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Committee for National Security Meeting Minutes, 07/17/97

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EXECUTIVE OFFICE OF THE PRESIDENT  
OFFICE OF SCIENCE AND TECHNOLOGY POLICY  
WASHINGTON, D.C. 20502

August 14, 1997

MEMORANDUM FOR KERRI-ANN JONES

THROUGH: BRUCE MACDONALD *BWM*

FROM: STEVE RINALDI *smr*

SUBJECT: CNS Meeting Minutes

The final minutes for the July 17 CNS meeting are attached. I have verified that our changes have been incorporated. I have also included a short letter of transmittal to Wes Kitchens.

RECOMMENDATION

Sign the attached minutes and letter of transmittal.

*Thanks.*  
*KAJ*

Attachments

EXECUTIVE OFFICE OF THE PRESIDENT  
OFFICE OF SCIENCE AND TECHNOLOGY POLICY  
WASHINGTON, D.C. 20502

August 14, 1997

MEMORANDUM FOR CLARENCE W. KITCHENS, JR.  
EXECUTIVE SECRETARY  
COMMITTEE FOR NATIONAL SECURITY

SUBJECT: CNS Meeting Minutes

I approve the minutes of the July 17, 1997 meeting of the Committee for National Security. This document is enclosed.

A handwritten signature in black ink that reads "Kerri-Ann Jones". The signature is written in a cursive, flowing style.

Kerri-Ann Jones  
Associate Director  
National Security and International Affairs

Enclosure

**NSTC COMMITTEE FOR NATIONAL SECURITY**  
**Minutes -- Meeting of July 17, 1997**

The Committee for National Security (CNS) held its fourteenth meeting on July 17, 1997. The Principals who attended are listed at Attachment 1. The primary purpose of the meeting was to discuss options proposed by the CNS Working Group on Issues and Policy in International Technology and provide guidance to the group on their future direction. The meeting agenda is shown at Attachment 2.

**I. INTRODUCTION**

Dr. Kerri-Ann Jones introduced her co-chair, Mr. Noel Longuemare, the Acting Under Secretary of Defense for Acquisition and Technology, who was attending his first meeting of the CNS.

**II. CURRENT EFFORTS**

**A. International Technology Transfer Working Group**

Dr. Jones introduced Dr. Gerald Epstein of OSTP, who was to give the presentation on behalf of the CNS Working Group on Issues and Policy in International Technology. She indicated that the purpose of the discussion was to give the Working Group its marching orders.

Dr. Epstein presented the Subtask and Performer Matrix for each of the two assigned tasks (copy at Attachment 3). He opened by pointing out that the committee had directed the Working Group to develop a plan for accomplishing two specific tasks. His briefing identified subtasks under each task, who might accomplish each, and a time and cost estimate for that effort.

Ambassador Sweeney questioned whether task 1, subtask 3 (potential National Research Council effort) included controlled as well as uncontrolled technology. Dr. Epstein indicated that the intent was to include both and that the text will be clarified accordingly.

Mr. Longuemare asked what would be done with all of the data if the Working Group was successful in acquiring all that it wanted, because often knowing the desired outcome can help determine the proper approach. Dr. Epstein indicated he did not know the answer. Mr. Reinsch stated that the long-term objective of the effort was to determine whether the government had the tools to protect the technology for national security

purposes. He felt that the six studies listed in task 1 should be winnowed down. Some of the proposed lists already exist; therefore, the Working Group should review the available lists, coordinate with the originators, and close out those options. Regarding task 2, a survey has been initiated within the Commerce Department similar to that called for under subtask 1. He recommended that other agencies conduct the same internal survey. With regard to subtask 1.B, what seems to be missing is more information on what our foreign counterparts are doing in each sector. He felt that the Census Bureau could play a role in data collection, and noted that their questions would have to be carefully crafted to provide useful data.

Dr. David pointed out that there is an ongoing global R&D study sponsored by the Council on Competitiveness that covers many of these areas. The study should be completed later this year. Mr. Reinsch suggested that the Working Group tie into that effort. In the Commerce Department, there is a comprehensive set of technical advisory committees that are organized by sector. These groups are well qualified to do some of the work shown in the 1st box on page 6 of Attachment 3 (Develop an inventory of existing government/private sector interface mechanisms related to international technology). It could be done as part of their normal mandate and therefore would be at no cost to the CNS. Ambassador Sweeney suggested the PCAST (President's Committee of Advisors on Science and Technology) was also a good group that could do this. Dr. Jones opined that the PCAST would be more useful later on when a well defined question could be posed. She believed that the committee was still looking at resources available within agencies and was not ready for a costly study. Dr. David pointed out that foreign students in the U.S. are gaining specialized expertise and that technology transfer is occurring when they leave. Dr. Jones suggested that the technology transfer via humans should be included in the study.

GEN Dailey noted that in view of the limited resources available, the suggestion by the Working Group to use an Industrial College of the Armed Forces student was very timely. There was agreement that use of the War College would be a good experience as long as it did not delay related actions.

Dr. Jones stated in summary that the Working Group would go forward with the focus on internal agency surveys. Major Steve Rinaldi, who recently replaced Lieutenant Colonel Tom Furhman as the Working Group chair, would develop a list of deliverables based on today's discussion and circulate it to the Principals for agreement. He would brief the committee on the first batch of deliverables at the next quarterly meeting. Mr. Longuemare thought that a draft presidential directive could be used as a goal of what the group was aiming for. After some discussion, it was agreed that a draft presidential directive is premature and would be difficult to develop because of all the coordination required. A one page paper with strawman objectives would be useful and could be written based on the goals stated in the previous meetings. This paper would be

especially important for the new members of the committee. The Working Group was tasked to develop such a paper.

## **B. Non-Proliferation and Arms Control Technical Working Group (NPAC/TWG)**

Ms. Sallie Mullen, ACDA, was introduced as one of three co-chairs of the NPAC/TWG. Ms. Mullen introduced the other co-chairs, Mr. Walt Busbee from DoD and Mr. Bob Waldren from DOE, and the executive secretary of the NPAC/TWG Mr. Mark Swiecicki from ACDA. Ms. Mullen then briefed the annual report of the NPAC/TWG. Copies of the unclassified slides are at Attachment 4. Ms. Mullen pointed out that the NPAC/TWG was established as a result of PDD 27 and is in its second year of existence. She emphasized that the group only coordinates R&D, it does not initiate it. The third annual symposium will be held this fall probably at a contractor's site and will last two days. Focus groups have been established within the NPAC/TWG as the technology information sharing bodies. One example of the synergy resulting from the focus groups is project N-ABLE (nonproliferation airborne laser experiment). It is a joint project to develop a chemical detection standoff laser system that includes ERDEC (Edgewood Research, Development and Engineering Center), NN20 in DOE, Philips Laboratory, and DIA (Defense Intelligence Agency). It is an airborne laser that detects chemicals with a standoff capability of 20 kilometers. The laser was provided by ERDEC, the platform by Phillips Laboratory, and the detector by Los Alamos. In response to a question from Dr. David, it was pointed out that some members of the NPAC/TWG also participate in the Defense Science Board summer study on Transnational Threats.

## **III. POSSIBLE NEW EFFORTS**

### **A. NSTC Goals and Objectives**

Dr. Jones introduced the OSTP/NSTC Long-Term Planning Document that was included in the Principal's packets (copy at Attachment 5). She provided some context on the paper, describing that it is an action plan for OSTP priority issues. It does not represent an exhaustive list of NSTC activities. She asked the members to review the material and send her any comments.

## **IV. OTHER BUSINESS**

There was none.

## V. CLOSING REMARKS

Dr. Jones suggested that the next meeting be scheduled in three months for 1.5 hours to allow time for discussion.

\_\_\_\_\_  
Mr. Noel Longuemare, Chair (date)

Kerri-Ann Jones 8/15/97.  
Dr. Kerri-Ann Jones, Co-Chair (date)

### Attachments:

1. List of Principals attending
2. Meeting agenda
3. Proposed Next Steps by the CNS Working Group on Issues and Policy in International Technology
4. Annual Report of the Non-Proliferation and Arms Control Technical Working Group (Two Classified Slides have been Removed)
5. OSTP/NSTC Long-Term Planning Document

Principals Attending Meeting of the Committee for National Security, April 28, 1997

|                               |                                                                                                        |
|-------------------------------|--------------------------------------------------------------------------------------------------------|
| Mr. Noel Longuemare, Chair    | Under Secretary of Defense for Acquisition and Technology                                              |
| Dr. Kerri-Ann Jones, Co-Chair | Associate Director National Security and International Affairs, Office of Science & Technology Policy  |
| GEN John R. Dailey            | Associate Deputy Administrator, NASA                                                                   |
| Mr. Gary Bachula              | Acting Under Secretary of Commerce for Technology                                                      |
| Mr. William Reinsch           | Under Secretary of Commerce for Export Administration                                                  |
| Ambassador James Sweeney      | Special Representative of the President and Chief Science Advisor, Arms Control and Disarmament Agency |
| Dr. Ruth David                | Deputy Director Science & Technology, CIA                                                              |

Agenda for the Meeting of the  
**NSTC COMMITTEE FOR NATIONAL SECURITY**

JULY 17, 1997  
2:00 - 3:00 PM  
Pentagon, Room 3D1019

**I. INTRODUCTION**

**II. STATUS OF CURRENT EFFORTS**

- A. International Technology Transfer Working Group**
- B. Non-Proliferation and Arms Control Technical Working Group**

**III. POSSIBLE NEW EFFORTS**

- A. NSTC Goals and Objectives**

**IV. OTHER BUSINESS**

**In Folders at Table:**

- 1. Agenda**
- 2. Briefing of the CNS Working Group on Issues and Policy in International Technology**
- 3. OSTP/NSTC Long Term Planning Document**
- 4. Briefing of the Non-Proliferation and Arms Control Technical Working Group**
- 5. Minutes of the April 28, 1997 Meeting of the NSTC Committee for National Security**

Attachment 2

**NATIONAL SCIENCE AND TECHNOLOGY COUNCIL**  
**COMMITTEE FOR NATIONAL SECURITY**

**Working Group on Issues and Policy**  
**in**  
**International Technology**

**Proposed Next Steps**

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*Background*

At the April 28, 1997 meeting of the Committee for National Security (CNS), the Working Group was directed to pursue two of the three tasks recommended in the Phase 1 Progress Report Briefing, with emphasis on defining more precisely the specific activities each task would entail, the specific entities that could perform the needed work, and the specific mechanisms through which those entities could be engaged.

*Description of this document*

This document presents a "Subtask and Performer Matrix" for each of the two assigned tasks. The Working Group considers all of the subtasks contained in these matrices to be necessary elements of the overall task. Options regarding performers and methods are presented within each subtask.

*Next Steps*

The Working Group submits this proposal to the Committee for National Security with the expectation that the members of the Committee will identify the most promising options and will direct further actions as appropriate.

## Task 1

*Identify relevant data that the government presently collects that can help quantify the international flow of both controlled and uncontrolled technology and explore ways to improve how it is analyzed to better support policy making.*

**Subtask and Performer Matrix**

| Subtask                                                                            | Options                                                                                      |                                                                                                                     |                                                                                                                                                              |                                        |                                                                                                                                                    |
|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                    | Description                                                                                  | Potential Performers                                                                                                | Potential Methods                                                                                                                                            | Cost & Schedule Estimates <sup>1</sup> | Notes                                                                                                                                              |
| <b>1</b> Identify the technologies to be addressed.                                | <u>A</u> Adopt or modify an existing list of technologies as the framework for analysis.     | CNS Technology Transfer Working Group                                                                               | <ul style="list-style-type: none"> <li>National Critical Technologies List<sup>2</sup></li> <li>Militarily Critical Technologies List<sup>3</sup></li> </ul> | Negligible cost; 4 – 6 weeks           | Modify as necessary, changing or deleting technologies or adding technologies of interest.                                                         |
| <b>2</b> Develop an inventory of existing government processes for collecting data | <u>A</u> Survey existing Department and Agency data on the international flow of technology. | <ul style="list-style-type: none"> <li>Individual Departments/ Agencies</li> <li>Executive Office of the</li> </ul> | Internal Department and Agency tasking                                                                                                                       | Low cost; 1 – 3 months.                | <p>Department of Commerce has initiated a survey.</p> <p>Involvement of senior officials would probably be required for comprehensive tasking.</p> |

<sup>1</sup> Cost and schedule estimates shown in this column are rough order of magnitude estimates based on assumed scope of the options as described in this table.

<sup>2</sup> The National Critical Technologies List is found in the *National Critical Technologies Report*, a statutory report produced biennially by OSTP and the interagency National Critical Technologies Review Group. It defines "critical technology" as one which is important to the long-term U.S. national security and economic prosperity.

<sup>3</sup> The Militarily Critical Technologies List is prepared by the Department of Defense with the assistance of the Institute for Defense Analyses.

Committee for National Security  
Working Group on Issues and Policy in International Technology

Task 1 cont'd

| Subtask                                                                                            | Options                                                                                                          |                                                                                 |                                                                                                                        |                                        |                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                    | Description                                                                                                      | Potential Performers                                                            | Potential Methods                                                                                                      | Cost & Schedule Estimates <sup>1</sup> | Notes                                                                                                                                                                                                                                                                                                                                                                    |
| related to the international flow of technology, identifying what is collected and how it is used. |                                                                                                                  | President organizations                                                         |                                                                                                                        |                                        |                                                                                                                                                                                                                                                                                                                                                                          |
|                                                                                                    | <u>B</u> Inventory available National Science Foundation data on international technology.                       | • CNS Technology Transfer Working Group                                         | Work with NSF to understand what data they collect in developing the <i>Science and Engineering Indicators</i> report. | Negligible cost; 3 months              | <i>Science and Engineering Indicators</i> is a biennial report which provides a broad range of quantitative information and analysis regarding science, engineering, research, and education in the United States, along with comparative information on science and technology in other countries. It has become an international standard for reporting trends in S&T. |
|                                                                                                    | <u>C</u> Contract for the development of an inventory of government data on the international flow of technology | • FFRDC (e.g., Critical Technologies Institute, Institute for Defense Analyses) | Contract, grant, or award.                                                                                             | > \$200 K; 6 – 12 months               | A contracting vehicle and a contracting agency would have to be identified.                                                                                                                                                                                                                                                                                              |

Committee for National Security  
Working Group on Issues and Policy in International Technology

Task 1 cont'd

| Subtask                                                                                     | Options                                                                                                          |                                                                                                                                                                                                   |                   |                                        |                                                                                                                                            |
|---------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                             | Description                                                                                                      | Potential Performers                                                                                                                                                                              | Potential Methods | Cost & Schedule Estimates <sup>1</sup> | Notes                                                                                                                                      |
|                                                                                             |                                                                                                                  | <ul style="list-style-type: none"> <li>• Contractor (e.g., System Planning Corporation)</li> <li>• Prominent researcher (e.g., Edward Mansfield (UPa), Richard Nelson (Columbia), etc)</li> </ul> |                   |                                        |                                                                                                                                            |
|                                                                                             | <u>D</u> Arrange for a War College study of data on the international flow of technology                         | Industrial College of the Armed Forces (ICAF)                                                                                                                                                     | Student project   | No cost; 1 year                        | <p>Work with ICAF faculty to develop terms of reference.</p> <p>Effort would be governed by academic schedule and content constraints.</p> |
| 3 Assess how existing government data collection processes contribute to policy development | <u>A</u> Arrange for the National Research Council to conduct a study and produce a report with recommendations. | National Research Council                                                                                                                                                                         | NRC study         | \$1 million; 2 years                   | Terms of Reference and contract terms would have to be worked out                                                                          |

Committee for National Security  
Working Group on Issues and Policy in International Technology

Task 1 cont'd

| Subtask                                                                                                                | Options                                                                                                                                                      |                      |                                                                      |                                                      |                                                            |
|------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------------|
|                                                                                                                        | Description                                                                                                                                                  | Potential Performers | Potential Methods                                                    | Cost & Schedule Estimates <sup>1</sup>               | Notes                                                      |
| regarding international technology transfer and identify ways that they can be better applied to support policymaking. |                                                                                                                                                              |                      |                                                                      |                                                      |                                                            |
|                                                                                                                        | <u>B</u> Arrange for data related to international technology transfer (e.g., the effect of technology transfer on jobs) to be collected in the 2000 census. | Bureau of the Census | Questions related to international technology added to census forms. | Unknown cost for collection and analysis; long term. | Precise objectives and advance planning would be required. |

## Task 2

*Explore ways the government can work more effectively with the private sector to better understand the international flow of technology and its consequences, to include open discussion of government and industry sharing their experiences about the effects of technology transfer.*

### Subtask and Performer Matrix

| Subtask                                                                                                                      | Options                                                                                      |                                                                                                                                            |                                        |                           |                                                                                                                                                                                                                                                                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                              | Description                                                                                  | Potential Performers                                                                                                                       | Potential Methods                      | Cost & Schedule Estimates | Notes                                                                                                                                                                                                                                                                                                                                   |
| <b>1</b> Develop an inventory of existing government/private sector interface mechanisms related to international technology | <u>A</u> Survey existing Department and Agency processes for relating to the private sector. | <ul style="list-style-type: none"> <li>Individual Departments/Agencies</li> <li>Executive Office of the President organizations</li> </ul> | Internal Department and Agency tasking | Low cost; 1 – 3 months.   | <p>Formal mechanisms would include FACA-compliant advisory boards, public hearings, Congressional testimony, and requests for public comment. Informal mechanisms include unsolicited industry input, university studies, and media reports.</p> <p>Involvement of senior officials is probably required for comprehensive tasking.</p> |
|                                                                                                                              | <u>B</u> Contract for a written report on existing mechanisms.                               | FFRDC (Critical Technologies Institute; Institute for Defense Analyses)                                                                    | Existing OSTP or DDR&E contract        | \$200K; 8 – 12 months     | A contracting vehicle and a contracting agency would have to be identified.                                                                                                                                                                                                                                                             |

Committee for National Security  
Working Group on Issues and Policy in International Technology

Task 2 cont'd

| Subtask                                                                                           | Options                                                                                                                                   |                                                                                                                                                                                   |                                                                                                              |                           |                                                                                                                                                                                                            |
|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                   | Description                                                                                                                               | Potential Performers                                                                                                                                                              | Potential Methods                                                                                            | Cost & Schedule Estimates | Notes                                                                                                                                                                                                      |
| 2 Examine the private sector's views on the international flow of technology and its consequences |                                                                                                                                           | <ul style="list-style-type: none"> <li>Contractor (e.g., System Planning Corporation)</li> </ul>                                                                                  |                                                                                                              |                           |                                                                                                                                                                                                            |
|                                                                                                   | <u>A</u> Contract for a workshop on the impact of international technology transfer on U.S. national security.                            | <ul style="list-style-type: none"> <li>FFRDC (Critical Technologies Institute; Institute for Defense Analyses)</li> <li>Contractor (e.g., System Planning Corporation)</li> </ul> | Organize and host a workshop on the "Impact of International Technology Transfer on U.S. National Security." | \$200 K;<br>8 – 12 months | <ul style="list-style-type: none"> <li>Invited presentations and panel discussions focusing on the industrial view.</li> <li>The contractor would organize the workshop and prepare the report.</li> </ul> |
|                                                                                                   | <u>B</u> Arrange for the President's Committee of Advisors on Science and Technology (PCAST) to provide a written report to the President | President's Committee of Advisors on Science and Technology (PCAST)                                                                                                               | PCAST subgroup would perform a study and write a report.                                                     | No added cost;<br>1 year  | The nature and scope of this effort would depend on the interests of the PCAST members.                                                                                                                    |

Committee for National Security  
Working Group on Issues and Policy in International Technology

Task 2 cont'd

| Subtask                                                                                                | Options                                                                                 |                                                                                                                                                           |                                                                                                                                                                         |                            |                                                                                      |
|--------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------------------------------------------------------------------------------|
|                                                                                                        | Description                                                                             | Potential Performers                                                                                                                                      | Potential Methods                                                                                                                                                       | Cost & Schedule Estimates  | Notes                                                                                |
|                                                                                                        | <u>C</u> Solicit public comment on the effects of the international flow of technology. | <ul style="list-style-type: none"> <li>• The public</li> <li>• Industry and trade associations</li> <li>• Association of American Universities</li> </ul> | <p>Establish a government Internet Website or e-mail address to receive comments.</p> <p>Solicit input from the public, industry, trade associations, and academia.</p> | < \$50 K;<br>8 - 12 months | Soliciting input such as this may be governed by FACA, Paperwork Reduction Act, etc. |
| 3 Identify ways to improve government interaction with the private sector on international technology. | <u>A</u>                                                                                | CNS Working Group on International Technology                                                                                                             | Meetings/research/discussion                                                                                                                                            | No cost;<br>6 months       | An overall synthesis of reports and inputs. This would be a culminating event.       |

**Annual Report of the  
Non-Proliferation and Arms Control  
Technical Working Group**

**Briefing for  
Committee for National Security**

**Sallie Mullen, ACDA, Co-Chair**

**July 17, 1997**

**Note: the classified slides have been removed**

*Attachment 4*



## Agenda

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- Background
- 1996 activities
- Findings
- Recurrent themes
- 1997 work plan
- Recommendations



# NPAC TWG Charter

## PDD-27

- **Purpose:**

- ensure effective coordination of NPAC R&D and guard against redundant programs

- **Functions:**

- exchange information and coordinate NPAC R&D
- advise agencies on NPAC priorities
- facilitate conduct of cooperative interagency programs
- review R&D programs and identify overlaps and gaps
- frame interagency issues/differences for decisions at higher levels
- advise IWGs on R&D capabilities and limitations
- *make recommendations to CNS on coordination of all NPAC R&D programs in President's budget submission to Congress*



## Focus Group Process

- Technical experts at project officer level
- Broad participation
- Individual programs considered
- Bottom up approach
- Reports represent consensus on
  - . Capabilities
  - . Gaps and overlaps
  - . Future directions

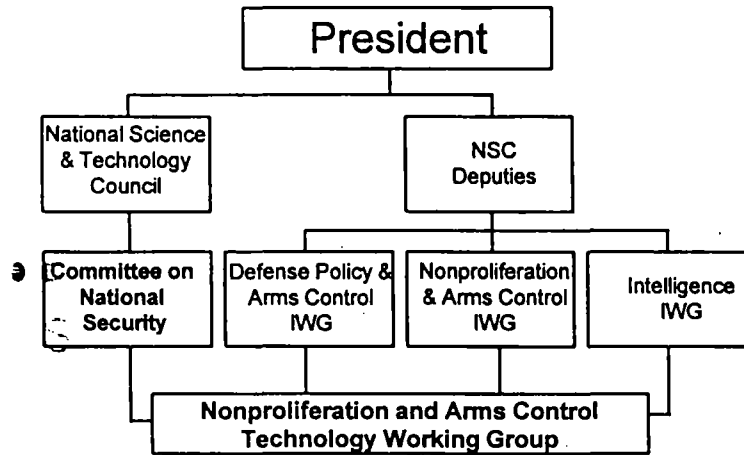


## Focus Groups

- Active Electro-Optics (DOE)
- CW Detection (OSD)
- Fieldable Nuclear Detectors (DOE)
- Spectral Sensing (NIMA)
- Underground Facilities (DSWA/CIA)
- R&D Database (ACDA/DTIC)
- BW Detection (CMO)
- Proliferation Modeling (DIA)
- Unattended Remote Sensors (CIA)
- START Monitoring (ACDA)
- Nuclear Test Monitoring (ACIS)
- Fissile Material Controls (Sandia)
- Landmines (Army/Navy)



# Reporting Chain



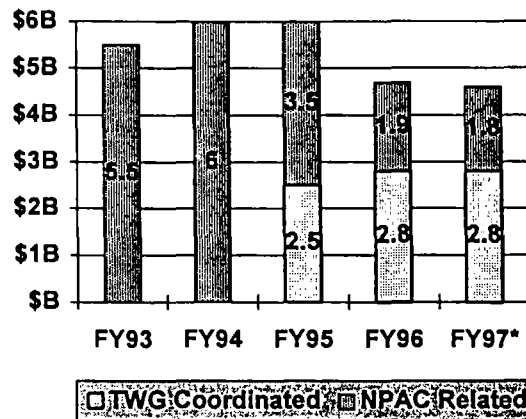


## 1996 Major Activities

- Established Technology Needs Subcommittee
- Est'd new Focus Groups in Fissile Material Controls and Landmine Detection
- Expanded R&D coordination
- Held 60+ meetings
- Briefed Executive, IC, Congress
- Est'd homepage on INTELINK and Internet
- Conducted 2nd Annual Symposium



## NPAC R&D Funding



- Overall funding: down 22% in FY96
- FY97 funding projection: 23% below 94/95 high of \$6B
- TWG coordination: up 12% in FY96
- TWG pathfinder study to rationalize funding not captured



## Recurrent Themes

- Program management enhanced - agencies motivated to seek leveraging opportunities
- Funding criticality:
  - Basic (6.1, 6.2)
  - O&M
  - Training
- User/developer interface



## 1997 Work Plan

- Infuse policy dimension
- Optimize coordination process
- Maximize outreach



## Recommendations

- Support increased R&D funding for Chem/Bio detection
- Endorse Joint UAV Study
- Endorse Sensor Interoperability Study

EXECUTIVE OFFICE OF THE PRESIDENT  
NATIONAL SCIENCE AND TECHNOLOGY COUNCIL  
WASHINGTON, D.C. 20500

July 14, 1997

TO: NSTC COMMITTEE CHAIRS, CO-CHAIRS, VICE-CHAIRS  
FROM:  ANGELA PHILLIPS DIAZ, NSTC EXECUTIVE SECRETARY  
SUBJECT: OSTP/NSTC LONG-TERM PLANNING DOCUMENT

On July 1, 1997, Dr. Gibbons' delivered the enclosed OSTP/NSTC Long-Term Planning document to Erskine Bowles and other senior White House staff. Thank you for your contribution in preparing this long-term plan; they were very helpful and we would appreciate your feedback on this final document.

If you have any questions regarding this long-term plan, please call me at 202-456-6100.

Enclosure a/s

cc:  
NSTC Committee Executive Secretaries  
NSTC Committee Liaisons  
NSTC Policy Analyst

Attachment 5

THE WHITE HOUSE  
WASHINGTON

July 1, 1997

MEMORANDUM FOR ERSKINE BOWLES

FROM: JACK GIBBONS   
SUBJECT: PRIORITIES UPDATE

I wanted to update you on the priorities of OSTP and NSTC. The attached materials highlight essential budget, legislative, and regulatory processes we're now engaged in, as well as our longer term S&T activities and public affairs strategies. Per your suggestion, I've tried to follow the format Gene Sperling used for NEC. I would appreciate your feedback.

cc: John Podesta  
Sandy Berger  
Leon Fuerth  
Don Gips  
Katie McGinty  
Frank Raines  
Bruce Reed  
Gene Sperling  
Janet Yellen



With many critical science and technology programs "in play" on the Hill and with FY99 budget submissions fast upon us, it is important to reconsider and update OSTP/NSTC's priorities for the next several months. To guide your thinking in that effort, the following documents are attached:

- Critical S&T Budget Processes (FY98 and FY99)
- Legislative and Regulatory Priorities
- S&T Focus Areas
- Public Affairs and Outreach
- OSTP's Goals and Objectives Memo to Erskine Bowles dated February 28, 1997

**CRITICAL S&T BUDGET PROCESSES****SUPPORT FOR THE FY98 BUDGET REQUEST**

1. **Ensure Functions 250 (current shortfall of 1.5 percent in budget resolution) and 370 receive sufficient support**
2. **Support research programs, particularly those targeted by Congress for reductions from Administration's mark**
  - DOD basic research (6.1 and 6.2 accounts)
  - DOE renewables and energy efficiency
  - DOE funds for NGI
  - Large Hadron Collider
  - Nuclear materials security
  - Industry partnerships, particularly ATP and MEP
3. **Support programs critical to implementation of the National Space Policy**
  - International Space Station
  - Mission to Planet Earth
  - Space Science (including 6 missions following Mars Pathfinder)
  - Space Transportation

**PREPARATION OF THE FY99 BUDGET**

1. **Work with OMB and the departments to prepare FY99 R&D budgets**
  - **Enforce decisions regarding priority funding for cross-cuts reported to Congress**
    - education and training technology
    - U.S. Global Change Research Program
    - emerging infectious diseases
    - large scale networking and high-end computing and communications
    - PNGV
  - **Enforce R&D priorities (Gibbons/Raines guidance)**
  - **Coordinate new multi-agency budget for mapping and sequencing plant genomes**
  - **Use PCAST report to develop new recommendations for energy R&D strategy**
  - **Coordinate and defend multi-agency origins research and discover missions**

## LEGISLATIVE AND REGULATORY PRIORITIES

### Senate Confirmations

- Support key S&T nominees

### National Security and Global Stability

- Ratify the Comprehensive Test Ban Treaty
- Strengthen support for Administration programs for medium-term storage and long term disposition of U.S. and Russian excess plutonium
- Strengthen support for international response to disease outbreaks -- clarify CDC's authorities regarding epidemics overseas

### Space

- Negotiate endorsement of Administration's GPS policy in DOD authorization bill
- Negotiate compromise on remote sensing provisions of Commercial Space Bill

### Telecommunications

- Pass legislation to enable next steps for Next Generation Internet
- Seek input from stakeholders on computing, advanced networking, and communications
- Coordinate Administration position on INMARSAT restructuring

### Health

- Update common rule on human subjects research
- Pass cloning legislation that protects values without hindering vital research
- Extend fair trade policies to encompass food safety

### Climate Disruption

- Minimize impacts of Senate resolutions on flexibility of Kyoto negotiations

### Ecosystem Management

- Monitor draft bills to ensure solid scientific foundations and good linkage of science to policy and management

### Technology Transfer

- Use regulatory and legislative vehicles to ensure continuation of cost-shared technology partnerships with the private sector

### Housing

- Streamline the construction and building regulatory process

### Agriculture

- Reauthorize the research title of the Farm Bill
- Ensure the science base of biotechnology regulations

Transportation

- Support NEXTEA Authorization -- work with NEC to ensure that R&D component of legislation remains intact

Energy

- Electricity restructuring -- work with NEC; ensure compatibility with PCAST study

Open Data Exchange

- Ensure legislation related to copyright protection for databases makes provisions for the continued free and open exchange of data by scholars, researchers, and other non-commercial users

**S&T FOCUS AREAS****1. Education, Training, and Human Resources**

- Science and math education
  - craft policy options based 4<sup>th</sup> and 8<sup>th</sup> grade results from TIMSS
  - implement action plan recommended by ED-NSF working group report
  - address underrepresentation issues in undergraduate, graduate, and professional education
- Educational technology
  - establish priorities for federal R&D and procurement policies
  - develop a strategy to encourage investment and partnerships with companies and universities and assure rapid conversion of concepts into products available for education and training
- Training
  - make Smithsonian exhibits available online
  - coordinate development of voluntary technical standards for computer based training with private sector purchasers
  - Expand America's Job Bank to provide information and evaluations of training over the Internet

**2. Computing, Information, and Communications**

- Support long-term technology development in
  - Next Generation Internet and large scale networking
  - High end computing and communications
  - Human centered systems
- Elicit international support for U.S. policy of full and open exchange of data for science and education

**3. National Security**

- Nuclear materials -- coordinate implementation of President's decision to dispose of excess plutonium
- Counter-terrorism -- ensure adequate R&D
- Landmines -- ensure adequate R&D
- Troop health -- review agency plans to improve health preparedness for future deployments
- Aviation safety -- coordinate agency response to WH Commission recommendations requiring S&T investments

**4. Climate Disruption**

- Educate American people about the long-range ecological consequences of climate disruption and the economic consequences of the failure to mitigate impacts
- Advance development and deployment of energy-efficient, greenhouse-gase reducing technologies

**5. Air Quality**

- Improve options for ozone and fine particulate reduction and management

**6. Emerging Infectious Diseases**

- Coordinate implementation of PDD

**7. International Cooperation**

- Expand bilateral S&T agreements with key partners
- Improve cooperation with key multilateral forums

**8. Reinventing Federal Research Infrastructure**

- Establish a common federal approach to oversight of research misconduct
- Incorporate industrial perspectives in fundamental science priority setting
- Review university-government partnership
- Broaden reform activities in all national laboratories and intramural research programs

**9. Ecosystem Management**

- Develop a report card on the U.S. ecosystem and how it is fairing, involving multiple stakeholders in process
- Increase research focus on providing clean water, preventing land-based marine pollution, and managing forests

**10. Natural Disasters**

- Develop improved risk assessment strategies, land use policies, building performance standards, and real time warnings to reduce losses

**11. Endocrine Disruptors**

- Formulate coordinated federal research strategy
- Provide international leadership for a global approach to research

**12. Transportation**

- PNGV
- Implement federal transportation S&T strategy
- Expand to a national strategy

**13. Space**

- Prepare for White House approval of the 10/97 Cassini launch
- Coordinate U.S.-Russia cooperation

**14. Food**

- Complete National Aquaculture Development Plan
- Oversee Dietary Reference Intakes projects
- Develop Food Security Summit action plan
- Develop a coordinated research plan for the plant genome initiative

**PUBLIC AFFAIRS AND OUTREACH****1. Build partnerships**

- State governments -- promote activities of the United States Innovation Partnership
- Industry
  - PNGV -- provide continued leadership
  - NEMI -- reactivate Electronics Materials Working Group
  - Construction and Building -- establish Partnership for Advanced Housing Technology
  - Manufacturing -- build support for Next Generation Manufacturing Initiative

**2. Seek recognition for high achievers**

- Increase President's visibility with math and science teachers through various awards
- Associate President with Nobelists and other scientific and technology awardees

**3. Outreach directly to public**

- Develop and use laymen's language to convey the direct benefits of S&T investments to American people
- Focus on climate disruption

**4. Intragovernmental**

- Coordinate basic S&T message across Federal departments and agencies

EXECUTIVE OFFICE OF THE PRESIDENT  
OFFICE OF SCIENCE AND TECHNOLOGY POLICY  
WASHINGTON, D.C. 20502

February 28, 1997

MEMORANDUM FOR ERSKINE BOWLES

FROM: JACK GIBBONS *TJ/JAG*

SUBJECT: OSTP GOALS AND OBJECTIVES

The following memo outlines the goals and objectives of the Office of Science and Technology Policy for the next 6-12 months.

GOAL: Science and Technology Leadership

Objectives:

- Strengthen government partnership with research universities: Complete ongoing interagency review and finalize recommendations (NSTC PRD-4)
- Improve state-federal technology coordination: Implement USIP agreement with Governors
- Improve environment for private sector investment in innovation: Initiate interagency review of legal/regulatory/tax impacts on private sector innovation
- Improve information technology: Develop government/industry/university partnership to implement the objectives of the Next Generation Internet initiative; implement expanded interagency research program in high performance computing and communications;

GOAL: Education/Training

Objectives:

- Develop an inventory and recommendations regarding protocols and materials that support 8<sup>th</sup> grade math standards and achievement by all students.
- Promote the connection of all schools, libraries, and hospitals to the Internet, including policies for transferring government computers.
- Improve technology for education/training: Design and implement an interagency program of research in education/training technology. Develop and implement joint civilian/military (federal) procurement specifications for federally purchased instructional software. Form interagency team to expand the America's Job Bank program in the Department of Labor so that it can provide information and evaluations of training available over the Internet.
- Use Presidential Awards for science and math teaching, mentoring, and research to highlight POTUS education initiatives.

GOAL: Environment

Objectives:

- Climate Change: Develop analyses for climate change negotiations (long-term greenhouse gas emission-concentration scenarios; technology specification for near-term US emissions; initiate a national assessment on the impacts of climate change)
- Endocrine Disruptors: Develop coordinated federal research strategy and initiate an international science assessment
- Environmental and Monitoring and Research Initiative: Improve coordination of the \$650 million of relevant agency and interagency programs; develop a draft report card on the health of the nation's ecosystems (final report card requested by VPOTUS to be issued in 2001).
- Environmental Technology: Initiate and complete interagency review to develop low fossil fuel energy strategy for the Nation (renewables, including solar and wind technologies, biomass coupled with advanced turbine technologies; efficiency efforts, such as PNGV and Buildings Initiative)

Goal: National Security and Global Stability

Objectives:

- Coordinate USG activities to implement President's December decision to dispose of excess U.S. plutonium; lead U.S. delegation to the U.S.-Russia Joint Plutonium Disposition Steering Committee and initiate demonstrations of disposition technologies with Russia.
- Work with the President's Commission on Critical Infrastructure Protection and National Communications System to evaluate potential threats; (release OSTP study of the information network reliability/domestic infrastructure security)
- Lead interagency efforts to implement Presidential Decision Directive NSTC-7 addressing emerging infectious disease
- Build science and technology cooperation with Russia that supports foreign policy goals
- Expand science and technology cooperation and dialogue for sustainable development with senior Chinese leadership, supporting the establishment of the Sustainable Development Forum
- Develop an interagency S&T strategy for expanded cooperation with Japan, with particular consideration of Japan's plans for substantial expansion of S&T investments.
- Coordinate technical agencies development of S&T cooperation strategies to support Vice Presidential Commissions with South Africa, Egypt, and Ukraine.

**GOAL: Balancing the Budget**

**Objective:**

- Develop joint OSTP/OMB budget guidance and work with NSTC agencies to develop FY99 budget requests that maintain S&T leadership within balanced budget framework

**GOAL: Health**

**Objectives:**

- Work with HHS to ensure research and educational capacities of academic health centers in a managed care environment.
- Improve coordination among HHS, DOD, and VA on issues related to the health of deployed troops and veterans.
- Work with OMB and other federal agencies to develop a the necessary science base to support full implementation of HACCP regulations.

**GOAL: Children's Development**

**Objective:**

- Implement NSTC recommendations to develop an expanded research initiative focused on children's health, education, and development.

**GOAL: Space and Aeronautics**

**Objectives:**

- Provide overall policy lead within the Administration on space and aeronautic issue
- Coordinate domestic and foreign policy issues related to the successful development the International Space Station
- Maintain Congressional support and interagency coordination on additional key initiatives: environmental research from space, space science, and new vehicles to replace the space shuttle
- Implement President's policy to use GPS to enhance economic competitiveness while protecting U.S. national security and foreign policy.  
Implement White House Aviation Safety and Security Commission recommendations on advanced air traffic control