

# RAMS 2021 Program Matrix

Time	#	A	B	C	D	E	Date	
		Grand B	Salon 3-4	Salon 5-6	Salon 7-8	Salon 9-10		
8:30 - 10:00		General Chair's Welcome & Keynote - Grand A-B						Monday January 25
10:15 - 12:15	1	An Introduction to Probability Models in Reliability & Maintainability	Introduction to Fractional Failure and Its Application in Reliability	Business Process Improvement	Big Data and IoT Applications			
13:30 - 15:30	2		Integrating Physics with Sensor Data for System Health Prognostics	Reliability Modeling 1		Maintenance Modeling and Methods 1		
15:45 - 17:45	3		Impact of Key Characteristics on Product Safety, Quality, and Reliability	TBD	FMEA 1			
17:00 - 19:00								
7:45 - 8:00		Chairman's Corner - Grand A						Tuesday January 26
8:00 - 10:00	5	Introduction to Life Data Analysis	Probabilistic Analysis and Design		Reliability Modeling 2	Diagnostics and Prognostics 1		
10:15 - 12:15	6		Complex Problem Solving – Introduction of Directed Acyclic Graphs	Artificial Intelligence Autonomy		FMEA 2		
13:30 - 15:30	7	Chairman's Corner - Grand A	A New Science for Reliability		SW Rel Aging & Rejuvenation	System Safety		
15:45 - 17:45	8		Reliability and Availability Modeling in Practice	Reliability Mgmt & Growth		Reliability Applications in Space		
7:45 - 8:00		Chairman's Corner - Grand A						Wednesday January 27
8:00 - 10:00	9	Monte Carlo Method and Reliability Applications Using Excel Spreadsheets	Introduction to Maintenance Models		Life Data Analysis	Reliability Applications in Aircraft		
10:15 - 12:15	10	Advisory Board Panel - Grand C-D						
13:30 - 15:30	11	Machine Learning for Prognostics and Health Management of Components	Dynamic Reliability and Artificial Intelligence		Dynamic Reliability Modeling	TBD		
15:45 - 17:45	12	How to Analyze Repair Data	Design of Experiment for Reliability Evaluation and Improvement	Diagnostics and Prognostics 2	R&M Computational Methods			
18:30 - 21:30		General Reception & Banquet - Upper Pool Deck & Grand C-D						
7:45 - 8:00		Chairman's Corner - Location: GRAND A						Thursday January 28
8:00 - 10:00	13	Effective Design Verification Plan and Report (DVP&R) for Reliability	Introduction to Software Reliability Models		Maintenance Models and Methods 2	Reliability Applications in Aerospace Modeling		
10:15 - 12:15	14	737 MAX System Safety and Reliability Lessons Learned	Combined Environments Stress Screening	Reliability Modeling 3	Prognostics & Health Management			
12:15 - 14:00		Poster Session - Grand C-D						

Legend	(T) = Tutorial	(PN) = Panel	(PS) = Paper Session
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