

A cosmic background featuring a starry field with blue and white stars, a faint nebula, and a large, reddish-brown planet (Mars) on the right side. The text is overlaid in white.

# Report on the Activities of the Space Policy Institute

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# Elliott School of International Affairs

## The George Washington University (est. 1821)

### Washington D.C.

Our mission is:

- To educate the next generation of international leaders
- To conduct research and produce scholarship that advances understanding of important global issues
- To engage the public and the policy community in the United States and around the world, thereby fostering international dialogue and shaping policy solutions



# The Elliott School of International Affairs

- Undergraduate and graduate academic programs in international affairs
  - Over 700 students in 12 graduate programs
  - Over 2,100 undergraduates enrolled
  - Over 16,000 alumni since 1988
- Six major centers and institutes (research and teaching)
- Eight research and policy programs (research and dialog with policy-makers)
- Visiting scholars
- Affiliations within GW University and with other research centers in Washington D.C. and overseas
- Unique location— near the White House, World Bank, International Monetary Fund, U.S. Department of State, and dozens of other U.S. and international organizations

# Center for International Science and Technology Policy

- Program in Science and Technology Studies initiated in 1965; renamed CISTP to reflect its international focus in 1988. Conducts policy research and oversees graduate students.
- About 15-20 new students each year
  - About half in space policy, 10 admitted for Fall 2009
- Primary Degree program:
  - Master of Arts in Science, Technology and Public Policy
- Provides a field of study for doctoral students in other programs within GWU
  - Close relationship with the School of Public Policy and Public Administration (Ph.D. program)
  - Relationship with School of Engineering

# Space Policy Institute

- SPI is the only research institute of its type in the U.S.
  - Established in 1987 as a research program within CISTP
- Close affiliations with NASA and other space agencies
- Faculty also affiliated with the International Space University (summer programs and executive education)
- Cooperative projects with the Eisenhower Center, MIT, Secure World Foundation, etc.
- Research:
  - History of space programs
  - Space program management
  - Dual-use space technologies
  - Economic impacts of space expenditures
  - Space Law
  - International cooperative space agreements

# SPI Affiliated Faculty

- Scott Pace, (Ph.D., RAND Graduate School) Director of Space Policy Institute. U.S. and international space policy issues
- Henry R. Hertzfeld, (J.D., George Washington University, Ph.D., Temple University) Research Professor of Space Policy and International Affairs. Economic and legal issues of space policy
- Pascale Ehrenfreund, (Ph.D. Thesis University of Vienna/ University Paris VII) Research Professor of Space Policy and International Affairs. Molecular Biology, Space Science
- Colleen N. Hartman, (Ph.D., Catholic University of America) Research Professor of Space Policy and International Affairs. Space and Earth Science and technology
- John M. Logsdon, (Ph.D., New York University) Research Professor of Space Policy and International Affairs and Professor Emeritus of Political Science and International Affairs. Space policy, security, space technology and history

# Graduate Education

- Representative Courses:
  - International Science and Technology Policy
  - U.S. Space Policy
  - Issues in Space Policy
  - Space Law
  - Space and National Security
  - Politics of Earth and Space Science
  - Economics of Technological Change
  - Technology Creation and Diffusion

# SPI Research

- Current research:
  - History of U.S. Civil Space Program
  - Biochemical experiment on International Space Station
  - Policy Aspects of Astrobiology
  - World Economic Dependence on Space
  - Space Industry Productivity and Inflation Rates
  - Lessons from the NORAD Experience for International SSA Collaboration
  - Space Deterrence
  - Improving space and Earth science mission program management

# Recent Visiting Scholars

- Myoung-Hwan Ahn, Korea Meteorological Administration
- Charles Otegbade, International Space University, France
- Yuichiro Nagai, Nihon University, Japan
- Daichi Harada, Japanese Ministry of Education, Culture, Sports, Science and Technology
- Anna Burzykowska, Polish Space Office
- Zhou Yi, Chinese Academy of Space Science and Applications
- Roberto Vasconcellas, University of Sao Paulo, Brazil
- Evelyne Greneche, College de Polytechnique, France
- Wang Cheng, Chinese National Space Administration
- Eun-Chul Choi, Ministry of Science and Technology, Korea
- William S. Marshall, United Kingdom
- Daisuke Saisho, Japanese Aerospace Exploration Agency
- Eiichiro Watanabe, Ministry of Economics, Technology, and Industry, Japan

# Recent Institute Events

- Symposia
  - “Space Policy in Transition” December 2008
  - “Aligning Policies and Budgets” June 2009
- Workshops and Seminars
  - Trans-Atlantic Issues in Earth Observation, November 2008
  - Space Deterrence, March 2009
  - Future of Human Space Flight, May 2009

# Guest Speakers and Lectures

- NASA Associate Administrator for Science Ed Weiller
- NASA Ames Center Director Pete Worden
- Damon Wells, Office of Science and Technology Policy
- Peter Marquez, National Security Council
- Gil Klinger, National Reconnaissance Office
- Richard Buenneke and Ken Hodgkins, State Department
- House and Senate Congressional Staff
- NASA Administrator Mike Griffin
- Acting Administrator Chris Scolese
- Tom Young, former Lockheed CEO
- General Les Lyles, USAF (ret.)
- Peter Wegner, Director Operationally Responsive Space Office
- General Kevin Chilton, Commander, U.S. Strategic Command
- Brett Alexander, Personal Spaceflight Federation

# Public Engagement

- Faculty

- Congressional Testimony

- Space Situational Awareness

- Briefings to Presidential Transition Team

- Membership on and briefings to Federal Advisory Committees

- Participation in studies by the National Academy of Sciences

- Students

- Space Generation Advisory Council

- Youth for Global Navigation Satellite System



# Joint Statement by the Space Policy Institute and European Space Policy Institute

- This 14 May 2009 joint statement by space policy institutes on both sides of the Atlantic highlights the [strategic economic importance of space](#) and points out areas for concrete cooperation and coordination between the US and Europe.
- Protection of the [radio spectrum](#) used by space services
- Protection of the space environment and mitigation of [orbital debris](#)
- Improving [space situational awareness](#)
- Promotion of open, [interoperable standards](#) for space systems
- Promotion of [open international markets](#) in space goods and services
- Encouragement of [international consultation](#) on domestic regulations affecting any commercial space sector.
- Encouragement of [international cooperation](#) through space projects, related to the global environment and explorations beyond low Earth orbit into the solar system and beyond.