

WEDNESDAY, OCTOBER 24

Modeling & Simulation 1	Modeling & Simulation 2	System Security Engineering (SSE)	Systems Engineering Effectiveness	Software Engineering	Mission Engineering	Engineered Resilient Systems (ERS)	Program Management	Interoperability and Network Centric Operations
Audubon B	Audubon C	Audubon D	Audubon E	Audubon F	White Ibis	Snowy Egret	Wilson’s Plover	Sandhill Crane
21494 DoD Digital Engineering Implementation Challenges and Recommendations Philomena Zimmerman OUSD(R&E)	21322 Analyzing System Alternatives Through Architecture Simulation Dennis Chapman U.S. Army RDECOM ARDEC	21527 Welcome and System Security Engineering Council Highlights Holly Dunlap Raytheon Company	21407 Panel: Methods for Accelerated Delivery of Capability – What Does It Take to Go Fast? D. Scott Lucero OUSD (R&E) Moderator	21747 Software Acquisition: Facing the Challenge, Valuing Velocity! James Thompson OUSD (R&E)	21289 Closing the Loop Between Missions and Acquisition Ronald Kratzke Vitech Corporation	21553 The Role of High-Performance Computing, High-Fidelity Physics, and Large-Data Analytics in DoD Acquisition David Richards U.S. Army Engineer Research and Development Center	21352 PARCA: IBR’s in DoD – Joint Situational Awareness John McGregor OUSD (A&S) PARCA	21391 Overview & Track Context John Daly Booz Allen Hamilton
21367 Uncovering Cascading Vulnerabilities in Model-Centric Acquisition Programs Donna Rhodes Massachusetts Institute of Technology	21404 Iterative Analysis Between MBSE Software and External Tools MAJ Stephen Gillespie U.S. Military Academy	21405 DoD Approach for Engineering Cyber-Resilient Weapon Systems and Program Protection Melinda Reed OUSD (R&E)	Thomas McDermott Stevens Institute of Technology Troy Peterson INCOSE Laura Freeman Institute for Defense Analyses Bess Dopkeen DoD Cost Assessment and Program Evaluation	21735 Driving Revolutionary Change in DoD Software Design and Acquisition Joseph Elm L-3 Technologies	21339 Digital Engineering Support to Mission Engineering Judith Dahmann MITRE Corporation	21559 Changes within the DoD High Performance Computing Modernization Program in Response to DoD Demand Signals and to Support Engineered Resilient Systems Robert Wallace Department of Defense HPCMP	21449 Session Title Michael Williamson Lockheed Martin Missiles and Fire Controldav	21293 Acquisition Agility: Reciprocity and Efficiencies in Approved Products List Testing Danielle Mackenzie DISA JITC
21398 Is There a Simple Ontology We Can Use for Digital Engineering? Warren Vaneman Naval Postgraduate School	21438 Affordable Resilient Architectural Trades in Next Generation Defense Systems Marilee Wheaton The Aerospace Corporation	21474 Cyber Resiliency for AF Weapon Systems Daniel Holtzman U.S. Air Force		21736 Industry Best Practices for Iterative Software Robin Yeman Lockheed Martin	21388 Mission Assurance Through Energy Assurance – Measuring Mission Effectiveness and Resilience Through Disruption John Collins Idaho National Laboratory	21605 The CREATE Element of the U.S. DoD HPC Modernization Program – Past, Present, and Future Robert Meakin High Performance Computing Modernization Program	21368 Program Risk/Opportunity Management, It’s Not Just Technical Anymore Vaughn Schlegel Lockheed Martin	21417 Lessons Learned from Tactical Radio Interface Standardization Don Stephens Joint Tactical Networking Center
NETWORKING BREAK – AUDUBON FOYER					NETWORKING BREAK – AUDUBON FOYER			
21390 Modeling Digital Engineering Transformation: The Program Authoritative Source of Truth Thomas McDermott Stevens Institute of Technology	21509 How Model-Based Systems Engineering with SysML Helps in Complex Systems Design Saulius Pavalkis No Magic, Inc.	21561 Systems Engineering Resiliency and Security Engineering Lead Dawn Williamson Northrop Grumman Corporation	21555 Developmental System Requirements for Mobility in Doris Turnage U.S. Army Corps of Engineers	21740 Integrating Systems Engineering with a Software Factory Sarah Sheard Software Engineering Institute	21540 Role of Industry in Mission Engineering William Miller Stevens Institute of Technology	21586 ERS Recent Developments and Plans Owen Eslinger U.S. Army Engineer Research and Development Center	21516 Collaboration Between Systems Engineers and Program Managers Lisa Hoffman AAR Mobility Systems	21515 Architecture Nomograph a Visual Validation Tool for DODAF Products Mark Gibson Engility Corporation
								Human Systems Integration (HIS)
								Sandhill Crane
21401 Modeling Digital Engineering Transformation: Workforce and Culture Thomas McDermott Stevens Institute of Technology	21426 De-Mystifying Model-Based Systems Engineering Warren Vaneman Naval Postgraduate School	21535 The Value of Using Systems Engineering to Sharpen the Spear Against the Cyber Threat Richard Massey The Boeing Company	21422 Streamline Defense Industry Performance with CMMI V2.0 Ron Lear CMMI Institute Kevin Schaaff CMMI Institute	21741 Integrating Systems Engineering with a Software Factory Sarah Sheard Software Engineering Institute	21392 Considerations in Modeling Defense Capabilities at the Mission Level of Performance John Daly Booz Allen Hamilton	21492 Leveraging ERS to Enable Digital Engineering for Rotorcraft Acquisition Marvin Moulton U.S. Army RDECOM	21386 The Systems Integrator – Who Has the Monkey? Steven Jones Defense Acquisition University	21333 Department of Defense Human Systems Integration Initiatives Andrew Monje OUSD (R&E)

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Audubon B		Audubon C	Audubon D	Audubon E	Audubon F	White Ibis	Snowy Egret	Wilson's Plover	Sandhill Crane
11:00 am	21337 Exchanging Digital Artifacts for the Engineering Life Cycle Philomena Zimmerman OUSD (R&E)	21556 Frenemies: OPM and SysML Together in an MBSE Model Matthew Hause PTC	21381 Leveraging Systems Modeling to Assess and Mitigate Cyber-Based Mission Risk: A Cybersecurity Architecture Framework Everett Oliver George Washington University	21749 SERC Capstone Marketplace: A Platform to Engage Engineering Undergraduates in Systems Engineering While Working on Real Problems and Operational Needs Capt William Shepherd, USN (Ret) Systems Engineering Research Center	21742 Managing Complexity with Agility and Openness Larri Rosser Raytheon Intelligence Information and Services	21432 Experiences in Experimentation Supporting Mission Engineering of Multi-Domain Capability Gene Bergmeier Lockheed Martin Corporation	21536 Flexible Web Based Workflow Automation Dharhas Pothina U.S. Army Engineer Research and Development Center	21441 Cost-Based Risk Management for Mission Critical Microgrids Robert Baker Colorado State University	21378 User-Centric Systems Engineering; Integrating User Experience Design with Traditional Systems Engineering Radhika Patel U.S. Army ARDEC
	21428 Critical MBE Themes that Enable a Collaborative Government-Industry Digital Engineering Process Throughout the DoD Acquisitions Lifecycle Zhigang Pan Northrop Grumman Corp.	21304 Architecture-Drive Assurance for Avionic Systems Dan Bliek Rockwell Collins	21341 Hardware Assurance (HwA) Through the Lifecycle Raymond Shanahan OUSD (R&E)	21564 Helix: Developing an Understanding of Organizational Systems Engineering Effectiveness Nicole Hutchison Stevens Institute of Technology		21389 Mission Engineering Update James Thompson OUSD(R&E)	21552 Deep Data Analytics for Engineered Resilient Systems (ERS) David Stuart U.S. Army Engineer Research and Development Center	21242 Integrated Baseline Review Andrea Nibert Leidos	21562 Meeting User Needs: Tailoring Human Systems Integration (HSI) for DoD Agile & DevOps Ariana Kiken Pacific Science & Engineering Group
12:00 pm	NETWORKING LUNCH – AUDUBON A					NETWORKING LUNCH – AUDUBON A			
1:00 pm	21331 Maximizing the Utility of Data and Emerging Technology with System of Systems and Big Data Analytics Claudia Rose BBII Enterprises	21374 MBSE for SOCOM JATF-TALOS Bjorn Cole Georgia Tech Research Institute	21507 Mission Thread Analysis Methods for Identification of Critical Components Suzanne Hassell Raytheon Company	21423 Estimate to Complete Development & Analysis Michael Campbell SPEC Innovations	21361 Semantic Versioning and Automated System Build Assembly Duane Spence Raytheon Company IIS	21510 Mission Engineering Competencies Nicole Hutchinson Stevens Institute of Technology	21532 LM Overview of the AFRL/ ERS EXPEDITE Program Clifton Davies Lockheed Martin Aeronautics	21243 Estimate to Complete Development & Analysis Andrea Nibert Leidos	21489 Human Systems Integration Risk Management Tool Bill Kosnik Air Force Space Command
	21435 Accomplishing Complex NAVSEA Frigate Systems with Digital End-to-End MBSE Development in Enterprise Architecture and Systems of Systems Architectures and Engineering John Sahlin Engility Corporation	21451 MBSE Design Pattern for Non-Standard Interfaces David Wood Harris Corporation	21335 Long-Term Strategy for DoD Assured Microelectronics Needs and Innovation for National Economic Competitiveness Raymond Shanahan OUSD (R&E)	21557 Integrating Descriptive and Analytical System Models Ronald Kratzke Vitech Corporation	21362 Transforming Systems Engineering for DevOps Brian Davenport Raytheon Company	Architecture White Ibis 21413 MOSA – Key Points for Implementation from the NDIA Architecture Committee Edward Moshinsky Lockheed Martin	21297 ERS Ontology-Assisted Simulation Environments Randy Ramsey Raytheon Company	21377 Use of Other Technology Agreements for Department of Defense Research and Development Andrea Belz University of Southern California	21427 Simpath?: A Computational Model to Facilitate Human Systems Integration Evaluations Elizabeth Weldon Georgia Tech Research Institute C.J. Hutto Georgia Tech Research Institute

Modeling & Simulation 1		Modeling & Simulation 2	System Security Engineering (SSE)	Systems Engineering Effectiveness	Agile in Systems Engineering	Architecture	Engineered Resilient Systems (ERS)	Program Management	Human Systems Integration (HIS)
Audubon B		Audubon C	Audubon D	Audubon E	Audubon F	White Ibis	Snowy Egret	Wilson's Plover	Sandhill Crane
2:00 pm	21523 Interdiction: The Application of SysML State Machines to Cybersecurity Michael Vinarcik Booz Allen Hamilton	21309 Formal and Probabilistic Modeling in the Engineering of Resilient Multi-UAV Swarms Azad Madni University of Southern California SSI	20591 Systems Engineering Challenges for Integrating Software Assurance into Defense Systems Throughout the System Acquisition Lifecycle Kenneth Nidiffer Software Engineering Institute	21554 Senior Business Process Manager Geoff Draper Harris Corporation	21363 Going DevOps in GovCloud – Trials and Travails of Standing Up a DevOps Pipeline in AWS John Mallinger Raytheon Company	21366 Your Father's Architecture: Does it Matter Anymore – Is it the Critical Piece or a Waste of Money? Michael Coughenour Lockheed Martin	21425 Securing the ERS Digital Workflow Greg Eakman BAE Systems	21346 Acquisition Agility Act of FY 2017 NDAA Robert Gold OUSD (R&E)	21440 Combat Operations Center Hazardous Noise Root Cause Analysis Rachael Lund NSWC Dahlgren Division
	NETWORKING BREAK – AUDUBON FOYER					NETWORKING BREAK – AUDUBON FOYER			
	21279 Phoenix: The Rebirth of RFESS Quintina Jones Raytheon Company Missile Systems	21579 Pattern Based Systems Engineering and the Smart Enterprise Troy Peterson	21400 Joint Federated Assurance Center (JFAC) Update 2018 Thomas Hurt OUSD (R&E)	20812 Affordable Rocks (and Batteries) – A Lighthearted Dialogue About Value Mike Yokell Lockheed Martin	21364 Infrastructure as Code – Moving to Hardware Defined Infrastructure Brian Davenport Raytheon Company	21439 Leveraging MOSA Practices to Educate the Acquisition Workforce Yvette Rodriguez Defense Acquisition University	21529 ERS is the Catalyst for Collaboration between Industry and Government in Aviation System Modeling David Quinn U.S. Army	21528 Integration of Parametric Cost Estimation with System Architecture – It's a Dirty Job but Someone Has To Do It! Barry Papke No Magic, Inc. Gan Wang BAE Systems	21323 Embedding Human Systems Integration Within Systems Engineering Processes – A Peek into the Draft HSI MIL Handbook Sarah Orr AF 711 th Human Performance Wing HSI Directorate Jessica Shihady AF 711 th Human Performance Wing HSI Directorate
3:30 pm	21305 Key Support Analysis Data used for Modeling a Global Spares Pool Camille Lewis Lockheed Martin	21466 Collaboration in an Authoritative Source of Truth Environment using Open MBEE Benjamin Kruse Stevens Institute of Technology	21570 Considering Cyber-Resilience and Sustainment Supply Chain within a Blockchain (Shared Ledger) Paradigm Charles Miller Raytheon Company	20813 Complications with Using Affordability Efficiency Measures Mike Yokell Lockheed Martin	21375 Systems Engineering for Highly Rapid Development: The Parallel Agile Process Doug Rosenberg Parallel Agile, Inc. Barry Boehm University of Southern California	21357 Comprehensive Architecture Strategy Marcell Padilla CRL Technologies, Inc.	21519 Engineered Resilient Systems – Enabling Analysis of Large-Scale Maintenance Data through Innovative Techniques Maria Seale USACE Engineer Research and Development Center	21376 Technology Advancement in NASA's Small Business Innovation Research Program Andrea Belz University of Southern California	21308 Toward Next Generation Adaptive Cyber-Physical-Human Systems Azad Madni University of Southern California
	21320 CREATE as an Early Example of a DoD "Software Factory" Richard Kendall High Performance Computing Modernization Office	21338 An MBE Manifesto Edward Carroll Sandia National Laboratories Chris Schrieber Lockheed Martin Corporation	21402 Advancing DoD Software Assurance (SwA) Thomas Hurt OUSD (R&E)		21469 Principled Design vs. Designing for Principles Erin Ryan The Aerospace Corporation	21565 Actionable Architecture through Aspect Modeling Laura Hart MITRE Corporation	21687 Computational Analyses in Support of the World's Best Hypersonics Systems Col Kelly Tucker SAF/AQR	21298 Readiness Level Assessment Tool for Nuclear Weapons Programs Glenn Bell National Nuclear Security Administration	21395 Engineering the Complete System: Hardware, Software, AND People Michael Pietryga Air Force 711th Human Performance Wing HSI Directorate
4:30 pm	21538 On the Topic of Navy Antiship Missile Threat Modeling and Simulation Requirements Warren Boord NSWC/DD	Frank Salvatore Engility Corporation Bill Schindel ICTT Sharon Trauth Sandia National Laboratories Dana Grisham Sandia National Laboratories Nancy Hayden Sandia National Laboratories	21311 Industry Thoughts on a Market of Assured and Trustworthy Complex Cyber/Physical Systems Robert Martin MITRE Corporation			21345 Session Title Col Steve MacLaird, USAF (Ret) Object Management Group	21424 Challenges and Opportunities for High-Fidelity Computational Modeling to Support Future Vertical Lift Andrew Wissink U.S. Army Aviation Development Directorate, AMRDEC	21287 The Excellent 3-in-1 Systems Engineering Tool (SET)! Denise Shealey AFLCMC/EZSI	

Modeling & Simulation 1		Modeling & Simulation 2	System Security Engineering (SSE)	Environment, Safety & Occupational Health (ESOH)	Tool Vendor Demonstrations for MBSE/Digital Engineering	Architecture	Engineered Resilient Systems (ERS)	Development Test & Evaluation (DT&E)	System of Systems (SOS)
Audubon B		Audubon C	Audubon D	Audubon E	Audubon F	White Ibis	Snowy Egret	Wilson's Plover	Sandhill Crane
8:00 am	21415 What's the Difference Between Digital Engineering and Product Lifecycle Management (PLM)? Steven Dam SPEC Innovations	21328 A Model-Based Requirements Engineering Framework for Developing Military Healthcare Delivery Requirements Steven Biemer Johns Hopkins University	21410 Software Assurance Concept of Operation – Advancing Software Assurance in the Modern Age Kenneth Nidiffer CMU Software Engineering Institute Bradley Lanford Engility Corporation	21343 Operationalizing the Munitions Risk Management Assessment Process Mark Peterson Booz Allen Hamilton, Carderock Division	21351 Discovering Tool Capabilities to Support Engineering Activities David Long Vitech	21419 Implementing DoDAF and UAF Steven Dam SPEC Innovations	21548 A Digital Exploration of System Trade-Offs Greg Eakman BAE Systems	21472 MBSE for Developmental Test & Evaluation Gary Honea Raytheon Company	20627 Status of the Development of International Standards for Systems of Systems Mike Yokell Lockheed Martin
	21522 Semantic Web Technology Architecture to Enable Digital Thread Mark Blackburn Stevens Institute of Technology	21370 Understanding Discontinuous Technologies Using Model-Based Systems Engineering (MBSE) Behavior Models Wendy Golden Aerospace	21416 Systems Engineering Considerations for Achieving System Resilience Michael McEvilley MITRE Corporation	21748 Impact Assessment and Technology Road Map for Chromium Drew Rak Noblis	21351 Discovering Tool Capabilities to Support Engineering Activities Steven Dam Spec Innovations	21371 The Sensor Open Systems Architecture (SOSA) Initiative in a Nutshell Steven Davidson Raytheon Company	21433 Architecting Resilient Systems with Design Structure Matrices and Network Topology Analysis Robert Hill George Washington University	21396 A Model-Based Framework to Evaluate Total System Performance of Unmanned Surface Vessels (USV) Daniel Veit George Washington University	20628 Overview of System of Systems (SoS) Managerial and Operational Affinity – Assessing and Improving Relationships Within Systems of Systems Mike Yokell Lockheed Martin
	21568 A Systems Engineering Tools Ecosystem Matthew Hause PTC	21385 A Model-Based Systems Engineering Approach to Communicating and Verifying Dynamic Requirements in Contracted System Development Donald Barrett George Washington University	21447 Cybersecurity the Systems Engineering Way David Olmstead Lockheed Martin	21420 Use of Draft MIL-STD-882E, Task 108, to Prohibit & Eliminate Cr6+ Gene McKinley U.S. Air Force	21351 Discovering Tool Capabilities to Support Engineering Activities Dirk Zwemer Intercax			21517 Network Analysis of SysML Data to Inform Test and Evaluation MAJ Stephen Gillespie U.S. Military Academy	21280 Mission Engineering and Prototype Warfare: Operationalizing Technology Faster to Stay Ahead of the Threat Matthew Horning U.S. Army TARDEC
9:00 am	NETWORKING BREAK – AUDUBON FOYER					NETWORKING BREAK – AUDUBON FOYER			
	21353 Model-based Systems Engineering (MBSE): Using Semantic Web Technology to Enable Integration Roshan Patel U.S. Army RDECOM ARDEC	21443 A Model-Based Systems Engineering Approach to Communicating and Verifying Dynamic Requirements in Contracted System Development Donald Barrett George Washington University	21342 Enhancing DoD Technological Advantage Brian Hughes OUSD (R&E)	21412 Leveraging System Safety to Improve System Security Michael McEvilley MITRE Corporation	21351 Discovering Tool Capabilities to Support Engineering Activities Jason Wilson No Magic, Inc.	21359 Modular Open Systems Approaches (MOSA) Panel: Discussion of MOSA Frameworks Philomena Zimmerman OUSD (R&E) <i>Moderator</i> John Bowling Air Force Life Cycle Management Center Kenneth O'Driscoll NAVAIR 4.1.2.1 John Stough PEO Aviation Daniel Torres US Army TARDEC	21240 Preparing Chief Engineers for the Digital Engineering Transformation Lt Col Karl Schwenn Credence Management Solutions	21293 Acquisition Agility: Reciprocity and Efficiencies in Approved Products List Testing Danielle Mackenzie DISA JITC	21284 Cyber-Physical Systems and System of Systems Architecting Tool Cihan Dagli University of Missouri Science and Technology
	21495 Model-Based Enterprise Maturity Model that Captures Both Digital Capability and Organizational Effectiveness Jason Hatakeyama The Boeing Company	21541 Requirements Partitioning, the RMF, and MBSE Ronda Henning Harris Corporation	21406 Systems Engineering Perspectives for Cybersecurity Requirements Derivation Michael McEvilley MITRE Corporation	21313 MIL-STD-882E Revised Level of Rigor Doug Peterson AFMC/SES	21351 Discovering Tool Capabilities to Support Engineering Activities Gavin Arthurs IBM		21321 The Steps to Success: A Career Development Model Based on the New INCOSE SE Competency Framework Don Gelosh Worcester Polytechnic Institute		21411 Lead Systems Integration: An Engineering and Management Strategy for System of Systems Warren Vaneman Naval Postgraduate School

THURSDAY, OCTOBER 25

Modeling & Simulation 1	Modeling & Simulation 2	System Security Engineering (SSE)	Environment, Safety & Occupational Health (ESPH)	Tool Vendor Demonstrations for MBSE/Digital Engineering	Architecture	Education & Training	Enterprise Health Management/Prognostics/Diagnostics/Reliability	System of Systems (SOS)
Audubon B	Audubon C	Audubon D	Audubon E	Audubon F	White Ibis	Snowy Egret	Wilson's Plover	Sandhill Crane
21330 Integrated Model Based Engineering Nidal Eid ARDEC	21360 INCOSE Systems Engineering Transformation Troy Peterson SSI	21403 Engineering Cyber-Resilient Weapon Systems (CRWS) Workforce Development Workshop Melinda Reed OUSD (R&E)	21310 Verifying Software Control Categories (SCCs) Using Quantitative Fault Tree Analyses (FTAs) Robert Smith Booz Allen Hamilton	21351 Discovering Tool Capabilities to Support Engineering Activities Steven Goldner Cadence	21359 Modular Open Systems Approaches (MOSA) Panel: Discussion of MOSA Frameworks Philomena Zimmerman OUSD (R&E) Moderator	21334 Manufacturing and Quality (M&Q) Body of Knowledge (BoK) Andrew Monje OUSD (R&E)		21430 An Attack Graph-Based Vulnerabilities Framework for Systems of Systems Thomas Horan U.S. Air Force
21521 Model-Based Engineering (MBE) Structures Viewed Through Axiomatic Investigation in Abstract Algebra & Application Implications Jeffrey Havlicek U.S. Air Force	21348 Transforming Large Scale DoD Organizations Into an MBSE Powerhouse Cory Henry Booz Allen Hamilton		21549 Unmanned System (UxS) IPT and Engineering Precepts for Safe Autonomy Michael Demmick NOSSA	21351 Discovering Tool Capabilities to Support Engineering Activities Tony Davenport Phoenix Integration	John Bowling Air Force Life Cycle Management Center Kenneth O'Driscoll NAVAIR 4.1.2.1 John Stough PEO Aviation Daniel Torres US Army TARDEC	21344 Competency-Based Assessment of Systems Engineers: Results and Recommendations from a United Kingdom Pilot Program for INCOSE Certified Systems Engineering Professionals (CSEP) Courtney Wright INCOSE		21487 System of Systems Model Building and Acausal Simulation Environment Peter Menegay SynaptiCAD
NETWORKING LUNCH – AUDUBON A					NETWORKING LUNCH – AUDUBON A			
21286 Connecting the MBE Gap: Linking Systems and Hardware Designs through OSLC Julie DeMeester Raytheon Company	21468 Systems Engineering Transformation Surrogate Pilot Use Cases Enabling a New Operational Paradigm for Acquisition Mark Blackburn Stevens Institute of Technology	21310 Verifying Software Control Categories (SCCs) Using Quantitative Fault Tree Analyses (FTAs) Robert Smith Booz Allen Hamilton	21537 Digital Engineering Philomena Zimmerman OUSD (R&E)	21351 Discovering Tool Capabilities to Support Engineering Activities Brian Chambers Dassault	21354 MOSA Standards Showcase Michael Heaphy Defense Standardization Program Office John Bowling Air Force Life Cycle Management Center Ken O'Driscoll FACE Benjamin Peddicord CMOSS	21347 Empowering the Department of Defense Engineer Robert Gold OUSD (R&E)	21350 DMSMS/Obsolescence Panel Robin Brown Defense Standardization Program Office Ethan Plotkin GDCA KiHo Kang KIHOMAC Lance Magnusson Obsolescence Branch Manager at NUWC Division, Keyport	Modeling & Simulation 3
								Audubon B
21327 Transforming Systems Engineering to Take Advantage of the Digital Revolution Edward Kraft University of Tennessee Space Institute	21498 Lesson Learned from Boeing's MBSE Implementation: Different Roles and Skill Sets Needed in a Successful MBSE Deployment Glendora Ferguson The Boeing Company	21412 Leveraging System Safety to Improve System Security Michael McEvilley MITRE Corporation	21355 Streamlining ESOH in Acquisition: What's on the Horizon? David Asiello OASD (EI&E)	21351 Discovering Tool Capabilities to Support Engineering Activities Joe Colloca PTC		21365 Modular Online Open SoSE Education and Training (MOOSE) Judith Dahman MITRE Corporation		
21421 Turning the Digital Thread Into Reality Steven Dam SPEC Innovations	21409 Organizational Considerations for Effective Model-Based Systems Engineering Implementation Warren Vaneman Naval Postgraduate School	21313 MIL-STD-882E Revised Level of Rigor Doug Peterson AFMC/SES	21380 Adapting ESOH Risk Management for Rapid Prototyping and Rapid Fielding Programs Lori Hales Booz Allen Hamilton	21351 Discovering Tool Capabilities to Support Engineering Activities Robert Bailargeon Sodius		21418 What is the Future of Systems Engineering? Steven Dam SPEC Innovations		

Modeling & Simulation 1	Modeling & Simulation 2	System Security Engineering (SSE)	Environment, Safety & Occupational Health (ESOH)	Tool Vendor Demonstrations for MBSE/Digital Engineering	Architecture	Education & Training	Enterprise Health Management/Prognostics/Diagnostics/Reliability	Environment, Safety & Occupational Health (ESPH)
Audubon B	Audubon C	Audubon D	Audubon E	Audubon F	White Ibis	Snowy Egret	Wilson’s Plover	Audubon B
BREAK – AUDUBON FOYER					BREAK – AUDUBON FOYER			
21545 The Digital Twin Throughout the SE Lifecycle Matthew Hause PTC	21437 Model Based System Operations: Enabling Rapid Adaptability and Operational Resiliency in the Digital Era T.J. Mathieson Northrop Grumman Innovation Systems	21431 Leveraging Vulnerability Prediction Models to Aid Cyber Security Planning Raymond Chow Lockheed Martin	21312 Leveraging Industry Standards and Tools in ESOH Risk Management Yvonne Pierce The Boeing Company Timothy Sheehan Raytheon Company	21351 Discovering Tool Capabilities to Support Engineering Activities David Green Ansys	21369 Organizing, Acquiring, and Architecting for Strategically Proactive Obsolescence Management of Mission Critical Avionics and Electronic Control Systems Markeeva Morgan George Washington University	21403 Training the Cybersecurity Workforce Melinda Reed OUSD (R&E)	21307 Applying Science and Technology to Sustainment of Legacy Systems Marilyn Gaska Lockheed Martin	21429 The Supporting Acquisitions Strategic Objective: APHC Initiatives Timothy Kluchinsky U.S. Army Public Health Center
21508 Integrating SysML with PLM Platform to Enable Enterprise MBSE Capabilities to Develop Right Systems Right on Time and on Budget Gan Wang BAE Systems Saulius Pavalkis No Magic, Inc.	21531 Application of MBSE in AGILE Development Tamara Hambrick Northrop Grumman Enterprise Services Jason Forth NAVAIR	21534 Risk, Issue, and Opportunity Management Guidance for Cybersecurity Cory Ocker Raytheon Company	21414 Naval Sea Systems Command’s (NAVSEA) Approach for Managing the Risk of Hazardous Material Usage in New Acquisition Jessica Klotz NSWC, Carderock Division	21351 Discovering Tool Capabilities to Support Engineering Activities Pieter Dermont Modelon	21560 Mission Engineering, Digital Engineering, MBSE, and the Like: The One Underlying Essential Attribute Robert Scheurer The Boeing Company	21542 The Role and Challenges of Systems Engineering Professional Continuing Education Ronald Phipps Air Force Institute of Technology	21332 Update on R&M Engineering Activities: Rebuilding Military Readiness Andrew Monje OUSD (R&E)	21434 Assessment of Acoustic Energy and Hearing Protection Strategies in Support of Army Modernization Olivia Webster U.S. Army Public Health Center
21563 Interoperate and Collaborate on Heterogeneous MBSE Models to Support Acquisition Process Sanjay Khurana Dassault Systems	21324 Continuous Virtual Integration Rand Whillock Adventium Labs	21308 Toward Next Generation Adaptive Cyber-Physical-Human Systems Azad Madni University of Southern California	21285 Environmental Life Cycle Assessment of Commercial Transportation Activities in the United States Shelia Neumann University of Texas at Arlington	21351 Discovering Tool Capabilities to Support Engineering Activities Carlton Francis Transmagic, Inc.		21566 The Systems Engineering Research Center (SERC): 10 Years of Progress Nicole Hutchinson Stevens Institute of Technology		21394 APHC support to the ALU CDC and JCIDS Processes Robert Booze U.S. Army Public Health Center
	21539 Use of Model- Based Systems Engineering (MBSE) to Improve Program Metrics Howard Gans Harris Corporation	21488 Integrating Systems Engineering, Cyber Security and Cyber T&E through MBSE Barry Papke No Magic, Inc.	21326 ESOH Risk Management in Middle Tier Acquisition Sherman Forbes AF/AQRE	21351 Discovering Tool Capabilities to Support Engineering Activities Alan Mendel Aras		21567 Outside-In Workshop: An Interactive SE Training Approach for High-Tech Organizations Asmae Mhassni Intel Corporation		21358 Revolutionizing Environment, Safety, and Occupational Health (ESOH) in Systems Engineering to Meet Rapid Prototyping/Fielding Under the Middle Tier of Acquisition Corey Pressley Plakos Naval Air Systems Command
CONFERENCE ADJOURNS				CONFERENCE ADJOURNS				