2026 IEEE Aerospace Conference

Yellowstone Conference Center, Big Sky, Montana

March 7-14, 2026

Technical Cosponsors

AIAA phmsociety

SCHEDULE AND PROGRAM

THANK YOU!
2026 Conference Patrons / Exhibitors

Caltech Center for Technology & Management Education

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Front Cover – – The NASA/ESA/CSA James Webb Space Telescope has observed the well-known Ring Nebula with unprecedented detail. Formed by a star throwing off its outer layers as it runs out of fuel, the Ring Nebula is an archetypal planetary nebula. Also known as M57 and NGC 6720, it is both relatively close to Earth at roughly 2,500 light-years away. There are some 20,000 dense globules in the nebula, which are rich in molecular hydrogen. In contrast, the inner region shows very hot gas. ***Photo Credit: ESA/Webb, NASA, CSA, M. Barlow, N. Cox, R. Wesson***.

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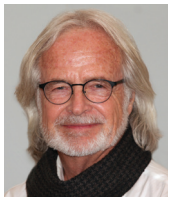

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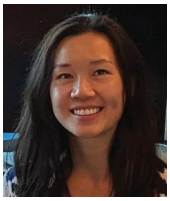

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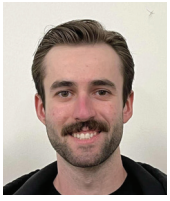

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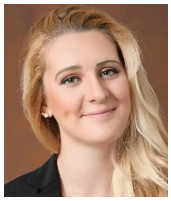

Jessica Millenbach

Recording Secretary

Shervin Shambayati

Conference Historian

Monica Panno

*ADDITIONAL ROLES DETAILED ON PAGE 27

WELCOME RECEPTION

Saturday, March 7, 2026 (6:30–9:00 PM)

Registration & Icebreaker – Wine & Cheese Party

Conference Center, Grand Atrium

Registration Office Hours

Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
6:30 – 9:00 PM	3:00 – 6:45 PM	8:15 – 10:00 AM 4:00 – 6:45 PM	8:15 – 10:00 AM	8:15 – 10:00 AM 4:00 – 6:45 PM	8:15 – 9:30 AM 4:00 – 6:45 PM	8:15 – 9:30 AM

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Floor Plan of the Conference Venue

CONFERENCE EVENTS

Your 2026 IEEE Aerospace Conference badge admits you to:

	Full Registration	Exhibitors	Guests
Welcome reception	X	X	X
Access to all sessions	X		
Digest and Proceedings	X		
Java Jam	X	X	X
Pre-dinner hosted receptions	X	X	X
Scheduled dinners	X	X	X
Fireside Cheer & Chat	X	X	X
Electronic Presentation Hall	X	X	X
Presentation Workshop	X		
Access to Exhibits	X	X	X
Junior Engineering & Science Conference	X	X	X
Farewell party	X	X	X

Java Jam

Link up with colleagues and refresh for the late afternoon sessions with hot coffee, tea, or cocoa at the Java Jam in the Grand Atrium. (See Floor Plan of the Conference Venue on page 5.)

Fireside Cheer and Chat

When the evening's sessions are over, it's time to wind down with some camaraderie next to the fireplace in the Sunken Lounge. (See Floor Plan of the Conference Venue on page 5.) Have a bowl of ice cream with toppings, a cup of coffee or tea, and relaxing conversation with friends to prepare for a great night's sleep in the Rockies.

Electronic Presentation Hall (EPH)

EPH presentations are available to attendees through our website (https://aeroconf.org/eph_papers) throughout the conference week.

Presentation Workshop

This free workshop, conducted by Caltech (see schedule for time and location) can help technical professionals improve their presentation skills, conveying technical concepts clearly, persuasively, and memorably. Participants will gain practical skills for ensuring their presentations captivate and resonate with diverse stakeholders. You must sign up on the conference bulletin board.

Exhibits

Exhibit booths are set up along the corridor in the Lower Atrium and in the Upper Atrium. (See the Floor Plan of the Conference Venue on page 5 and the Exhibitor Map on page 41.) Come check out our exhibitor displays and chat with the exhibitor reps about their offerings!

Junior Engineering & Science Conference

The Junior Conference is our forum for students in first grade through high school. They present technical papers on their ideas, reasoning, field work, research, experiments, inventions, or topical surveys. Come be amazed by the quality, originality and inquisitiveness of these kids. One session this year, Tuesday 1:15-4:30 in the Madison Room.

Farewell Party

It's Friday night. The last paper has been given; the final panel has concluded. Sponsors have closed their exhibits. You've turned in your Evaluation Forms and perhaps volunteered for a role in the 2027 Conference. It's time to say goodbye to colleagues new and old at our final gala Farewell Party. The buffet dinner begins at 7:00 pm upstairs in the Mountain Mall. **See you there!**

Badges must be worn at all events!

SUNDAY, MARCH 8 - AFTERNOON AND EVENING

	Amphitheatre	Jefferson	Madison	Gallatin
2:40 PM		Presentation Workshop (hosted by Caltech) Rick Hefner, Mike Ash		
3:05 PM				
4:00 PM	**JAVA JAM**			
4:30 PM	**14.03 PANEL:** Small Satellite Trending – Past, Present, and Future - **Barbara Braun, Stephen Shinn, Lee Jasper, Michael Swartwout, Dave Oberg, Matthew Allen**	**2.0901** "SPACE LAW. What Will We Do with Space Debris? an Analysis Based on Selected Legal Examples" - **Mikołaj Mazan**	**4.0602** Cryogenic Testbed for Passive Optical Data Links on Planetary Surface - **Lin Yi**	**7.0103** SCALES: A Dual Computing Architecture for Deploying Edge Computing Resources on Small Spacecraft - **Kelly Williams**
4:55 PM		**2.0903** Epidemics in Orbit: Modeling Space Debris Dynamics to Alleviate the Orbital Traffic Jam - **Rachel Sholder**	**4.1204** From Quaternions to Möbius Transformations: A Relativistic Framework for Navigation & Star Tracking - **Andrew Tennenbaum** Track 04 Best Paper	**7.0105** Tiled Plate Solving and Distortion Correction for Robust Star Tracking in WFOV Imagery - **Gabriela Gavilánez Gallardo**
5:20 PM		**2.0904** Enhancing Orbital Debris Remediation with Reconfigurable Space-Based Laser Constellations - **David Williams Rogers**	**Plenary Setup**	**7.0108** LandSat Next Instrument Image Processing & Compression Pipeline – from Photons to Data Cubes - **Patrick Phelan** Track 07 Best Paper
5:50 PM	**The Dark Oxygen Research Initiative (DORI) Project - Investigating Dark Oxygen Production in the Deep Sea Andrew Sweetman**			
6:35 PM	**HOSTED RECEPTION in the GRAND ATRIUM**			
7:05 PM	**DINNER in the MAIN BALLROOM**			
8:05 PM	**The Quiet Part: Remote Sensing and Earthquake Strain Accumulation Andrea Donnellan**			
9:00 PM		**2.0908** Development and Validation Status of High-fidelity Re-entry Analysis Tool LS-DARC - **Keiichiro Fujimoto**	**4.1208** Detecting Craters in Images Using Classical and Machine Learning Techniques for Lunar Navigation - **Trupti Mahendrakar**	**7.0109** RAD-TECH: A Research Portfolio to Enable State-of-the-Art Electronics in Radiation Environments - **John Dickinson**
9:25 PM		**2.0913** Uncertainty in Orbit: Bayesian Spatiotemporal Modeling of Orbital Debris Proliferation - **Rachel Sholder**	**4.1209** Extended Linear Quadratic Regulator Informed RRT* - **Xavier Kipping**	
9:50 PM		**2.0914** A Labeled Multi-Bernoulli Filter with RK4 Propagator for Orbital Debris Tracking - **Atri Bhattacharjee**		
10:15 PM	**FIRESIDE CHEER**			

SUNDAY, MARCH 8 - AFTERNOON AND EVENING

Lake/Canyon	Lamar/Gibbon	Dunraven	Cheyenne	
Electronic Presentation Hall (EPH) Everyday (see page 26 for a list of papers)				
				3:05 PM
JAVA JAM				**4:00 PM**
13.0103 Digital Architecture Strategy for the NASA Gateway Program - **Josh Sung**	**6.0204** A Compact, Autonomous, Submersible Holographic Microscope for Passive In-Situ Microbial Sensing - **Alexander Ramirez** Track 06 Best Paper	**12.0103** The Impact of Major Anomalies of Robotic Mars Surface Missions on Mission Timeline - **Matt Heverly**	**10.0102** Modeling Stochastic Process Uncertainties in Spacecraft Dynamics: A New Capability in Basilisk - **Juan Garcia Bonilla** Track 10 Best Paper	**4:30 PM**
13.0104 Using an MBSE Approach to Develop Jamming Capabilities for a Counter-Drone System - **Vikram Mittal**	**6.0205** Progress towards a Near-Unity Fill Factor FIR Thermopile Detector for Space-Based Remote Sensing - **Ricardo Braga Nogueira Branco**	**12.0104** Guidance and Control Assessments of Psyche Mission's Monthly Operations Sequences - **Josef Biberstein**	**10.0203** Accelerating the Pre-Silicon Functional Verification Value Ramp with Aspect Oriented Development - **Hamilton Carter**	**4:55 PM**
13.0105 Evaluating Metamodel Quality of the CubeSat System Reference Model (CSRM) - **Sarah Rudder**	**6.0206** Compact Coronagraph 2 (CCOR-2) Program Overview with Integration and Test Lessons Learned - **Timothy BABICH**	**12.0203** Europa Clipper's Implementation and Operational Use of CCSDS File Delivery Protocol - **Emily Bohannon**	**10.0204** Hosting Machine Learning Algorithms in Flight Software via the F Prime Python Software Framework - **Kelly Williams**	**5:20 PM**
The Dark Oxygen Research Initiative (DORI) Project - Investigating Dark Oxygen Production in the Deep Sea **Andrew Sweetman**				**5:50 PM**
HOSTED RECEPTION in the GRAND ATRIUM				**6:35 PM**
DINNER in the MAIN BALLROOM				**7:05 PM**
The Quiet Part: Remote Sensing and Earthquake Strain Accumulation **Andrea Donnellan**				**8:05 PM**
13.0106 Cataloging Patterns in Model-Based Systems Engineering - **Mark Maier**		**12.0205** Scalable Ground Station Selection for Large LEO Constellations - **Grace Kim**	**10.0205** Automated Extraction and Cross-Document Analysis of Aerospace Project Requirements Using LLMs - **Imededdine Ben Slimene**	**9:00 PM**
13.0114 Is Simplicity Golden? a Survey of Post-Launch Adaptation in Planetary Missions - **Masahiro Ono**		**12.0206** A Hybrid IGA-SODC Architecture for the New Space Era of Global Space Traffic Management - **Wanjiku Chebet Kanjumba**	**10.0207** Simple Data Model Approach to Integrate FACE® Software Applications Designed from Disparate DSDMs - **Travis Rogers**	**9:25 PM**
13.0115 The Foundations of Interplanetary Logistics 2.0: Spaceport Infrastructure for the Moon and Mars - **Wanjiku Chebet Kanjumba**				**9:50 PM**
FIRESIDE CHEER				**10:15 PM**

MONDAY, MARCH 9 - MORNING AND EARLY AFTERNOON

	Amphitheatre	Jefferson	Madison	Gallatin
8:30 AM	**6.0101** Spectral Mapping of Mars at the Context Scale - **Peter Sullivan**	**2.0301** A Stochastic Approach to Terrain Maps for Safe Lunar Landing - **Anja Sheppard**	**7.0111** Flexible FPGA Accelerator for Real-Time Neuromorphic Optical Flow in Space Applications - **Linus Silbernagel**	**4.0501** Orbital Optimization of a Distributed Heliocentric Relay Network for Mars-Earth Communications - **Jules Pénot**
8:55 AM	**6.0102** The Engineering Challenges of Putting a Cubesat into GTO: The Lessons of GTOSat - **Larry Kepko**	**2.0302** AI-enhanced Vision-based Hazard Detection Operations in Lunar Landing Scenario - **Mohamed El Awag**	**7.0112** LDPC Decoding Acceleration Architecture on Versal AI Edge for Space Platforms - **Noah Perryman**	**4.0813** A Robust Feedforward Symbol Timing Recovery Algorithm for Burst-Mode Satellite Communications - **Len Yip**
9:20 AM		**2.0204** Mission Concept to Track Convective Cloud Systems with Satellite-Based Phased-Array Radars - **Jean Ghantous**	**7.0113** Enabling Fault-Tolerant Autonomous Lunar Habitats with High-Performance Spaceflight Computing - **Sarkis Mikaelian**	**4.0815** Trajectory- Aware Handover Strategies for Drone Deliveries and Air Taxis - **Siri Vennela Geddam**
9:45 AM		**2.0201** Carbon-I: Expanding the Frontiers of Carbon Cycle Science - **Andrew Thorpe**	**7.0203** The SpaceVNX+ Standard for Small Form-Factor, Modular Electronics for Space Applications - **Steve Parkes**	**2.0102** Pathway to Mission Success: Lessons Learned from the SPHEREx AI&T and V&V Program - **William Hart**
10:10 AM		**2.0303** HAVEN: Hazard-Response Aero-Deployable Vehicle for Emergency Nominal Re-entry - **Christopher Kwon**	**7.0204** SpaceFibre Evolution: 100 Gbps with Low-Overhead SoC Integration - **Alberto Gonzalez Villafranca**	**2.0104** Europa Clipper Cruise Phase: From Integration and Test to Early Operations - **Andres Rivera**
10:35 AM		**2.0401** Terrain-Adaptive Strategies to Prevent and Recover from Rover Wheel-Slip - **Jasper Grant**	**7.0404** Backpack Battery : Auxiliary Power for Dragonfly during Entry, Descent, and Landing - **Tonle Bloomer**	**2.0107** GRACE Continuity Project Overview - **Neil Dahya**
11:00 AM	**14.04 PANEL:** Commercial Services for Space Exploration - **Greg Chavers, Regina Blue, Sarah Shull**	**2.0404** Data-driven Tracking Control for Origami-Tensegrity Robotic Structures - **Connie Liou**	**7.0406** Structural and Thermal Analysis of a Lithium Battery for Interceptor Missile AFTS Application - **Steven Karpov**	**2.0108** Verification and Validation of the Europa Clipper Launch Phase and Autonomous Behavior - **Erisa Stilley**
11:25 AM		**2.0410** Distobee: Design and System Review of a Mobile Platform for Lunar Regolith Excavation - **Mateusz Wójcik**	**7.0408** BOOST Converter Performance Optimization for Microsatellite Power Systems Using MPPT Fuzzy Control - **Abdelkader Hadj-Dida**	
11:50 AM		**2.0414** Quarry Bot: Mobile Telescopic Dragline Robot for Lunar Excavation - **Zahir Castrejon**		
1:00 PM	**14.05 PANEL:** CLPS Landers, Mission Successes, Lessons Learned and Path Forward - **Regina Blue, Trent Martin, Eduardo Seyffert, Joseph Marlin, John Ware, Kevin Duda**	Presentation Workshop (hosted by Caltech) Rick Hefner, Mike Ash		
1:25 PM				
1:50 PM				
2:15 PM	**14.06 PANEL:** Mars Commercial Services Studies - **Ryan Woolley, Paige Shaw, Richard Warwick, John Ware**			

MONDAY, MARCH 9 - MORNING AND EARLY AFTERNOON

Lake/Canyon	Lamar/Gibbon	Dunraven	Cheyenne	
13.0117 In-situ Resource Extraction for Mars Terraforming Aerosol Feedstock - **Tatsuwaki Nakagawa**	**5.0102** An Open-Source Analytical Method for Determining Optimal Satellite Orbits for Region Targeting - **Ella Shepherd**	**12.0207** Continuing Development and Enabling of Exploration Mission Systems Software - **Matthew Miller**	**10.0301** Architecting a Robust Software Stack for Small Satellites Using ROS2, Docker, Zenoh, and ZFS - **Raajitha Rajkumar**	**8:30 AM**
13.0119 A Systems Engineering Approach to Mitigating Starship Cryogenic Boil-Off for Artemis III - **George Lordos**	**5.0103** The EXACT X-Ray Positioning, Navigation, and Timing Mission - **Mel Nightingale** Track 05 Best Paper	**12.0301** Development of Procedures for a Regolith Experiment with Human-Robot Interaction on the Lunar South - **Aileen Rabsahl**	**10.0304** Mission Planning Simulation and Design Software Scaling for Shared and Distributed Memory Computing - **Sam Siewert**	**8:55 AM**
13.0202 An Uncertainty-Aware Provenance Framework for Enhanced Traceability in Engineering Systems - **Elif Tasdemir** Track 13 Best Paper	**5.0105** The Design and Performance of the BAE Systems FASTER Hyperspectral Microwave Radiometer - **David Newell**	**12.0302** From Analog Tests to the Moon: Situational Awareness Systems for Astronauts and Tourists - **Aileen Rabsahl** Track 12 Best Paper	**10.0305** Cyber Resilient Provenance Tracking for Virtual Certification - **Michael Felderer**	**9:20 AM**
13.0204 An Engineering Life-Cycle Assurance Process for Autonomous Space Systems - **Alessandro Pinto**	**5.0106** The Farside Seismic Suite: Status Update and Plans - **Asad Aboobaker**			**9:45 AM**
13.0206 IMAP Safety & Mission Assurance Road to Launch & Mission Success - **Christina Collura**	**5.0201** A Prototype Low-Cost Hybrid-Actuated Mobile Spherical Terrain Exploration Rover - **Winnie Gao**			**10:10 AM**
	5.0203 HexSense Lunar Mapping: Deployable 360 Cameras for Panoramic Inspection & 3D Reconstruction - **Fangzheng Liu**			**10:35 AM**
	5.0301 Decentralized Allocation of Observation Tasks for Cooperating Agile Spacecraft Clusters - **Nicholas Niziolek**			**11:00 AM**
	5.0304 Low-Control Satellite Formations for Enhanced GNSS-R Resolution in Perturbed Orbits - **Angel Pan Du**			**11:25 AM**
				11:50 AM
				1:00 PM
				1:25 PM
				1:50 PM
JUNIOR ENGINEERING & SCIENCE CONFERENCE **Practice in the MADISON ROOM**				**2:15 PM**

MONDAY, MARCH 9 - AFTERNOON AND EVENING

	Amphitheatre	Jefferson	Madison	Gallatin
4:00 PM	**JAVA JAM**			
4:30 PM		**2.0502** Mars Deep Subsurface Exploration with an Integrated Drill and Instrument Suite - **Joseph Palmowski**	**7.0501** Design and Evaluation of a SiGe BiCMOS Operational Amplifier for Wide-Temperature Applications - **Steven Corum**	**4.1001** Scalable Unsupervised RF Modulation Classification via Statistics-Guided Design-Space Exploration - **Joseph Krozak**
4:55 PM	**14.10 PANEL:** Commercial LEO Habitats: Our Next Step into the Space Economy - **Blair Bigelow May, Michael Gold, Chris Nie, Max Haot, Robert Smith**	**2.0503** A Thematic Approach to Robotic Path Planning on the Moon - **Ryan Navarre**	**7.0503** Design Considerations for Wide-Temperature Analog LVRs with Emitter Follower SiGe HBT Pass Devices - **Steven Corum**	**4.1002** AI-Driven Design of Stacked Intelligent Metasurfaces for Software-Defined Radio Applications - **Ivan Iudice**
5:20 PM		**2.0504** Path Planning in Dynamic Spatio-Temporal Space for the Lunar Surface - **Tyler Doiron**	**Plenary Setup**	**4.1003** Resilient UAV Data Mule via Adaptive Sensor Association under Timing Constraints - **Anil Gurses**
5:50 PM	**Early Results from the SPHEREx Spectral Survey Satellite** **James Bock**			
6:35 PM	**HOSTED RECEPTION in the GRAND ATRIUM**			
7:05 PM	**DINNER in the MAIN BALLROOM**			
8:05 PM	**The Cosmos We Take for Granted** **Matthew Strassler**			
9:00 PM		**2.0506** Cryo-Compatible Robotic Actuators with Use of Superconducting Materials - **Daniel Chavez-Clemente**		**4.1004** Testset for Cis-Lunar Communications and Navigation : System Design - **Eugene Grayver**
9:25 PM		**2.0507** It's a Dirty Job : Defining and Mitigating Dust and Sand Hazards on the Dragonfly Mission to Titan - **Ralph Lorenz**		**4.1005** Digital Regenerative Ranging Implementation with Accelerated Acquisition - **Eugene Grayver**
9:50 PM		**2.0508** Low-Voltage, Repairable EDS Coating for Lunar Dust Mitigation on EVA Spacesuit Textiles - **Keerthana Srinivasan**		**4.1006** Neuro-Symbolic Foundation Agent for Hyperparameter Tuning in Multi-UAS Positioning - **Khanh Pham**
10:15 PM	**FIRESIDE CHEER**			

MONDAY, MARCH 9 - AFTERNOON AND EVENING

Lake/Canyon	Lamar/Gibbon	Dunraven	Cheyenne	
JAVA JAM				**4:00 PM**
13.0301 Schedule Acceleration, Benefits, and Risks: Optimization Using a Forensic Approach - **Patrick Malone**	**6.0402** Side-Looking SAR Using 12-18 GHz FMCW Radar Integrated with C3 Class Hexacopter - **Lee Taylor**	**12.0402** E-TFT: An Enhanced Temporal Fusion Transformer for Early and Robust Detection of UAV Threats - **Shadi Sadeghpour**	**10.0401** Clarifications on Determinism: Multidisciplinary Perspectives for Avionics, Engineering, and Beyond - **Bjorn Andersson**	**4:30 PM**
13.0303 Beyond the Bid: Unpleasant Surprises in Firm Fixed Price Spacecraft Contracts on NASA Missions - **Rachel Sholder**	**6.0802** Hierarchical Out-of-Distribution Detection with Topological Data Analysis - **Paul Schrader**	**12.0403** Silent Subversion: Sensor Spoofing Attacks via Supply Chain Implants in Satellite Systems - **Jack Vanlyssel**	**10.0404** Real-Time Stability Monitoring of Neural Network Based Missile Guidance - **Kenneth McDonald**	**4:55 PM**
	6.0803 State Space Quantification in Reinforcement Learning - **Rodney Sanchez**	**12.0501** Interplanetary Generalization and Adaptation of Deep Stereo on Mars - **Yifei Liu**	**10.0406** Entity Resolution for Aircraft Type Matching on Heterogeneous Aviation Data Sources - **Karna Bryan**	**5:20 PM**
Early Results from the SPHEREx Spectral Survey Satellite **James Bock**				**5:50 PM**
HOSTED RECEPTION in the GRAND ATRIUM				**6:35 PM**
DINNER in the MAIN BALLROOM				**7:05 PM**
The Cosmos We Take for Granted **Matthew Strassler**				**8:05 PM**
13.0401 MBSE in Space Mission Concept Development - **Blake DeVaney**		**12.0503** Data-Driven Vibration Analysis from Vision: Optical Flow & ML for Vehicle and Terrain Monitoring - **Mohamed Okasha**		**9:00 PM**
13.0402 Methods for Improving User Needs Incorporation in Conceptual Design Phases of Systems Engineering - **Matteo Manieri**		**12.0504** Machine Learning Argument of Latitude Error Model for LEO Satellite Orbit and Covariance Correction - **Alexander Moody**		**9:25 PM**
				9:50 PM
FIRESIDE CHEER				**10:15 PM**

TUESDAY, MARCH 10 - MORNING AND EARLY AFTERNOON

	Amphitheatre	Jefferson	Madison	Gallatin
8:30 AM		**2.0510** NiMEx: Smart Rover Swarms for Concurrent Mars Missions and Adaptive Role Reassignment - **Nidhi Mandrekar**	**7.0603** Mitigating SEFIs in the Peripheral Circuitry of Non-Volatile Memories in Radiation Environments - **Daniel Puckett**	**4.0804** Towards Algebro-geometric Foundations for Temporospatial Network Modeling - **Alan Hylton**
8:55 AM		**2.0601** Hot Cathode Ionization in Space: Characterization and Improved Beam Shaping for the NIM MS on JUICE - **Samuel Wyler**	**7.0702** Solving Geodesic Equations with Composite Bernstein Polynomials for Optimal Trajectory Planning - **Nick Gorman**	**4.0805** Closed-Loop Modeling of Phase-Shifted Full-Bridge Converter with Current Doubler Output - **Kasemsan Siri**
9:20 AM	**14.11 PANEL:** Fission Surface Power - Technology and Deployment Vision - **Torrey Radcliffe, Vincent Bilardo, Timothy Cichan, Brent Freeze, Eduardo Seyffert**	**2.0602** Spectrum Scoring and Adaptive Swarm Optimization for the Ion Optics of the NIM TOF MS on JUICE - **Samuel Wyler**	**7.0704** Probabilistic Connectivity Analysis of Recursive Satellite Release for Formation Initialization - **Hideki Yoshikado**	**4.0806** Real-World LoRaWAN Performance & Propagation Modeling Using UAV, Helikite, and Vehicle Measurements - **Simran Singh**
9:45 AM		**2.0603** The Lunar Capillary Absorption Spectrometer (LUCAS) for Characterization of Lunar Volatiles - **Frank Sheeran**	**7.0705** ARISE: Port–Hamiltonian Passivity-Based Damping of ESPA Injection Jitter for High-Velocity Flybys - **Harish Vernekar**	**4.0807** Geometric Interpretation of Quantum-Optimum Detection Operators for Weak Optical Signals - **Victor Vilnrotter**
10:10 AM		**2.0604** PLANETARY VOLATILES EXTRACTOR (PVEX) for SAMPLE DELIVERY on the MOON. - **Frank Sheeran**	**7.0706** Inflight Performance of Pose and Position Vision Based Sensor Enabling Sub-mm Formation Flight - **Mathias Benn**	**4.0808** Kolmogorov–Arnold Networks for UAV Air-to-Ground Path Loss Modelling - **Gunes Karabulut Kurt**
10:35 AM	**14.12 PANEL:** Radioisotope Power Systems for the Next Decade - **Robert Sievers, Lindsey Boles, Leo Gard, Chris Venturella, Thomas Nix, Christofer Whiting**	**2.0606** Prototype of a Laser-based Mass Spectrometer for In-situ Dating of Rocks on Planetary Surfaces - **Peter Wurz**	**7.0712** Reinforcement Learning–Based Singularity Management for Variable-Speed Control Moment Gyroscopes - **Mohamed Okasha**	**4.0810** CE-Multicarrier Modulations vs. Multicarrier Modulations in Non-Terrestrial Network Scenarios - **Claudio Sacchi**
11:00 AM			**7.0717** Multi-agent Angle-Only Relative Orbit Determination via Distributed Filtering - **Giusy Falcone**	**4.0811** AI for Dynamic Environments and Exploration Using Deep Reinforcement Learning and FPGAs - **John Porcello**
11:25 AM				**4.0812** Linearized UC1875 PWM Controller in Phase-Shifted Full-Bridge Current-Doubler-Output Converters - **Natan Ranjbar**
12:00 PM	**LUNCH in the HUNTLEY DINING ROOM**			
1:15 PM	**JUNIOR ENGINEERING & SCIENCE CONFERENCE 1:15 - 4:30 PM in the MADISON ROOM**			

TUESDAY, MARCH 10 - MORNING AND EARLY AFTERNOON

Lake/Canyon	Lamar/Gibbon	Dunraven	Cheyenne	
13.0601 Creating Telemetry Alarms for the Europa Clipper Spacecraft - **Shelly Szanto**	**3.0101** Thermal Management and Packaging of High-Power Polarization-Diverse Arrays & Additive Manufacturing - **Maxwell Tannenbaum** Track 03 Best Paper	**5.0306** Autonomous Visual-Inertial Navigation for Networked Satellites - **Frederik Markus**	**10.0501** A Cyber-Physical Testing Framework for Evaluating Space Habitat Performance - **Herta Montoya**	**8:30 AM**
13.0603 Highlights of the IMAP Integration and Test Campaign - **Sarah Bucior**	**3.0301** High-Power Radio Frequency Anti-Satellite (ASAT) Weapons – Technical Aspects of an Emerging Threat - **Martin Schwarz**	**5.0402** Mission Life Enhancement Results for the Imaging X-ray Polarimetry Explorer (IXPE) - **BIll Kalinowski**	**10.0506** Modelling and Testing a Real-time Human-In-The-Loop Controlled Lunar Landing Simulator - **Miguel Neves**	**8:55 AM**
13.0605 Mirrored Surface Use and Measurement in Spacecraft Assembly and Test - **Robert Elliott**	**3.0302** Snow Accumulation Sounding Using C3 Class Hexacopter Integrated FMCW Radar - **Lee Taylor**	**5.0403** Revectoring a Mission Post-Launch: The AFRL's XVI Mission, Operations and Lessons Learned - **Erika Chavez**	**10.0507** Foundational Analysis of Safety Engineering Requirements - SAFER - **Noga Chemo**	**9:20 AM**
13.0606 Incompressible by Design: IMAP End-to-End Testing - **Musad Haque**	**3.0303** Probabilistic Evaluation of NGSO Interference on GEO-FSS Links Using a Monte Carlo Approach - **Remi Plazinski**	**5.0601** Enabling Suborbital Ionospheric Science with Low-Cost, Power-Efficient Boom Systems - **James Davis**	**10.0509** Coordinated World Model Learning for Deep Space Robot Teams - **Andrzej Skulimowski**	**9:45 AM**
		5.0602 Earth-observing Photonic Integrated Circuit (EPIC) Instruments Using Interferometric Imaging - **Mate Adamkovics**	**10.0511** Automated Consistency Checks for Contract Data and MBSE Models Using Natural Language Processing - **Aleksandra Markina Khusid**	**10:10 AM**
		5.0604 Integrated Attitude Control Architecture for Manipulator-Equipped SmallSats - **Laila Kazemi**		**10:35 AM**
		5.0605 Fabrication, Calibration, and Performance Evaluation of a Color-Coded Aperture Camera - **David Sternberg**		**11:00 AM**
				11:25 AM
LUNCH in the HUNTLEY DINING ROOM				**12:00 PM**
JUNIOR ENGINEERING & SCIENCE CONFERENCE 1:15 - 4:30 PM in the MADISON ROOM				**1:15 PM**

WEDNESDAY, MARCH 11 - MORNING AND EARLY AFTERNOON

	Amphitheatre	Jefferson	Madison	Gallatin
8:30 AM	**12.0601** Proximeter: An Automated Rover Arm Placement Safety Evaluation Tool - **Harel Dor**	**2.0607** A Novel Laser-Ablation Resonance-Ionization Mass Spectrometer for in Situ Dating of Lunar Rocks - **Rico Fausch**	**7.0802** Distributed Data Acquisition and Control System for Rocket Engine Static-Fire Test Stands - **Hubert Kowalczyk**	**4.0603** Elevation-Aware BLER-Centric Link Adaptation for Dynamic LEO 5G NTN Systems - **Eric Forbes**
8:55 AM	**12.0602** Enhancing Scalable Autonomy Space Teleoperation with User Intervention during Task Execution - **Ajithkumar Narayanan Manaparampil**	**2.0609** Venus Atmospheric Structure Investigation (VASI) on the DAVINCI Probe : 4 Years Post-Selection - **Ralph Lorenz**	**7.0804** Microchannel Plate Detectors for High-Resolution Remote Sensing and Space Surveillance Applications - **Camden Ertley**	**4.0605** PULSE-A: Polarization-Modulated Optical Communications at the CubeSat Form Factor - **Logan Hanssler**
9:20 AM	**12.0603** Fault Response under Uncertainty: Human-Robot Collaboration in Rover Mobility Recovery - **Michael Newcomb**	**2.0610** Using a Single Imager and Structured Light for High Resolution Mapping on Mars. - **David Klevang**	**7.0901** Digital Micromirror Devices as COTS Actuators for Propellant Free Attitude Control - **Jonathan Messer**	**4.0702** A Comparative Analysis of Measured and Simulated Multipath Effects on Satellite Tracking Error - **Rodrigo Negri de Azeredo**
9:45 AM	**12.0605** Evaluation of a Continuous Drive Autonomous Navigation Algorithm for Next-Generation Lunar Rovers - **Young-Young Shen**	**2.0611** Miniaturised French Instruments for In-situ Missions - **Gabriel PONT**	**7.0902** Towards Reliable Memory in Space: SEU-Tolerant Design Using a Novel Error Correction Code - **Youcef Bentoutou**	**4.0703** Modeling and Analysis of Air-to-Ground Cellular KPIs in a 5G Testbed Using Android Smartphones - **Simran Singh**
10:10 AM	**12.0608** Calibrating IMU Pitch Misalignment in the Field to Reduce Wheel-Inertial Odometry Elevation Drift - **Tushaar Jain**	**2.0801** Decadal Advancements in Technologies Supporting Active Magnetic Radiation Shields - **Joseph Hesse-Withbroe**	**7.0903** Resource and Power Overhead of Automated TMR for SRAM FPGAs in Space - **Nicholas Schmidt**	**4.0101** A Survey on Autonomous eVTOL Communications: Challenges, Solutions, and Opportunities - **Bing Mak**
10:35 AM	**12.0609** TATERS (Tool for Autonomous Terrain Exploration of Remote Spaces) - **Tyler Doiron**	**2.0803** Effects of Radiation on Photosensitive Instruments While Traversing the Van Allen Belts - **Aiden McCollum**	**7.0904** A Software-Based Approach to Radiation Mitigation for Planetary Missions - **Vandi Verma**	**4.0102** O2O Architecture and Test Systems - **Peter Rossoni**
11:00 AM	**12.0611** LunarLoc: Robust Global Localization for Autonomous Surface Operations on the Moon - **Annika Thomas**	**2.0806** Earth's Magnetopause Positions in Solar Wind Density-Velocity Space from 1963-2025 - **Remy Xie**		**4.0105** Inter-Satellite Link Configuration for Fast Delivery in Low-Earth-Orbit Constellations - **Arman Mollakhani**
11:25 AM	**12.0613** Replacement Reality: Dreaming of the Moon While Driving on Earth - **Masahiro Ono**			
11:50 AM				
1:00 PM	**14.07 PANEL:** Artemis Cooperative Exploration on the Lunar Surface in the Early 2030s - **Sarah Shull, Aoi Izumi, Andrew Gemer**			
1:25 PM				
1:50 PM				
2:15 PM	**14.08 PANEL:** Integrating Science into NASA's Human Mars Program - **Bruce Jakosky, Scott Hubbard, Dava Newman, Bethany Ehlmann, Timothy Cichan, Jennifer Rochlis, Dean Eppler**			
2:40 PM				
3:05 PM				

WEDNESDAY, MARCH 11 - MORNING AND EARLY AFTERNOON

Lake/Canyon	Lamar/Gibbon	Dunraven	Cheyenne	
8.0103 Historical Perspective on Artemis II Trajectory Design - **Alisha Crawley**	**9.0101** In-Flight Power Generation for UAVs Using a Deployable Savonius Turbine - **Aaditya Mathur**	**8.0301** Integrated Network for Commercial Spaceport 2.0: Enhancing Global Access and Collaboration - **Wanjiku Chebet Kanjumba**	**10.0514** Multi-Agent Mental Models for Cooperation of Heterogeneous Robots in a Space Scenario - **Adrian Bauer**	**8:30 AM**
8.0105 Composite Structure Enabling an Efficient Lunar Surface Habitat - **Matthew Ziglar**	**9.0102** MH-60R Helicopter Desktop Two-Seat Crew Simulator and Trainer - **Robert Richards**	**8.0303** Performance Evaluation of TSN-based Communication System for the Next Generation Launch Vehicle - **Francesco Giacinto Lavacca**	**10.0515** Simulink-Flight Software Bridge for Model Based Testing - **Sherif Matta**	**8:55 AM**
8.0201 Composite Habitat: An Incremental Development Path from Propellant Tank to Crewed Habitat - **Matthew Ziglar**	**9.0103** An Open Synthetic Operational Aircraft Performance Model (SOAP) - **Lance Bays**	**8.0304** Multi-physics Simulation Code LS-LUCA for Innovative Space Transportation System Design - **Keiichiro Fujimoto**	**10.0601** GoDSAT: Reinforcement Learning Based Satellite Constellation Sensor Tasking Framework - **Amir Saeed**	**9:20 AM**
8.0202 In-Space Manufacturing Viability of Nanocomposites for the Extreme Space Environment - **Palak Patel**	**9.0106** UrbanNav: A Comprehensive Simulation Framework for Urban Air Mobility Research - **Adam Haroon**	**8.0402** Commercial Orbit Transfer Services to Facilitate Lunar and Martian Exploration - **Matt Costello**	**10.0602** Autonomous Reasoning for Spacecraft Control: A LLM Framework with GRPO-based RL - **Amit Jain**	**9:45 AM**
8.0204 Behavior Analysis of Charged Lunar Regolith Simulants Lifted by Metal Wheel in Vacuum Environment - **Tadashi Matsuura**	**9.0206** Collaborative LLM-Based Agents for Autonomous Multi-UAV Mission Execution - **Jeremy Ludwig**	**Keynote: DEEP - Extreme-Environment Readiness Through Multistressor Subsea Operations**	**10.0603** A Novel Q-Learning Architecture for Non-Stationary Markov Decision Processes - **Daniel Clancy**	**10:10 AM**
8.0203 In-Situ Manufacturing of Conformal Fillers for High-Stress Underground Arch Restoration - **Madison Feehan**	**9.0207** Vision Language Model-informed Relative Navigation for GPS-denied Environments - **Alexander Pasqualina**	**8.0603** Development of a Novel Decompression Profile and Physiological Response to Polaris Dawn's EVA - **Marissa Rosenberg**	**10.0604** Stealth in Orbit: Poisoning Federated Learning Models in Satellite Constellations - **Pooria Madani**	**10:35 AM**
	9.0209 A Framework for Scenario Generation, Training, and Evaluation of Neuro-Symbolic AI for Autonomy - **Hambisa Keno**	**8.0604** Development of an Immersive Orion Docking Simulator with Vestibular Perturbations - **John Hayes**	**10.0605** Autonomous Tip-and-Cue Earth-Observing Constellation Tasking with Reinforcement Learning - **Mark Stephenson**	**11:00 AM**
		8.0605 Olfactory Brain-on-Chip in Microgravity for Accelerated Aging and Drug Discovery - **Vivian Norris**	**10.0606** A Physics-Informed Machine Learning Approach to the Jet Engine Aircraft Fuel Consumption Problem - **Francisco Velásquez-SanMartín**	**11:25 AM**
			10.0607 Predicting Cognitive State and Workload of Aviators with Machine Learning of Physiological Data - **Jeffrey Johnston**	**11:50 AM**
				1:00 PM
				1:25 PM
				1:50 PM
				2:15 PM
				2:40 PM
				3:05 PM

WEDNESDAY, MARCH 11 - AFTERNOON AND EVENING

	Amphitheatre	Jefferson	Madison	Gallatin
4:00 PM	**JAVA JAM**			
4:30 PM	**13.09 PANEL:** Keeping the "SE" in MBSE: Stakeholder Needs, Methods, Tools, and Processes - **Robert Minnichelli, Torrey Radcliffe, Rob Stevens**	**2.1001** Challenges in Finding Large Near-Earth Objects - **Richard Wainscoat**	**13.0503** Verification of SpaceAGORA.jl 6-DOF Dynamics Using University of Michigan SmallSats Telemetry - **Evan Yu**	**4.0202** Security Challenges in Space-Based Delay Tolerant Networks - **Mohammad Salam**
4:55 PM		**2.1003** Exploring Rapid-Response Flyby Recon Mission Architectures Enabling Asteroid Mass Estimation - **Evan Smith** Track 02 Best Paper	**13.0504** Test-bed Development for Sensor Fusion Application for Rendezvous and Proximity Operations. - **Cristobal Garrido**	**4.0203** TCP Performance Analysis for Cislunar Networks - **Qinqing Zhang**
5:20 PM		**2.1006** Using Impact Flash to Initiate Nuclear Explosive Devices in Planetary Defense Missions - **Russell TerBeek**	**Plenary Setup**	**4.0204** Hierarchical Community Detection and Routing on Networks with Forman-Ricci Curvature and Flow - **Oliver Chiriac**
5:50 PM	**1177 BC and After: Solar Minimums, Rapid Climate Changes, and the Collapse of Bronze Age Civilizations** **Eric Cline**			
6:35 PM	**HOSTED RECEPTION in the GRAND ATRIUM**			
7:05 PM	**DINNER in the MAIN BALLROOM**			
8:05 PM	**How the Languages We Speak Shape the Ways We Think** **Lera Boroditsky**			
9:00 PM		**2.1008** Modeling Atmospheric Breakup and Burst of Meteoroids Using High-Energy Equation of State Frameworks - **Mario Rodriguez-Martinez**	**13.0506** Graceful Degradation of Spacecraft Capabilities with Simulated Component Failure - **Josef Biberstein**	**4.0301** An NTN Uplink Radio Interface Based on Constant-Envelope Multicarrier Modulations and NOMA - **Claudio Sacchi**
9:25 PM		**2.1009** Review, Design, and Comparative Analysis of Microspine Gripper Technologies for Asteroid Attachment - **Megan Michaud**	**13.0508** Demonstrating Digital Twin Interoperability between Heterogeneous Platforms via Spatial Web - **Bingbing Li**	**4.0303** Reconfigurable Metasurfaces as Enablers for Adaptive and Modular Space Communication Architectures - **Ivan Iudice**
9:50 PM			**13.0509** Nonlinear Stability Analysis of the Psyche Spacecraft Attitude Control System - **Junette Hsin**	**4.0304** Distributed Reinforcement Learning for Resource Management in Satellite Edge Computing Systems - **Fabio Patrone**
10:15 PM	**FIRESIDE CHEER**			

WEDNESDAY, MARCH 11 - AFTERNOON AND EVENING

Lake/Canyon	Lamar/Gibbon	Dunraven	Cheyenne	
JAVA JAM				**4:00 PM**
	9.0210 Cooperative Area Coverage with High Altitude Balloons Using Multi-Agent Reinforcement Learning - **Adam Haroon**	**8.0501** Review of Advanced Informatics and Display Systems for Extravehicular Activity Operations - **Jacob Keller**	**10.0608** Terrain-Aware Low-Altitude Path Planning - **Annika Thomas**	**4:30 PM**
	9.0211 Time-Frequency Wavelet Transformer Forecasting for Hypersonic Glide Vehicle Trajectory Prediction - **Marina Kurilova**	**8.0502** Examination of the Joint Augmented Reality Navigation System for Lunar Surface Operations - **Matthew Miller**	**10.0609** Mission-specific Trajectory Dispersions for T-SCVx Landing Guidance - **Waylon Lee**	**4:55 PM**
	9.0212 Analytical Estimation of Off-Nominal Volumes under UA Intent Uncertainty in UTM BVLOS Operations - **Vincent Kuo**	**8.0503** Updates to the Injury Modes and Effects Analysis for Suited Lunar Surface Operations and Training - **Aaron Drake**	**10.0610** Bringing Federated Learning to Space - **Grace Kim**	**5:20 PM**
1177 BC and After: Solar Minimums, Rapid Climate Changes, and the Collapse of Bronze Age Civilizations **Eric Cline**				**5:50 PM**
HOSTED RECEPTION in the GRAND ATRIUM				**6:35 PM**
DINNER in the MAIN BALLROOM				**7:05 PM**
How the Languages We Speak Shape the Ways We Think **Lera Boroditsky**				**8:05 PM**
		8.0504 Development of a Ground Test Protocol for Evaluations of Drivable LTV Engineering Development Units - **Harry Litaker**		**9:00 PM**
		8.0505 Evaluation of Crew Emergency Return Capability during Lunar Terrain Excursions - **Harry Litaker**		**9:25 PM**
				9:50 PM
FIRESIDE CHEER				**10:15 PM**

THURSDAY, MARCH 12 - MORNING AND EARLY AFTERNOON

	Amphitheatre	Jefferson	Madison	Gallatin
8:30 AM		**2.0701** Robust Trajectory Optimization against Missed Thrust Events Using Sequential Convex Programming - **Hirotaka Sekine**	**11.0101** Reliability and Condition-Based Fusion Approaches to Prognostics - **Shashvat Prakash**	**4.1301** A Novel Grid-Based Conflict Detection Algorithm for Trajectory Based Operations - **Alexandra Newcomb**
8:55 AM		**2.0702** Early-Phase Design of Distributed Space Antennas and Constellations for D2D Communications - **Seang Shim**	**11.0104** Evaluating Anomaly Detection Algorithms for Satellite Telemetry: A Case Study Using Public Datasets - **Lorenzo Brancato**	**4.1302** A Hybrid Centralized and Decentralized Framework for Traffic Management in Advanced Air Mobility - **Alexandra Newcomb**
9:20 AM		**2.0703** Space-Interferometry Formation Design Using Relative Orbit Elements: The STARI Mission - **Antonio Rizza**	**11.0105** AeroAssist: A Prompt-Driven Multimodal AI Framework for Aircraft Maintenance - **SANDEEP KALARI**	**4.1303** Mobility-Resilient Datalink Protocol for Next-Generation Aeronautical Communication - **Sergun Ozmen**
9:45 AM		**2.0707** Uncertainty Quantification for Low-Thrust GTO to Lunar Transfers Using Monte Carlo Simulation - **Godwin Shitta**	**11.0107** Towards Autonomous PHM: An Application to Gearbox Fault Diagnosis - **David He**	**4.1304** Air-to-Air Channel Characterization for UAV Communications at 3.4 GHz - **Anil Gurses**
10:10 AM		**2.0709** Expanding Venus Entry Accessibility through Resonant Transfer - **Maxwell Jacobson**	**11.0108** Initial Study of a Physics-Based Virtual Assistant for Real-Time Fault Diagnosis in Space Habitats - **Kazuki Toma** Track 11 Best Paper	**4.1402** Protecting against Space Invaders: An AI-driven Framework for Proactively Defending Space Systems - **Kendra Cook**
10:35 AM			**11.0201** Investigating Large Language Model-Based Decision Making for Deep Space Habitat Systems - **Sreehari Manikkan**	**4.1405** Deep Learning Based Anomaly Detection for Securing ADS-B in NextGen Aviation - **Andrei Gurtov**
11:00 AM			**11.0702** Modeling the Impact of Helicopter Vibrations on the Musculoskeletal Health of US Army Pilots - **Julie Johnston**	
11:25 AM			**11.07 PANEL:** PHM for Human Health and Performance (PHM4HHP) - **David He, Nicole Rote, Joshua Elston, Julie Johnston**	
11:50 AM				
1:00 PM	**14.01 PANEL:** Technology Development for Science-Driven Missions - **Vandi Verma, James Hoffman, Jason Kalirai, Sarah Shull, Chris Thayer**		PHM for Human Health and Performance - **David He, Nicole Rote, Joshua Elston, Julie Johnston**	
1:25 PM				
1:50 PM				
2:15 PM	**14.02 PANEL:** Emerging Technologies for Mars Exploration - **Larry Matthies, Peter Sullivan, Masahiro Ono, Mazen Shihabi, Ernestina Wozniak**			
2:40 PM				
3:05 PM				

THURSDAY, MARCH 12 - MORNING AND EARLY AFTERNOON

Lake/Canyon	Lamar/Gibbon	Dunraven	Cheyenne	
5.0606 WESAT Mission: Solar Irradiance and UV Index Variability in Space vs Ground in Trivandrum, India - **Lizy Abraham**	**9.0305** Experimental and Numerical Analysis of a Test Rig for Structural Testing of Aircraft Wing - **Hessam Ghasemnejad**	**8.0901** Radioisotope Power Systems (RPS) Deployment and Integration into Future Missions - **Young Lee**	**10.0701** Gesture-based Human-in-the-loop Control of Space Exploration Vehicle Convoys - **James Tukpah**	**8:30 AM**
5.0607 Accelerating FPGA-Based SoC Development for Reaction Wheels Using Open-Source Tools - **Yari Nys**	**9.0308** Geometry Adaptive Deep Q-Network for UAV-Based Emitter Localization in Cluttered RF Environments - **Christopher Peters**	**8.0902** Development of Radioisotope Stirling Generators for High Efficiency Space Power Generation - **Ernestina Wozniak**	**10.0702** Exploratory Design of an Extended Reality UAV Path Planning Tool - **Luljeta Sinani**	**8:55 AM**
5.0608 From Ground Tests to Orbit: ECSS Error Characterization of SentinelTRAC - **Laila Kazemi**	**9.0311** Human as an Actuator Dynamic Model Identification - **Matthew Kirchner**	**8.0904** High Temperature Advanced Closed Brayton Converter Cycle Analysis and Conceptual Design - **Gregory Daines**	**10.0705** A Bayesian Framework for Human-Agent Collaborative Fault Diagnosis - **Joshua Elston**	**9:20 AM**
5.0609 Transforming a Technology Demonstration into a Rapid Reusable Platform for Sensing Maturation - **Tyler Hoover**	**9.0312** SLAP: Slapband-based Autonomous Perching Drone with Failure Recovery for Vertical Tree Trunks - **Julia Di**	**8.0905** Fission Surface Power Technology Maturation Needs - an Overview - **Vincent Bilardo**	**10.0706** Toward Improving Task-Level Commanding in Space Robotics Teleoperation through Shared Mental Models - **Luisa Mayershofer**	**9:45 AM**
5.0610 Novel Suite of Sensors for Recording Spatial, Temporal, and Spectral Optical Lightning Signals - **Grant Soehnel**	**9.0313** Aircraft System Identification Using Equation Error Formulation in Ordinary Least Squares Framework - **Hassan Akmal**	**8.0909** Coupled Multi-Unicouple Modeling for RTG Performance Prediction under Material Uncertainty - **Eden Brunner**	**10.0707** Optimization of Machine Learning Methods for Prediction of G-Induced Loss of Consciousness - **Nicole Rote**	**10:10 AM**
5.0702 A Novel Inclination Bias Approach for Mitigating Ground Track Drift in Indian Nanosatellites - **Parthiban Pandiyan**	**9.0315** CubeSat Drone: The Development of a CubeSat Experimental Testbed - **Miguel Nunes**	**8.0910** Establishing a Self-Sustaining Lunar Data Economy through Commercial Data Markets - **Jacob Matthews**		**10:35 AM**
5.0703 Iterative Repair for Small Satellite Power, Attitude and Mission Task Schedule Management - **Brooklyn Beck**		**8.0911** Status of Current L3Harris Technologies RTG Programs - **Leo Gard**		**11:00 AM**
				11:25 AM
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				2:15 PM
				2:40 PM
				3:05 PM

THURSDAY, MARCH 12 - AFTERNOON AND EVENING

	Amphitheatre	Jefferson	Madison	Gallatin
4:00 PM	**JAVA JAM**			
4:30 PM	**6.0502** Hybrid Hard/Soft Data Association in Multi-target Tracking - **Stefano Coraluppi**	**2.1101** Learning Safety-Guaranteed, Non-Greedy Control Barrier Functions Using Reinforcement Learning - **Minduli Wijayatunga**	**11.0401** Intelligent Defect Detection and Identification for Additive Manufacturing Systems - **John Poindexter**	**5.0704** Design of a Cold-Gas Propulsion System for the STARI Mission - **Althea Noonan**
4:55 PM	**6.0604** Near Real-Time Georectification of Satellite Imagery for Insights - **Paulo Fisch**	**2.1114** Grasp Optimization for Space Manipulation Using Multiple Underactuated Spacecraft - **M. Reza Emami**	**11.0402** Correlation-Informed Time-Series Forecasting for Anomaly Detection - **Lauren Bailey**	**5.0708** Trussed Deployable Structures That Enable Rendezvous & Proximity Operations - **Ryan Rickerson**
5:20 PM	**6.0605** Cross-Region Mineral Mapping with Hyperspectral data-Trained Multispectral Data Features - **Tsubomatsu Hideki**	**2.1115** Agile Tradespace Exploration for Space Rendezvous Mission Design via Transformers - **Yuji Takubo**	**Plenary Setup**	**5.0710** Autonomous Detection of Magnetometer Misalignment and Magnetorquer Polarity for Small Satellites - **Srianish Vutukuri**
5:50 PM	**The Unbearable Slowness of Being: Why Do We Live at 10 bits per Second?** **Markus Meister**			
6:35 PM	**HOSTED RECEPTION in the GRAND ATRIUM**			
7:05 PM	**DINNER in the MAIN BALLROOM**			
8:05 PM	**Fishing for Invasive Lake Trout with Airborne Lidar** **Joseph Shaw**			
9:00 PM	**6.0608** Dynamic Bias Estimation Offset Determination for TDOA Geolocation - **Daniel Johnson**			**5.0711** A Lyapunov-Based Magnetorquer-Only Sun-Pointing Controller - **Pedro Rocha Cachim**
9:25 PM	**6.0703** Replacing Subspace Tracking Methods with Dynamic Mode Decomposition - **Efrain Gonzalez**			**5.0712** Trajectory Optimization for Free-Flying Robots in Microgravity Using Convex Obstacle Representation - **André Teixeira**
9:50 PM				
10:15 PM	**FIRESIDE CHEER**			

THURSDAY, MARCH 12 - AFTERNOON AND EVENING

Lake/Canyon	Lamar/Gibbon	Dunraven	Cheyenne	
JAVA JAM				**4:00 PM**
13.0702 Navigating the Risks of Using Commercial Spacecraft for NASA Missions - **Rebecca Kelly**	**9.0314** Ad-Hoc UCV Resource Provisioning for UA Missions: A KPI Assessment Tool - **Andrei Gurtov**	**8.0702** Structural and Thermal Design and Testing of the MATCH Payload aboard the Chang'e 7 Lunar Orbiter - **Popefa Charoenvicha**	**10.0803** Enabling Localization and Mapping for Heterogeneous Robots in Orbit-to-Surface Teleoperation Setup - **Xiaozhou Luo**	**4:30 PM**
13.0705 Development of an Agile Mission Concept Formulation Framework - **Kinga Wrobel**	**9.0408** Reliable Maintenance Policy for Distributed Affine Formation Control of UAVs - **Raj Thilak Rajan** Track 09 Best Paper	**8.0803** Development of a Structural Thermal Model for a Water-Based Propulsion System on the GEO-X Mission - **Ryo Minematsu**	**10.0805** Towards Robust 6D Pose Tracking for On Orbit Servicing with Learned Segmentation and Motion Priors - **Anne Reichert**	**4:55 PM**
	9.0409 Convex Stability Can Stabilize Dynamic Systems, Declared as Unstabilizable by Current Methods - **Rama Yedavalli**	**8.0804** The Space Gas Station - **John Slough**	**10.0807** Vision beyond Earth: Synthetic Satellite Data for Neural Perception in Orbit - **Wout Boerdijk**	**5:20 PM**
The Unbearable Slowness of Being: Why Do We Live at 10 bits per Second? **Markus Meister**				**5:50 PM**
HOSTED RECEPTION in the GRAND ATRIUM				**6:35 PM**
DINNER in the MAIN BALLROOM				**7:05 PM**
Fishing for Invasive Lake Trout with Airborne Lidar **Joseph Shaw**				**8:05 PM**
13.0804 Seeking a Just Culture in Space Mission Assurance - **Barbara Braun**	**9.0410** Envelope-Aware, Cascaded Altitude Controller for VTOL via Reinforcement Learning - **Mohamed Okasha**		**10.0808** The S3LI Vulcano Dataset: A Dataset for Multi-Modal SLAM in Unstructured Planetary Environments - **Riccardo Giubilato**	**9:00 PM**
13.0802 Boosting Digital Engineering Workforce Execution with a Semantic Data Fabric - **Kimberly Nunn**	**9.0411** Development of an UAS with Geomatics and Bioinspired Features for ISR Missions - **Rodrigo Rangel**		**10.0809** Semantic Segmentation and Depth Estimation for Real-Time Surface Mapping Using Gaussian Splatting - **Guillem Casadesus Vila**	**9:25 PM**
			10.0811 RGB-NIR Reflectance and 3D Microtopography for Lunar Regolith Analysis Using ToF Imaging Systems - **Don Derek Haddad**	**9:50 PM**
FIRESIDE CHEER				**10:15 PM**

FRIDAY, MARCH 13

	Amphitheatre	Jefferson	Madison	Gallatin
8:30 AM	**10.0812** Visual SLAM with DEM Anchoring for Long-Range Lunar Surface Navigation - **Adam Dai**			
8:55 AM	**10.0814** Monocular Depth Estimation for Spacecrafts : Combining Relative and Scale Information - **Leonard Felicetti**			
9:20 AM	**10.0815** Picture Your Satellite in Space: A Hybrid Rendering Framework for Physically Based Space Images - **Georgia Albuquerque**			
9:45 AM	**10.0816** A New Dataset and Performance Benchmark for Real-time Spacecraft Segmentation in Onboard Computers - **Arko Barman**			
10:10 AM	**10.0820** Onboard Transformer-Based Lossless Neural Compression on Satellite Imagery - **Jefferson Boothe**			
10:35 AM	**10.0822** Investigation of Neuromorphic Sensing and Processing for Moving Object Detection - **Douglas Carssow**			
11:00 AM				
7:00 PM	**FAREWELL DINNER**			

FRIDAY, MARCH 13

Lake/Canyon	Lamar/Gibbon	Dunraven	Cheyenne	
4.0402 Designing a Networking System for Lunar Exploration over the Moon–Earth Link - **Shunsuke Higuchi**				**8:30 AM**
4.0406 Observability Analysis of Simultaneous Localization & Calibration for Cooperative Radio Navigation - **Alexis Fernando Marino Salguero**				**8:55 AM**
4.0407 Analysis of Cost-Effective Lunar Positioning Constellation with Heterogeneous Satellites - **Sae Ogoshi**				**9:20 AM**
4.0409 Lunar Relay Ground Stations - **Alexander Ford**				**9:45 AM**
				10:10 AM
				10:35 AM
	4:30 - 5:30 PM: All Track/Session Organizers Planning Session for the 2027 Conference			**11:00 AM**
FAREWELL DINNER				**7:00 PM**

Electronic Presentation Hall 24/7

2.0103 • Design and Development of the Multi-Angle Imager for Aerosols (MAIA) Earth Venture Instrument - Kon-Sheng Wang
2.0105 • Design and Implementation of the NASA Psyche Discovery Mission's Science Data Center - Ernest Cisneros
2.1104 • A General Purpose Method for Autonomous Interception of Non-Cooperative Dynamic Targets - Tanmay Patel
2.1107 • Reinforcement Learning for Closed-loop Whole-Body Control of a Debris Capture Satellite - Vighnesh Vatsal
3.0104 • Untethered-Interference Cancellation by a Simultaneous Jamming and Communication Terminal - Bruce McGuffin
3.0402 • Assessment of GRAIL Radio Science Signal Noise Patterns in Support of Lunar Radio Occultation - Yu-Ming Yang
4.0604 • Development Status of the Inter-Spacecraft Optical Communicator - Jose Velazco
4.0801 • Performance Analysis of Signals Integration Approaches in Digital Communication Systems - Ashraf Abdel Aziz
4.1403 • The Current State of Satellite Constellation Security and Design Moving Forward - Trey Burks
5.0801 • HERMES: A Satellite Surrogate and GS Communication Testbed for CubeSats Using SDR and OpenC3 COSMOS - Luiz Felipe Bromfman
6.0405 • Maneuver Detection Based Adaptive Transition Probability Matrix for Improved IMM Estimate - Bibhabasu Mondal
7.0101 • A Data-Driven Surrogate Modeling and Sensor/Actuator Placement Framework for Flexible Spacecraft - Matthew Hilsenrath
7.011 • Analysis of GEMM Implementations Using MIMD-based Processor for Multi-Function ISAC Systems - Saquib Siddiqui
9.0107 • Hybrid BEMT - Vortex Theory Model to Predict Amphibious Propeller Performance - Md Umar Farooq
9.0213 • Hybrid-Constrained Multi-Agent Reinforcement Learning for Collaborative Dual-Aircraft Scenarios - Hao Liang
9.0306 • Rotor Dynamics and Sprayer Efficiency in Agricultural UAVs - Harrison Dean

Electronic Presentation Hall 24/7 (contd.)

9.0403 • The First Open-Source Framework for Learning Stability Certificates from Data - Zhe Shen
10.0104 • Developing Reduced-Order Models to Predict Supersonic Shock-Induced Performance Metrics in Scramjets - Rehaan Kadhar
10.011 • Model Rocket Performance Analysis Platform - Aziz Durmuş
10.0201 • Insights from Three Decades of Operating and Modernizing a Multi-Mission Distributed Object Store - Jenette Sellin
10.0206 • Towards an AI-augmented Monitoring and Control Applications Lifecycle Management System - Francesco Croce
10.0407 • Range-Calibrated Anomaly Prediction for Spacecraft Data Using Multi-head Attention and GRUs - Shivanjali Khare
10.051 • A High-Fidelity Actuator Model for Robotics Autonomy in Space and Beyond - Preston Rogers
10.0513 • Mission-Oriented Site Selection for Future Lunar Mining Operations - Ebru Tulu
10.0611 • Overcoming Challenges of Realism in Competitive Space-Based Reinforcement Learning with AstroCraft - Loren Anderson
10.0817 • Dual-Path Framework with Uncertainty Awareness for Robust Spacecraft Pose Estimation - Fulin Peng
11.0102 • NASA SimuPy-Based Spacecraft Fault & Reliability Diagnostics Framework Using Machine Learning - Vishnupriya S Devarajulu
11.011 • Physics-Informed Machine Learning for Life Assessment of Aerospace Structures under Fatigue - Mr. Kunal
11.0601 • Mitigating Aviation Maintenance Challenges: A Technical Evaluation of AI-Enabled Sustainment - Christopher Reese
12.0606 • Indoor Testbed for Multirobot Research with Microdrones - Kira Hofelmann
13.0107 • Value Creation Patterns in Space Program Architectures - Alexander Bühler
13.0302 • Impact of Technology and Methodology on Performance Metrics in Complex Aerospace Project Management - Florent Nogueira
13.0407 • A Generative Modeling Approach to Resource-Efficient Early Mission Concept Formulation - Alfred Nash

MAP OF THE VILLAGE AT BIG SKY

2027 CALL FOR PAPERS FLYER

***ADDITIONAL CONFERENCE COMMITTEE ROLES (FROM PAGE 4):**

[1] Board Member, Plenary Co-Chair, Language Review Committee, Exhibitor/Patrons Program Committee
[2] Website Chair, Exhibitor/Patrons Program Committee, AIAA Representative
[3] Paper Review Vice Chair
[4] Paper Review Committee, Publications Committee, Exhibitor/Patrons Program Committee, Website Administration
[5] Vice Board Chair and Board Recorder
[6] Publications Vice Chair
[7] Board Member Emerita, Publications Committee
[8] Thank You Note Writer
[9] Paper Review Committee, VIP Hospitality Chair
[10] EPH Vice Chair
[11] Language Review Chair, Special Advisor
[12] Paper Review Committee, Language Review Committee

PLENARY PROGRAM:
SCIENCE AND AEROSPACE FRONTIERS

Sunday
March 8, 2026
5:50 p.m.

The Dark Oxygen Research Initiative (DORI) Project - Investigating Dark Oxygen Production in the Deep Sea

Andrew K. Sweetman, The Scottish Association for Marine Science, (SAMS), Oban, UK

Deep-sea seafloor organisms consume oxygen as part of a global balance between photosynthesis and respiration, but direct observations of oxygen consumption rates from the abyssal seafloor are scarce relative to its areal extent and the diversity of seafloor habitats. In 2024, Sweetman et al. published research from in-situ seafloor incubations from previously unexplored manganese nodule provinces in the eastern equatorial Pacific Ocean, where they found more oxygen was being produced at the abyssal seafloor than was being consumed. In >40 incubations of the seafloor, they found oxygen levels increased in 93% of their enclosed chamber experiments, rising to more than 3-times background levels over 48 hours. Dark Oxygen Production (DOP) occurred exclusively in the presence of manganese oxides. It is presently unclear what the mechanism behind DOP is, but the close link to polymetallic oxides and increase in interest in deep-sea mining necessitates further investigations. With funding provided by the Nippon Foundation, SAMS is embarking on a multi-year research program to fully characterize DOP in different deep-sea habitats and developing the Dark Oxygen Research Initiative - the DORI project. This talk will showcase the extensive evidence for DOP as well as provide details on the DORI project.

Sunday
March 8, 2026
8:05 p.m.

The Quiet Part: Remote Sensing and Earthquake Strain Accumulation

Andrea Donnellan, Purdue University, West Lafayette, Indiana

Earthquakes often strike without notice and can be severe, causing billions of dollars damage. The process leading to earthquakes is primarily driven by plate tectonics, inexorably occurring over millions of years. Tectonic motion causes strain to accumulate, which releases as earthquakes or quietly as aseismic motion. Aseismic or quiet motion occurs during elastic strain accumulation, along weak faults, or in compliant rock units or sediment. Remote sensing offers a means of measuring both aseismic and seismic surface displacements and deformation. Techniques include Interferometric Synthetic Aperture Radar (InSAR), which measures line of sight changes between pixels on the ground and the instrument, and Global Navigation Satellite System (GNSS), which provides detailed time series of GNSS stations. Lidar and optical imagery reveal the topographic expression of faults and surface displacements produced by earthquakes. These remotely sensed measurements complement seismic and geologic observations of earthquakes and faults, allowing a more complete view of the earthquake cycle and evolution of faults over time. Understanding the quiet part of earthquake cycles better bounds earthquake hazard assessment by partitioning how much tectonic motion occurs seismically or leaks out of the system aseismically.

Monday
March 9, 2026
5:50 p.m.

Early Results from the SPHEREx Spectral Survey Satellite

James Bock, California Institute of Technology and NASA Jet Propulsion Laboratory, Pasadena, CA

SPHEREx, a satellite in NASA's Medium Explorer program, launched in March 2025. The mission is now observing the entire sky in infrared spectroscopy, the first survey of its kind. SPHEREx is designed to probe the exotic physics of inflation, study the origin of water and biogenic molecules in the form of ices in interstellar space, and chart the origin and history of galaxy formation. SPHEREx is producing four allsky spectral maps in 102 infrared colors that will serve as a rich archive for the astronomy community. With over a billion detected galaxies, hundreds of millions of high-quality stellar and galactic spectra, and over a million ice absorption spectra, the archive enables diverse scientific investigations across astronomy. This talk will describe the SPHEREx science goals and present some early results.

Monday
March 9, 2026
8:05p.m.

The Cosmos We Take For Granted

Matthew Strassler, Harvard University, Cambridge, MA

In our busy 21st century, it is easy for many days to pass without our thinking even once about the universe we inhabit. Our senses and brains lull us into complacency, concealing how the cosmos permeates and shapes our lives. But when the most basic features of the world are examined closely, puzzles arise that reveal the universe's profound strangeness. These puzzles are simple to state and yet, despite the best efforts of physicists, they have proven extraordinarily difficult to resolve.

PLENARY PROGRAM:
SCIENCE AND AEROSPACE FRONTIERS

WEDNESDAY
MARCH 11, 2026
5:50 P.M.

1177 BC and After: Solar Minimums, Rapid Climate Changes, and the Collapse of Bronze Age Civilizations

ERIC CLINE, GEORGE WASHINGTON UNIVERSITY, WASHINGTON, D.C

Blame for the end of the Late Bronze Age in the Aegean and Eastern Mediterranean is usually laid squarely at the feet of the socalled Sea Peoples, known to us from the records of the Egyptian pharaohs Merneptah and Ramses III. However, while the Sea Peoples may well have been responsible for some of the destruction that occurred, it is much more likely that a concatenation of events, both human and natural — including earthquake storms, droughts, rebellions, and systems collapse, caused in part by a solar minimum and a Rapid Climate Change — coalesced to create a "perfect storm" that brought the age to a sudden and unexpected end. Furthermore, while the centuries following the Late Bronze Age Collapse in the Aegean and Eastern Mediterranean were indeed a time of catastrophe, they were also a time of rebirth and resilience — it was less of a Dark Age and more of a reboot for many of the societies which were affected. While there are examples of failure to thrive or even to survive in some cases, others managed to adapt and transform, even standardizing the alphabet and making the switch from bronze to iron. In effect, we have eight case studies of what to do (and what not to do) in the event of a systems collapse, ranging from the Assyrians, Babylonians, and Egyptians to the Mycenaeans, Cypriots, Phoenicians, and others in between.

WEDNESDAY
MARCH 11, 2026
8:05 P.M.

How the Languages We Speak Shape the Ways We Think

LERA BORODITSKY, UNIVERSITY OF CALIFORNIA SAN DIEGO, SAN DIEGO, CA

Humans communicate with one another using 7,000 or so different languages, and each language differs from the next in innumerable ways. How do the languages we speak shape the ways we think? This presentation will discuss research conducted around the world showing how language fundamentally structures the way we think about color, space, time, causality, and agency.

THURSDAY
MARCH 12, 2026
5:50 P.M.

The Unbearable Slowness of Being: Why Do We Live at 10 Bits per Second?

DR. MARKUS MEISTER CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CA

This talk is about a conundrum around the slowness of human behavior. The information throughput of a human being is about 10 bits per second. In comparison, our sensory systems gather data at a billion bits per second. The stark contrast between these numbers remains unexplained and touches on fundamental aspects of brain function: What brain circuits set this speed limit on the pace of our existence? Why does the brain need billions of neurons to process a paltry 10 bits per second? Why can we only think about one thing at a time? The answers promise a new perspective on human behavior and cognition, as well as our future relationships with thinking machines.

THURSDAY
MARCH 12, 2026
8:05 P.M.

Fishing for Invasive Lake Trout with Airborne Lidar

JOSEPH SHAW, MONTANA STATE UNIVERSITY, BOZEMAN, MONTANA

The 1994 discovery of non-native lake trout in Yellowstone Lake at the southeast corner of Yellowstone National Park launched a struggle to preserve the Yellowstone ecosystem. Lake trout eat the prized native cutthroat trout but live far too deep to fill the cutthroat trout role as primary protein source for animals that include bears, pelicans, and otters. When fisheries biologists needed information on where the lake trout spawn, Montana State University lidar researchers developed a custom airborne lidar ("laser radar") system to fly in a small airplane and hunt for laser scattering signatures to reveal lake trout spawning locations. Manual examination of lidar data successfully identified previously unknown spawning sites and machine learning methods have been developed recently to automate the analysis. This presentation will tell the story of how a university-based optical scientist led the development and refinement of airborne lidar methods that are contributing to saving the Yellowstone ecosystem where his ancestors more than a century before ran one of the first camping companies in the newly established Yellowstone National Park.

TRACKS, SESSIONS, AND ORGANIZERS

1.0 Science and Aerospace Frontiers (Plenary Sessions), David Woerner, Kendra Cook

2.0 Space Missions, Systems and Architectures, Steven Arnold (Johns Hopkins University/Applied Physics Laboratory), Keyur Patel (NASA Jet Propulsion Laboratory)

02.01 Current Space and Earth Science Missions, James Graf (Jet Propulsion Laboratory), Stephen Schmidt (NASA GSFC), Keyur Patel (NASA Jet Propulsion Lab), Kristen Brown (NASA - Goddard Space Flight Center)

02.02 Future Space and Earth Science Missions, Michael Gross (NASA Jet Propulsion Lab), Alex Austin (Jet Propulsion Laboratory)

02.03 System and Technologies for Landing on Planets, the Moon, Earth and Small Bodies , Clara O'Farrell (Jet Propulsion Laboratory), Ian Clark (Jet Propulsion Laboratory)

02.04 Robotic Mobility and Sample Acquisition Systems, Joseph Bowkett (Jet Propulsion Laboratory), Paul Backes (Jet Propulsion Laboratory), Richard Volpe (Jet Propulsion Laboratory)

02.05 Future Missions & Enabling Technologies for In Situ Exploration, Sample Returns , Christopher Green (NASA - Goddard Space Flight Center), Elena Adams (Johns Hopkins University/Applied Physics Laboratory)

02.06 In Situ Instruments for Landed Surface Exploration, Orbiters, and Flybys, Xiang Li (NASA Goddard Space Flight Center), Jacob Graham (NASA Goddard Space Flight Center), Terry Hurford

02.07 Mission Design, Formation Flying and Constellations, Giovanni Palmerini (Sapienza Universita' di Roma), Leonard Felicetti (Cranfield University), Ryan Woolley (Jet Propulsion Laboratory)

02.08 Space Radiation and its Interaction with Shielding, Electronics and Humans, Ondrej Ploc (Nuclear Physics Institute of the Czech Academy of Sciences), Lembit Sihver (TU Wien and NPI of the CAS)

02.09 Space Debris and Micrometeoroids: The Environment, Risks, and Mitigation Concepts and Practices, James Kinnison (JHU-APL), Yasin Abul-Huda (Johns Hopkins Univ Applied Physics Lab (JHU APL))

02.10 Asteroid Detection, Characterization, Sample-Return, and Deflection, Paul Chodas (Jet Propulsion Laboratory), Michael Werth (The Boeing Company), Jeffery Webster (NASA / Caltech / Jet Propulsion Laboratory)

02.11 In-Space Robotics: Proximity Operations, Servicing, Assembly, Manufacturing, and Active Debris Removal, David Sternberg (NASA Jet Propulsion Laboratory), Kenneth Cheung (NASA - Ames Research Center)

3.0 Antennas, RF/Microwave Systems and Radio Science, James Hoffman (Kinemetrics), Glenn Hopkins (Georgia Tech Research Institute)

03.01 Phased Array Antenna Systems and Beamforming Technologies, Glenn Hopkins (Georgia Tech Research Institute)

03.02 Ground and Space Antenna Technologies and Systems, Thomas Williamson (Georgia Tech Research Institute), James Hoffman (Kinemetrics)

03.03 RF/Microwave Systems, Christopher Edmonds (Georgia Tech Research Institute), James Hoffman (Kinemetrics)

03.04 Radio Astronomy and Radio Science, Melissa Soriano (Jet Propulsion Laboratory), Mark Bentum (Eindhoven University of Technology)

4.0 Communication & Navigation Systems & Technologies, John Enright (Toronto Metropolitan University), Kar Ming Cheung (Jet Propulsion Laboratory)

04.01 Evolving Space Communication Architectures, Shervin Shambayati (Aerospace Corporation), Behzad Koosha (The George Washington University)

04.02 Communication Protocols and Services for Space Networks, Behzad Koosha (The George Washington University), Shervin Shambayati (Aerospace Corporation)

04.03 Next Generation Space Systems: AESS GLUE , Claudio Sacchi (University of Trento), Tommaso Rossi (University of Rome Tor Vergata)

04.04 Navigation and Communication Systems for Exploration, David Copeland (Johns Hopkins University/Applied Physics Laboratory), Patrick Stadter (The Aerospace Corporation)

04.05 Relay Communications for Space Exploration, Jaime Esper (NASA - Goddard Space Flight Center), Mazen Shihabi (Jet Propulsion Laboratory)

04.06 Innovative Space Communications and Tracking Techniques, Alessandra Babuscia (NASA Jet Propulsion Laboratory), Kar Ming Cheung (Jet Propulsion Laboratory)

04.07 Communication System Analysis & Simulation, Marc Sanchez Net (Jet Propulsion Laboratory)

04.08 Communications and/or Related Systems: Theory, Simulation, and Signal Processing, Claudio Sacchi (University of Trento), David Taggart , Len Yip (Aerospace Corporation)

04.09 Wideband Communications Systems, Claudio Sacchi (University of Trento), David Taggart

04.10 Software Defined Radio and Cognitive Radio Systems and Technology, Eugene Grayver (Aerospace Corporation), Genshe Chen (Intelligent Fusion Technology, Inc.)

04.11 Global Navigation Satellite Systems, Lin Yi (IEEE), Sriramya Bhamidipati (NASA Jet Propulsion Lab)

TRACKS, SESSIONS, AND ORGANIZERS

04.12 Space Navigation Techniques, Lin Yi (IEEE), John Enright (Toronto Metropolitan University), Evan Ward (U.S. Naval Research Laboratory)

04.13 CNS Systems and Airborne Networks for Manned and Unmanned Aircraft, Mark Cockburn (US Department of Transportation), Jason Glaneuski (US DOT / RITA / Volpe Center)

04.14 Aerospace Cyber Security and Cyber-Physical Systems, Patrick Morrissey (Collins Aerospace), Krishna Sampigethaya (Embry-Riddle Aeronautical University)

5.0 Small Spacecraft, Low-Cost Missions, Systems and Technologies, Catherine Venturini (The Aerospace Corporation), Alex Austin (Jet Propulsion Laboratory)

05.01 Small, Low-Cost Missions in Development and Operations for Space and Earth Exploration, Young Lee (Jet Propulsion Laboratory), Benjamin Donitz (NASA Jet Propulsion Laboratory), Lee Jasper (Space Dynamics Laboratory)

05.02 Future Small, Low-Cost Mission Concepts, Young Lee (Jet Propulsion Laboratory), Laura Jones-Wilson (Jet Propulsion Laboratory), Dexter Becklund (The Aerospace Corporation)

05.03 Applications for Distributed Systems of Small Spacecraft, Rachit Bhatia (CesiumAstro), Ashwati Das-Stuart (NASA Jet Propulsion Lab), Ryan Woolley (Jet Propulsion Laboratory)

05.04 Lessons Learned from Small Spacecraft Missions, Michael Swartwout (Saint Louis University), Bruce Yost (NASA - Ames Research Center), John Samson (Morehead State University)

05.05 Small Missions for Workforce Development and Education, Michael Swartwout (Saint Louis University), Jin S. Kang (U.S. Naval Academy)

05.06 Instruments and Payloads for Small, Low-Cost Missions, Laila Kazemi (Star Forge Consulting), Michael O'Connor (United States Space Force), Rashmi Shah (Jet Propulsion Laboratory/California Institute of Technology)

05.07 Technologies for Small, Low-Cost Missions, John Dickinson (Sandia National Laboratories), Dimitris Anagnostou (Heriot Watt University), Michael Mclelland (Southwest Research Institute)

05.08 Small Satellite Manufacturing, Production, Integration and Test at Scale, Kara O'Donnell (Aerospace Corporation), Nicole Fondse (Aerospace Corporation)

6.0 Remote Sensing, Jordan Evans (Jet Propulsion Laboratory), Darin Dunham (Lockheed Martin)

06.01 Systems Engineering Challenges and Approaches for Remote Sensing Systems, Maria De Soria Santacruz Pich (Jet Propulsion Laboratory), Bogdan Oaida (Jet Propulsion Laboratory, California Institute of Technology), Travis Imken (Jet Propulsion Laboratory)

06.02 Instrument and Sensor Architecture, Design, Test, and Accommodation, Ryan Sorensen (NASA Jet Propulsion Lab), Keith Rosette (Jet Propulsion Laboratory), Michael Lisano (Jet Propulsion Laboratory)

06.03 Spectral Imaging in Remote Sensing, Mohamed Abid (Jet Propulsion Laboratory / NASA), Peter Sullivan (NASA Jet Propulsion Lab)

06.04 Radar, IR, and Electro-Optical Sensor Systems and Signal Processing, Thomas Backes (Georgia Institute of Technology), Donnie Smith (Waymo)

06.05 Information Fusion, Craig Agate (Toyon Research Corporation), Dan Harris (Northrop Grumman Corporation)

06.06 Multisensor Fusion, William Blair (Georgia Tech Research Institute), Laura Bateman (Johns Hopkins University/Applied Physics Laboratory)

06.07 Applications of Target Tracking , John Glass (RTX), John Grimes (BAE Systems, Inc)

06.08 Fusion Integration of Sensor Harvesting, Erik Blasch (Air Force Research Laboratory), Paul Schrader (Air Force Research Laboratory Information Directorate)

7.0 Avionics and Electronics for Space Applications, John Dickinson (Sandia National Laboratories), Patrick Phelan (Southwest Research Institute)

07.01 High Performance Computing and On-Board Data Processing for Space Applications, Jamal Haque (Lockheed Martin Space Systems Company), Robert Merl (Los Alamos National Laboratory)

07.02 Peripheral Electronics, Data Handling, and Interconnects for Space Applications, Mark Post (University of York), Michael Epperly (Southwest Research Institute), Patrick Phelan (Southwest Research Institute)

07.03 Assembly, Integration, and Test for Electrical Space Systems, Eric Rossland (Naval Research Laboratory), Eric Bradley (Naval Research Lab)

07.04 Power Electronics for Aerospace Applications, Chris Iannello (University of Central Florida), Thomas Cook (Voyager Space)

07.05 Electronics for Extreme Environments, Andrew Kirby (Los Alamos National Laboratory), Mohammad Mojarradi (Jet Propulsion Laboratory)

07.06 Fault Tolerance, Autonomy, and Evolvability in Spacecraft and Instrument Avionics, Didier Keymeulen (Jet Propulsion Laboratory), Neil Dahya (NASA Jet Propulsion Laboratory)

07.07 Guidance, Navigation, and Control Technologies for Space Applications, Leena Singh (MIT Lincoln Laboratory), Matthew Lashley (GTRI), John Enright (Toronto Metropolitan University)

07.08 Emerging Technologies for Space Applications, Michael Mclelland (Southwest Research Institute), William Jackson (L3Harris Technologies)

TRACKS, SESSIONS, AND ORGANIZERS

07.09 COTS Utilization for Reliable Space Applications, Douglas Carssow (Naval Research Laboratory), Matthew Spear (Air Force Research Laboratory)

8.0 Spacecraft & Launch Vehicle Systems & Technologies, Greg Chavers (NASA), Lisa May (Lockheed Martin Space)

08.01 Human Exploration Beyond Low Earth Orbit, Chel Stromgren (Binera, Inc.), Dimitry Ignatov (Booz Allen Hamilton), Kevin Post (Booz Allen Hamilton)

08.02 Human Exploration Systems Technology Development, Erica Rodgers (NASA - Headquarters), James Johnson (Colorado School of Mines), Tara Polsgrove (NASA Marshall Space Flight Center)

08.03 Advanced Launch Vehicle Systems and Technologies, Randy Williams (The Aerospace Corporation), Melissa Sampson (Sampson Strategic)

08.04 Commercial Services for Lunar and Mars Exploration, Ryan Stephan

08.05 Human Factors & Performance, Kevin Duda (Draper Laboratory), Jessica Marquez (NASA Ames Research Center)

08.06 Space Human Physiology and Countermeasures , Ana Diaz Artiles (Texas A&M University), Andrew Abercromby (X-3PO: Extreme Physiology, Performance, Protection & Operations)

08.07 Mechanical Systems, Design and Technologies, Brian McCarthy (The Aerospace Corporation)

08.08 Spacecraft Propulsion and Power Systems, Steve Snyder (Jet Propulsion Laboratory), Erica Deionno (The Aerospace Corporation)

08.09 Nuclear Space Power Generation, Christofer Whiting (NASA - Glenn Research Center), Vincent Bilardo (Intuitive Machines LLC)

9.0 Air Vehicle Systems and Technologies for Piloted, Remotely Piloted, or UAS Atmospheric Platforms, Christopher Elliott (CMElliott Applied Science LLC), Tom Mc Ateer (NAVAIR)

09.01 AV Physics, Modeling, and Simulation, Christopher Elliott (CMElliott Applied Science LLC), Will Goins (William Goins P.E.), Richard Hoobler (University of Texas at Austin)

09.02 AV Autonomy, Artificial Intelligence, and Distributed Atmospheric Platforms, Will Goins (William Goins P.E.), Kerianne Hobbs (Air Force Research Laboratory), Nathaniel Hamilton (University of Dayton)

09.03 AV Systems, Sensors, Flight Testing, and V&V, Tom Mc Ateer (NAVAIR), Thomas Fraser (Lockheed Martin Corp), Andrew Lynch (Tactical Air Support Inc.)

09.04 AV Flight Guidance, Navigation, and Control Theory and Application, Richard Hoobler (University of Texas at Austin), Nikolaus Ammann (DLR (German Aerospace Center)), Christopher Elliott (CMElliott Applied Science LLC)

10.0 Software and Computing, Kristin Wortman (Johns Hopkins University Applied Physics Laboratory), Virgil Adumitroaie

10.01 Computational Modeling, Tiberiu Barbat (Virtual-Ing), Virgil Adumitroaie

10.02 Innovative Software Engineering and Management Techniques and Practices, Ronnie Killough (Southwest Research Institute), Jeremiah Finnigan (Johns Hopkins University/Applied Physics Laboratory)

10.03 Software Architecture and Design, Peter Lehner (German Aerospace Center (DLR)), Martin Stelzer (German Aerospace Center (DLR))

10.04 Software Quality, Reliability and Safety Engineering and Other Illities, Kristin Wortman (Johns Hopkins University Applied Physics Laboratory), Robert Klar (Southwest Research Institute)

10.05 Model-based Systems and Software Engineering, Aleksandra Markina Khusid (MITRE Corporation), Hongman Kim (Jet Propulsion Laboratory)

10.06 Machine Learning / Artificial Intelligence (ML/AI) for Aerospace Applications, Pooria Madani (Ontario Tech University), Daniel Clancy (Georgia Tech Research Institute), Georges Labrèche (Tanagra Space)

10.07 Human-Systems Interaction, Janki Dodiya (IU International University of Applied Science), Georgia Albuquerque (German Aerospace Center - DLR)

10.08 Image Processing and Computer Vision, Marco Sewtz (German Aerospace Center - DLR), Timothy Chase (Advanced Technology Center, Lockheed Martin Space), Levin Gerdes (University of Malaga)

11.0 Diagnostics, Prognostics and Health Management (PHM), Andrew Hess (The Hess PHM Group, Inc.), Wolfgang Fink (University of Arizona)

11.01 PHM for Aerospace Systems, Subsystems, Components, Electronics, and Structures, Andrew Hess (The Hess PHM Group, Inc.), David He (University of Illinois at Chicago)

11.02 PHM for Autonomous Platforms and Control Systems Applications, Derek De Vries (Northrop Grumman Propulsion Systems), Wolfgang Fink (University of Arizona)

11.03 PHM System Design Attributes, Architectures, and Assessments, Derek De Vries (Northrop Grumman Propulsion Systems), Andrew Hess (The Hess PHM Group, Inc.)

11.04 PHM for Non-Aerospace Applications, Andrew Hess (The Hess PHM Group, Inc.), David He (University of Illinois at Chicago)

11.05 PHM for Commercial Space Applications, Derek De Vries (Northrop Grumman Propulsion Systems), Andrew Hess (The Hess PHM Group, Inc.), Wolfgang Fink (University of Arizona)

TRACKS, SESSIONS, AND ORGANIZERS

11.06 PHM and Digital Engineering and Transformation, Andrew Hess (The Hess PHM Group, Inc.), Mark Walker (End to End Enterprise Solutions)

11.07 PHM for Human Health and Performance, Alexandre Popov (AIAA SETC), Wolfgang Fink (University of Arizona)

11.08 Panel: PHM from a Practitioner's Perspective – a Potpourri of Capabilities, Issues, Case Studies, and Lessons Learned, Andrew Hess (The Hess PHM Group, Inc.), Derek De Vries (Northrop Grumman Propulsion Systems)

12.0 Ground and Space Operations, Mona Witkowski (Jet Propulsion Laboratory), Michael Machado (NASA - Goddard Space Flight Center)

12.01 Orbital, Surface and Payload/Instrument Mission Operations, Heidi Hallowell (Ball Aerospace), Mona Witkowski (Jet Propulsion Laboratory)

12.02 Mission Planning, Mission Operations Systems and Ground Architectures, Rob Lange (Jet Propulsion Laboratory), Kedar Naik (BAE Systems, Space & Mission Systems)

12.03 Human Space Flight Development, Processing, and Operations, Michael Lee (NASA - Kennedy Space Center), William Koenig (NASA - Kennedy Space Center)

12.04 Resilient and Cyber Secure Systems for Mission Operations, John Kenworthy (BAE Systems), Seth Kricheff (Thompson Software Solutions)

12.05 Automation and Machine Learning Applications in Spacecraft Operations, Zaid Towfic (Jet Propulsion Laboratory), Dennis Ogbe (Jet Propulsion Laboratory)

12.06 Robotics, Autonomy and Operations, Vandi Verma (NASA JPL-Caltech), Alexandra Holloway (Jet Propulsion Laboratory)

13.0 Systems Engineering, Management, and Cost, Jeffery Webster (NASA / Caltech / Jet Propulsion Laboratory), Torrey Radcliffe (Aerospace Corporation)

13.01 Systems Architecture, Engineering and System of Systems, Daniel Selva (Texas A&M University), Dean Bucher (The Aerospace Corporation), Lisa May (Lockheed Martin Space)

13.02 Management and Risk Tools, Methods and Processes, Joshua Calkins (Ensign-Bickford Aerospace & Defense (EBAD)), Charlene Ung (NASA Jet Propulsion Lab)

13.03 Cost and Schedule Tools, Methods, and Processes, Eric Mahr (The Aerospace Corporation), Stephen Shinn (Aerospace Corp)

13.04 Advances in Conceptual Design Methods and Applications, Rob Stevens (Aerospace Corporation), Alfred Nash (Jet Propulsion Laboratory)

13.05 System Simulation and Verification, Virgil Adumitroaie , Gregory Falco (Cornell University)

13.06 System Verification & Validation and Integration & Test, Benjamin Solish (Millennium Space Systems), Evan Smith (Johns Hopkins University/Applied Physics Laboratory), Sarah Bucior (Johns Hopkins University Applied Physics Laboratory)

13.07 Strategic Technology Planning, Management & Infusion, Stephen Krein (Johns Hopkins University/ Applied Physics Laboratory), Andrea Belz (University of Southern California)

13.08 Promote (and Provoke!) Cultural Change, John Ryskowski (JFR Consulting), Brendan Kach (Raytheon), David Scott ((Self))

13.09 PANEL: Keeping the "SE" in MBSE: Stakeholder Needs, Methods, Tools, and Processes, Robert Minnichelli (USC)

14.0 Government Plans, Policies and Education, Richard Mattingly (Jet Propulsion Laboratory Retired), Erica Deionno (The Aerospace Corporation)

14.01 PANEL: Technology Development for Science-Driven Missions, Lorraine Fesq (Jet Propulsion Laboratory), Vandi Verma (NASA JPL-Caltech)

14.02 PANEL: Emerging Technologies for Mars Exploration, Larry Matthies (Jet Propulsion Laboratory)

14.03 PANEL: Small Satellite Trending – End-to-End Mission Innovation: From Concept to Execution, Kara O'Donnell (Aerospace Corporation), Barbara Braun (Aerospace Corporation), Nicole Fondse (Aerospace Corporation)

14.04 PANEL: Commercial Services for Space Exploration, Greg Chavers (NASA)

14.05 PANEL: CLPS Landers, Mission Successes, Lessons Learned and Path Forward, Regina Blue (NASA)

14.06 PANEL: Mars Commercial Services Studies, Larry Matthies (Jet Propulsion Laboratory), Ryan Woolley (Jet Propulsion Laboratory)

14.07 PANEL: Artemis Cooperative Exploration on the Lunar Surface in the Early 2030s, Stephen Creech (NASA - Headquarters), Sarah Shull (NASA - Johnson Space Center)

14.08 PANEL: Integrating Science into NASA's Human Mars Program, Bruce Jakosky (University of Colorado Boulder)

14.09 PANEL: Geotechnical Studies to Define the "Built Environment" for the Moon and Mars, James Hoffman (Kinemetrics)

14.10 PANEL: Commercial LEO Habitats: Our Next Step into the Space Economy, Blair Bigelow May (Selene Space Corporation)

14.11 PANEL: Fission Surface Power - Technology and Deployment Vision, Torrey Radcliffe (Aerospace Corporation)

14.12 PANEL: Radioisotope Power Systems for the Next Decade, Robert Sievers (Power Systems)

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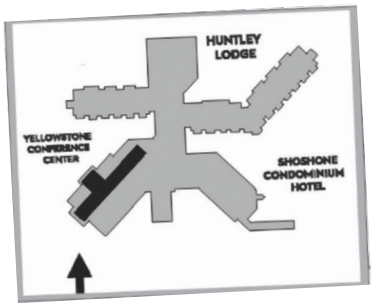
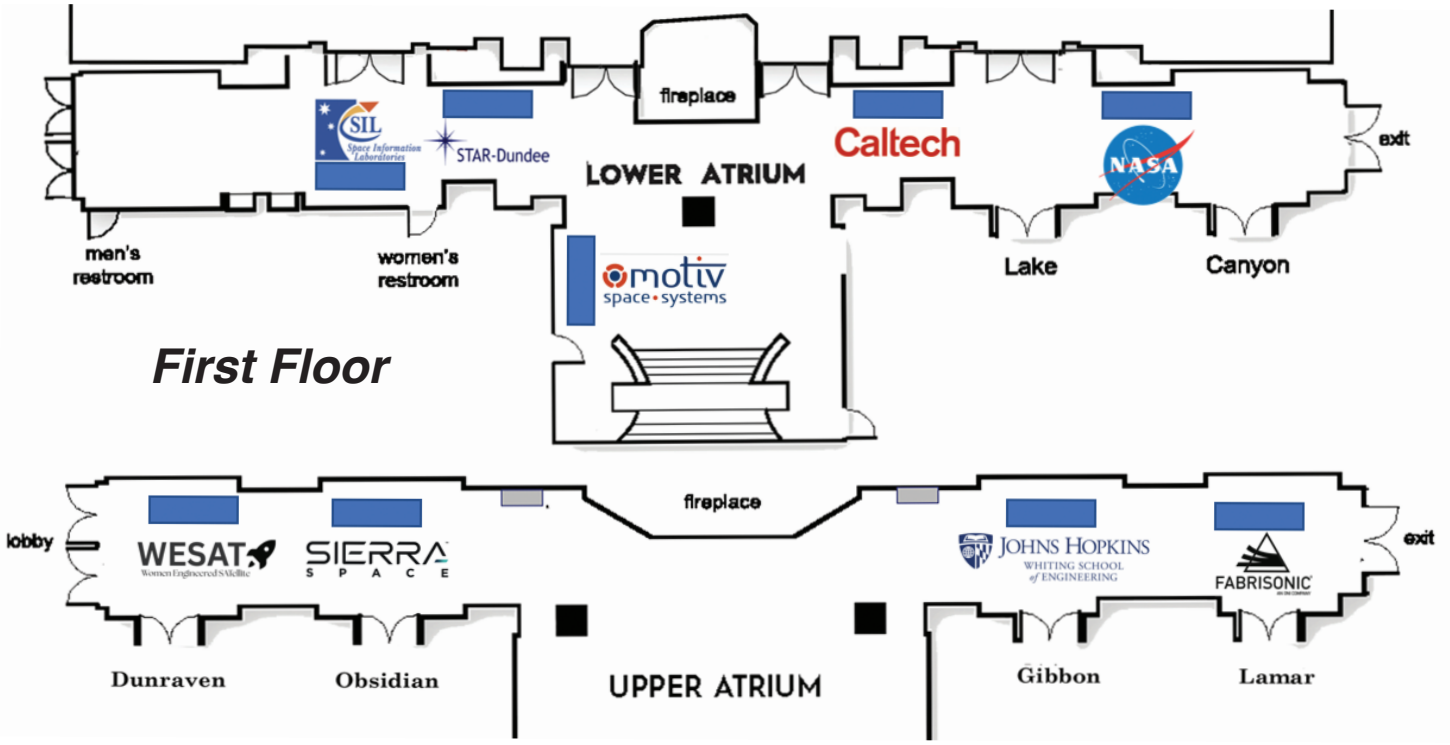


EXHIBITOR MAP



About the Prognostics and Health Management Society

The Prognostics and Health Management (PHM) Society is a professional organization dedicated to the advancement of PHM as an engineering discipline. The PHM Society was incorporated in 2009 as a non-profit organization dedicated to the advancement of all things PHM and their related technology disciplines, across appropriate industry sectors, and applications. The flagship events of the society are our annual conference events and their diverse offerings. Current the society has over 7,000 participating members across over 30 countries. More information and content can be found on our website is: phmsociety.org

The Prognostics and Health Management Society is dedicated to:

- promoting the development, growth, and recognition of prognostics and health management (PHM) as an engineering discipline;
- supporting PHM education by developing standard teaching curricula in the field;
- participating in and facilitating international scientific collaboration in connection with the advancement or application of PHM;
- advancing the theory and practice of PHM;
- establishing, presenting, managing, or organizing PHM conferences, workshops, seminars, and courses;
- publishing peer-reviewed publications concerning or related to PHM and its applications; and
- establishing, developing, or adopting standards, methods, and metrics for PHM

IEEE Junior Engineering and Science Conference

JUNIOR ENGINEERING AND SCIENCE AUTHORS*

1st	Mason Cook	6th	Michael Gross ii	8th	Samantha Khusid
1st	Arjun Kuhn	6th	Kai Kirchner	9th	Kayleigh Cook
1st	George Wang	6th	Savannah Cook	10th	Oriana Khusid
1st	Aanya Kuhn	6th	Mehreet Sethi	10th	Fiona Bearden
2nd	Madison Cook	7th	Robbie Sherwood	11th	Tasbih Bakshi
3rd	Michael Valentino	7th	Audrey Valentino	11th	Cora Ludwig
3rd	Dolores Hoskins	7th	Isabelle Andriescu	11th	Hamilton Carter
4th	Matthew Gross	7th	Sam Carter		
4th	Diana Carter	8th	Adrian Grayver		

***Junior Conference Scholarship is Proudly Sponsored by IEEE AESS**

Conference Evaluation Form

Evaluate the 2026 Conference

Help us continue to improve your conference experience (see above). Printed evaluation forms can be found in the registration room. Forms will be collected after the Thursday evening dinner, but if you leave Big Sky before then, please complete your form and place it in the Evaluation Forms box in the Registration Office or Grand Atrium.

Volunteer for the 2027 Conference

https://www.aeroconf.org/conference_volunteers/new

The conference is seeking talented and energetic volunteers to organize technical sessions. Please consider adding conference management experience to your resume and volunteer to join our friendly, hard-working group.

The 2027 IEEE Aerospace Conference

Yellowstone Conference Center, Big Sky
March 6 - 13, 2027

Registration Opens October 2026!

The call for papers will be out soon

Look for it on our website and in your email

Plan to submit a paper and attend
Tell your colleagues
Check our website: aeroconf.org

SCHEDULE OVERVIEW

6 Days of Presentations, Over 200 Hours of Technical Sessions, and 20 Hours of Conference-Sponsored Technical Networking

Registration and Icebreaker & Cheese Reception
Saturday March 7, 6:30–9:00 PM

Sunday March 8	Monday March 9	Tuesday March 10	Wednesday March 11	Thursday March 12	Friday March 13
Free Morning in Big Sky Village	Technical Sessions 8:30 AM–Noon	Technical Sessions 8:30 AM–Noon	Technical Sessions 8:30 AM–Noon	Technical Sessions 8:30 AM–Noon	Technical Sessions 8:30 AM–Noon
Continued Registration 3:00–6:45 PM	Lunch Break Noon–1:00 PM	Catered Lunch Noon–1:15 PM	Lunch Break Noon–1:00 PM	Lunch Break Noon–1:00 PM	Lunch Break Noon–1:00 PM
	Panels 1:00–3:30 PM	Jr Engineering & Science Conference 1:15–4:30 PM	Panels 1:00–3:30 PM	Panels 1:00–3:30 PM	Ad Hoc Individual Track Planning Meetings
Java Jam 4:00–4:30 PM	Java Jam 4:00–4:30 PM	Ad Hoc Session Workshops (see announcement board for time and location)	Java Jam 4:00–4:30 PM	Java Jam 4:00–4:30 PM	Track/Session Organizers Planning Session for 2027 Conference 4:30–5:30 PM
Technical Sessions 4:30–5:45 PM	Technical Sessions 4:30–5:45 PM		Technical Sessions 4:30–5:45 PM	Technical Sessions 4:30–5:45 PM	
Plenary Session 5:50–6:35 PM	Plenary Session 5:50–6:35 PM		Plenary Session 5:50–6:35 PM	Plenary Session 5:50–6:35 PM	
Hosted Reception 6:35–7:05 PM	Hosted Reception 6:35–7:05 PM	Free Evening in Big Sky Village	Hosted Reception 6:35–7:05 PM	Hosted Reception 6:35–7:05 PM	Farewell Networking Catered Reception & Dinner 7:00–11:00 PM (Buffet open 7:00–9:00 PM)
Catered Dinner 7:05–8:05 PM	Catered Dinner 7:05–8:05 PM		Catered Dinner 7:05–8:05 PM	Catered Dinner 7:05–8:05 PM	
Plenary Session 8:05–8.50 PM	Plenary Session 8:05–8.50 PM		Plenary Session 8:05–8.50 PM	Plenary Session 8:05–8.50 PM	
Technical Sessions 9:00–10:15 PM	Technical Sessions 9:00–10:15 PM		Technical Sessions 9:00–10:15 PM	Technical Sessions 9.00–10:15 PM	
Après Session Fireside Cheer and Chat 10:15–11:00 PM	Après Session Fireside Cheer and Chat 10:15–11:00 PM		Après Session Fireside Cheer and Chat 10:15–11:00 PM	Après Session Fireside Cheer and Chat 10:15–11:00 PM	

All dinners and networking activities are intended to promote, enhance, and facilitate technical discussions and long-term professional and personal relationships.