associate Director, and later Deputy Director for Extramural Research and Training at NIH (1978-1986). He was Associate Director of the National Eye Institute (1975-1978) and Chief of the Biotechnology Resources Branch, Division of Research Resources (1969-1975). He joined NIH in 1966.

Dr. Raub led the effort to develop the PROPHET system, the most comprehensive and integrated array of computer-based tools for the study of the relationships between molecular structures and biological effects. It continues today as a national research resource under the sponsorship of NIH.

Dr. Raub is a graduate of Wilkes College in Wilkes-Barre, Pennsylvania, in 1961; he received his Ph.D. in 1965 from the University of Pennsylvania.

NATIONAL SCIENCE FOUNDATION  
1800 G STREET, N.W.  
WASHINGTON, D.C. 20550

MARY E. CLUTTER

ASSISTANT DIRECTOR  
FOR BIOLOGICAL, BEHAVIORAL, AND SOCIAL SCIENCES

Dr. Mary E. Clutter is the Assistant Director for Biological, Behavioral, and Social Sciences (BBS), of the National Science Foundation (NSF). As Assistant Director for BBS, she is responsible for six divisions encompassing major areas of research in biology--cellular, molecular, and environmental; the behavioral and neural sciences, including psychology, anthropology, and linguistics; the social sciences, including economics, sociology, and political science; and instrumentation and resources.

Prior to coming to NSF, Dr. Clutter was a member of the Department of Biology at Yale University. She came to NSF in 1976 as Program Director for Developmental Biology and has since served as Section Head for Cellular and Physiological Biosciences, Senior Science Advisor to the Director, and the Director of the Division of Cellular Biosciences.

Dr. Clutter serves on several policy level committees including: the Board of Regents of the National Library of Medicine; Federal Coordinating Council for Science, Engineering, and Technology (FCCSET) Committee on Life Sciences and Health and Committee on Food, Agriculture and Forestry Research of the Office of Science and Technology Policy; Joint Council on Food and Agricultural Sciences; the Army Science Board; and the Board of Trustees of the International Human Frontier Science Program; and also serves as an adviser to the McKnight Foundation, and is a member of the Task Force on Non-Governmental Organizations of the Carnegie Commission on Science, Technology, and Government. She is a member of the following professional societies: American Association for the Advancement of Science (AAAS), American Society for Cell Biology, American Society of Plant Physiologists, Association for Women in Science, International Society for Plant Molecular Biology, Sigma Xi, Society for Developmental Biology, and the Corporation of the Marine Biological Laboratory at Woods Hole. In 1981 she was elected as a AAAS Fellow and has served on the Board of Directors.

Dr. Clutter received a Bachelor of Science degree in biology from Allegheny College and her masters and doctoral degrees in botany from the University of Pittsburgh. She received a Presidential Rank Award in 1985, a D. Sc. Honoris Causa from Allegheny College in 1986, and the Bicentennial Medallion of Distinction from the University of Pittsburgh in 1987.

November 1991

**THE THURSDAY EVENING PCAST  
DINNER WILL BE HELD IN THE WHITE  
HOUSE MESS. COCKTAILS WILL BE  
SERVED BEGINNING AT APPROXIMATELY  
5:15 PM AND DINNER WILL BE SERVED  
AT ABOUT 6:00 PM. THE COST IS  
APPROXIMATELY \$50.**

**PRESIDENT'S COUNCIL OF ADVISORS  
ON SCIENCE AND TECHNOLOGY**

*Expected Attendees For November Dinner*

---

**PCAST Members**

**D. Allan Bromley**

**Norman Borlaug  
Charles Drake  
Ralph Gomory  
Mary Good  
John McTague  
Thomas Murrin  
Daniel Nathans**

**OSTP Staff**

**Charles Herzfeld  
Nancy Maynard  
Vickie Sutton  
Tom Welch**