Training Summit Agenda *"Driving Towards Digital"*

HOSTED AT: U.S. Space & Rocket Center *Educator Training Facility, Huntsville, AL*

RAM XV Training Summit

Society of Reliability Engineers — Huntsville

Day 1 - Wednesday, November 1st, 2023

Time	A (Main Classroom)	B (Auditorium)
0800-0900	Sign Up & Registration In Front Lobby (Entrance)	
0800-1630 Front Lobby	Huntsville · Avnik Defense Solutions, Inc. · MTA Ready. Right. Now. · Bastion Technologies · Mission Ready Software · ASI Andromeda Systems Incorporated	
Time	**A (Main Classroom)**	**B (Auditorium)**
0900-0930	Welcome Opening Remarks	Welcome Opening Remarks
Session 1 **0930-1030** **.10 CEUs**	**A1.** Leveraging IIoT Techniques for Real-Time Systems Integration — *Alden Moreton* (Reliant Technologies Incorporated) / Enhancing Reliability Engineering through Advanced Visualizations and User Interfaces — *Zeb Freeman* (Reliant Technologies Incorporated)	**B1.** Effect of R&M Parameters and Interactions on Operational Availability and O&S Costs — *Russ Alexander* (Intuitive Research and Technology) / The Effects of M-out-of-N Systems on Reliability Metrics — *Tate Fleming* (Avnik Defense Solutions, Inc.)
1030-1045	AM BREAK	
Session 2 **1045-12:15** **.15 CEUs**	**A2.** Reliability Engineering The Link to Safety and Risk assessment — *Dr. Fayssal Safie* (A-P-T Research, Inc.)	**B2.** Bridging the Gap Between MBSE and RAM Using Parametric Diagrams — *Keith Zook* (Intuitive Research and Technology) / Using Big Data Analytics Approaches to Analyze Aviation and Missile RAM Data — *Jordan Mills, Kyle Russell, and Connor Green* (Intuitive Research and Technology)
1215-1315	LUNCH BREAK	
Session 3 **1315-1415** **.10 CEUs**	**A3.** The Past, Present, and Future of Probabilistic Risk Assessment — *Richard Meshell* (GE Vernova)	**B3.** Demystifying Large Language Models: How do we use them in reliability? — *Nathan Rigoni* (Lockheed Martin)
1415-1430	PM BREAK	
Session 4 **1430-1600** **.10 CEUs**	**A4.** 1 of 2 First Half of Mod 11 Integrating HW and SW Predictions *NOTE: AvMC RAM Div Mandatory Training Both Halves to be completed for CLPs.* — *Ann Marie Neufelder* (Mission Ready Software)	**B4.** Equipment Reliability Analysis Process and Validation Methods through AI (ChatGPT) - Case Study — *Ernesto Primera* (University of Delaware) / Cracking the Code of Failed Digital Transformations: Key Insights and How to Succeed — *Kristin Weger, Ph.D.* (UAH) / Success Stories for Data Analytics and Visualization — *Rachel Boydston* (Andromeda Systems)
1600-1630	Afternoon Networking & Vendor Booths	
	ADJOURN FOR THE DAY (0.45 CEUs For RAM XV Day 1 - Sessions 1-4)	

Day 2 - Thursday, November 2nd, 2023

Time	A (Main Classroom)	B (Auditorium)
0800-0900	Sign Up & Registration In Front Lobby (Entrance)	
0800-1230 Front Lobby	Huntsville · Avnik Defense Solutions, Inc. · MTA Ready. Right. Now. · Bastion Technologies · Mission Ready Software · ASI Andromeda Systems Incorporated	
Time	**A (Main Classroom)**	**B (Auditorium)**
	A5.	**B5.**
Session 5 **0900-1030** **.15 CEUs**	2 of 2 Second Half of Mod 11 Integrating HW and SW Predictions *NOTE: AvMC RAM Div Mandatory Training Both Halves to be Completed for CLPs.* — *Ann Marie Neufelder* (Mission Ready Software)	The Last 10 Years in Spaceflight: Failures and Fixups — *Quinn Slaugenhoupt* (Bastion Technologies) / Machine Learning Applied in Rotating Machinery for Anomalies Detection & RUL Estimation - Gearbox Case Study — *Ernesto Primera* (University of Delaware)
1030-1045	AM BREAK	
Session 6 **1045-1215** **.15 CEUs**	**A6.** Failure Review Board (FRB) *NOTE: AvMC RAM Div Mandatory Training* — *Mike Olivier* (DEVCOM) / Applying Crow AMSAA to Assess In-service Reliability — *David Nelson* (ASI Andromeda Systems)	**B6. Student Presentations** Reliability Engineering as the Bridge Between Systems Engineering, Design Engineering and Integration and Test — *Samantha Rawlins (PhD Student)* (UAH) / Measuring Latent Trust Patterns in Large Language Models in the Context of Human-AI Teaming — *Derek Koehl (Grad Student)* (UAH) / Definition of Reliability Across Disciplines — *Andrew Atchley (Grad Student)* (UAH)
1215-1315	LUNCH BREAK	
Session 7 **1315-1415** **.10 CEUs**	**A7.** Modeling and the Assurance Engineering Disciplines — *Charles "Ronnie" Knight* (Bastion Technologies)	**B7. Student Presentations** Stakeholder Elicitation for Autonomous Robotic Systems Design for Mission Critical Environments — *Nicole Moore (Grad Student)* (UAH) / Affordability Culture in Organizations — *Taylor Yeazitzis (Grad Student)* (UAH)
1415-1430	PM BREAK	
Session 8 **1430-1600** **.10 CEUs**	**A8.** Defining & Developing a Digital Twin through creating synergies between Cyber, Software, Reliability & Safety — *Lisa Bates* (DRAPER)	**B8. Student Presentations** Challenges in Developing Requirements for AI-based Systems: A Systems Engineering Perspective — *Oluyinka Adedokun (Grad Student)* (UAH) / Individual Differences in the Acceptance and Adoption of Digital Technology — *Luke Symasek (Undergrad Student)* (UAH) / *(Undergrad Student)*
1600-1630	Student Awards, Closing Remarks and Training Summit Surveys in Auditorium	
	ADJOURN FOR THE DAY (0.50 CEUs For RAM XV Day 2 - Sessions 5-8)	

See "RAMS XV ABSTRACTS" (Training Summit Presentation Abstracts) sheet for details of each presentation at https://srehsv.com/ram/agenda/

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Agenda
"Driving Towards Digital"

HOSTED AT: U.S. Space & Rocket Center® **Educator Training Facility**

One Tranquility Base, Huntsville, AL 35805

RAM XV Survey QR-Code

This survey is still linked to 2022 RAM until time for 2023

**At the Completion of RAM XV Training Summit
Please Use the QR Code to the right to pull up
RAM XV Survey on your Phone
Complete the Questionnaire and Submit on your Phone**

There will also be hardcopy Surveys to fill out at the HSV SRE Table

Last Updated: September 14, 2023