

Thursday, March 31, 2016

- 7:00 AM - 5:30 PM Registration in Westfields Marriott Conference Center Foyer
- 7:00 AM - 8:00 AM Continental Breakfast in Conference Center Hallway with Sponsors
- 8:00 AM - 8:15 AM SEDC Conference Call to Order and Announcements (Conference Chair)
- 8:15 AM - 9:15 AM Opening Keynote Presentation (Ambassador R. James Woolsey, Former Director of the CIA) Plenary Session – Grand Dominion Ballroom III-VI**
Sponsored by Bechtel.
- 9:15 AM – 9:45 AM Networking Break in Conference Center Hallway with Sponsors

Systems Engineering in DC (SEDC) 2016 Schedule

Thursday, March 31, 2016 (late morning)

<i>Presentations</i>					
	Track 1: CIPR (Grand Dominion III- VI) <i>Track Chair: TBD</i>	Track 2: MBSE (Jeffersonian I&II) <i>Track Chair: TBD</i>	Track 3: Program Management (Jeffersonian III&IV) <i>Track Chair: Karl Geist</i>	Track 4: SoSE (Jeffersonian V&VI) <i>Track Chair: TBD</i>	Eastern Tour Presentations (Grand Dominion I-II) <i>Track Chair: Don Gelosh</i>
9:45- 10:15	C-1. A Model-Based Approach to Resilient Architectures <i>Warren K. Vaneman</i>	M-1. A New Energy Systems Modeling Framework <i>Nima Shahriari, et. al., ODU</i>	PM-1. Systems Engineering: a Project Success Enabler <i>Randy Simpson, Vitech Corporation</i>	S-1. Adaptable Systems of Systems <i>Bonnie Johnson, Naval Postgraduate School</i>	9:45-10:30: Complex Systems: How to Recognize Them and Engineer Them <i>Brian White</i>
10:20 - 10:50	C-2. ANTS in your systems - A swarming ecosystem defense for executive cybersecurity risk appetite representation <i>Earl Crane, Emergent Network Defense, Inc.</i>	M-2. Model-based design of Human-Machine Interaction <i>Lance Sherry, Houda Kourdali, GMU</i>	PM-2. Meeting-Free Software Development, in Distributed Teams <i>Yegor Bugayenko, Teamed.io</i>	S-2. Emergence in Complex Adaptive Systems <i>Gloria Pumpuni-Lenss, GWU</i>	
10:55 - 11:25	C-3. Evaluating System of Systems Architectures for Effectiveness and Resiliency <i>Dr David P Brown, Innovative Decisions Inc.</i>	M-3. Brief Overview of the Concepts and Principles Encapsulated in the WG's Complexity Primer for Systems Engineers <i>Jimmie McEver, Ph.D., M.P.P., JHU Applied Physics Laboratory</i>	PM-3. Systems Engineering Management Approach for Functional Analysis for an Integrated Capability of Arrival/Departure/ Surface Management with Tactical Runway Configuration Management <i>Rosana R. Stoica, et. al., GMU</i>	S-3. Visualizing Critical Infrastructure as a System of Systems <i>Mark A. Wilson, Strategy Bridge International, Inc.</i>	10:35-11:20: A Systems Thinking Approach to Developing Learning Outcomes for Systems Security Engineering <i>Don Gelosh, WPI</i>
11:30 - 12:00	C-4. Applying the First Stage of MBSE to Critical Infrastructure Protection & Recovery (CIPR) Infrastructures Domains <i>Loren Mark Walker, BCT-LLC</i>	M-4. Employing MBSE for the Design and Construction of a Power Plant - A Case Study <i>Edward Huang, Abbas K. Zaidi, GMU</i>	PM-4. The Generalized Reuse Framework – Strategies and the Decision Process for Planned Reuse <i>Gan Wang, BAE Systems</i>	S-4. Evaluation of Systems Performance of Linked IT Capabilities of Increasingly <i>Shapna Pal, et. al., GWU</i>	

12:00 PM - 1:00 PM **Lunch. Sponsored by Stevens Institute of Technology**

Systems Engineering in DC (SEDC) 2016 Schedule

Thursday, March 31, 2016 (early afternoon)

<i>Presentations</i>					
	Track 1: CIPR (Grand Dominion III- VI) <i>Track Chair: Mike deLamare</i>	Track 2: MBSE (Jeffersonian I&II) <i>Track Chair: TBD</i>	Track 3: Program Management (Jeffersonian III&IV) <i>Track Chair: Karl Geist</i>	Track 4: SoSE (Jeffersonian V&VI) <i>Track Chair: TBD</i>	Eastern Tour Presentations (Grand Dominion I- II) <i>Track Chair: Don Gelosh</i>
1:00- 1:30	C-5. Integrating NIST Cybersecurity Framework with Systems Engineering Processes Muhammad F Islam, et. al., GWU	M-5. Systems Engineering Your MBSE Deployment <i>David Long, Vitech Corporation</i>	PM-5. "To Matrix of Not to Matrix": An Assessment of an Enterprise Matrix Organization through a Systems Engineering Lens <i>Rosana R. Stoica, et. al., GMU</i>	S-5. Considering Critical Infrastructure Services in Systems and Security engineering <i>William Scheible, MITRE</i>	1:00-1:55: Beyond MBSE: Looking towards the Next Evolution in Systems Engineering <i>David Long, Vitech Corporation</i> 2:00-2:40: Agile Development Practices: Implications for Systems Engineers <i>Mark A. Wilson, Strategy Bridge International</i>
1:35- 2:05	C-6. System Maturity Assessments Using System Readiness Level and Advanced System Network Structures <i>Brent Thal, et. al., GWU</i>	M-6. Probabilistic Ontologies in Domain Engineering, <i>Shou Matsumoto, Kathryn B. Laskey, Paulo C.G. Costa, GMU</i>	PM-6. Factor Space Allocation: A Programmatic Decision Tool <i>Douglas Brown, et. al., BAH</i>	S-6. Discerning System Design-Complexity from Subsystem Interdependency, whose Mathematical Underpinnings Derive from a New Set of Canonical Pattern Simplexes <i>Michael D. Nueslein</i>	
2:10- 2:40	C-7. Design of a Transoceanic Cable Protection System <i>Isaac Geisler, et. al., GMU</i>	M-7. Calibrating your Stakeholder GPS: Navigating and Managing the Stakeholders involved in your System Ashley Flick, BAH	PM-7. "Thinking Outside the Triangle": Enabling Agility and Managing Value within Emerging Systems Developmenty Paradigms <i>Rosana R. Stoica, et. al., GMU</i>	S-7. Introducing and Applying the SoS-VEE Model to Critical Infrastructure Protection and Recovery Oliver Hoehne, WSP Parsons Brinckerhoff	
2:40 PM - 3:30 PM. Networking Break in Conference Center Hallway with Sponsors					

Systems Engineering in DC (SEDC) 2016 Schedule

Thursday, March 31, 2016 (late afternoon and evening)

<i>Presentations</i>					
	Track 1: CIPR (Grand Dominion III- VI) Track Chair: Mike deLamare	Track 2: MBSE (Jeffersonian I&II) Track Chair: TBD	Track 3: Decision Support (Jeffersonian III&IV) Track Chair: TBD	Track 4: Architecture (Jeffersonian V&VI) Track Chair: TBD	Eastern Tour Presentations (Grand Dominion I-II) Track Chair: Don Gelosh
3:30- 4:00	C-8. Issues of National Importance – Can INCOSE Answer the Call? <i>Michael deLamare, Bechtel</i>	M-8. Executives Will Want to use MBSE <i>Loyd Baker, 3SL Inc</i>	D-1. Making Architecture Design Decisions with Decision Analysis <i>Dennis Buede, Innovative Decisions, Inc.</i>	A-1. Data-Centric vs Product-Centric Modeling Paradigms in Systems Architecture <i>Matthew Amisshah & Holly A.H. Handley, Old Dominion University</i>	Challenges for Systems Engineering in the Age of Connectivity <i>Tour Panel – David Long, Brian White, Rick Campbell, Mark Wilson (Moderator – Don Gelosh)</i>
4:05- 4:35	C-9. Overview of Intelligent Transportation System Architecture - Critical Infrastructure Security <i>Jeffrey Brummond, Iteris, Inc.</i>	M-9. Requirements Engineering for Retrofit Application <i>Jason Baker, et. al., Transocean</i>	D-2. Design Patterns Decision Framework <i>Rosana R. Stoica, et. al. GMU</i>	A-2. Evaluating Resilient Architectures <i>Warren K. Vaneman</i>	
4:40- 5:10	C-10. Multilevel Analysis of System Safety: Framework Specification and Database Development <i>Mark S. Avnet, Texas A&M, Tonya L. Smith-Jackson, NCA&T State University</i>	M-10. A MBSE Model Representing the Deployment of an IT Solution in a Cloud Environment <i>Gareth Digby, Vitech Corporation</i>	D-3. Expert Data Transformation: Adding Flexibility to Traditional Analytic Hierarchy Process <i>Ray McCollum, et. al., BAH</i>	A-3. METS: Scoping Framework for Mission-Centric Systems Engineering <i>Ken Harmon, Virginia Tech</i>	

5:15 PM – 7:00 PM Reception in Conference Center Hallway sponsored by WPI

Friday, April 1, 2014

7:00 AM – 12:00 PM Registration in Westfields Marriott Conference Center Foyer

7:00 AM - 8:00 AM Continental Breakfast in Conference Center Hallway with Sponsors

8:00 AM - 8:15 AM Call to Order/Announcements (Conference Chair)

8:15 AM - 9:15 AM Day 2 Opening Keynote (Bill Murtagh) Plenary Session – Grand Dominion Ballroom III-VI

9:15 AM – 9:45 AM Networking Break in Conference Center Hallway with Sponsors

Systems Engineering in DC (SEDC) 2016 Schedule

Friday, April 1, 2016 (late morning)

<i>Presentations</i>					
	Track 1: CIPR I (Grand Dominion III- VI) <i>Track Chair: Karl Geist</i>	Track 2: MBSE (Jeffersonian I&II) <i>Track Chair: TBD</i>	Track 3: M&S (Jeffersonian III&IV) <i>Track Chair: TBD</i>	Track 4: Education (Jeffersonian V&VI) <i>Track Chair: TBD</i>	Track 5: CIPR II (Grand Dominion I-II) <i>Track Chair: TBD</i>
9:45- 10:15	C-11. Panel: The Triple Threat to Critical Infrastructure – Threat Scope and Hindrances to Deterrence, <i>Michael deLamare; Bechtel, Dr George Baker; Bill Harris; Chuck Manto</i>	M-11. Developing an Effective Optical Satellite Communications Architecture <i>Frank E. Skirlo, CACI, Adrien Sullivan, NSF, Syed Abbas Zaidi, GMU</i>	MS-1. A System Dynamics Approach to Demand And Growth Of Portable Audio Ecosystem <i>Saikumar Annadatha, et. al., GWU</i>	E-1. Leaving a Positive INCOSE Footprint – Involvement in Security-related Standards Development <i>Kenneth J Kepchar, EagleViews</i>	C-14. A Model Based Systems Engineering approach for Critical Infrastructure Threat Analysis and Counter-Capability assessment <i>John Daly, BAH</i>
10:20 - 10:50		M-12. Systems Engineering Life 3.0 – Getting Lean: Implementing Lean Systems Engineering Principals and Processes at Home to help Streamline your life <i>Ashley Flick, BAH</i>	MS-2. Harness your inner (modeling & simulation) Jedi Knight by leveraging the wisdom of community Jedi masters and improve the force through the use of appropriate standards over the acquisition life cycle <i>Kenneth "Crash" Konwin, BAH</i>	E-2. Systems Engineering as an Academic Discipline: A Review of Graduate and Undergraduate Programs in the United States <i>Muhammad F Islam, GWU, and Gina Guillaume-Joseph, MITRE</i>	C-15. Critical Infrastructure Sector Resiliency Engineering and Analysis Framework <i>David Flanigan and Steven Taylor, JHU/APL</i>
10:55 - 11:25	C-12. Fueling Innovation and Accelerating Growth through Cybersecurity, <i>Mansur Hasib, University System of Maryland</i>	M-13. Enterprise Incident Management <i>Framework, Rosana R. Stoica, Ph.D., GMU</i>	MS-3. Quantitative Analysis of Spectrum Allocation and Utilization Using System Dynamics <i>Rikin Thakker and Michael Dellomo, University of Maryland</i>	E-3. Is standardized testing the best way to verify elementary education? <i>Courtney Wright, VI DecisionsEducation</i>	C-16. Cyber Risk Assessment for Energy Critical Infrastructures <i>Adrian Gheorghe and Unal Tatar, Old Dominion University</i>
11:30 - 12:00	C-13. Defense Critical Infrastructure Protection (DCIP) <i>Steven H. Dam and John Viar, SPEC Innovations</i>	M-14. Complexity as a Cognitive Existence <i>Mustafa Canan, Old Dominion University</i>	MS-4. Improving Software Project Outcomes through Predictive Analytics <i>Gina Guillaume-Joseph, MITRE</i>	E-4. Growing Chief Systems Engineers, <i>Nicole Hutchison, Art Pyster, and Christina Jauregui, Stevens Institute of Technology</i>	C-17. The Missing Link - Risk Identification, <i>Dave Hall, Hall Associates and Laurie Wiggins Sysenex Inc.</i>

12:00 PM - 1:00 PM **Lunch. Sponsored by Strategy Bridge**

Systems Engineering in DC (SEDC) 2016 Schedule

Friday, April 1, 2016 (early afternoon)

<i>Presentations</i>					
	Track 1: CIPR I (Grand Dominion III- VI) Track Chair: Karl Geist	Track 2: MBSE (Jeffersonian I&II) Track Chair: TBD	Track 3: Agile SE (Jeffersonian III&IV) Track Chair: TBD	Track 4: Network Systems (Jeffersonian V&VI) Track Chair: TBD	Track 5: CIPR II (Grand Dominion I- II) Track Chair: TBD
1:00- 1:30	C-18. Project Management Processes Applied to Cloud Environment to Increase the Security of IT Critical Infrastructure <i>Shapna S. Pal, GWU</i>	M-15. Systems Engineering: From Engineering Phenomena to Value <i>Ali E. Abbas, University of Southern California</i>	ASE-1. Adapting Security Practices in Agile Software Development <i>Muhammad F Islam, et. al., GWU</i>	N-1. Cloud Computing Integrated Framework <i>Rosana R. Stoica, GMU</i>	C-21. Architecture Happens - and Why You Might Care <i>Stephen E. Zini, Integrity Applications Incorporated (IAI)</i>
1:35- 2:05	C-19. Improving System Recovery by Prioritizing Component Dependencies, <i>Subash Kafle, Jason McZara, and Thomas Czernik, MITRE</i>	M-16. Beyond MBSE: Looking towards the Next Evolution in Systems Engineering <i>David Long, Vitech Corporation</i>	ASE-2. Agile Acquisition: FAA Incentives to Change their Acquisition Policies <i>Amanda M. Staley, et. al., MITRE</i>	N-2. Cloud Computing Integrated Reference Model <i>Rosana R. Stoica, GMU</i>	C-22. The Governance of Risk Management (Enterprise Integrated Risk Governance Framework), <i>Rosana R. Stoica, GMU</i>
2:10- 2:40	C-20. Critical Infrastructure Protection and Recovery Case Study (Crimea) <i>Tatiana Chnyrenkova, Bechtel</i>	M-17. Modeling Emergency Planning and Recovery <i>Michael Campbell and Steven Dam, SPEC Innovations</i>	ASE-3. Integrated Mobile Business Model for Integrated Food Ordering & Delivering - "Cafe Crush" <i>Rosana R. Stoica, et. al., GMU</i>	N-3. Role of Encryption in Security vs Privacy Debate <i>Kristine Hejna, Better Biz Solutions, Inc</i>	C-23. Protection Innovations <i>Michael Campbell and John Viar, SPEC Innovations</i>
2:40 PM - 3:30 PM. Networking Break in Conference Center Hallway with Sponsors					

Systems Engineering in DC (SEDC) 2016 Schedule

Friday, April 1, 2016 (late afternoon and evening)

<i>Presentations</i>					
	Track 1: CIPR I (Grand Dominion III- VI) <i>Track Chair: Karl Geist</i>	Track 2: Student Papers (Jeffersonian I&II) <i>Track Chair: TBD</i>	Track 3: Agile SE (Jeffersonian III&IV) <i>Track Chair: TBD</i>	Track 4: Network Systems (Jeffersonian V&VI) <i>Track Chair: TBD</i>	Track 5: CIPR II (Grand Dominion I- II) <i>Track Chair: TBD</i>
3:30- 4:00	C-24. Evaluating CIPR Models in a Table Top Exercise <i>Steven Dam and Chris Ritter, SPEC Innovations</i>	SP-1. Automated Greenhouse Sprinkler System - Phased Approach Towards a "Software as a Service" Approach to Agricultural Applications <i>Said Masoud; et. al., GMU</i>	ASE-4. More Agile Than Agile <i>Zane B. Scott, Vitech Corporation</i>	N-4. Beyond Compliance- Addressing the Political, Cultural and Technical Dimensions of Applying the Risk Management Framework <i>Jennifer Fabius and Richard Graubart, MITRE</i>	C-27. Asset and Configuration Management in Support of System Recovery <i>Jason McZara, and Darla Sligh, MITRE</i>
4:05- 4:35	C-25. Managing Project Risk in the Conceptual Design Phase (in the development of resiliency for critical infrastructure) <i>Daniel Canales, INCOSE - WMA</i>	SP-2. Design of an Anterior Cruciate Ligament Prevention Program for College Athletes. <i>Maribeth Burns, et. al., GMU</i>	ASE-5. How can MBSE Support CIPR? <i>Steve Dam, SPEC Innovations</i>	N-5. Multi-Formalism Cyber Security Applications <i>Abbas K. Zaidi, Edward Huang, Ahmed Abu Jbara, GMU</i>	C-28. Cloud Computing Security Risk Assessment: Benefits, risks and recommendations for information security, <i>Rosana R. Stoica, GMU</i>
4:40- 5:10	C-26. Predictive Situation Awareness Model for a Critical Infrastructure Protection System <i>Cheol Young Park & Kathryn Blackmond Laskey, GMU</i>	SP-3. Quality Management in Engineering Firms: Contrasting Two Scenarios, <i>Rosana R. Stoica & Elshaday Yilma, GMU</i>	ASE-6. Application of 3D Model Simulators to a Lunch Decision Process, <i>Christopher Ritter, et. al., SPEC Innovations</i>	N-6. Alternative approach to integrating Systems and Security engineering with CIP <i>William G. Scheible,, MITRE</i>	C-29. Next Generation Management of Risk <i>Barry C. Davis, Julia Pounds, Paul Krois and Melissa Wishy, Federal Aviation Administration</i>

5:15-7:00 PM “Avoid the traffic” networking at the Marriott Bar

Saturday, April 2, 2016

7:00 AM - 8:00 AM Registration in Engineering Building Lobby [Free to all full conference attendees except for the certification exam] (1st floor)

	<i>Tutorial Presentations</i>			<i>Certification Exam</i>
	Track A (TBD)	Track B (TBD)	Track C (TBD)	(TBD)
8:30 AM – 12:00 PM	T-1. Applying the Risk Management Framework (RMF) - An Overview <i>Jennifer Fabius and Christina Sames, MITRE</i>	T-3. Systems Engineers Collaborating with Software Engineers in Critical Infrastructure Related Software Intensive Agile Projects <i>Mike Pafford, INCOSE Object Oriented Systems Engineering Method (OOSEM) Working Group</i>	T-5. Solving the Systems Engineering Puzzle <i>Karl C. Geist, ICI Services Corporation/INCOSE Southern Maryland Chapter</i>	8:30AM – 11:00 AM Courtney Wright will administer the certification exam during this period. Sign up in advance required. A fee of \$80 will be collected prior to the exam.
12:00 – 1:00 PM	Lunch Provided			
1:00 PM – 4:30 PM	T-2. Modeling CIPR Problems Using MBSE, <i>Steve Dam, SPEC Innovations</i>	T-4. Learn a Simple MBSE Process by Connecting the Dots Using SysML <i>Loyd Baker, 3SL Inc</i>	T-6. Understanding and Applying the INCOSE SE Handbook Fourth Edition <i>David D. Walden, Sysnovation, LLC</i>	