Training Summit Agenda *"Driving Towards Digital"*

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

RAM XV Training Summit

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
0900-0930	Welcome Opening Remarks	Welcome Opening Remarks

Session	A1.	B1.
Session 1 **0930-1030** **.10 CEUs**	**Leveraging IIoT Techniques for Real-Time Systems Integration** — Alden Moreton (Reliant Technologies Incorporated)	**H-1 Modeling & Simulation** — Rachel Boydston (ASI Andromeda Systems Incorporated)
	Enhancing Reliability Engineering through Advanced Visualizations and User Interfaces — Zeb Freeman (Reliant Technologies Incorporated)	**The Effects of M-out-of-N Systems on Reliability Metrics** — Tate Fleming (Avnik Defense Solutions, Inc.)
1030-1045	AM BREAK	

Session	A2.	B2.
Session 2 **1045-12:15** **.15 CEUs**	**Reliability Engineering The Link to Safety and Risk assessment** — Dr. Fayssal Safie (A-P-T Research, Inc.)	**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	A3.	B3.
Session 3 **1315-1415** **.10 CEUs**	**The Past, Present, and Future of Probabilistic Risk Assessment** — Richard Meshell (GE Vernova)	**Demystifying Large Language Models: How do we use them in reliability?** — Nathan Rigoni (Lockheed Martin)
1415-1430	PM BREAK	

Session	A4.	B4.
Session 4 **1430-1600** **.10 CEUs**	**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)	**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. (The University of Alabama in Huntsville)
		Success Stories for Data Analytics and Visualization — Rachel Boydston (ASI 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

Session	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	A6.	B6. Student Presentations
Session 6 **1045-1215** **.15 CEUs**	**Failure Review Board (FRB)** *NOTE: AvMC RAM Div Mandatory Training* — Mike Olivier (DEVCOM)	**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)
	Effect of R&M Parameters and Interactions on Operational Availability and O&S Costs — Russ Alexander (SpecTrum Logistical & Technology Solutions, LLC)	**Definition of Reliability Across Disciplines** — Andrew Atchley (Grad Student) (UAH)
1215-1315	LUNCH BREAK	

Session	A7.	B7. Student Presentations
Session 7 **1315-1415** **.10 CEUs**	**Modeling and the Assurance Engineering Disciplines** — Charles "Ronnie" Knight (Bastion Technologies)	**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	A8.	B8. Student Presentations
Session 8 **1430-1600** **.10 CEUs**	**Defining & Developing a Digital Twin through creating synergies between Cyber, Software, Reliability & Safety** — Lisa Bates (DRAPER)	**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)
		The Use of a Smart Factory Laboratory to Demonstrate Digital Manufacturing Capabilities in Ind & Sys Engr — Yeraldy Bermudez (Undergrad Student) (UAH)
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/

Last Updated: October 31, 2023

SOCIETY OF RELIABILITY ENGINEERS

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

One Tranquility Base, Huntsville, AL 35805

RAM XV Survey QR-Code

**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

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