

Systems of Systems Committee Update

February Meeting (2/18) 2015 Kickoff Meeting

- Review 2014 and discuss way ahead for 2015
- Reviewed past and upcoming SoSE community events
- Welcome Mission Analysis to SoS Committee
- Discussed relationship between mission analysis and SoSE

April Meeting (4/10) Presentation by Joint Staff

- “Mission Based Analysis and Coordinated Implementation”
Marsha Mullins, JS/J6
- Application of Mission Analysis to Digitally Aided Close Air Support SoS

2015 System of Systems Engineering Collaborators Information Exchange Webinars



2015 System of Systems Engineering Collaborators Information Exchange Webinars Sponsored by DASD(SE) and NDIA SE Division



- April 14, **Critical Integration Links Identification for System of Systems**, Mr. Subash Kafle and Dr. Jason McZara, The MITRE Corporation
- April 28, **Synthesizing and Specifying Architectures for System of Systems**, Dr. C. Robert Kenley, Purdue University
- May 5, **SoS Considerations in the Engineering of Systems**, Dr. Judith Dahmann, The MITRE Corporation
- May 19, **Lifecycle Modeling Language and SoS**, Dr. Steven Dam, SPEC Innovations
- June 9, **Lifecycle Verification of a System of Systems**, Mr. Brian Hatchell, Mr. Fredrick Mauss, and Mr. Kurt Silvers, Pacific Northwest National Laboratory
- June 23, **Incremental Commitment Spiral Model as Applied to SoS**, Dr. Rich Turner, Stevens Institute of Technology; Dr. Jo Ann Lane, University of Southern California
- July 28, **Maintaining Emergence in Systems of Systems Integration: a Contractual Approach using SysML**, Dr. Jeremy Bryans, Dr. John Fitzgerald, and Dr. Richard Payne, University of Newcastle upon Tyne; Mr. Klaus Kristensen, Bang & Olufsen
- August 11, **Systems Integration: He Who Hesitates Is Lost**, Mr. James R. Armstrong, Stevens Institute of Technology
- August 25, **A Practitioner's Approach Using Model Based Systems Engineering (MBSE) in Systems of Systems**, Mr. Richard Deakins and Mr. Doug Parsons, U.S. Army Aviation and Missile Research, Development and Engineering Center

To receive meeting invites, email osd.atl.asd-re.se@mail.mil or visit our website:
<http://www.acq.osd.mil/se/outreach/sosecollab.html>



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- September 1, **Approach to Capability-Based System-of-Systems Framework in Support of Naval Ship Design**, Dr. Santiago Balestrini-Robinson and Dr. Simon Briceño, Georgia Institute of Technology, Cdr Jacques P. Olivier, Department of National Defence, Canada
- September 15, **Traceable Engineering of Fault-Tolerant System of Systems**, Dr. Zoe Andrews, Dr. Claire Ingram, Dr. Richard Payne, Mr. Alexander Romanovsky, University of Newcastle upon Tyne; Mr. Jon Holt and Mr. Simon Perry, Atego
- September 29, **Set-Based Design in Requirements Development**, Dr. Norbert Doerry, Naval Sea Systems Command
- October 6, **The Human Systems Integration Framework (HSIF): Defining a New Role to Enhance Cross-Domain Collaboration**, Dr. Matthew R. Risser, Pacific Science & Engineering Group
- October 20, **Model-based Product Line Engineering - Variations on a Theme**, Mr. Matthew C. Hause, Atego
- November 10, **Towards a New Paradigm for Management of Complex Engineering Projects: A System-of-Systems Framework**, Ms. Jin Zhu and Dr. Ali Mostafavi, Florida International University
- November 24, **Preferential System Connectivity and its Impact on Performance**, Dr. David Flanigan and Mr. Jeffery Dixon, The Johns Hopkins University Applied Physics Laboratory
- December 1, **Modelling Patterns for Systems of Systems Architectures**, Dr. Claire Ingram and Dr. Richard Payne, University of Newcastle upon Tyne
- December 15, **Towards Technical Reference Frameworks to Support Open System Architecture Initiatives**, Dr. Douglas C. Schmidt, Software Engineering Institute