## NDIA SE Division M&S Committee
### Meeting Agenda, 20 April 2010

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>8:30</td>
<td>Welcome, agenda review, self-introductions</td>
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<tr>
<td>8:50</td>
<td>Committee overview, meeting schedule</td>
<td>Jim Coolahan (JHU/APL)</td>
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<tr>
<td>9:00</td>
<td><strong>Technology Tools for Rapid Capability Fielding -- Study Outbrief</strong></td>
<td>Jim Carlini</td>
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<td>10:00</td>
<td><strong>MORS Workshop from Analytic Agenda (1-4 Mar) -- Outbrief on WG #7 on Development Planning</strong></td>
<td>Mike Truelove (SAIC-DDRE/SE/SA)</td>
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<tr>
<td>10:20</td>
<td>Break</td>
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<tr>
<td>10:35</td>
<td><strong>SISO System Life Cycle Forum -- Outbrief from Spring Simulation Interoperability Workshop</strong></td>
<td>Tim Jahren (Raytheon)</td>
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<td>10:55</td>
<td><strong>SEDRIS Usage Assessment</strong></td>
<td>Paul Dumanoir (JTIEC)</td>
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<td>11:55</td>
<td>Working lunch (courtesy of Boeing)</td>
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<tr>
<td>12:25</td>
<td>Upcoming Systems Engineering and M&amp;S Conferences</td>
<td>Jim Coolahan</td>
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<tr>
<td>12:30</td>
<td>Call for Papers, Systems Engineering Conference</td>
<td>Jeff Bergenthal (Lockheed Martin)</td>
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<tr>
<td>12:40</td>
<td><strong>M&amp;S Investment Needs for Producible Designs and Affordable Manufacturing - SE Implications</strong></td>
<td>Charlie Stirk (Cost Vision)</td>
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<td>(Final Report of the M&amp;S Subcommittee of the NDIA Joint Committee for SE and Manufacturing)**</td>
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<tr>
<td>13:20</td>
<td><strong>Overview of Subcommittees on Model-Based Engineering and SE M&amp;S Input for M&amp;S Professional Certification</strong></td>
<td>Jim Coolahan</td>
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<tr>
<td>13:40</td>
<td><strong>Certification of M&amp;S Professionals</strong></td>
<td>Bill Tucker (Boeing)</td>
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<td>14:40</td>
<td>Break</td>
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<tr>
<td>14:55</td>
<td><strong>Subcommittee Meeting, Model-Based Engineering Subcommittee Meeting</strong></td>
<td>Subcommittee members</td>
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<tr>
<td>14:55</td>
<td><strong>Subcommittee Meeting, SE M&amp;S Input for M&amp;S Professional Certification</strong></td>
<td>Subcommittee members</td>
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<tr>
<td>16:25</td>
<td>Adjourn</td>
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National Defense Industrial Association
Systems Engineering Division
Modeling and Simulation Committee

Committee Overview and Meeting Schedule
20 April 2010

Dr. James E. Coolahan
Chair, NDIA Systems Engineering M&S Committee
James.Coolahan@jhuapl.edu
240-228-5155
NDIA SE M&S Committee

• The mission of the NDIA SE M&S Committee is to advance the understanding and use of modeling and simulation in the practice of systems engineering

• Significant growth of membership and meeting attendance since founding in 2002, under the leadership of Jim Hollenbach and Gary Belie

• Jim Coolahan succeeded Jim Hollenbach and Jeff Bergenthal succeeded Gary Belie in December, 2009

• 2010 meetings: 16 February (presentations posted on NDIA web site), 20 April, 15 June, and 17 August at Boeing in Rosslyn
NDIA Systems Engineering 2010
Modeling and Simulation Committee

**Initiative Description**
- 2009 initiative on M&S Support for the SE of Systems of Systems
  - Conducted community survey
  - Produced report in October 2009
- 2010 studies/subcommittees:
  - Model-based engineering
  - M&S Professional Certification input

**Deliverables/Products**
- “Results of Survey on M&S Support for the SE of Systems of Systems, October 2009”
  - Presented at SE Conf in Oct 2009
- Wealth of presentations from M&S committee meetings archived on web site (50-80 participants at each of 4 meetings in 2009)

**Schedule**
- Full-day committee meetings in Feb, Apr, Jun, Aug 2010 in DC area, aligned with SE Division meetings
- Expect full slate (12-18) of presentations on various timely SE M&S topics of interest at Oct 2010 SE Conference

**Related SE Committee and DOD Interfaces**
- Interfaces to NDIA SoS SE Committee and to NDIA Manufacturing and SE Divisions’ Joint Sub-Committee on Modeling and Simulation
- Linkage to OSD-led Acquisition M&S Working Group and its Acquisition M&S Master Plan
- Linkage to IEEE and Simulation Interoperability Standards Organization (SISO) M&S standards activities on High Level Architecture (HLA), VV&A; and to SISO System Life Cycle forum
National Defense Industrial Association
Systems Engineering Division
Modeling and Simulation Committee

Upcoming Systems Engineering and M&S Conferences

20 April 2010

Dr. James E. Coolahan
Chair, NDIA Systems Engineering M&S Committee
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Upcoming Systems Engineering and M&S Conferences

• 2010 Summer Computer Simulation Conference (SCSC '10), sponsored by The Society for Modeling and Simulation International (SCS), Crowne Plaza Hotel, Ottawa, ON, Canada, 11-14 July 2010. See [http://www.dacya.ucm.es/jlrisco/SCSC10](http://www.dacya.ucm.es/jlrisco/SCSC10).


National Defense Industrial Association
Systems Engineering Division
Modeling and Simulation Committee

Overview of Subcommittees on Model-Based Engineering and SE M&S Input for M&S Professional Certification

20 April 2010

Dr. James E. Coolahan
Chair, NDIA Systems Engineering M&S Committee

James.Coolahan@jhuapl.edu
240-228-5155
Grow engineering capabilities to address emerging challenges (con’t)

Identify opportunities to leverage Model-based engineering practices to improve systems engineering productivity and completeness

- Do existing policies, guidance and contracting mechanisms hinder model-based collaboration?

Reinvigorate exploration and exploitation of Modeling and Simulation Systems Engineering enablers to assess and mitigate acquisition program risks

- Modeling & Simulation Committee to lead the initial investigation
- Coordinate work schedule with new Committee chair
Model-Based Engineering Subcommittee Volunteers to Date

- Eileen Bjorkman (SAF/XCD; former AMSWG chair)
- Sandy Friedenthal (LM; INCOSE MBSE chair)
- Jennifer Rainey (JHU/APL; OMG Certified Systems Modeler™ beta tester)
- Charlie Stirk (CostVision)
- Frank Salvatore (HPTI)
- Lou Pape (Boeing)
Model-Based Engineering (MBE) Subcommittee Charter (Draft)

• Define how Model-Based Engineering and Model Based Systems Engineering relate to Modeling & Simulation (M&S)
• Identify how Model-Based Engineering practices can result in productivity and quality improvements across the system acquisition life cycle
• Do existing policy, guidance and contracting mechanisms support or hinder Model Based collaboration?
• Reinvigorate exploration and exploitation of Modeling and Simulation Systems Engineering enablers to assess and mitigate acquisition program risks
SE M&S Input for M&S Professional Certification

- Desire to augment the M&S Professional Certification activity/examination with more Systems Engineering M&S material
- Bill Tucker to give overview of existing Certified M&S Professional (CMSP) Program this afternoon
- First subcommittee meeting at 3:30 pm today