



# University of Alabama in Huntsville



## **ROLE:**

- Credit and non-credit programs in M&S
- Center for Modeling, Simulation and Analysis

## **ISSUES:**

- Core competencies of M&S graduates

## **OPPORTUNITIES:**

- SimSummit censuses on core competencies

## **EXPECTATIONS:**

- Networking among academics to address core competencies



# University of Alabama in Huntsville



## **Bernard J. Schroer**

- Associate VP for Research
- Professor of Industrial and Systems Engineering
- University of Alabama
- Area of expertise: manufacturing systems discrete event simulation



# Johns Hopkins University Applied Physics Laboratory



## ROLE:

- Not-for-profit University-Affiliated Research Center (UARC) providing M&S services to DoD and other Government sponsors on non-competitive basis.

## ISSUES:

- There are M&S technology issues (e.g., standards, interoperability), process issues (e.g., use of VV&A), and culture issues (e.g., adoption of integrated M&S in acquisition).

## OPPORTUNITIES:

- Opportunities exist to advance M&S standards (e.g., for data), M&S credibility to decision-makers, and education of the M&S workforce.

## EXPECTATIONS:

- Expectation from SimSummit is to remain on the leading edge of M&S ideas and technology through discussion and collaboration, and to identify opportunities for new contributions consistent with the JHU/APL mission.



# Johns Hopkins University Applied Physics Laboratory



## James E. Coolahan

**DR. JAMES E. COOLAHAN** is the Supervisor of the Modeling, Simulation and Decision Support Group at the Johns Hopkins University Applied Physics Laboratory, where he also served as the Assistant to the Director for Modeling and Simulation from 1996 to 2001. In his 30 years at JHU/APL, his technical activities have included modeling and simulation, test and evaluation, and the development of oceanographic data acquisition systems. From 2000 through 2002, he served as a member of the National Research Council Committee on Modeling and Simulation Enhancements for 21<sup>st</sup> Century Manufacturing and Acquisition. In the Simulation Interoperability Standards Organization (SISO), he is currently chair of the System Acquisition and Product Development (SAPD) Forum, and has been Vice-Chair of the Test and Evaluation Forum and a member of the Research, Development and Engineering Forum Program Review Panel. Dr. Coolahan holds B.S. and M.S. degrees in aerospace engineering from the University of Notre Dame and the Catholic University of America, respectively, and M.S. and Ph.D. degrees in computer science from the Johns Hopkins University and the University of Maryland, respectively. In addition to being a member of SISO, he is a member of the Institute for Electrical and Electronics Engineers (IEEE) and its Computer Society, and the National Defense Industrial Association (NDIA).



# Johns Hopkins University Applied Physics Laboratory



## Robert R. Lutz

**ROBERT R. LUTZ** is a Principal Staff Scientist at the Johns Hopkins University Applied Physics Laboratory (JHU/APL). He has over 22 years of experience in the design, implementation, and evaluation of computer modeling and simulation (M&S) systems for military customers. Since joining JHU/APL in 1992, Mr. Lutz has assumed leadership roles on several M&S programs, including the Naval Simulation System (NSS), Joint Warfare System (JWARS), and the Simulation Based Acquisition (SBA) initiative. Mr. Lutz also served as the technical editor for IEEE 1516.2 (HLA Object Model Template) and as working group chair for IEEE 1516.3 (HLA FEDEP). Currently, he is the deputy M&S lead for the Multi-mission Maritime Aircraft (MMA) Program and actively supports the U.S. Defense Modeling and Simulation Office (DMSO) on several technology projects. He also serves as a guest lecturer in The Johns Hopkins University Whiting School of Engineering.



# Johns Hopkins University Applied Physics Laboratory



## Dale K. Pace

**Dale K. Pace** is a member of the Principal Professional Staff of the Johns Hopkins University Applied Physics Laboratory. Dr. Pace has been extensively involved in modeling and simulation VV&A since the mid-1980s, contributing to development of VV&A processes and technology, teaching VV&A, and being involved in modeling and simulation VV&A reviews and other activities. He has been part of the DoD VV&A Technical Working Group (TWG) since it began and supports Defense Modeling and Simulation Office (DMSO) VV&A endeavors in a number of ways. He was an initial co-chair of the Distributed Interactive Simulation (DIS) VV&A Subgroup and a member of the initial Simulation Interoperability Workshop (SIW) Program Committee, as well as being a leader of the SIW Research Development and Engineering (RDE) User Forum for several years. He also was co-chair of the 1999 SIMVAL workshop sponsored by the Military Operations Research Society (MORS) and the Society for Computer Simulation (SCS), and was program co-chair for the Foundations '02 V&V workshop sponsored by more than two dozen organizations.