## WSCR Conference 2023 At-A-Glance

Wednesday, September 13

Time	Tours
8:15 AM - 10:30 AM	LIGO Tour Although it is considered one observatory, LIGO comprises four facilities across the United States, including one of two gravitational wave detectors (the interferometers) right in Hanford. Tour the LIGO Hanford Observatory to review its critical work in the search for gravitational waves.
11:45 AM - 3:45 PM	The B Reactor National Historic Landmark Tour The B Reactor National Historic Landmark is the world's first full-scale plutonium production reactor and part of the Manhattan Project National Historical Park administered by the U.S. Department of Energy and the National Park Service. Learn more about the people, events, science, and engineering that led to the creation of the atomic bombs that helped bring an end to World War II.

Thursday, September 14

Time	Room Horizon A	Room Horizon D	Room Horizon E	Tours	
8:00 AM – 12:00 PM	Tutorial 1 PLC-based Cyber Attack Defensive Programming Techniques	Tutorial 2 Automated Architectural Trade Studies	Tutorial 3 Introducing the INCOSE SE Handbook Fifth Edition	8:15 AM - 10:15 AM PNNL Energy Tour	
12:00 PM - 1:00 PM	LUNCH				
1:00 PM - 5:00 PM	Tutorial 4 System Architecture Simulation in the Loop of Multiphysics Analysis and Design	Tutorial 5 Leveraging Unified Architecture Framework (UAF) in Engineering Management	Tutorial 6 Back to Basics: Thinking Like a Systems Engineering Practitioner	1:00 PM - 3:00 PM PNNL Energy Science Center Tour	
5:00 PM	Walk/Ride to Wine Science Center				
5:30 PM - 6:30 PM	Social Event Wine Science Center (Washington State University)				

Friday, September 15

Friday, Septem	Del 13					
Time	Room Horizon D	Room Horizon E	Room Horizon A		Room Horizon B	
8:00 AM - 09:00 AM	Breakfast and Registration					
09:00 AM- 09:15AM	Welcome Plenary - Introduction (Horizon C)					
09:15 AM - 10:00 AM	Keynote Address: Puesh Kumar, Office of Cybersecurity, Energy Security, and Emergency Response, U.S. Department of Energy (Horizon C)					
10:00 AM - 10:10 AM	Break					
10:10 AM - 11:00 AM	Case Studies Stream: Innovation A Rocket Scientist's Approach to Continuous Innovation and Improvement	Systems Engineering/Educati Stream Get Your ESEP!	Cyber Security Eliciting Cyber Secur Cyber Physical Sy Conceptual D	ity Goals for estems in	Operational Technology Stream Legacy System Evolution into an Enterprise	
11:00 AM - 11:10 AM	Break					
11:10 AM - 12:00 PM	Case Studies Stream: Sustainability Evaluating Environmental Impacts When Designing Systems	Systems Engineering/Education Stream A Bridge Blueprint to Span the Chasm Between Research are Engineering - A Framework for Systems Engineering in Early-Standard (ESRD)	e Where We've Been, N Going, and How We There	nsformation: Where We're	Cross-Domain Solutions Stream A Demonstration of MBSEsec Applied to Securing J1939 Protocols on Heavy Vehicle Networks	
12:00 AM - 1:40 PM	LUNCH AND NETWORKING					
1:40 PM - 2:30 PM	Case Studies Stream: MBSE Creating and Using Templates for MBSE Modeling in Capella	Systems Engineering/Educati Stream Systems of Systems Engineerin Practice	Using the Big Pen: H	ow to Be the ur INCOSE	Operational Technology Stream A Tailored System Approach for a Simple System with a Complex Implementation	
2:30 PM - 3:10 PM	Snack Time and Networking					
3:10 PM - 4:00 PM	Case Studies Stream: System Development Speed to Market - An Incremental Approach to System Development	Systems Engineering/Education Stream Open Standards SysML and Modelica Integration Strateg	Digital Twin-Based C Detection for Proce	Cyber Attack ess Control	Cross-Domain Solutions Stream Application of Ride-Sharing Assignment Solutions to the Weapon-Target Assignment Problem	
4:30 PM	Transportation departs for Dinner					
5:30 PM - 7:00 PM	Dinner/Winery - Terra Blanca Winery					

## Saturday, September 16

Saturday, Septe	aniber 10					
Time	Room Horizon D	Room Horizon E	Room Horizon A	Room Horizon B		
07:00 AM - 09:00AM	SEP Exam (Room Vista) Alternative: Morning Hike					
07:30 AM- 08:30AM	Breakfast					
08:30 AM- 08:45AM	Final Plenary - Introduction (Horizon C)					
0845 AM - 09:30AM	Keynote Address: Ian Milgate, Deputy Area Manager for the High-Level Waste Facility, Bechtel (Horizon C)					
09:30 AM - 10:00 AM	Break					
10:00 AM - 10:50 AM	Case Studies Stream: System Resiliency The Relationship Between Complexity and Resilience	Cross-Domain Solutions Stream How Much Autonomy Is Enough? Applying Systems Engineering Methodology to Autonomy in Modern Systems	Information Communications Technology (ICT) Stream Understanding the Emergency Communications Ecosystem	Systems Engineering and Agile Stream Becoming More Agile – Hybrid Plan-Driven and Agile Systems Engineering		
10:50 AM - 11:00 AM	Break					
11:00 AM - 11:50 AM	Case Studies Stream: Human Factors Collaboration, Communications and Culture in Systems Engineering: a Pathway to Smoother Projects	Cross-Domain Solutions Stream SE & Photography	Information Communications Technology (ICT) Stream Introducing the Communications Primer - A Systems Engineer's Guide to Communications Networks: Modelling Networks as Systems	Systems Engineering and Agile Stream Agile Systems Engineering Requirements Analysis		
12:00 PM - 1:30 PM	Poster Sessions/Lunch/Networking Poster: Systems Engineering Design of a "Mass E" Service Station Facility Poster: In-Line Inspection Tool for Hydrogen Transmission Pipelines Poster: Re-Usable Model Elements Assist Project Management Responsibilities (Prefunction space)					
1:30 PM - 2:15 PM	Concluding Remarks/WSRC 2024 Preview (Horizon C)					