

***Industry, commerce,  
and international  
security division***



The Industry  
Commerce, and  
International Security  
Division comprise five  
research Programs:  
Energy and Materials;  
Industry, Technology  
and Employment;  
International Security  
and Commerce;  
Science, Education,  
and Transportation; and  
Telecommunication  
and Computing  
Technologies,

The Energy and Materials Program is responsible for assisting the Congress in understanding the role of technology in developing energy and materials resources and the consequences of these developments for society. The Program helps the Congress progress toward rational resource development such that economic **growth is maintained, undesirable side effects are kept to a minimum, and the resource base is sustained for future generations.** The Program covers those technologies that concern the **extraction, delivery, and the use of energy and materials.** The Program also analyzes world energy and materials markets and policies, especially the implications of U.S. imports and exports of energy and materials.

The Industry, Technology, and Employment Program examines how technology affects the ability of U.S. industry to contribute to a healthy national economy. This includes consideration of the competitiveness of U.S. industries in international markets; trade and economic development issues; the number and nature of employment opportunities in the U.S. economy; needs for worker education, training and retraining; and ways to ease adjustment in structural economic transitions. The ITE Program is concerned with the role of technology in examining the competitive position of both basic and new industries, with the development and dissemination of pre-competitive technologies, and with the quantity, nature, and quality of jobs in the U.S. economy.

The International Security and Commerce Program deals with the role of technology in national security, exploration and commercialization of space, and international technology transfer. The Program's work in national security focuses on assessment of the likely impacts of technological considerations on national security, including international stability, terrorism, diplomacy,

alliance relations, arms control, deterrence, and defense. Assessment of issues related to the nation's defense industrial and technology base is an increasing part of ISC'S work. The Program's work on space involves a broad range of issues, such as space transportation, international cooperation and competition in civilian space activities, and other areas in which technological progress, civilian exploration, commercial uses of space, and national security must all be reconciled.

The Science, Education, and Transportation Program includes efforts focusing on the Federal government's role in national transportation systems and policy; it includes a variety of efforts related to the Federal Government's role in maintaining the health of the U.S. scientific enterprise, especially allocation and decision methods available to the Congress to support and manage research and development; and, finally, the Program activities include a strong focus on the role of technology in enhancing learning in schools as well as in non-school educational systems.

The Telecommunication and Computing Technologies Program is concerned primarily with the changing role of telecommunications and computing technologies in the nation's industry, commerce, and government. The core responsibilities of the Program require monitoring the research and development of new information technologies and assessing the state-of-the-art in these areas as well as the pace and direction of basic research and development. The Program also studies telecommunications regulation, information policy, and applications of information technology in the public sector.

In FY 1993, the Industry, Commerce, and International Security Division published 17 assessment reports and 10 background papers.

U.S. Banks and International Telecommunications, October 1992

Requested by:  
House Committee on Foreign Affairs  
Senate Committee on Finance

Industrial Energy Efficiency, April 1993

Requested by:  
Senate Committee on Governmental Affairs  
Senate Committee on Energy and Natural Resources  
House Committee on Energy and Commerce

House Committee on Government Operations  
House Committee on Science, Space and Technology

Data Format Standards for Civilian Remote Sensing Satellites, May 1993

Requested by:  
House Committee on Science, Space and Technology  
Senate Committee on Commerce, Science, and Transportation

Access to Over-the-Road Buses for Persons with Disabilities, May 1993

Requested by  
Mandated under Public Law 101-336

Advanced Network Technology, June 1993

Requested by:  
House Committee on Science, Space and Technology  
Senate Committee on Commerce, Science and Transportation

The 1992 World Administrative Radio Conference: Technology and Public Implications, June 1993

Requested by:  
Senate Committee on Commerce, Science and Transportation  
House Committee on Energy and Commerce

Defense Conversion: Redirecting R&D, June 1993

Requested by:  
Senate Committee on Foreign Relations  
Senate Committee on Labor and Human Resources  
Senate Committee on Commerce, Science and Transportation  
Senate Committee on Labor and Human Resources  
Senate Committee on Armed Services  
House Committee on Interior and Insular Affairs  
House Committee on Government Operations

Energy Efficiency Technologies for Central and Eastern Europe, July 1993

Requested by:

Senate Committee on

Environment and Public Works

House Committee on Foreign Affairs

House Committee on

Energy and Commerce

Senate Committee on Foreign Relations

Who Goes There: Friend or Foe?,

July 1993

Requested by:

House Committee on Armed Services

Adult Literacy and New Technologies:

Tools for a Lifetime, July 1993

Requested by:

House Committee on Education and Labor

Senate Committee on

Labor and Human Resources

Endorsed by:

Joint Economic Committee

The Future of Remote Sensing for

Space: Civilian Satellite Systems and

Applications, July 1993

Requested by:

House Committee on

Science, Space and Technology

Senate Committee on Commerce, Science

and Transportation

The Chemical Weapons Convention:

Effects on the U.S. Chemical Industry,

August 1993

Requested by:

Senate Committee on Foreign Relations

Senate Committee on Governmental Affairs

Development Assistance, Export

Promotion, and Environmental

Technology, August 1993

Requested by:

House Committee on Foreign Affairs

House Committee on Energy and

Commerce

Senate Committee on Finance

Accessibility and Integrity of Networked Information Collections, August 1993

Aging Nuclear Power Plants: Managing Plant Life and Decommissioning,

September 1993

Requested by:

Senate Committee on Governmental Affairs

House Committee on

Energy and Commerce

Proliferation of Weapons of Mass

Destruction: Assessing the Risks,

September 1993

Requested by:

Senate Committee on Foreign Relations

Senate Committee on Governmental Affairs

Multinationals and the National

Interest: Playing by Different Rules,

September 1993

Requested by:

Senate Committee on

Commerce, Science and Transportation

U.S. Telecommunications Services in

European Markets, September 1993

Requested by:

House Committee on Foreign Affairs

Senate Committee on Finance

Pulling Together for Productivity: A Union

Management Initiative at U S West, Inc.,

September 1993

Requested by:

Senate Committee on

Commerce, Science and Transportation

Protecting Privacy in Computerized

Medical Information, September 1993

Requested by:

Senate Committee on Governmental Affairs

House Committee on

Government Operations

Making Government Work: Electronic

Delivery of Federal Services,

September 1993

Requested by:

Senate Committee on Governmental Affairs

Contributions of DoE Weapons Labs and NIST to Semiconductor Technology,

September 1993

Requested by:

Hon. Ernest F. Hollings

Energy Efficiency: Challenges and

Opportunities for Electric Utilities,

September 1993

Requested by:

Senate Committee on Governmental Affairs

Senate Committee on

Energy and Natural Resources

House Committee on

Energy and Commerce

House Committee on

Science, Space and Technology

House Committee on Government

Operations

Aircraft Evacuation Testing: Research

and Technology Issues, September 1993

Requested by:

House Committee on

Science, Space and Technology

Potential Environmental Impacts of

Bioenergy Crop Production,

September 1993

Requested by:

House Committee on

Science, Space and Technology,

House Committee on Energy and

Commerce

Biopolymers: Making Materials

Nature's Way, September 1993

Requested by:

Senate Committee on

Energy and Natural Resources

Information Systems Related to

Technology Transfer: A Report on Federal

Technology Transfer in the United States,

September 1993