Aerospace Industry Overview

Where am I now?
Where am I going?

AIAA Career Enhancement Committee
Why this briefing?

- Describe aerospace profession
- Orient job changers to industry
- Identify opportunities for growth

What do you want from this briefing?

Where am I now? Where am I going?
What is our profession?

- Aeronautics
  - Aviation & air transportation
  - Automotive & maritime applications
  - General industrial applications

Where am I now? Where am I going?
What is our profession?

- Astronautics
  - Launch vehicles
  - Space station
  - Satellites
  - Earth & Space Sciences
  - General industrial applications

Where am I now? Where am I going?
What are our disciplines?

- Aerospace Sciences
- Aircraft Technology and Operations
- Engineering and Technology Management
- Information and Logistics Systems
- Propulsion and Energy
- Space and Missile Systems
- Structures, Design and Test

Where am I now? Where am I going?
Extensive CFD used to develop shape for Shaped Supersonic Boom Demonstrator
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Information & Logistics Systems

- Information systems for test and program management
- Simulation of aerospace systems requires knowledge of aerospace disciplines

Where am I now? Where am I going?
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Engineering & Technology Management

- Waterfall
- Spiral
- Incremental Spiral
- Agile

- Manage projects more efficiently, to deliver more effective systems
- Multidisciplinary Design Optimization moving forward in project lifecycle
- Systems-of-Systems Approach
- Knowledge Management tools & techniques to improve productivity

Where am I now? Where am I going?
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Space & Missile Systems

- Move forward beyond our planet
- Preserve our freedom to do so

Where am I now? Where am I going?
AIAA Career Enhancement
Aircraft Technology & Operations

Where am I now? Where am I going?