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Committee for National Security Meeting, 10/03/00

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OFFICE OF THE DIRECTOR OF
DEFENSE RESEARCH AND ENGINEERING
3040 DEFENSE PENTAGON
WASHINGTON, D.C. 20301-3040

September 27, 2000

MEMORANDUM FOR MEMBERS OF THE NATIONAL SCIENCE AND TECHNOLOGY
COUNCIL, COMMITTEE ON NATIONAL SECURITY

SUBJECT: Committee on National Security Meeting on October 3, 2000

The next meeting of the Committee on National Security (CNS) will be on Tuesday, October 3, 2000, from 1430 to 1600 (2:30 PM to 4:00 PM) in Room 3D1019, the Pentagon, as previously scheduled. The classification of the meeting will be Secret. We will coordinate with your office, if we do not yet have your clearance on file.

The draft agenda and other read-ahead material form the following attachments:

- a. Draft agenda.
- b. Minutes of the previous meeting held April 28, 2000. These minutes were distributed to committee principals on August 30, 2000.
- c. Briefing charts for Critical Infrastructure Protection and Weapons of Mass Destruction R&D.
- d. Briefing charts for International Technology Transfer Working Group.
- e. Briefing charts for Non-Proliferation and Arms Control Technology Working Group
- f. Briefing charts for special report on the National Technical Means Users' Conference of September 14, 2000.

We look forward to your joining us on October 3, 2000. If you have any questions, I can be reached at (703) 588-7418, fax (703) 588-7560, e-mail SLOTTERLE@ACQ.OSD.MIL, or you can contact Ms. Betty Marcellino at (703) 588-7400. If you need assistance when you reach the Pentagon, please call (703) 695-0598.

Lewis E. Slotter, II
Executive Secretary
Committee on National Security

Attachments:
As stated



Committee on National Security

September 27, 2000

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A

DRAFT

Agenda for the Meeting of the
National Science and Technology Council
COMMITTEE ON NATIONAL SECURITY

October 3, 2000

1430-1600 (2:30 p.m. – 4:00 p.m.)

Pentagon, Room 3D1019

I. INTRODUCTION

II. STATUS OF CURRENT EFFORTS

- Critical Infrastructure Protection and Weapons of Mass Destruction R&D- Overview of Research & Development Agenda and Update on Institute for Information Infrastructure Protection (I3P)
- International Technology Transfer Issues & Policy- Status of Agency Review of Executive Order Revisions
- Non-Proliferation & Arms Control Technology- Overview of Annual Report
- Report on National Technical Means Users' Conference

III. OTHER BUSINESS

IV. CLOSING REMARKS

- Set next meeting date and agenda priorities

DRAFT

B

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

NSTC COMMITTEE ON NATIONAL SECURITY

Minutes of the April 28, 2000, Meeting

The Committee on National Security (CNS) held its twenty-first meeting on April 28, 2000. The principals attending the meeting were:

Dr. Gerald Epstein, Co-Chair	Assistant Director for National Security, White House Office of Science & Technology Policy (OSTP)
Dr. Jacques Gansler, Co-Chair	Under Secretary of Defense (Acquisition, Technology, and Logistics)
Mr. William Reinsch	Under Secretary of Commerce for Export Administration
Ms. Kelly H. Carnes	Assistant Secretary of Commerce for Technology Policy
Ms Lynn Cline	Deputy Associate Administrator, National Aeronautics and Space Administration
Dr. Douglas Elmendorf	Deputy Assistant Secretary for Micro Economic Analysis, Department of the Treasury
Ms. Rose Gottemoeller	Acting Deputy Administrator for Defense Nuclear Nonproliferation, Department of Energy
RADM J. A. Kinghorn	Director, Office of Intelligence and Security, Department of Transportation
Dr. Robert Knouss	Director, Office of Emergency Planning, Department of Health and Human Services
Dr. Peter Zimmerman	Science Advisor to the Assistant Secretary, Arms Control Bureau, Department of State

The primary purpose of the meeting was to receive status reports and review the activities of the Critical Infrastructure Protection (CIP) R&D Interagency Working Group (IWG), the International Technology Transfer Issues and Policy (ITTIP) Interagency Working Group, and the Nonproliferation and Arms Control Technology Working Group (NPAC TWG). The meeting agenda is attached.

I. INTRODUCTION

Dr. Gerald Epstein, Assistant Director for National Security, OSTP, and CNS co-chair, opened the meeting. He asked the CNS principals for any comments on the

minutes of the last meeting. There were no comments or changes, and the minutes were approved.

II. CURRENT EFFORTS

A. Critical Infrastructure Protection R&D Interagency Working Group

Dr. Epstein introduced Dr. Steven Rinaldi, OSTP, who provided an update on the progress and activities of the CIP R&D IWG. Dr. Rinaldi stated that the President's FY2001 budget request included a 31% increase for CIP R&D of which \$81 million was for new programs (\$50 million for the new Institute for Information Infrastructure Protection (I3P), funded by the National Institute of Standards and Technology (NIST), and \$31 million for new programs in various agencies). The primary ongoing IWG efforts include:

- Developing the FY2002 CIP R&D agenda;
- Beginning intense coordination of the R&D agendas of four key technologies (infrastructure interdependencies, intrusion detection, public key infrastructures for advanced network technologies, and response/recovery/reconstitution technologies);
- Drafting and vetting an international CIP R&D cooperation policy; and
- Holding workshops with government, private sector, and academic experts to help refine the CIP R&D agenda.

The President's Committee of Advisors on Science and Technology (PCAST) proposed in December 1998 that the government establish a joint private-sector/government, nonprofit R&D Institute for Information Infrastructure Protection. As envisioned by PCAST, this Institute would perform research on crucial information security technologies that neither the government nor private sector were addressing, and would be flexible and nimble enough to keep up with the explosive growth of information technology. As currently envisioned, the Institute would have a small core staff, and most of its R&D would be done extramurally. The private sector has strongly supported PCAST's proposal. OSTP and NIST have jointly prepared a white paper on the organization and functions of the I3P for review by the PCAST Security Panel in May.

At the last CNS meeting, the principals directed the IWG to reexamine the issue of ensuring an adequate supply of CIP researchers and professors, particularly in information security technologies. The IWG found universal agreement in the private sector and academia that there is a serious shortage of research-oriented university programs and an inadequate number of graduate students to meet the growing demands of CIP R&D. The lack of qualified instructors is a major obstacle to maintaining a high level of activity in information security education. Industry is generally unable, or unwilling, to invest the time and resources to develop information security researchers

internally. DoD funds approximately 50% of all computer science work in universities; where appropriate, it might be possible to redirect funding into information security technologies and research. The IWG recommended that it determine what, if any, efforts are ongoing in the government to address this issue and provide policy recommendations for CNS consideration. There were no objections to the IWG recommendation.

B. International Technology Transfer Issues and Policy Interagency Working Group

Dr. Epstein introduced Dr. Gerald Hane, OSTP chair of the ITTIP IWG. Dr. Hane provided an update of IWG's activities.

The IWG is working on three case studies. The presentation focused primarily on one case—International Technology Transfer and the Federal Laboratories—that the IWG has studied in detail during the past two years. Dr. Hane reviewed the issues examined by the IWG, the guidance provided in the existing executive order (E.O. 12591, dated April 10, 1987), and the variability in current ITT practices. Based on its case study, the IWG recommended that an amendment to E.O. 12591 be developed that:

- Directs consideration of the impact of foreign participation in cooperative agreements on the competitiveness of U.S. industry;
- Clarifies agency roles in routine interagency consultations;
- Defines thresholds that would trigger interagency consultations to assess potential national security and economic competitiveness issues; and
- Defines a process for possible higher level review if urgent policy questions remain unresolved.

It was emphasized that this procedure would not compromise the authority of agencies to approve or disapprove technology transfer agreements (i.e. cooperative research and development agreements and exclusive licenses involving foreign entities). The consultations are not approval processes, but opportunities to bring more information into a discussion.

Under the interagency consultation process, an Interagency Working Group on Technology Transfer (chaired by DOC) would review technology transfer agreements that meet the threshold criteria. An NSTC Deputies Group would have the option to consider urgent policy questions that the working group could not resolve. These reviews would be conducted within the statutory time periods for processing technology transfer agreements.

Several principals noted reservations regarding the proposed amendments to E.O. 12591, with a particular concern regarding the recommendations regarding interagency

review. The principals agreed to review the E.O. amendments and provide comments to OSTP in two weeks. Dr. Epstein asked that the comments be sent to him so he can consolidate them for an early CNS meeting that would focus primarily upon the amendments, if such a meeting was deemed appropriate and necessary.

In its Rocket Motor Casing Manufacturing case study, the principal issues of concern were noted as the following

- Timelines associated with the decisions in the case;
- Availability of comparable foreign technology;
- Transparency of the appeals process; and
- The degree of interagency consultations.

The draft report was circulated to the CNS principals for review. It was noted that the treatment of communications satellite export controls by State Department makes an attempt to address each of these issues and may be a reference for dealing with comparable situations in the future. The outstanding question is whether CNS principals feel that they should urge the State Department to implement the review of these issues in other cases in which the technologies under question have substantial international civilian, commercial markets.

In its Coproduction of M109 Howitzer case study, the IWG found different interpretations of policy and questions of oversight of the activity. As with the rocket motor case study, the IWG examined whether the CNS should review contentious issues in future international technology transfer cases given that there is currently no established interagency review process.

Mr. Reinsch stated that a draft memorandum of understanding (MOU) that would establish a formal international agreement coordination process between DoD, Commerce, and State had recently been distributed for comment. The principals agreed that their respective staffs would review the proposed document.

In a related manner, Dr. Epstein informed CNS that the Commerce Department has asked the National Security Council to conduct an interagency process to clarify issues associated with "deemed exports" of technical data -- the communication within the United States of export-controlled technical data to foreign nationals. Dr. Epstein asked CNS Principals to provide OSTP with the names of the agency points of contact that could participate in the interagency group on export control of technical data and foreign scientific communications issues.

C. Nonproliferation and Arms Control Technology Working Group

Dr. Epstein introduced Ms. Sallie Mullen (Department of State). Ms. Mullen provided an update of the activities of the NPAC TWG. The annual report is behind

schedule and is now expected to be finished by the third week of May. She indicated that DOS had created a key verification assets fund for technology preservation and development in support of arms control and nonproliferation treaties. DOS had requesting mid-year FY2000 funds to support three projects:

- Technology Assessment Group for CTBT;
- Chemical Weapons Convention "Second Laboratory;" and
- Rocket motor monitoring.

III. OTHER BUSINESS

Dr. Peter Zimmerman described the Precision Isotope Counting Experimental Setup (PIsCES), a project to develop an ultra-low-background facility for applied isotopic measurements. A laboratory currently exists at Gran Sasso, Italy, and the U.S. Naval Research Laboratory (NRL) has proposed to build a similar facility in the United States in a deep underground coal mine. Dr. Zimmerman asked the CNS to task the NPAC TWG to investigate the feasibility and utility of the NRL proposal. Ms. Mullen accepted the tasking.

IV. ACTION ITEMS

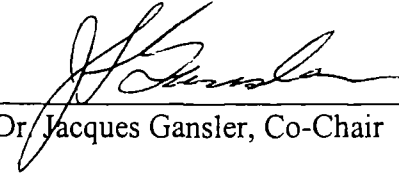
There action items from the meeting are as follows:

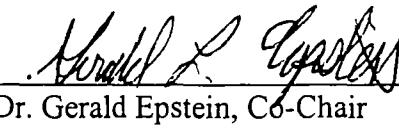
- The CIP R&D IWG will continue to examine the problem of insufficient numbers of qualified CIP research personnel; determine what, if any, efforts are ongoing in the government to address this issue; and provide policy recommendations to CNS principals for their consideration.
- The CNS principals will provide their comments on the proposed amendments to E.O. 12591 to Dr. Epstein within two weeks of receipt.
- The CNS principals will provide their points of contact for the interagency group on export control of technical data to Dr. Epstein.
- DoD, Commerce, State, and other interested agencies will review the draft MOU for a formal international agreement coordination process.
- The NPAC TWG will evaluate the NRL proposal for the PIsCES.

V. CLOSING REMARKS

The principals agreed to hold the next CNS meeting as soon as the amendments to E.O. 12591 are available.

Dr. Epstein adjourned the meeting.

 8/9/00
Dr. Jacques Gansler, Co-Chair (date)

 7/10/2000
Dr. Gerald Epstein, Co-Chair (date)

Attachment:
Meeting Agenda

Agenda for the Meeting of the
National Science and Technology Council
COMMITTEE ON NATIONAL SECURITY

April 28, 2000

1530-1700 (3:30 p.m. – 5:00 p.m.)

Pentagon, Room 3D1019

I. INTRODUCTION

II. STATUS OF CURRENT EFFORTS

- Critical Infrastructure Protection R&D- Overview of Technical Plans & Status of Institute for Information Infrastructure Protection (I3P)
- International Technology Transfer Issues & Policy- Status of Executive Order
- Non-Proliferation & Arms Control Technology- Status of Annual Report
- Action Item Report on Working Group Coordination

III. OTHER BUSINESS

- Department of State Proposed New Business
 - Assessment of Low Level Radioactivity Monitoring Technology

IV. CLOSING REMARKS

- Set next meeting date and agenda priorities

C



CIP and WMDP R&D Subgroups

Update for the CNS

October 3, 2000

Terrence K. Kelly, Ph.D.
White House Office of Science and Technology Policy



Agenda

- **CIP Update**
 - **OMB/Budget Issues**
 - **I3P Status**
 - **Academic Researcher Initiative**
 - **Interim Report to the National Plan**
- **WMDP**
 - **OMB/Budget Issues**
 - **Biodetection Conference**
 - **Other Issues**
- **Questions**



Resources

Federal CIP and Related R&D FY2000 Funding

<u>FY98</u> <u>Actual</u>	<u>FY99</u> <u>Actual</u>	<u>FY00</u> <u>Enacted</u>	<u>FY01 President's</u> <u>Budget</u>
\$406 M	450	461	606

- **FY01 budget submission contains substantial R&D increase (31%)**
- **FY01 R&D budget is about 1/3 of overall critical infrastructure protection program funding**
- **New CIP budget requests are not faring well in Congress**



OMB/Budget Issues

- Election Year means no “Policy Budget”
- Anticipating 2 OMB Data Calls to strengthen process
- A preliminary round to confirm Pres Budget data (underway)
- First call to confirm FY 01 Enacted Budget data (anticipate in mid-October)
- Second to build next administration’s program (after inauguration)



Transition

- Ground work for FY 02 Budget already in place
- Have identified key gaps and shortfalls in most subgroups
- Have identified potential programmatic fixes, but must await new administration's guidance



Institute for Information Infrastructure Protection

- House CJSJ Appropriations bill and Senate Committee bill do not fund the I3P -- not in authorization bills either
- PCAST and APST have had some access to key members on Hill
- Need a new paradigm for funding fast-moving R&D in non-traditional places
- Updates?



Academic Research Initiative

- Lack of researchers and professors in infosec previously identified as an issue area
- OSTP has conducted extensive outreach to academia, industry, government and non-traditional communities to get suggestions
- Feedback continues to be supportive -- specific proposals yet to be drafted
- Hope to have final report completed this CY



Interim Report

- National Coordinator for Security, Infra Protection and Counter-Terrorism led effort
- Not “Version 2.0” of the National Plan, rather an interim report
- R&D Section aligned with subgroups, and I3P
- Anticipating completion in Dec 2000
- Basis for “hand-off” to new Administration



WMDP OMB/Budget Update

- WMDP also part of National Security Cross-cut, so anticipating same data calls as CIP
- Recently added new subgroup on Agricultural issues that do not fit in other subgroups
- In process of articulating needs that require new programs



Biodetection Conference

- NSC/OSTP chaired biodetection conference on September 8
- Widespread, senior participation
- Morning session laid out state of the art and practice in government
- Afternoon session focused on policy issues to be addressed
- NSC/OSTP producing vision of how to proceed



Other WMDP Issues

- Ongoing efforts with allies to address BW/CW domestic preparedness issues
- Upcoming international meetings



Questions

???

D

Working Group on International Technology Transfer

Committee on National Security

October 3, 2000

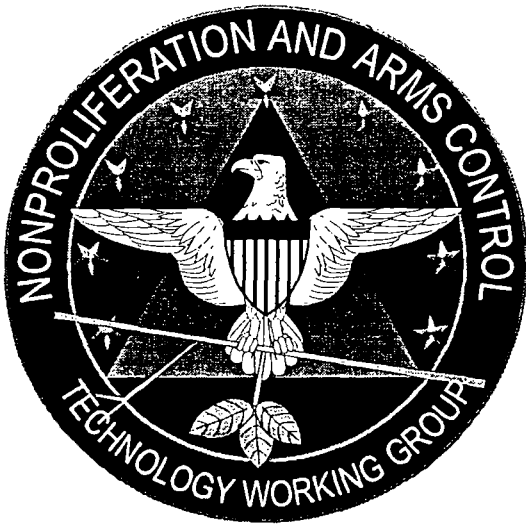
Working Group on International Technology Transfer

- International Technology Transfer and the Federal Laboratories
 - Received final comments in August
 - Points of disagreement unchanged
 - Necessity of interagency review
 - Definition of threshold of review
 - Monetary value AND manufacture in the US versus Monetary value OR manufacture in the US
 - Process of escalation to CNS or a deputies group
 - Congressional interest regarding resolution

Other Projects

- Rocket Motor Casing Manufacturing
 - Points to a need for an appeals process
 - Does CNS wish to explore this role?
- M109 Howitzer
 - MOU under discussion between DOC and DOD and others

E



Nonproliferation and Arms Control Technology Working Group

View From the Chair

Dr. Anna Johnson-Winegar

Committee on National Security

3 October 2000



Overview

- Organizing principles
- Focus group activities
- Symposium
- Proposed reorganization



Organizing Principles

- Promote information sharing and identify opportunities for collaboration
- Review R&D programs to identify gaps and overlaps
- Advise agencies on R&D priorities
- Frame issues and differences for adjudication
- Identify areas in need of high-level attention



Focus Group Activities

- Active Electro-optics
 - ▾ Coordinated 23 projects worth \$52M
 - ▾ Interagency linkages strengthened significantly
 - ▾ Argus aircraft in need of emergency \$\$\$
 - ▾ Recommended increased funding for long- and medium-wave infrared R&D



Focus Group Activities (continued)

- Ballistic Missile Sensors
 - ▾ Recommended increased funding for several platforms and sensors
 - ▾ Long-term goal to provide small, light-weight, omni-directional gravity gradiometer to distinguish nuclear from non-nuclear warheads
 - ▾ Advanced coherent imaging radar antenna concept proposed



Focus Group Activities (continued)

- Biological Weapons Detection
 - ▼ Coordinated 80 projects funded at \$94.5M
 - ▼ Recommended
 - Creation of BW process action team to provide mission-specific collection technology
 - Development of screening and detection technologies to share with international bodies responsible for treaty verification



Focus Group Activities (continued)

- Chemical Weapons Detection
 - ▼ Coordinated 42 projects funded at \$62M
 - ▼ Recommended
 - Increased emphasis on standoff detection in atmospheric and surface water media
 - Increased interaction with Department of Commerce with respect to inspecting commercial chemical facilities
 - Collaborate with civilian agencies for first-responder activities



Focus Group Activities (continued)

- Fieldable Nuclear Detectors
 - ▼ Coordinated 12 projects funded at \$30M
 - ▼ Recommended
 - Increased participation by DoE research offices
 - Address issue of proliferation of radiation detection technology
 - Develop accurate hand-held system to identify range of isotopes



Focus Group Activities (continued)

- Nuclear Test Monitoring
 - ▾ Coordinated projects funded at \$90M covering seismological, hydroacoustic, infrasound, radioactive particles and gases, satellite-borne sensors, database, and field measurement R&D
 - ▾ Recommended inclusion of CTBT monitoring sensors on replacement satellites



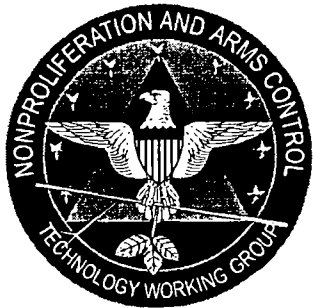
Focus Group Activities (continued)

- Proliferation Modeling
 - ▼ Funded search of RAND's RADIUS and other databases to identify models that could be applied to nonproliferation
 - ▼ Attempted to contact all POCs to determine status of programs
 - ▼ Developed web-based interface for database of models



Focus Group Activities (continued)

- Unattended Remote Sensors
 - ▼ Coordinated 13 programs funded at \$25M
 - ▼ Recommendations:
 - More real-world testing and coordination among developers of sensor systems
 - Establish and disseminate list of all major test beds, ranges, facilities, opportunities, technologies investigated across community
 - More R&D in low-power microprocessors



Focus Group Activities (concluded)

- Underground Facilities
 - ▼ Coordinated 34 programs funded at \$60M from 16 agencies and 4 national labs
 - ▼ Held joint meetings with Worldwide Underground Facilities Subcommittee of the Foreign Denial and Deception Committee



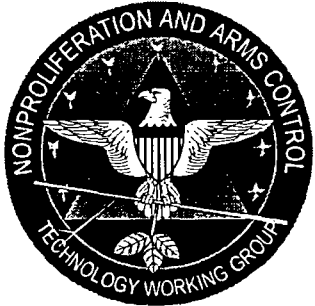
Fifth Annual Symposium

- 325 attendees, lots of new faces
- 2 Panels on Future Technology Directions
- Nine 2-hour Focus Group Workshops
- Very positive response, requests for longer workshops
- Strong sense of community



Sixth Symposium

- 6-8 March 2001 at State Department
- Considering 2 day symposium followed by one-day business meeting



Proposed Reorganization

- Combine Spectral Sensing and Active Electro-Optics Focus Groups. Need to collaborate in addressing acquisition, pointing, tracking, spectral signatures and backgrounds, data fusion
- Decided against merging Chemical and Biological Sensing Focus Groups, but will have one joint meeting per year

F



Bureau of Verification & Compliance

**NTM Users' Conference of
14 September 2000**

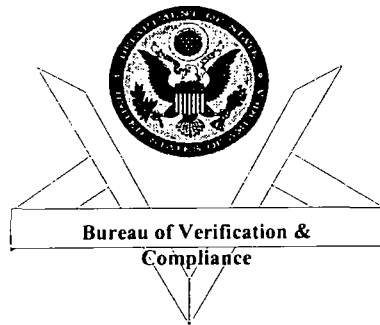
**Presentation to CNS
Dr. O.J. Sheaks**



Overview



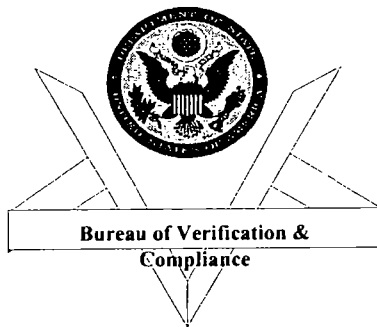
- ◆ **Background**
- ◆ **Conference goals**
- ◆ **"Sense of the Community"**
- ◆ **Next steps**



Background



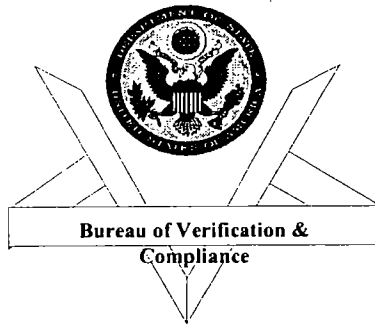
- ◆ **Sensors provide critical information for, among others:**
 - ◆ **Arms control verification**
 - ◆ **Missile threat characterization**
 - ◆ **Proliferation detection**
 - ◆ **Target development**
- ◆ **ALL are important to warfighter**
- ◆ **Funded by DoD**



Background (concluded)



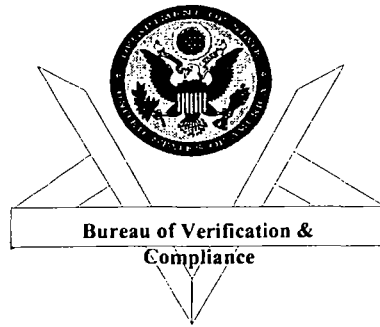
- ◆ **National assets have fallen victim to shortfalls in DoD budget**
- ◆ **Battles have been fought to preserve assets, but they are becoming increasingly difficult to win**



Conference Goals



- ◆ **Provide forum for all stakeholders to express their view of problem**
- ◆ **Cement partnerships between national customers and warfighters**
- ◆ **Overall goal: preserve sensors for the long term**



“Sense of the Community”



- ◆ **70 senior representatives from 22 government agencies/entities, 3 DOE labs, 2 commands attended**
- ◆ **Agreement that conference was important “first step”**
- ◆ **Resource competition between near-term (e.g., operations) and long-term (e.g., sensor) req'ts**



“Sense of the Community” (concluded)



- ◆ **Too many demands placed on declining collection resources**
- ◆ **Diplomatic/intelligence preparedness as important as military preparedness**
- ◆ **MASINT disadvantages:**
 - ◆ **Complicated/not readily understood**
 - ◆ **Benefits not as obvious**



Next Step



◆ Arrive at plan for:

- ◆ Ensuring national leadership emphasizes need for robust intelligence capabilities
- ◆ Making better effort with Congress to ensure MASINT is a priority
- ◆ Ensuring sensor recapitalization viewed as priority by increasing budget topline