

# AIAA Public Policy

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**Aeronautics and Space Engineering Board**

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# AIAA Overview

- AIAA is the world's leading professional society in the field of aerospace science, engineering and operations.
- Over 31,000 professional members world-wide
- Represent engineering profession (industry, academia, government) but also corporate members
- AIAA's vision is to be the shaping, dynamic force in the aerospace profession – the forum for innovation, technical excellence, and global leadership
- AIAA's mission is to address professional needs and interests of the past, current and future aerospace workforce and to advance the state of aerospace science, engineering, technology, operations and policy to benefit our global society.

# PPC Committee Focus and Structure

- The Public Policy Committee is built around two concepts: Industry focus and AIAA Strategic Imperatives. Its subcommittees include:
  - Aeronautics Policy
  - Astronautics Policy
  - Aerospace Energy & Environment Policy
  - Aerospace National Security Policy
  - Aerospace Workforce & Education Policy
- While the PPC focuses on policy issues within each of these areas, the AIAA Board has identified three specific strategic areas of policy focus for our organization:
  - Future Energy & Efficiency Technologies
    - Includes alternative fuels, the technologies to use them, and more efficient technologies and systems.
  - Aerospace and the Environment
    - Includes the reduction of aerospace systems' environmental impact, and using aerospace systems to monitor and mitigate climate changes
  - Workforce & Education
    - Includes retaining competent aerospace professionals, and developing future generations to meet the challenges and opportunities ahead.

# Public Policy Functions

- Formulation of key Institute issues
  - Closely coordinated with Technical Activities Committee
- PPC meets quarterly with monthly Executive Committee and Subcommittee conference calls
- Meetings generally held in conjunction with AIAA conferences
- 2011 AIAA policy events
  - **Congressional Visits Days** – March 15-16: Membership visit to Hill to discuss key issues
  - **Inside Aerospace Forum** – May 11: Senate Visitors Center – 2 topics: Acquisition “Valley of Death” and Cybersecurity Strategy
  - **August is for Aerospace** – August: Meetings with Members at home
  - Other forums and briefings on the Hill

## 2010-11 Capitol Hill Forums

- On Engineering Students, Their Motivations, and Their Job Aspirations: How can we grow and retain the next generation of our engineering workforce?
- Ensuring Safe Manned Space Flight: A Roundtable Discussion on Human Rating Requirements
- History of Space Exploration
- Commercial Satellite Industry: Remote sensing to daily communications.

## 2010-11 Capitol Hill Forums

- US Human Spaceflight: What's next?
- Satellites, UAVs, and National Defense
- International Treaties and Obligations: What are the rules?
- Transformation of the Nation's Air Traffic Management Capabilities and the Next Generation Air Transportation Systems
- International Partners and US Space Policy
- The Space Economy
- Space Debris: Human created barriers to space

## 2011 PPC Forums at AIAA Conferences

- Aerospace Sciences Meeting (ASM) – January
  - PPC session usually on Workforce and Education
  - Policy luncheon with keynote address
  - Open session for use by National Science & Technology Council (NSTC) to release Infrastructure Plan for comment
- Joint Propulsion Conference (JPC) – Summer
  - Wednesday is Public Policy day – keynote, session on Infrastructure
  - Open session for use by NSTC
- Space
  - Policy session
- Others as appropriate

# 2011 Key Issues

## Aeronautics

- Strategy for Recovery of Business and General Aviation

## Astronautics

- Assuring Strategic and Sustainable Direction for Space Policy
- Address the Growing Threat of Orbital Debris

## Energy and Environment

- Enabling Development of Alternative Fuels and Energy Efficient Aviation Systems
- Harnessing Aerospace Experience and Capabilities for Achieving Modern Earth and Climate Information Systems and Services



# 2011 Key Issues

## National Security

- Overcoming the Emerging Technology Acquisition “Valley of Death”
- Establishing and Implementing a Viable National Cybersecurity Strategy
- Improved Air Cargo Security and Scanning

## Workforce and Education

- Recruiting, Retaining and Developing a World-Class Aerospace Workforce
- Increasing Emphasis and Funding for Technology and Engineering in STEM

## AIAA Collaboration with ASEB

- Where/how can we help ASEB?
- Some suggestions for collaboration
  - Liaison from ASEB to PPC
  - Participation on panels and as keynote speakers
  - Possible ASEB session(s) at AIAA conferences
  - Joint sponsorship of forums and Hill briefings

# AIAA Annual Technical Conferences

- Aerospace Sciences Meeting
- Missile Sciences Conference
- Infotech@Aerospace/Unmanned Unlimited Conference
- Structures, Structural Dynamics and Materials Conference
- Aeroacoustics Conference
- Fluid Dynamics/Aerodynamics/Applied Aerodynamics/Plasmadynamics and Lasers/Thermophysics Conference

# AIAA Annual Technical Conferences

- Atmospheric Space Environments/Flow Controls
- International Conference on Environmental Systems Conference
- Aerodynamic Decelerator Systems Technology Conference
- International Space Planes and Hypersonic Systems Technology Conference
- International Energy Conversion Engineering Conf.

# AIAA Annual Technical Conferences

- Joint Propulsion Conference
- Guidance, Navigation, and Controls/  
Atmospheric Flight Mechanics/ Modeling &  
Stimulation Technologies Conference
- Aviation Technology, Integration, and  
Operations/ Balloon Systems/ Lighter-than-Air  
Technology Conference
- Space

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