

Western States Regional Conference, 2020

The following is a preliminary program, please check back for the final schedule.

THURSDAY September 17, 2020

* Preliminary Program

| Time(s) | Duration | Virtual Room | | |
|---------------------|----------|--|---|---|
| | | Mt. Rainier | San Juan | Snoqualmie |
| 8:30 AM - 9:00 AM | 30 min | <i>Presenter & Session Chair Orientation</i> | Redirect to Mt. Rainier | Redirect to Mt. Rainier |
| 9:00 AM - 9:15 AM | 15 min | Welcome Plenary - Introduction | Redirect to Mt. Rainier | Redirect to Mt. Rainier |
| 9:15 AM - 10:15 AM | 60 min | Keynote Speaker: Christi Gau Pagnanelli, Boeing Defense, Space and Security, "Migrating to MBSE on Legacy and New Programs" | Redirect to Mt. Rainier | Redirect to Mt. Rainier |
| 10:15 AM - 10:30 AM | 15 min | Break | Break | Break |
| 10:30 AM - 11:15 AM | 45 min | Session Chair: Deivya Bansal Applications-35, Comparison of FDA Quality System Regulation and INCOSE Systems Engineering Handbook, Daniel Piraino | Session Chair: Christina Mastrangelo SEPM-5, Hardware-Inclusive DevOps: Applying DevOps Principles & Practices to Cyber-Physical System Engineering, Bryan Smith | Session Chair: V Jhaveri V&V-24, INCOSE's Guide to Verification and Validation: Progress, Context, and Content, Raymond Wolfgang |
| 11:15 AM - 12 PM | 45 min | Session Chair: Ken Preston Security-23, Sensitivity Classification of Information Assets Using Machine Learning, Andrew Carson (do not record) | Session Chair: Christina Mastrangelo SEPM-10, Introduction to Uncertainty Quantification and Industrial Challenges, Gavin Jones (do not record) | Session Chair: V Jhaveri V&V-27, Flight Test: The Ill-regarded Tail-End-Charlie of a Project, Jorg Largent |
| Noon - 12:15 | 15 min | Break | Break | Break |
| 12:15 - 1:15 PM | 60 min | Keynote Speaker: Eric Williams, TerraPower, "Nuclear Technology | Redirect to Mt. Rainier | Redirect to Mt. Rainier |

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| | | Mt. Rainier | San Juan | Snoqualmie |
| | | Development with Systems Engineering" | | |
| 1:15 PM - 1:30 PM | 15 min | Break | Break | Break |
| 1:30 PM - 2:15 PM | 45 min | Session Chair: Frank Lacson Applications-20, Complexity of Dynamic Systems in Mining Operations, Michael Do | Session Chair: Christina Mastrangelo SEPM-30, Distributed, Data-centric Collaborative Information Management (DDCIM) for Project Management and SE&I, Jennifer Devolites | Session Chair: Rick Hefner Education-4, Systems Engineering Problem Solving for Undergraduates, Dr. Ron Carson |
| 2:15 PM - 3:00 PM | 45 min | Session Chair: Russell Morris Applications-7, Perspectives on the Boeing 737MAX MCAS, Dr. Ron Carson (do not record) | Session Chair: Christina Mastrangelo SEPM-26, Customer Analytics for Service Excellence in Systems Engineering, Dr. Kenneth Preston | Session Chair: Rick Hefner Education-32, The Powerful Advantages of Developing a "Failure Resume", Tim Boyd |
| 3:00 PM - 3:15 PM | 15 min | Break | Break | Break |
| 3:15 PM - 4:00 PM | 45 min | Session Chair: Frank Lacson Applications-36, Systems Engineering for Small and Medium Nuclear Projects, Jared Harper | Session Chair: Deivya Bansal MBSE-15, Model of Models Methodology, Alecander Jackson | Session Chair: Rick Hefner Education-33, The Surprising Benefits of Virtualizing Traditional In-Person Training for Complex Engineering Subjects, Tim Boyd, Rick Hefner |
| 4:00 PM - 4:45 PM | 45 min | Session Chair: Frank Lacson Applications-3, What to do about global warming: Examining problem and solution alternatives, Dr. Ron Carson | Session Chair: MBSE-11, The Role of Analytics in the Digital Twin, Gavin Jones (do not record) | Session Chair: Rick Hefner Education-34, The Unforseen Impacts of Cognitive Bias, Tim Boyd |

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| 9:00 AM - 9:15 AM | 15 min | Welcome Plenary - Introduction | |
| 9:15 AM - 10:15 AM | 60 min | Keynote Speaker: Peter Brown, Sound Transit, "Engineering America's Most Ambitious Regional Transit Expansion" | Redirect to Mt. Rainier |
| 10:15 AM - 10:30 AM | 15 min | Break | |
| 10:30 AM - 11:15 AM | 45 min | Session Chair: Rick Hefner PDC: Applications-13, An Agile-Like Approach to Hardware Development: The Ejectable Data Recorder (EDR) for Orion's Ascent Abort 2 (AA-2) Test Flight, Kristina Rojdev | Session Chair: Christina Mastrangelo Tools-14, ModelCenter MBSE: The Bridge Between Systems Engineering and Multi-Fidelity Analytical Models, Correa & Lies |
| 11:15 AM - 12 PM | 45 min | Session Chair: Rick Hefner PDC: MBSE-2, Using Architecture and MBSE to Develop Validated Requirements, Ron Carson | Session Chair: Christina Mastrangelo Tools-22, How to Realign Engineering Teams for Remote Work with Minimal Disruption, Deric Merino |
| Noon - 12:15 | 15 min | Break | |
| 12:15 - 1:15 PM | 60 min | Keynote Speaker: Geoff Austin, UW Medical Chief Operating Officer, "Never Let a Good Crisis Go to Waste: The significant opportunities for healthcare improvement through the wake of the COVID-19 pandemic" | Redirect to Mt. Rainier |
| 1:15 PM - 1:30 PM | 15 min | Break | |
| 1:30 PM - 2:15 PM | 45 min | Session Chair: Rick Hefner PDC: MBSE-29, Transitioning Legacy Systems to Model-based Systems Engineering, Paul White | Session Chair: Morgan Nicholson Tools/MBSE-8, Early System V&V Using SysML Simulation, Saulius Pavalkis |
| 2:15 PM - 3:00 PM | 45 min | Session Chair: Rick Hefner PDC: Applications-6, On Track to Sounder Requirements at Sound Transit - A Light Rail Vehicle case study, Scott & Rubin | Session Chair: Deivya Bansal MBSE-9, A Model-Based Approach for System Verification and Validation, Raymond Wolfgang |
| 3:00 PM - 3:15 PM | 15 min | Break | |

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| | | Mt. Rainier | San Juan |
| 3:15 PM - 4:00 PM | 45 min | Session Chair: Rick Hefner PDC: Security-25, Systems Engineering and the Insider Threat Problem, Carson & Kaleta (do not record) | Session Chair: Morgan Nicholson MBSE-19, The Future of Performance Design with MBSE: Electric Powertrain Example, Saulius Pavalkis |
| 4:00 PM - 4:45 PM | 45 min | Session Chair: Russell Morris PDC: Education-31, Equipping Tomorrow's Systems Engineering Workforce, Rick Hefner | Redirect to Mt. Rainier |

SATURDAY September 19, 2020

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|-------------------|----------|---|--|
| | | Mt. Rainier | San Juan |
| 7:30 AM - 8:00 AM | 30 min | <i>Presenter Orientation</i> | Redirect to Mt. Rainier |
| 8:00 AM - noon | 4 hours | Tutorial-1, Ron Carson, "Correcting Misperceptions of Systems Engineering Practices" | Tutorial-16, Daniel Cobb, "DE/MBSE for Management Training" (do not record) |

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| | | Mt. Rainier | San Juan |
| | | | |
| noon - 12:30 PM | 30 min | Break | Break |
| 12:30 PM - 4:30 PM | 4 hours | Tutorial-12, Mark Sampson, "Systems Engineering MBSE implementation in your organization" | Tutorial-28, Al Hoheb, "Model-Based Capabilities Assessment Workshop" (2 hours) |