Panel: Different Approaches for Transitioning Systems Engineering Research into Practice

D. Scott Lucero

**Office of the Deputy Assistant Secretary of Defense
for Systems Engineering**

18th Annual NDIA Systems Engineering Conference

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Engineering Within DoD

Systems Engineers creatively apply scientific principles across a broad portfolio of weapons, sensors, command and control, logistics, and business systems:

- To design, develop, construct and operate complex systems

- To forecast their behavior under specific operating conditions

- To deliver their intended function while addressing economic efficiency, environmental stewardship and safety of life and property

- *US Department of Defense is the World's Largest Engineering Organization*
- *Over 108,000 Uniformed and Civilian Engineers*
- *Over 39,000 in the Engineering (ENG) Acquisition Workforce*

Systems Engineering Research Center

Research Focus Areas:

– **Enterprise Systems and Systems of Systems**

– **Trusted Systems**

– **Systems Engineering and Systems Management Transformation**

– **Human Capital Development**

❶ Stevens Institute of Technology	❾ Missouri University of Science and Technology	⓰ Texas Tech University
❷ University of Southern California	❿ Naval Postgraduate School	⓱ University of Alabama in Huntsville
❸ Air Force Institute of Technology	⓫ North Carolina Agricultural & Technical State University	⓲ University of California - San Diego
❹ Auburn University	⓬ Pennsylvania State University	⓳ University of Maryland
❺ Carnegie Mellon University	⓭ Purdue University	⓴ University of Massachusetts Amherst
❻ Georgetown University	⓮ Southern Methodist University	㉑ University of Virginia
❼ Georgia Institute of Technology	⓯ Texas A&M University	㉒ Wayne State University
❽ Massachusetts Institute of Technology		

**140 journal and conference papers
88 technical reports**

NOTABLE PROJECTS
- **Tradespace and Affordability Methods, Tools, and Processes**
- **Security Engineering**
- **Capstone Marketplace**

SERC leverages expertise of over 400 researchers across the Nation

Panelists

- **Dr. Barry Horowitz**
  **Munster Professor of Systems and
     Information Engineering
  University of Virginia**

- **Tom McDermott, PhD**
  **Deputy Director and Director of Research
  Georgia Tech Research Institute**

- **Dr. Richard Turner**
  **Distinguished Service Professor
  Stevens Institute of Technology**

- **Navindran Davendralingam, PhD**
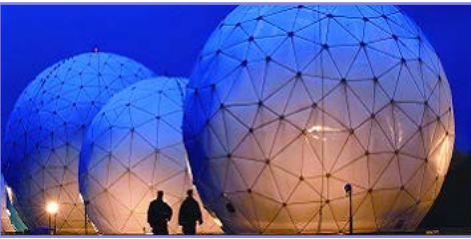 **Senior Research Associate
  Purdue University**

For Additional Information

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Systems Engineering:
Critical to Defense Acquisition

Defense Innovation Marketplace
http://www.defenseinnovationmarketplace.mil

DASD, Systems Engineering
http://www.acq.osd.mil/se

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