



# WELCOME TO THE 2011 ANNUAL SERC RESEARCH REVIEW

**By  
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Executive Director**

**Annual SERC Research Review  
October 5-6, 2011  
University of Maryland  
Marriott Inn and Convention Center  
Hyattsville, MD**

# Thank You

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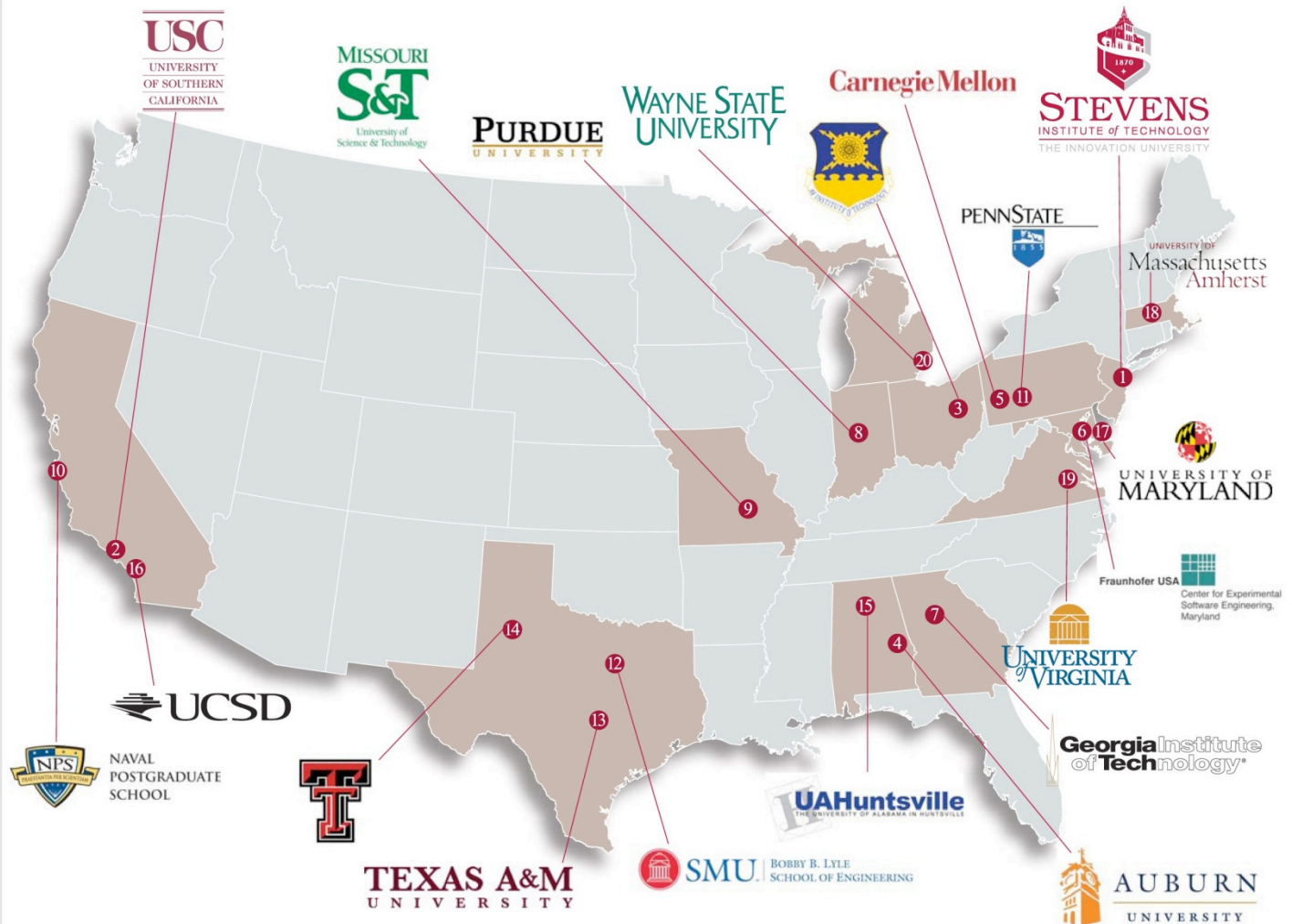
- University of Maryland for hosting this event
- Department of Defense for their continued and enthusiastic sponsorship of the SERC
- Our many speakers for their participation
- All of you for attending the ASRR

# The SERC Collaborators

## The SERC Collaborators

### University or Research Organization

- 1 Stevens Institute of Technology
- 2 University of Southern California
- 3 Air Force Institute of Technology
- 4 Auburn University, Auburn, AL
- 5 Carnegie Mellon University
- 6 Fraunhofer Center at University of Maryland
- 7 Georgia Institute of Technology
- 8 Purdue University
- 9 Missouri University of Science and Technology
- 10 Naval Postgraduate School
- 11 Pennsylvania State University
- 12 Southern Methodist University
- 13 Texas A&M
- 14 Texas Tech University
- 15 University of Alabama - Huntsville
- 16 University of California - San Diego
- 17 University of Maryland - College Park
- 18 University of Massachusetts - Amherst
- 19 University of Virginia
- 20 Wayne State University



# ASRR Objectives

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- Exchange ideas among government and academic thought leaders regarding some of the most pressing and important research challenges DoD faces.
- Learn about the ongoing research projects the SERC is conducting to address those research challenges.
- Continue to mature the collaboration network among SERC researchers and government.

# ASRR Themes

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- How should the systems engineering community respond to DoD's seven science and technology priorities – with a specific focus on engineered resilient systems?
- How can systems engineering be performed far more rapidly yet deliver full value?
- Is model-based systems engineering ready for major acquisitions?

# Wednesday ASRR Program

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- 8:30a Welcome
- 8:40a New Vision for SERC as a National Resource – *Honorable Michael Wynne*
- 9:00a DoD 7 Science and Technology Priorities – *Ms. Kristen Baldwin*
- 9:30a SERC Progress and Directions – *Dr. Art Pyster*
- 9:45a SERC Research Strategy and Progress – *Dr. Barry Boehm*
- 10:05a Break
- 10:30a Panel on Engineered Resilient Systems – *Dr. Scott Lucero, Chair*
- 12:00p Lunch – *Mr. Al Grasso*
- 1:00p Systems Thinking in The Army – *Major General Nick Justice*
- 2:00p Parallel Session on SERC Research Tasks
- 3:00p Break
- 3:30p Air Force Systems Engineering Research Needs – *Colonel (Select) Lester Ogawa*
- 4:15p FAA Systems Engineering Research Needs – *Ms. Victoria Cox*
- 5:00p Closing Remarks for the Day – *Dr. Art Pyster*
- 5:15p Reception with Poster Session (ends at 6:45p)

# Thursday ASRR Program

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- 8:15a Welcome – *Ms. Kristen Baldwin and Dr. Art Pyster*
- 8:30a Panel on Model-Based Systems Engineering – *Dr. William Rouse, Chair*
- 9:45a Break
- 10:15a Parallel Sessions on SERC Research Tasks
- 11:30a Lunch – *Mr. Nicholas Torelli*
- 12:30p Panel on Rapid/Expedited Systems Engineering – *Ms. Debra Facktor Lepore, Chair*
- 1:30p Final Plenary Remarks – *Dr. Art Pyster*
- 1:45p Break
- 2:00p Parallel Sessions on Best Systems Engineering Dissertation Research –  
*PhD students from SERC collaborator universities*
- 3:30p Parallel Session: Executive Advisory Board (invitation only) – *Ms. Kristen Baldwin*; Attendee Feedback on ASRR 2011 – *Dr. Stan Rifkin*
- 5:00p Adjourn