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

www.sercuarc.org
Thank You

• 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

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

UCSD

NAVAL POSTGRADUATE SCHOOL

TEXAS A&M UNIVERSITY

WAYNE STATE UNIVERSITY

Purdue University

Carnegie Mellon

STEVENS INSTITUTE OF TECHNOLOGY

Massachusetts Amherst

Penn State

University of Maryland

University of Virginia

SMU

Boston University

Georgia Institute of Technology

Fraunhofer USA Center for Experimental Software Engineering, Maryland

Auburn University

University of Southern California

Missouri University of Science and Technology

Fraunhofer Center at University of Maryland

University of Alabama - Huntsville

University of California - San Diego

University of Maryland - College Park

University of Massachusetts - Amherst

University of Virginia

Wayne State University
ASRR Objectives

• 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

• 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

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
5:00p  Closing Remarks for the Day – Dr. Art Pyster
5:15p  Reception with Poster Session (ends at 6:45p)
Thursday ASRR Program

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