

Forging a New Era: Digital Transformation and the DoD

### **AGENDA**

### MONDAY, OCTOBER 16

1:00 - 5:00 pm

Registration MAIN BALLROOM FOYER



### TUESDAY, OCTOBER 17

Registration 7:00 am - 6:00 pm

MAIN BALLROOM FOYER

Sponsored by: **KEYSIGHT** 

**Networking Breakfast with Tabletop Exhibitors** 7:00 - 8:00 am

MAIN BALLROOM FOYER

Opening Remarks 8:00 - 8:10 am

SALON D&E

John Daly

Engineer/Manager, Booz Allen Hamilton NDIA Systems Engineering Division Chair

**R&E Update** (Pre-Recorded) 8:10 - 8:55 am

SALON D&E

Dr. David Honey, SES

Deputy Under Secretary of Defense for Research and Engineering

Elmer Roman, SES

Director, Mission Integration for Mission Capabilities, OUSD (R&E), Mission Capabilities Introducer

Thomas Simms, SES

Principal Deputy Executive Director, The Office of Systems Engineering and Architecture (SE&A), OUSD (R&E)

In-Person Moderator

DOT&E Responds to New Era of Digital Transformation for the DoD 8:55 - 9:40 am

SALON D&E

Dr. Raymond O'Toole, SES

Principal Deputy Director, Operational Test & Evaluation

Ferguson and Rassa Award Ceremony 9:40 - 10:10 am

SALON D&E

John Daly

Engineer/Manager, Booz Allen Hamilton NDIA Systems Engineering Division Chair Award Presenter

LT GEN THOMAS R. FERGUSON AWARD

Dr. Dinesh Verma

Professor, School of Systems & Enterprises Executive Director, Systems Engineering Research Center, Stevens University

**BOB RASSA EXCEPTIONAL SERVICE AWARD** 

Holly Dunlap

Principal System Security Engineer, Cyber Supply Risk Management Awardee

**Networking Break** 10:10 - 10:55 am

Main Ballroom Foyer

**Keynote Address** 10:55 - 11:40 am

SALÓN D&E

Kristen Baldwin, SES

Deputy Assistant Secretary of the Air Force for Science, Technology, and Engineering, Office of the Assistant Secretary of the Air Force (Acquisition, Technology and Logistics)

**Networking Lunch** 11:40 am - 12:40 pm

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### 12:40 - 1:25 pm DTE&A - Test as a Continuum

### Presented to NDIA ME, SE, T&E Conference

SALON D&E

### Christopher Collins, SES

Executive Director, Developmental Test, Evaluation, and Assessments, OUSD (R&E)

### 1:25 - 2:05 pm

### Tester of the Year & Hollis Award Ceremony

SALON D&E

### Jeff Bilco

Senior Manager, Boeing Test & Evaluation, Engineering Strategy, Technology & Initiatives Award Presenter

#### Christopher Collins, SES

Executive Director, Developmental Test, Evaluation, and Assessments, OUSD (R&E)

Award Presenter

### TESTER OF THE YEAR AWARD

#### LCDR Brian Warren, USN

P-8A Flight Test, Air Test, and Evaluation Squadron Two Zero Awardee

### 1st Lt Cameron Greer, USAF

Lead Flight Test Engineer, AFOTEC Detachment 6

Awardee

### WALTER HOLLIS LIFETIME ACHIEVEMENT AWARD

### George Rumford

Director, Department of Defense Test Resource Management Center Awardee

### 2:05 - 2:50 pm

### Digital Transformation : An Industry's Perspective – Scaling Model-Based Systems Engineering to the Full Enterprise

SALON D&E

### Reggie Cole

Lockheed Martin Senior Technical Fellow and Chief Enterprise Architect

### Chris Phillips

Director of Systems Engineering, Strategic Deterrent Systems-Engineering & Manufacturing Operations, Northrop Grumman

#### 2:50 - 3:20 pm

### Networking Break with Tabletop Exhibitors

MAIN BALLROOM FOYER





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### CONCURRENT BREAKOUT SESSIONS

	1A1 – System Security Engineering	1A2 – Mission Engineering / System of Systems	1A3 - ADAPT	1A4 – Digital Engineering Environment	1A5 – Physics-Based Modeling and Simulation	1A6 – Specialty Engineering & Safety Environmental Engineering	
	Cory Ocker	Dr. Judith Dahmann	Robin Yeman	Patrick Bains	Jonathan Backhaus	Tim Sheehan & Kate Harris	
	SALON A	SALON B	SALON C	SALON D	SALON E	SALON F	
3:20 - 3:50 pm	Program Protection and Secure Cyber Resilient Engineering Initiatives Melinda Reed, SES		ADAPT 1559130  Effective Use of Kanban and Agile Tools to MBSE Programs  Michael Shearin  Associate Division Chief, Systems	Supply Chain Transparency in NSSL Quality Engineering Delivers Resiliency in Space Launch Maj Juan Mayssonet, USSF Chief, NSSL Quality Engineering Branch USSF/AATS Engineering David Rampton	PBMS 1559004  Leveraging digital engineering for the design of hypersonic vehicles  Dr. Valerio Viti  Aerospace and Defense Team Lead, Anys	SE/SEE 1560060  A Hallmark of Mission Resilience: Sustainability in the Acquisition Process David Asiello Director, Sustainment & Acquisition	
	Director, System Security, OUSD (R&E)	ME/SoS 1560075 (Panel)  Mission Engineering – Panel	Engineering Research Division, GTRI	Managing Director, Aerospace & Defense Provenance Chain Network, USSF/AATS Engineering SE&I		(ODASD (E&ER))	
3:50 – 4:20 pm	SSE 1541309  Secure Cyber Resilient Design Guidance Dr. Mark Winstead Chief Engineer, System Security, The MITRE Corporation Mr. Michael McEvilley Principal Systems Engineer, The MITRE Corporation	Dr. Judith Dahmann Technical Fellow, The MITRE Corporation Moderator  Elmer Roman, SES Director, Mission Integration, OUSD Research and Engineering, Mission Capabilities  Dr. Todd Sriver  Acting Deputy Assistant Secretary of Defense (DASD) Strategic, Space, and Intelligence Portfolio Management, OUSD Acquisition and Sustainment  Matthew Fulchino Corporate Executive Director of Mission Analysis, Raytheon Technologies  David Toth  NAVSEA Mission Engineering Lead, NUWC Newport Digital Engineering Lead, Naval Undersea	ADAPT 1559858  Agile EaSA: An Approach for Agile Systems Engineering  Dr. Mark Vriesenga  Director, Model-Based Agile Engineering, BAE Systems	DEE 1523829  Considerations in Applying Standards to Enable Digital Engineering Transformation  Cecilia Tseng  Sr Manager A&D Industry, Dassault Systems	PBMS 1546683  Developing Multi-Disciplinary Optimization Infrastructure  Kaitlyn Britt  Human Factors Engineer, Lockheed Martin Space	SE/SEE 1548651  Sustainability Analysis in the Adaptive Acquisition Framework  Emma Williams  Safety and Environmental Engineering (SEE), Noblis	
4:20 – 4:50 pm	SSE 1562180 (Panel)  Panel - Impressions from  Cyber Resilient Weapon		Intelligence Portfolio Management, OUSD Acquisition and Sustainment  Matthew Fulchino Corporate Executive Director of Mission Analysis, Raytheon Technologies  David Toth  NAVSEA Mission Engineering Lead, NUWC Newport Digital Engineering Lead, Naval Undersea	Intelligence Portfolio Management, OUSD Acquisition and Sustainment  Matthew Fulchino  Corporate Executive Director of Mission Analysis, Raytheon Technologies  David Toth  NAVSEA Mission Engineering Lead, NUWC Newport Digital	ADAPT 1552604  The Three Ways and The Phoenix Project  Robin Yeman  PhD Candidate, SEI Carnegie Mellon	DEE 1559951  Systems Engineering Modernization Roadmap (Status Update)  Nadine Geier  Director, Systems Engineering, OUSD (R&E) (SE&A)  Dr. Kelly Alexander  Technical Lead SE Modernization, SE&A OUSD (R&E) (Contractor Support)	PBMS 1555460  Mission Driven Structural Thermal Optical Performance Analysis Steve La Cava Lead Application Engineer, Ansys, Inc
4:50 – 5:20 pm	Richard F. Massey Senior Tech Fellow, The Boeing Company	Waltare ochici Division Newport	ADAPT  Accelerating Value Delivery in Highly Complex Domains  Kelli Houston  Lockheed Martin Associate Fellow   SAFe Program Consultant (SPC)   Software Engineer Senior Staff – Enterprise Agile Transformation, Lockheed Martin, Missiles and Fire Control	DEE 1544272  Aerospace Digital Engineering Ecosystem: Architecture and Implementation Dr. Erin Ryan Senior Project Engineer, Aerospace Corporation	PBMS 1560080  Simulation and Analysis of the Optical Effects of Fluids  Steven LaCava  Lead Application Engineer, Ansys, Inc.	DoD Joint System Safety Standards Working Group Status and Implementing Civilian Harm Mitigation Response Action Plan Elements into MIL-STD-882E  Lori Hales Lead Application Engineer, Ansys, Inc., Booz Allen Hamilton	

### **Networking Reception with Tabletop Exhibitors**

MAIN BALLROOM FOYER

### WEDNESDAY, OCTOBER 18

### CONCURRENT BREAKOUT SESSIONS

Registration 7:00 AM - 5:00 pm MAIN BALLROOM FOYER

Sponsored by: **KEYSIGHT** 

**Networking Breakfast with Tabletop Exhibitors** 7:00 - 8:00 am

MAIN BALLROOM FOYER

Keynote Address: The Official Digital Engineering Game Show 8:00 - 9:00 am

**Networking Break with Tabletop Exhibitors** 9:00 - 9:30 am

MAIN BALLROOM FOYER



# NDIN Leading the Way in Engagement, Networking, and National Defense

Plan Ahead for Success | 2023 - 2024 Featured Meetings, Conferences, and Events



34th Annual NDIA **SO/LIC Symposium** 

October 30 - 31, 2023 | Washington, DC



**38th Annual National Logistics Forum** 

February 6 - 7, 2024 | Oklahoma City, OK



**2024 Human Systems Conference** 

March 21 - 22, 2024 | Arlington, VA



2023 Aircraft Survivability **Symposium** 

October 31 - November 2, 2023\* | Monterey, CA February 26 - 28, 2024 | Charlotte, NC



2024 Tactical Wheeled **Vehicles Conference** 



2024 Ronald Reagan **Missile Defense Conference** 

April 16 - 17, 2024 | Washington, DC



2023 Expeditionary **Warfare Seminar** 

November 1, 2023\* | Arlington, VA



2024 Pacific Operational Science & Technology (POST) Conference

March 4 - 7, 2024\* | Honolulu, HI



**MODSIM World 2024** 

May 20 - 22, 2024 | Norfolk, VA



I/ITSEC 2023

November 27 - December 1, 2023 | Orlando, FL



2024 Munitions **Executive Summit** 

March 19 - 20, 2024 | Parsippany-Troy Hills, NJ



**Training & Simulation Industry** Symposium (TSIS) 2024

June 12 - 13, 2024 | Orlando, FL

\*All Classified | \*\*Partially Classified

	2B1 – System Security Engineering	2B2 – Mission Engineering / System of Systems	2B3 – Test & Evaluation	2B4 – Digital Engineering Environment	2B5 – Physics-Based Modeling and Simulation	2B6 - Specialty Engineering & Safety Environmental Engineering
	Cory Ocker	Dr. Judith Dahmann	Dr. Dale Moore	Patrick Bains	Jonathan Backhaus	Tim Sheehan & Kate Harris
	SALON A	SALON B	SALON C	SALON D	SALON E	SALON F
9:30 – 10:00 am	Good Enough, Not Great (Yet):Pairing Cyber-Physical Systems Risk Assessment Processes to Lifecycle Needs Andrew Brown Cyber Security Engineer, Modern		T&E 1555281 (Panel)  Transforming and Scaling  DoD Test and Evaluation  Strategies, Guidance,  Policies and Processes  for Artificial Intelligence  Systems Applications	DEE 1545314 Implementing AI in Ontology Development for Digital Thread Integration Solution	PBMS 1558556  Building An In-House MBSE  Training and Education Program  Justin Blevins	SE/SEE 1556404  Agile System Safety in a Model Based Design Environment  Michael Hurley
	Technical Solutions Inc. (MTSI)  Luke Thomas  Chief Design Engineer – Product Security. Rolls Royce		Setting the Stage  Kevin Switick  CEO, Avian LLC  Panel #1 - T&E for	Nicole Manno  Digital Engineer, ManTech International	Chief Digital Engineer, SAIC	Head of Product Safety, BAE Systems Inc.
10:00 - 10:30 am	SSE 1554849  Program Protection Plan Outline and Guidance Update Overview  Melinda Reed, SES  Director, System Security, OUSD (R&E)  Burhan Adam  Director, Policy, Guidance, and Standards, OSD(R&E)	ME/SoS 1556323  Defining Portfolios in the Department of Defense: Linking Portfolios to Strategy and Mission Analysis  John Park USMC Combat Development & Integration	Al: Policy, Plans, and Strategies for Change Dr. Kristen Alexander OSD Operational Test and Evaluation Carol Pomales Principle Systems Engineering/ T&E Group Leader, MITRE Jonathan Elliot Director of Al Assess and Assurance, OSD Chief Digital and Artificial Intelligence Office (CDAO) David Beyrodt Director, Test Design, Operational Test and Evaluation Force	PBMS 1559358  Aligning Digital Engineering and Modeling & Simulation at Office of the Secretary of Defense  Daniel Hettema  Director of Digital Engineering, Modeling & Simulation, SE&A, OUSD (R&E)	PBMS 1558563  Digital Engineering's Inflection Point: Are We Plumbers or Are We Pros?  Justin Blevins  Chief Digital Engineer, SAIC	SE/SEE 1551665  Beyond Traditional Methods: Why Model-Based Systems Engineering is a Game-Changer for Safety Analysis  Kate Kovalovsky  Director of MBSE Services, Strategic Technology Consulting
10:30 - 11:00 am	SSE 1563302  Clarity in the Security Soup Through a Bowtie  Richard Massey  Senior Tech Fellow, The Boeing Company	ME/SoS 1559566  Connecting Mission Engineering, System of Systems, Systems Engineering and Test & Evaluation  Anthony Pratley  CHENG Mission Data Integration, OUSD (R&E)	Panel #2 - T&E for AI: Testing Future Technologies - Challenges and Opportunities  CAPT Eric Mason, USN  Deputy Director, Operational Test and Evaluation Force  Edward Heinbocker	Application Programming Interfaces (APIs) Enabling Data Interoperability in the DoD  Allan Dianic Director, Software Engineering, SE&A, OUSD (R&E)	Interactive and Innovative Training with MBSE Dr. Steven Dam President and COO, SPEC Innovations Michael Jordan Systems Engineer, SPEC Innovations	SE/SEE 1554710  Model-Based Systems Engineering for Iterative MIL-STD-882E Autonomous Ground Vehicle Safety Programs  Frank Fratrik  Vice President, Edge Case Research
11:00 - 11:30 am	SSE 1555255  Trustworthiness and Assurance  Dr. Mark Winstead  Chief Engineer, System Security,  The MITRE Corporation	ME/SoS 1551931  Structuring Strategy to Enable Mission Engineering  John Park  USMC Combat Development & Integration	CEO, SavantX  Dr. Josef Schaff  Chief Scientist, Cyber Dominance Group (JHU APL) Non- Kinetic Warfare Branch  Dr. Bernard Dion  Fellow, Ansys	DEE 1551954  A Usability Framework for Digital Engineering Software  Allen Dukes  Computer Scientist, Air Force Institute of Technology	PBMS 1538459  Future Consideration of Generative Artificial Intelligence (AI) for Systems Engineering Design Andrew Gabel  Systems Engineer, The Boeing Company	SE/SEE 1546505  Determining Safety Risks for Artificial Intelligence/ Machine Learning (AI/ML) Enabled Systems  Christopher Green  General Engineer, Naval Surface Warfare Center Dahlgren Division

11:30 am-12:30 pm Networking Lunch GRANBY BALLROOM

Sponsored by: 5AIC

	2C1 – System Security Engineering	2C2 – Mission Engineering / System of Systems	2C3 – Test & Evaluation	2C4 – Digital Engineering Environment	2C5 – Physics-Based Modeling and Simulation	2C6 – Specialty Engineering & Safety Environmental Engineering
	Cory Ocker	Dr. Judith Dahmann	Jeff Bilco	Patrick Bains	Jonathan Backhaus	Tim Sheehan & Kate Harris
	SALON A	SALON B	SALON C	SALON D	SALON E	SALONF
12:30 – 1:00 pm	SSE 1556542  Critical Program Information Identification Alignment  Randy Woods  Director, SSE and AT, OUSD (R&E)	ME/SoS 1556157  Emerging Complexity Impacts on Systems & Mission Engineering David Chesebrough Vice President, Government, Defined Business Solutions	T&E 1558418  Director Operational Test and Evaluation Initiatives for Adequate Test and Evaluation of Artificial Intelligence Enabled Systems  Dr. Kristen Alexander  Chief Learning and Artificial Intelligence Officer, OSD/DOT&E	Evaluating Cybersecurity Tools for Use in an Early STPA-Sec Methodology as Recommended by the DAU Cybersecurity Best Practices Guidebook for Major Acquisitions  Daniel Newport  Branch Chief, Cyber Technology Development (CTD), Grounds Systems Cyber Engineering (GSCE), Ground Vehicle Systems Center (GVSC), U.S. Army Combat Capabilities Development Command (CCDC)	PBMS 1543107  Understanding Modeling and Simulation Workflows for Digital Engineering Transformation  Risa Gorospe  Senior Systems Engineer, The Johns Hopkins University Applied Physics Laboratory	SE/SEE 1548860  Reducing the Impact of Corrosion on the Force Chris DeLuca Director, Specialty Engineering, SE&A, OUSD (R&E) Robert A. Herron  Director, Corrosion Policy and Oversight, Office of DASD Materiel Readiness, OUSD (A&S)
1:00 – 1:30 pm	SSE 1562269  Aviation and Space Domain Zero Trust  Richard F. Massey  Senior Tech Fellow, The Boeing Company	ME/SoS 1560767  Snip-It Plug-in - An Approach for System of Systems Modeling Reuse  Valentina Waters  Systems Engineer, MBSE, MITRE Corporation  Christina Thompson  Lead Systems Engineer, MITRE	T&E 1559339  A GPU-Based solution to Sensor Emulation and Synthetic Data Generation  John Ploschnitznig Technical Director, Sensor Systems, Ansys Government Initiative	Space F 1566176  NSSL Phase 3 Mission Assurance Framework  Robert Cunningham  Deputy Chief Engineer, US Space Force	Developing Pathways between SysML models and Digital/Virtual Twins Steven Huang Subject Matter Expert, Innovation & Capabilities Organization	SE/SEE 1546370  Updates on Human Systems Integration Governance and Responsibilities for Department of Defense  Mitchell Woods  Human Systems Integration (HSI)/ Systems Safety Lead, OUSD (R&E) SE&A
1:30 – 2:00 pm	SSE 1560891  Sanitization / Anonymity: The Hero that Cybersecurity Maturity Model Certification Needs Cory Ocker System Security Engineer, RTX   NDIA SSE Committee Chair	ME/SoS 1572502  Enhancing United States Space Force Interoperability via Mission Life Extension  Capt Jocelle Rudico, USSF  Chief, Launch Operations and Innovation, USSF/AATS Engineering	T&E 1559340  Data-Driven Test and Evaluation  Dr. Steven Dam  President and COO, SPEC Innovations	AATS Digital Ecosystem  Maj William Deavor, USSF  Digital Engineering Futures Lead,  USSF/AATS Engineering  Daniel Li  Digital Engineering Systems Engineer,  ManTech International,  USSF/AATS Engineering SE&I  Madison Galvin  Senior Member of the Technical Staff,  The Aerospace Corporation,  USSF/AATS	PBMS 1559290  Transforming a Descriptive Systems Model Into a Digital twin for Improving the system development process  Clara Ramirez  Graduate Research Assistant, P&W Institute of Advanced Systems Engineering	SE/SEE 1571915  PFAS - Current Regulatory Environment for Aerospace and Defense Products  Timothy Sheehan  Engineering Fellow, Raytheon Technologies
2:00 – 2:30 pm	SSE 1555151  Secure Cyber Resilient Engineering (SCRE) Practice Melinda Reed, SES Director, System Security, OUSD (R&E)  Dr. Mark Winstead Chief Engineer, System Security, The MITRE Corporation	Implementing the Digital Transformation Trifecta in Air Force Research Lab's 711 Human Performance Wing with the Digital Fusion Cell to Make It Simple Mark Derriso Chief Engineer, AFRL 711 Human Performance Wing Erick Richardson Digital Engineering Subject Matter Expert, AFRL 711 Human Performance Wing	T&E 1560564  Uncertainty Quantification for T&E and Digital Twins  Kaylan Sharma  AE, Ansys Inc.	DEE 1557634  Application of Digital Viewpoint Model (DVM) Concept on NAVSEA Digital Engineering Framework Leqi Zhang Principal Solution Architect, L3 Harris	PBMS 1548934  Approaches for Collaborative Modeling in Cross Company Environments  Amanda Weissman  Software/System Architecture Manager, Lockheed Martin	SE/SEE 1561836  The Relative Human and Ecological Hazards Posed by F3 AFFF Replacement Formulations  Amy DeLong  Toxicologist, Industrial Hygiene Department, Navy & Marine Corps Force Health Protection Command

	2D1 – System Security Engineering	2D2 – Mission Engineering / System of Systems	2D3 – Architecture / MOSA	2D4 – Digital Engineering Environment	2D5 - Physics-Based Modeling and Simulation	2D6 – Specialty Engineering & Safety Environmental Engineering
	Cory Ocker	Dr. Judith Dahmann	Bob Scheurer	Patrick Bains	Jonathan Backhaus	Tim Sheehan & Kate Harris
	SALON A	SALON B	SALON C	SALON D	SALON E	SALON F
3:00 – 3:30 pm	SSE 1551667  Building Mission Assurance with Trusted Suppliers  David Chesebrough Vice President, Government, Defined Business Solutions	ME/SoS 1559007  Mission Engineering in the DoD: Leveraging Advanced Concepts and Digital Transformation for Enhanced Efficiency Whitney Bobbit Director of Integrated Solutions, Ansys	Arch/MOSA 1559037  Assessing the State of MOSA in Defense Acquisition  Nadine Geier  Director, Systems Engineering, SE&A, OUSD (R&E)  Nathaniel Barley  Technical Lead MOSA (Contractor Support)  Monique Ofori  Modular Open Systems Architecture (MOSA) Expert & Systems Engineering Manager, SAIC	DEE 1559458 <b>The 5 pillars of Digital Engineering Environments Eran Gery</b> A&D Industry lead, IBM	PBMS 1559511 (Panel)  Interactive Use of HoloLens Augmented Reality for MBSE  Amir Abrari  System Engineer, SPEC Innovations	SE/SEE 1547312  A System Dynamics Approach for Assessing Policy Impacts on Recycling Cost-Effectiveness: A Case Study on Electric Vehicle Batteries  Guannan Ren  Student, The George Washington University
3:30 – 4:00 pm	1551679 (Panel)  Trusted Suppliers on Assured Microelectronics  David Chesebrough  Vice President, Government, Defined Business Solutions  Sam Hernandez	ME/SoS 1560086  Shared Modeling Framework  - An Approach for System of Systems Modeling Reuse  Dr. Michael Pennock  Principal Systems Engineer, The MITRE Corporation	Systems Engineering Gold: Digital Acquisition, IV&V, and Space Capability Development Use Cases  Jo Ann Vassallo  Deputy SE&I Chief Engineer, ManTech International, USSF/AATS Engineering SE&I  John Wong  Deputy Director of Engineering, USSF/AATS Engineering	DEE 1546720  Armaments Center Digital Engineering Maturation: An Ontology Based Approach Dr. Jason Cook SSTM for SE Research, DEVCOM Armaments Center	PBMS 1524804  Digital Engineering: Systems  Model Exchange Framework  Jeff Pilato  Chief Strategy Officer, Sodius Corp	SE/SEE 1559583  Getting Fall Protection Right: Shaping Requirements and Design to Decrease Lifecycle Cost and Increase Readiness  Shawn Smith  Director Industrial Health & Occupational Health, Office of the Assistant Secretary of Navy, EI&E
4:00 - 4:30 pm	Trsuted Foundry CTO, IBM  John Monk  Director – Micro Systems Technology Center, Northrop Grumman  Catherine Ortiz  CEO, Defined Business Solutions	Digital Engineering and Operational Analysis - Complementary Approaches to Mission Modeling and Simulation Dr. Peter Korfiatis Systems Engineer, The MITRE Corporation Meg Adams, Senior Resource Manager, MITRE	Arch/MOSA 1551892  Architecting Descriptive Models for MBSE  Ryan Noguchi Director, Space Architecture Department, Aerospace Corporation	DEE  NDIA SE Division Initiative: Artificial Intelligence and Systems Engineering, Presentation and Open Discussion John Daly Engineer/Manager, Booz Allen Hamilton	PBMS 1538396  Unleashing the Power of MBSE Model Library Deployments with Cutting-Edge Methods and Strategic Considerations  Andrew Gabel  Systems Engineer, The Boeing Company	SE/SEE 1561848 (Panel)  An Evaluation of the Relationship Between Firefighter Blood PFAS Levels, Age, and Sex in FY20-21  Dr. James Smith  Toxicologist, Defense Center for Public Health – Portsmouth
4:30 – 5:00 pm	SSE 1562513  Securing Your Eggs in Multiple Baskets – Using MBSE to Assure a Resilient and Secure Supply Chain  Matthew Hause  Principal, Systems Strategy Innovation (SSI)	ME/SoS 1557547  Considerations for Designing a Mission Engineering Study  Dr. Michael Pennock  Principal Systems Engineer, The MITRE Corporation	Arch/MOSA 1554101  A Reference Architecture for Digital Engineering Environments Supporting Digital Threads and Digital Twins  Dr. James Coolahan Chief Technology Officer, Coolahan Associates, LLC	NDIA Systems Engineering Division Chair  Patrick Bains  Senior Lead Engineer, Booz Allen Hamilton	PBMS 1556574  It's So Meta!: Modeling Models in a Model Based Style Guide Development  Heidi Jugovic  Chief Digital Engineer, SAIC	Dr. Amy DeLong  Toxicologist, Industrial Hygiene Department, Navy & Marine Corps Force Health Protection Command

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### THURSDAY, OCTOBER 19

### CONCURRENT BREAKOUT SESSIONS

7:00 am - 5:00 pm

Registration
MAIN BALLROOM FOYER



7:00 - 8:00 am

# Networking Breakfast with Tabletop Exhibitors MAIN BALLROOM FOYER

	3A1 – System Security Engineering	3A2 – Mission Engineering / System of Systems	3A3 – Architecture / MOSA	3A4 – Digital Engineering Environment	3A5 – Physics-Based Modeling and Simulation	3A6 – Specialty Engineering & Safety Environmental Engineering
	Cory Ocker	Dr. Judith Dahmann	Bob Scheurer & Ed Moshinsky	Patrick Bains	Jonathan Backhaus	Tim Sheehan & Kate Harris
	SALON A	SALON B	SALON C	SALON D	SALON E	SALON F
8:00 – 8:30 am	SSE 1559127  System Security Software Assurance Roadmap Update  Bradley Lanford  Senior Software Engineer, OUSD (R&E) / SAIC	ME/SoS 1572965  DoD Mission Engineering Guide 2.0 – Evolving the State of Practice in Defense Mission Engineering John Quackenbush Director of Operations for MI Technical Director, OUSD (R&E)	Arch/MOSA 1556698  Program MOSA Transformation Information Needs and Metrics  Stephen Henry  Consultant	DEE 1560155  Digital Thread Data Modeling from Ontology  Alyssa Miller  Systems Engineer Associate, SAIC	PBMS 1558396  An Assessment Framework for the Maturity of Simulation-Based Verification  Ben Stirgwolt  Director of MBSE, Belcan	SE/SEE 1553746  Translating HSI Research into Policy and Guidance: Successes and Challenges Across the Services Eric Engel Human Systems Integration Lead, SAF/AQRE
8:30 - 9:00 am	Systems Engineering Challenges for Integrating Software Assurance into Defense Systems Viewed Through the Prism of Future Systems Dr. Kenneth Nidiffer Adjunct Professor, George Mason University	ME/SoS 1557708  University Support to Mission Engineering Education  Dr. Judith Dahmann Technical Fellow, The MITRE Corporation Dr. Dinesh Verma Professor, School of Systems & Enterprises (SSE)   Executive Director, Systems Engineering Research Center (SERC)	Arch/MOSA 1556664  MOSA Implementation Challenges and Opportunities  Robert Scheurer  Systems Engineer, The Boeing Company	DEE 1560199  SAIC's Game Changing Digital Engineering Ecosystem - ReadyOne Joseph Sopczynski Product Owner, SAIC	PBMS 1561342  Model Based Functional Development and Verification of a Digital Beam Forming Antenna for a UAV Application  Aniruddha Mukhopadhyay  Fellow, Ansys	SE/SEE 1555590  Joint Human Systems Integration Working Group Updates on Capabilities Based Assessment Mitchell Woods Chief Technology Officer, Coolahan Associates, LLC, Army ST&I Directorate Napoleon Gaither Human System Integration Lead, Army Research Laboratories – Human Research & Engineering Directorate
9:00 - 9:30 am	SSE 1553891  Joint Federated Assurance Center Brian Nowotny, Director, JFAC, OUSD (R&E)	Welding Together the US DOD's and the US Contractor Community's Widely-Divergent Approaches to Mission Engineering is Imperative to Ensure Combat Success (and we don't have a lot of time to get this right)  Mack McKinney President, The Center for Project Leadership LLC	Arch/MOSA 1560578  An Architectural Approach to Interdicting Cybersecurity Threats  Michael Vinarcik Chief Digital Engineer, SAIC	DEE 1560206  Digital Engineering Environment (DEE)  Kevin Friske  Principle Engineer, Senior, SAIC  Jacob Donovan  Digital Engineer, SAIC	PBMS 1547834  Definition of a SysML v2 MBSE  Methodology Model and its Application to a Digital Beamforming Use Case  Dr. Bernard Dion  Fellow, Ansys	SE/SEE 1546711  Human Engineering as Force Multiplier: Getting the Most from Systems Engineering  Benjamin Schwartz  Director of Human Engineering, Monterey Technologies, Inc.

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### 9:30-10:00 am

# Networking Break with Tabletop Exhibitors MAIN BALLROOM FOYER

	3B1 – System Security Engineering	3B2 – Mission Engineering / System of Systems	3B3 – Architecture / MOSA	3B4 – Digital Engineering Environment	3B5 – Physics-Based Modeling and Simulation	3B6 - Specialty Engineering & Safety Environmental Engineering
	Cory Ocker	Dr. Judith Dahmann	Bob Scheurer & Ed Moshinsky	Patrick Bains	Jonathan Backhaus	Tim Sheehan & Kate Harris
	SALON A	SALON B	SALON C	SALON D	SALON E	SALON F
10:00 - 10:30 am	SSE 1559405 (Panel)  Industry Lessons Learned from Software Supply Chain Security Implementation w/ Focus on SSDF  Kirk Rasmussen  Technical Fellow Cybersecurity, Collins Aerospace  Richard Massey  Senior Technical Fellow, Boeing  Ronda Hennig	ME/SoS 1559890 (Panel) <b>The Role of Digital Engineering</b>	Arch/MOSA 1558220  Model-Based Acquisition (MBAcq) User Group: Uniting Government and Industry through Collaborative Standardization  Laura Hart  NDIA Systems Engineering Division Vice Chair   Engineering Research Engineer, Lockheed Martin	DEE 1560257  Open, Collaborative, Scalable Digital Engineering: Multi-Disciplinary Modeling & Simulation Management David Green Principal Federal Programs, Ansys Inc.	PBMS 1556469  Digital Transformation in Program Office Environment  Maj William Deavor, USSF  Digital Engineering Futures Lead, USSF/AATS Engineering  Giorgio Gaputan  Deputy SE&I Digital Engineering Lead, ManTech International, USSF/AATS Engineering SE&I  Madison Galvin  Senior Member of the Technical Staff, The Aerospace Corporation, USSF/AATS	SE/SEE 1546734 (Panel)  The Role of Humans and Human Engineering in the Systems Engineering Process  Benjamin Schwartz  Director of Human Engineering, Monterey Technologies, Inc.  Tony Thomas  Human Systems Integration Team Lead, NASA Langley Research Center  Gordon Gattie
10:30 - 11:00 am	Mission Solutions Architect – Cybersecurity and Fellow, L3 Harris  Fred Jones  Senior Technical Fellow Cybersecurity Research, Raytheon Technologies	Environments (DEE) in Delivering Multi-Domain Operations (MDO)-enabling System of Systems Steven Geary Chief Engineer, Integrated Defense Solutions, BAE Systems	Arch/MOSA 1559201  Assured Armaments Reference Architecture (AARA)  Michael Brattoli  Assured Armaments Reference Architecture (AARA) Lead, DEVCOM Armaments Center	DEE 1561251  In Pursuit of a Digital Twin  John McCrea  Lead Engineer, MMIII Flight Destruct System, Beast Code	Curating Digital Threads for Effective Decisions and Model Lifecycle Management Lonnie VanZandt Principal Solutions Architect, Intercax	Navy NAVSEA05H Integrated Warfare Systems Engineering <b>Rick Maldonado</b> Alpha US-HF, Lockheed Martin
11:00 - 11:30 am	SSE 1559086  DoD Software Modernization and the Program Protection Plan  Bradley Lanford  Senior Software Engineer, OUSD (R&E) / SAIC	Donavan Taylor BAE Systems  Dr. John Braswell  President/CEO, Crossflow Technologies  Dr. Eric Sholes  ESEP Systems Engineer, Crossflow Technologies	Payback DevSecOps Architecture: A new approach to weapon system software deployment and integration across interfaces Fred Jones Senior Technical Fellow, Cybersecurity Research, Raytheon Technologies Research Center	Overcoming Barriers to Realize the DOD's Digital Engineering Strategy  Chris Swickline  Chief Digital Engineer, SAIC	PBMS 1559528  The Air Force Sustainment Center's Digital Engineering / Model-Based Systems Engineering (MBSE) Framework for the Additive Manufacturing Digital Thread  Matthew Hockenbrock  USAF AFSC/EN	Defense Contractors Utilization Hazardous of Materials Management Program (HMMP) to Hazardous Materials (HAZMAT) Risk Assessment and Reporting. Samantha Clay Senior Principal System Safety Engineer, Raytheon
11:30 am - 12:00 pm	Cyber Supply Chain Risk A System Security Engineering Requirement Holly Dunlap Principal System Security Engineer, Cyber Supply Chain Risk Management, The MITRE Corporation		Arch/MOSA 1548465  Program Architecture Design and Rationalization  Richard Franco  Systems Engineer, The Boeing Company	DEE 1562285  Digital Acquisition - Digital prototypes and executable models for proposal evaluation  David Green  Principal Federal Programs, Ansys Inc.	PBMS 1549529  FireSat Case Study: Effectively Bridging MBSE and MBD  Kirsten McCane  Defense Industry Segment Manager, MathWorks	

Lunch On Own 12:00-1:00 pm

	3C1 - System Security Engineering	3C2 – ADAPT	3C3 – Architecture / MOSA	3C4 – Digital Engineering Environment	3C5 – Physics-Based Modeling and Simulation	3C6 − Integrated Program Management
	Cory Ocker	Robin Yeman	Bob Scheurer & Ed Moshinsky	Patrick Bains	Jonathan Backhaus	Stewart Tague & Michelle Storm
	SALON A	SALON B	SALON C	SALON D	SALON E	SALON F
1:00 – 1:30 pm	Training the DoD Acquisition Workforce in Secure Cyber Resilient Engineering: A Storyboard Approach Being Integrated into the Defense Acquisition University Credential Program Paul McMahon Contractor Support, OUSD (R&E)	ADAPT 1542797  Systems Engineering Agility  - Eight Strategic Aspects  Rick Dove  Independent	Arch/MOSA 1560612  A Tale of Two OSAs: Integration of the DEWS Reference Architecture into the SOSA Technical Standard Dr. Steve Davidson Chief Scientist for Systems Architecture, MITRE Corporation	DEE 1559371  Successful Digital Engineering Program Execution within the Constraints of DoD Acquisition Lifecycle Management Fredda Lerner Senior Engineering Specialist, Aerospace Corporation	PBMS 1560187  Integrated Systems Driven Development & Simulation In A Digital Engineering Ecosystem  David Ewing  Director, Digital Engineering, SAIC	IPM 1556555  How to Exploit DevSecOps Pipeline of Pipelines Data for Program Management William Nichols  MTS, Carnegie Mellon University/ Software Engineering Institute
1:30 - 2:00 pm	SSE 1555155  Fundamentals of Cross Domain Solutions in the DoD  Singithi De Silva  Cybersecurity Engineer, OUSD (R&E)	ADAPT 1546525  The Need for New Agile Roles and Responsibilities in Government  Cynthia Ferreira  Federal Strategic Advisor, Scaled Agile, Inc.	Arch/MOSA 1562560  Modeling Enterprise Software and Systems Architectures Using the UAF  Matthew Hause Principal, Systems Strategy Innovation (SSI)		PBMS 1560665  The Emerging Air Vehicle Government Reference Architecture Keith Siders Engineer, AFLCMC/EZSI	IPM 1549958  A Fuzzy Quality Function Deployment Based Systematical Approach for Process Maturity Measurement Serhat Kaya Quality Engineer, Turkish Aerospace
2:00 – 2:30 pm	SSE 1554085  Metrics-based Software Vulnerability Discovery Model to Support Cybersecurity Test & Evaluation  Lance Fiondella  Professor/Research Scientist, University of Massachusetts Dartmouth/US Army Corps of Engineers Engineer Research and Development Center	ADAPT 1546531  Agile Acquisition of Safe Services for Government  Cynthia Ferreira  Federal Strategic Advisor, Scaled Agile, Inc.	Arch & ME 1522971  Linking UAF and SysML  Models: Achieving Alignment between Enterprise and System Architectures  Dr. James Martin  System Architect, Aerospace Corporation	DEE 1527466  Accelerating Digital Transformation using a Longitudinal Assessment Survey of Strategic Adoption Conditions (LASSAC)  Joseph Campagna  Associate Director, Systems Engineering, RTX   PhD Candidate, Worcester Polytechnic Institute	PBMS 1565328  Developing a Model-Based Request for Proposal for Legacy Aircraft Sustainment Cole Piper Fuze Engineer, Air Force Institute of Technology	IPM 1552618  How To Assess and Progress Your Digital Engineering Maturity  Toni Nolder  Digital Communication Satellite System Engineer, The Aerospace Corporation

Networking Break with Tabletop Exhibitors
MAIN BALLROOM FOYER 2:30 - 3:00 pm

	3D1 – Test & Evaluation	3D2 - ADAPT	3D3 – Architecture & Mission Engineering	3D4 – Digital Engineering Environment	3D5 – Physics-Based Modeling and Simulation	3D6 – Integrated Program Management
	Jeff Bilco	Robin Yeman	Bob Scheurer & Ed Moshinsky	Patrick Bains	Jonathan Backhaus	Stewart Tague & Michelle Storm
	SALON A	SALON B	SALON C	SALON D	SALON E	SALON F
3:00 – 3:30 pm	T&E 1549000 <b>Model-Based Test and</b>	ADAPT 1551886 <b>How Agile Enables FOSS</b>	Arch & ME 1559610  Digital Mission Architectures - Challenges and Opportunities	DEE 1559101  Digital Engineering: Practical	PBMS 1554864  Transforming Perimeter Cybersecurity to a Zero Trust Strategy Using Model	IPM 1552748  Driving Digital Transformation with Contracts  Capt Alex Ciolek, USSF  System Safety Program Manager, USSF/AATS Engineering
	Evaluation Master Plan Concept  Randy Saunders  Principal Investigator, Johns Hopkins University APL	Usage and Modernization  Kurt Mohr  Director, Intelligence & Space Common Engineering, Raytheon	for Mission Engineering and Integration Jaime Bestard Chief Engineer, Digital Mission Architecture, OUSD (R&E)	Considerations for Implementation across the System Lifecycle  Darryl Howell  Sr. Systems Engineer, PCG	Based System Engineering (MBSE)  Patrick Meharg  Chief Architect - Model Based  System Engineering	Tyler Peterson  SE&I Digital Engineering Lead, ManTech International, USSF/AATS Engineering SE&I  Toni Nolder  Associate Director, Space Architecture Dept., The Aerospace Corporation, USSF/AATS
3:30 - 4:00 pm	T&E 1561004  Adopting a New Perspective on Test and Evaluation to Accelerate Digital Acquisitions  Amanda Tierney  Senior Acquisition Integration Engineer, Air Force Test Center	ADAPT 1560557  Agile System Engineering Planning and Integration of Design Reviews  Paul Zajac  Fellow, Lockheed Martin	Digital Engineering and Meta-Architectures for Missions Engineering Richard Thelked PhD Student, Missouri University of Science & Technology Dr. Cihan Dagli Professor of Engineering Management and Systems Engineering, Missouri University of Science & Technology	SysML v2 Transition Guide  Daniel Hettema  Director of Digital Engineering, Modeling & Simulation, SE&A, OUSD (R&E)  Frank Salvatore  Senior Systems Engineer (Contractor Support), Digital Engineering, Modeling & Simulation, SE&A, OUSD (R&E)  Emily Bak  Systems Engineer (Contractor Support), Digital Engineering, Modeling & Simulation, SE&A, OUSD (R&E)	Identification and Mitigation of Security Classification Marking Challenges and Risks for Descriptive Models Ryan Noguchi Director, Space Architecture Department, Aerospace Corporation	IPM 1555093  Internal Projects: The Nightmare of Systems Engineers  Dr. Ahmet Guray Pehlivanoglu  TUBITAK SAGE (The Scientific and Technological Research Council of Turkiye, Defence Industries Research and Development Institute)
4:00 – 4:30 pm	T&E 1556600  Digital Engineering Enabled Automated Dashboards and Reports for Test Planning and Test Execution  Dr. Daniel Scoggin Chief Systems Engineer, SAIC	ADAPT 1556340  Tracking Performance in a DoD Agile/DevSecOps Environment Dr. Mike Orosz Research Associate Professor & Research Director, Decision Systems, University of Southern California Information Sciences Institute	Arch & ME 1562586  Darth Vader's Secret Weapon - Implementing Mission Engineering with UAF  Matthew Hause  Principal, Systems Strategy Innovation (SSI)	Proposed New Continuing Education and Development Plan for USAF Acquisition Engineers Richard Sugarman Department Head, Air Force Institute of Technology		IPM 1559938  Context Sensitive Knowledge Management & Help system  Tyler Kim  Digital Engineer, SAIC
4:30 – 5:00 pm	T&E 1556795  Benefits & Challenges of applying Digital Twins & Hybrid Analytics in Testing & Evaluation Programs  Vitor Lopes Pereira  Senior Product Sales Manager - Digital Twins, Ansys	ADAPT 1560950  Agile Systems Engineering Planning and Integration of Design Reviews - Reference Example Paul Zajac Fellow, Lockheed Martin		Policy Options to Promote DoD- Defense Industry Collaboration in STEM Education and Workforce Development Dr. Payuna Uday Research Scientist, Systems Engineering Research Center (SERC)	Comparing Model Based Systems Engineering with Digital Engineering in Other Domains Charles Stirk Senior Research Engineer, GTRI	Novel and Evidenced-Based Project Duration Forecasting for Acquisition Programs Characterized by Low-Volume Highly-Complex New Product Development Dr. Bruce Chehroudi Principal Rocket Propulsion Engineer, ManTech International, USSF/AATS Engineering SE&I

Closing Remarks Provided by Track Chairs

5:00 pm

# **ON-DEMAND PRESENTATIONS**

### A Natural Language Processing-Based Approach to Automating the Maintenance Work Order Prioritization Process: Understanding Sentiments in Context-Aware Systems

#### Joshit Mohanty

PhD Student and Graduate Assistant, Old Dominion University

#### Cansu Yalim

PhD Student and Graduate Assistant, Old Dominion University

This research presents a natural language processing-based approach to understanding sentiments in maintenance reports, thereby reducing subjectivity in decision-making.

# Cluster-Based Exploration of System Readiness Levels: Mathematical Properties of Interfaces

#### Justin Fu, PE

Student, The George Washington University

### Thomas Mazzuchi, DSc

Professor of Engineering Management, Systems Engineering, and Decision Sciences, The George Washington University

#### Shahram Sarkani, PE. PhD

Professor of Engineering Management and Systems Engineering, The George Washinton University

This research builds upon previous mathematical models of system readiness level to address their shortcomings and provide an accessible tool, benchmarked with simulation and past defense weapons program performance data, for the program manager to assess risk and effort prior to committing major resources.

# Coordinating Program Risk Management with Model-Based Systems Engineering

### Shannon Dubicki

Systems Engineering Manager, The Johns Hopkins University Applied Physics Laboratory

### Risa Gorospe

Senior Systems Engineer, The Johns Hopkins University Applied Physics Laboratory

This presentation discusses how program risk management can be coordinated with Model-Based Systems Engineering (MBSE). We will discuss the challenges of implementing this as digital thread between risk management and system architecture. We will demonstrate a capability addressing some of these challenges using Cameo, JIRA, and other software.

# Curating Digital Threads for Effective Decisions and Model Lifecycle Management

### Lonnie VanZandt

Principal Solutions Architect, Intercax

Knowledge enables us to make better decisions. We model in order to know more sooner – but modeling yields too much: we need curation to make apparent what is relevant. Curators are an important and overlooked role in digital engineering. Curators communicate knowledge from clutter. Curators need a digital thread platform for model-based engineering.

# Evolving Digital Truth - MBE for Requirements, Architecture, and Verification

#### Ken Kubo

Director, Engineering Technologists, Northrop Grumman

#### Sarah Beshir

Systems Engineer, Northrop Grumman

This presentation will introduce approaches to establishing a technical baseline using Model-Based Engineering (MBE). The idea is to extend the utility of modeling to link requirements, system architecture, and verification approaches to provide a complete, consistent, and current understanding of the technical baseline - the system as it was, is, and will be.

# From Nodes to Insights: Harnessing Graph Theory in the Lifecycle Modeling Language to Enhance Systems Engineering

#### Lilleigh Stevie. MS

Systems Engineer, SPEC Innovations

### Steven Dam, PhD ESEP

President and COO, SPEC Innovations

This paper discusses how to apply requirements analysis, functional analysis, risk analysis, and other systems engineering techniques to improve the development and implementation of policies.

# How Ted Lasso Helps Us Lead the Agile Change at Lockheed Martin: A Tale of Servant Leadership

### **Jordan Stoner**

Agile Coach, Lockheed Martin

### **Anthony Earl**

Agile Coach, Lockheed Martin

Using quotes and explanations from the show Ted Lasso, a discussion of British English vs. US English, and how we helped Lockheed Martin stand up Agile programs.

# Leveraging Digital Engineering for the Design of Hypersonic Vehicles

### Valerio Viti

Aerospace and Defense Team Lead, Ansys Inc.

In this discussion, we will present the concept of the digital prototype for a hypersonic system. The prototype is based on physics simulations and, when available, test and evaluation data. Select number of validations of the individual physics modeling will be presented to substantiate the framework of the digital twin.

### **MBEasy: Making MBSE Easy Again**

### Mark Vriesenga

Director, Engineering, BAE Systems

We discuss and dispel many of the misconceptions surrounding MBSE that prevent organizations from succeeding with MBSE. For each misconception, we provide an alternative perspective which, when integrated into an organization's engineering process, may provide clarity of purpose, acceleration of work, and improved value for MBSE activities.

# Model Based Functional Development and Verification of a Digital Beam Forming Antenna for a UAV Application 2

### Prem Andrade

Distinguished Engineer, Ansys Inc.

### Aniruddha Mukhopadhyay, PhD

Lead Chief Technologist, Ansys Inc.

A model based functional development and verification of a digital beam forming antenna mounted on an unmanned air vehicle in the context of a design reference mission is presented.

### **Predictive Resilience Modeling**

### Lance Fiondella

Professor, University of Massachusetts Dartmouth Research Scientist, US Army Corps of Engineers, Engineer Research and Development Center

### Priscila de Paula Silva

PhD Student, University of Massachusetts Dartmouth

Resilience is the ability of a system to respond, absorb, adapt, and recover from a disruptive event. This talk presents alternative approaches to model and predict performance and resilience metrics with elementary techniques from reliability engineering and statistics.

# The Octopus Problem: The Need for Model Curation to Preserve and Share Knowledge

### Matthew Hause

Principal, SSI

#### Mitchel Brooks

Systems Engineer, SystemXI

An octopus is an intelligent creature able to solve complex problems. As a solitary this knowledge is not passed on. In Model-Based Systems Engineering projects, this knowledge includes problem solving techniques, algorithms, libraries, patterns, interfaces, components, etc. A model curation standard must be created to share model artifacts.

### The Systems Engineer's Blindspot: Strategic Context

### **Justin Blevins**

Chief Digital Engineer, SAIC

Strategic context has a profound impact on the final system design, yet few Systems Engineers make considerations to represent strategic context in the system's design data. This presentation will define strategic context and make recommendations on how to use modern systems engineering techniques to capture strategic context in a system's design.

### **UAF Style Guide and Model Validation**

### Julie Cannon

Digital Engineer, SAIC

Enterprise Model Style Guide to utilize as a tool for developing enterpriselevel models.

### Using the Unified Architecture Framework in Support of Mission Engineering Activities

### James Martin

Distinguished Engineer, Aerospace Corporation

This presentation will discuss how architecture views in the Unified Architecture Framework (UAF) can be used when doing Mission Engineering studies. UAF provides a framework of standardized views from which to model different aspects of an architecture, including the various concepts and properties of the mission being engineered.