

# Professional Societies Commercial Industrial Hybrid Professional Professional Societies

# SimSU



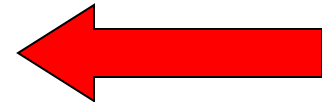
# Meeting Agenda

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## I. Introduction

A. Welcome and Introductions

*B. SimSummit* CONOPS Review



## II. Meeting Discussion Topics

A. Topical Summary

B. SISO / SCS Program

## III. ACTION

# Welcome from the Executive Committee

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- National Training Simulation Association (NTSA)
- Modeling and Simulation Society International (SCS)
- Simulation Interoperability Standards Organization (SISO)

# Self-Introductions of Member and Observer Organizations

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- Individual Name
- Organization Represented

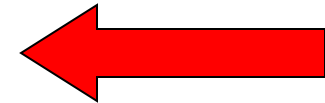
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# *SimSummit* Concept

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- What? - Round-table of preeminent M&S 'organizations'
- Who? – Interested organizations from Industry, Government and Academia ... facilitated by non-profit Societies
- When / Where? – Opportunistic overload of organized events
- Why? – Influence the future of the M&S Discipline, Profession, Industry, and Market
- How? – Collective, consensus-based discussion decision, and action

# ***SimSummit Membership***

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## **EDUCATION**

Arizona Center for Integrative Modeling and Simulation (ACIMS)

Auburn Modeling & Simulation Group (AMSG)

Georgia Tech – Modeling and Simulation Research & Education Center  
(MSREC)

John Hopkins University – Applied Physics Laboratory (JHU/APL)

McLeod Institute of Simulation Sciences (MISS)

Old Dominion – Virginia Modeling, Analysis and Simulation Center (VMASC)

University of Alabama in Huntsville – Center for Modeling, Simulation and  
Analysis (UAH CMSA)

University of Central Florida – Institute for Simulation and Training (IST)

# ***SimSummit* Membership**

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## **GOVERNMENT**

DND Future Forces Synthetic Environment (FFSE)

DND Synthetic Environment Coordination Office (SECO)

Defence & Science Technology Laboratories Synthetic Environment Efforts

National Aeronautics & Space Administration (NASA)

NATO Modelling & Simulation Group (NATO-MSG)

National Institute of Standards & Technology (NIST)

UK Directorate of Analysis, Experimentation and Simulation (DAES)

U.S. Air Force Agency for Modeling and Simulation (AFAMS)

U.S. Army / Battle Command, Simulation & Experimentation Directorate

U.S. DoD / Modeling and Simulation Coordination Office (M&S CO)

U.S. Marine Corps Technology Division

U.S. Navy / Navy Modeling and Simulation Office (NMSO)

# ***SimSummit* Membership**

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## **PROFESSIONAL/INDUSTRIAL SOCIETIES**

ACM Special Interest Group on Simulation (SIGSIM)

Alabama Modeling and Simulation Council (AMSC)

McLeod Modeling and Simulation Network (M&SNet)

National Center for Simulation (NCS)

National Modeling Analysis Simulation and Training Coalition (NMASTC)

National Training Systems Association (NTSA)

Simulation Interoperability Standards Organization (SISO)

The Society for Modeling and Simulation International (SCS)

# ***SimSummit* Membership**

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## **COMMERCIAL**

AEgis Technologies Group, Inc.

The Boeing Company – Phantom Works

CACI, Inc.

CAE Professional Services

Computer Sciences Corporation (CSC)

Northrop Grumman

RAM Laboratories, Inc.

Raytheon Company

Science Applications International Corporation (SAIC)

Teledyne Brown Engineering

UK SeBA Forum

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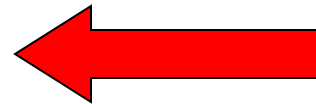
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# Power of a 'Topical Agenda'

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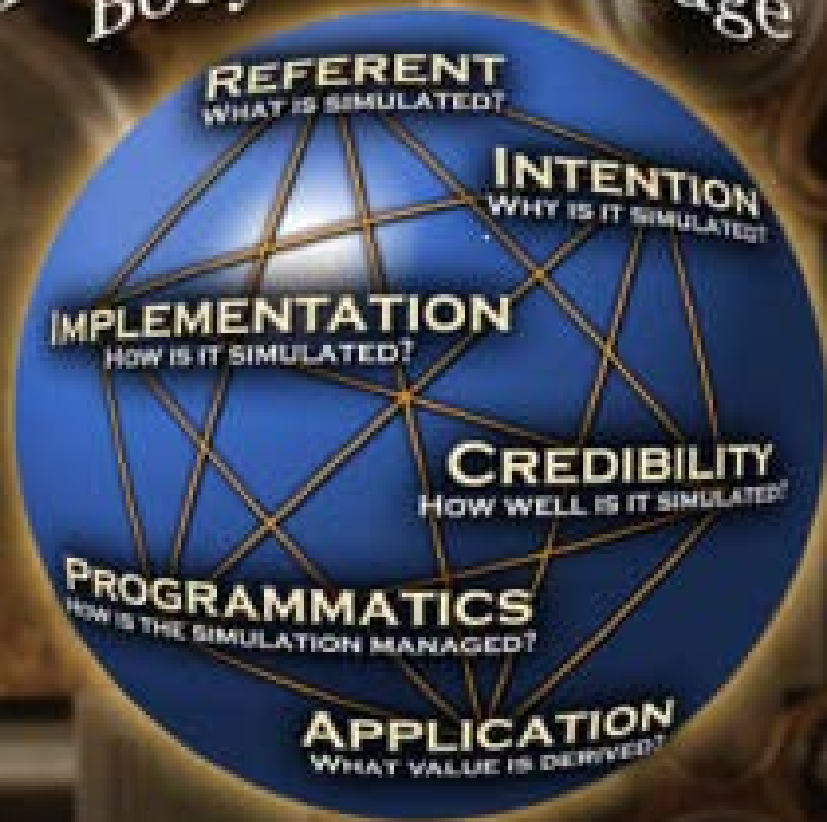
## TOPICAL AGENDAS:

- Sensitize communities to significant shared issues and opportunities
- Frame the domain of debate, decision, and action
- Provide 'hooks' to which organizations and constituencies can subscribe (common) interest
- Provide loci for programmatic commitment and coordination of cooperative effort



# SIMULATION

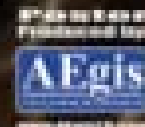
Technology/Professional  
Body of Knowledge



WHAT KNOWLEDGE AND  
CAPABILITY DISTINGUISHES  
THE SIMULATION PROFESSIONAL?



IASP@SCS.org



# **CMSP Topics...**

## **from M&S BOK Index**

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1. Concepts and Context
2. Applications of M&S
3. Domains of Use of M&S
4. Modeling Methods
5. Simulation Implementation
6. Supporting Tools, Techniques, and Resources
7. Business and Management of M&S
8. Related Communities of Practice and Disciplines

# M&S Practitioner Code-of-Ethics

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- Preamble
- Personal Development and Profession
- Professional Competence
- Trustworthiness
- Property Rights and Due Credit
- Compliance with the Code

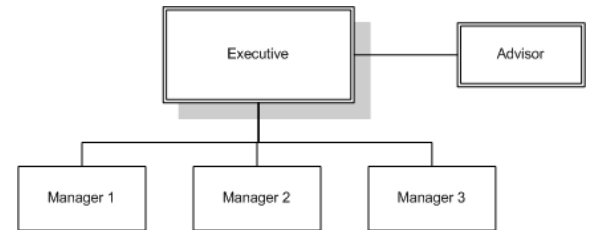
# National M&S Enterprise Campaign and Organization



**Meeting Event**



**Meeting Products**



ID	Task Name	Duration	Apr 2011													
			5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	Task 1	2d	█													
2	Task 2	5d		█	█	█	█	█								
3	Task 3	2d			█	█										
4	Task 4	5d								█	█	█	█	█		
5	Task 5	1d														█

**Organization and 'Campaign'**

# M&S Investment

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## Calculating Return on Investment for U.S. Department of Defense Modeling and Simulation

Ivar Oswalt, Tim Cooley, William Waite, Elliot Waite, Steve "Flash" Gordon, Richard Severinghaus, Jerry Feinberg, and Gary Lightner

4 February 2011

### ABSTRACT

As budgets decrease, it becomes increasingly important to determine the most effective ways to invest in modeling and simulation (M&S). This article discusses an approach to comparing different M&S investment opportunities using a return on investment (ROI)-like measure. The authors describe methods to evaluate “benefit” (i.e., increased readiness, more effective training, etc.) received from an investment and then use those metrics in a decision analysis framework to evaluate each M&S expenditure. Finally, they conclude by discussing the importance of viewing M&S investments from a Department of Defense (DoD) Enterprise view, evaluating investment over multiple years, measuring well-structured metrics, and using those metrics in a systematic way to produce an ROI-like result that DoD can use to evaluate and prioritize M&S investments.

# NAICS

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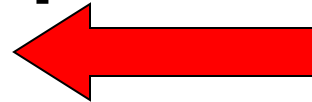
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## **SISO / SCS Program**

**0930 - Measuring M&S Credibility - David Henry**

**1000 – Break**

**1030 – Economics of M&S SSG - Tim Cooley**

**1100 – Metrics of M&S Investment - Tim Cooley**

**1130 – Open Discussion and Actions**



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