SCITECH

12–16 JANUARY 2026
ORLANDO, FL

BREAKING BARRIERS TOGETHER:
BOUNDLESS DISCOVERY

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WELCOME TO SCITECH

The 2026 AIAA SciTech Forum Guiding Coalition and Technical Program Committee welcome you to Orlando! We have worked hard this past year curating exciting and thought-provoking content around the forum theme, Breaking Barriers Together: Boundless Discovery. We hope these industry leaders, topics, and technical sessions inspire you. Make it a great week!

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The American Institute of Aeronautics and Astronautics (AIAA) is the world's largest aerospace technical society. With nearly 30,000 individual members from 91 countries, and 100 corporate members, AIAA brings together industry, academia, and government to advance engineering and science in aviation, space, and defense. For more information, visit aiaa.org, or follow AIAA on LinkedIn, Instagram, Facebook, and X.

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PROGRAM HIGHLIGHTS

SUNDAY, 11 JANUARY

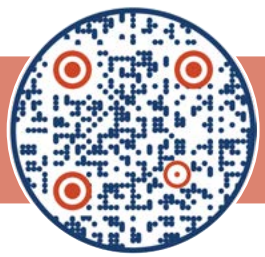
8–6:30 p.m.	*Barrel Spring I*	PAW-01	**7th AIAA Propulsion Aerodynamics Workshop**
7:30–8 p.m.	*Plaza Ballroom F*	AIAA-01	**SciTech 101**

MONDAY, 12 JANUARY

7:30–8 a.m.	*Session Rooms*	SP-01	**Technical Paper Session Prep**
8–9 a.m.	*Windermere Ballroom*	PLN-01	**Plenary Session: Peggy Whitson, Astronaut, Vice President of Human Space Flight, Axiom Space**
9–9:30 a.m.	*Regency Rotunda*	NW-01	**Networking Coffee Break**
9:30–10:30 a.m.	*Windermere Ballroom*	F360-01	**Forum 360: Celebrating 100 Years of Rocketry**
10:30–11:30 a.m.	*Windermere Ballroom*	F360-02	**Forum 360: Boeing Fireside Chat**
1:30–2:30 p.m.	*Windermere Ballroom*	F360-03	**Forum 360: The Art of Innovation: Distilling Vision into Design**
2–4 p.m.	*Regency Ballroom O-P*	AIAA-03	**Meet the Employers**
3–3:30 p.m.	*Regency Rotunda*	NW-02	**Networking Coffee Break**
3:30–4:30 p.m.	*Windermere Ballroom*	AIAA-04	**2026 AIAA Durand Lecture for Public Service**
4:30–6 p.m.	*Regency Ballroom O-P*	AIAA-05	**Meet the Universities**
5:30–7 p.m.	*Windermere Ballroom*	AIAA-06	**AIAA Awards Recognition Ceremony**

TUESDAY, 13 JANUARY

6:30–7:15 a.m.	*Hotel Lobby*	AIAA-98	**Aerospace Fun Run**
7:30–8 a.m.	*Session Rooms*	SP-02	**Technical Paper Session Prep**
8–9 a.m.	*Windermere Ballroom*	PLN-02	**Plenary Session: Arbi Karapetian, Director, Innovation and Technology, Formula 1**
9–9:30 a.m.	*Regency Rotunda*	NW-03	**Networking Coffee Break**
10–11 a.m.	*Windermere Ballroom*	F360-04	**Forum 360: Future of Research Funding**
11–11:30 a.m.	*the HUB in Expo Hall*	HUB-19	**ISS Anniversary Panel**
1–2 p.m.	*Windermere Ballroom*	F360-05	**Forum 360: Quantum Revolution in Aerospace**
2:15–3 p.m.	*Windermere Ballroom*	F360-06	**Forum 360: 30 Years of Design/Build/Fly**
3–3:30 p.m.	*Regency Ballroom*	NW-04	**Networking Coffee Break**
3:30–4:30 p.m.	*Windermere Ballroom*	AIAA-09	**2026 AIAA Dryden Lecture in Research**
5:30–7 p.m.	*Regency Ballroom*	NW-11	**Reception - Expo Hall - Everyone is invited!**



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PROGRAM HIGHLIGHTS

Join the Q&A at aiaa.cnf.io

WEDNESDAY, 14 JANUARY

7:30–8 a.m.	*Session Rooms*	SP-03	**Technical Paper Session Prep**
8–9 a.m.	*Windermere Ballroom*	PLN-03	**Plenary Session: Fireside Chat with Craig Martell, CTO, Lockheed Martin, & Ylli Bajraktari, President & CEO, Special Competitive Studies Project**
9–9:30 a.m.	*Regency Ballroom*	NW-05	**Networking Coffee Break**
10 a.m.–12 p.m.	*Plaza Ballroom H*	AIAA-07	**Rising Leaders in Aerospace: Speed Mentoring**
10–11 a.m.	*Windermere Ballroom*	F360-07	**Forum 360: AI Fight Club**
11:30 a.m. - 12:30 p.m.	*Regency Ballroom*	LUNCH-01	**Expo Hall Lunch**
1:30–2 p.m.	*Windermere Ballroom*	F360-08	**Forum 360: A Level Digital Playing Field – Vision & Urgency**
2–4 p.m.	*Plaza Ballroom H*	AIAA-08	**Rising Leaders in Aerospace: Panel & Social Hour Breaking the Sound Barrier: The Next 80 Years of Supersonic and Hypersonic Travel**
2–3 p.m.	*Windermere Ballroom*	F360-09	**Forum 360: Level Digital Playing Field: Lessons Learned**
3–3:30 p.m.	*Regency Ballroom*	NW-06	**Networking Coffee Break**
3:30–4:30 p.m.	*Windermere Ballroom*	F360-10	**Forum 360: Unlocking T&E Collaboration**
5–6:30 p.m.	*Regency Ballroom*	AIAA-10	**Corporate Member Reception (Invite Only)**
6–10 p.m.	*Regency Ballroom O-P*	AIAA-11	**2026 AIAA Associate Fellows Induction Ceremony and Dinner (Separate Ticket Required)**

THURSDAY, 15 JANUARY

6:30–7:15 a.m.	*Hotel Lobby*	AIAA-99	**Aerospace Fun Run**
7:30–8 a.m.	*Session Rooms*	SP-04	**Technical Paper Session Prep**
8–9 a.m.	*Windermere Ballroom*	PLN-04	**Plenary Session: Jason Levin, Senior Vice President of Engineering, Anduril**
9–9:30 a.m.	*Regency Ballroom*	NW-07	**Networking Coffee Break**
9:30–10:30 a.m.	*Windermere Ballroom*	F360-11	**Forum 360: Ryan Tseng, President, Co-Founder, and Chief Strategy Officer, Shield AI**
10:30–11:30 a.m.	*Windermere Ballroom*	F360-12	**Forum 360: Balancing Safety and Innovation**
1–2:30 p.m.	*Regency Ballroom O-P*	AIAA-12	**Rising Leaders in Aerospace: Career Development Workshop**
1–3 p.m.	*Plaza Ballroom G*	AIAA-13	**The Divide Between Acceptance and Rejection of a Journal Article**
1–2 p.m.	*Windermere Ballroom*	F360-13	**Forum 360: Human Readiness Levels**
3–3:30 p.m.	*Regency Rotunda*	NW-08	**Networking Coffee Break**
3:30–4:30 p.m.	*Windermere Ballroom*	F360-14	**Forum 360: Capture the Satellite Challenge**
5:30–7:30 p.m.	*Windermere Ballroom*	AIAA-14	**LeadHership at SciTech Panel & Social Hour**

FRIDAY, 16 JANUARY

7:30–8 a.m.	*Session Rooms*	SP-05	**Technical Paper Session Prep**
8–9 a.m.	*Windermere Ballroom*	PLN-05	**Plenary Session: Jonathan W. Arenberg, Fellow and Chief Mission Architect for Science and Robotic Exploration, Northrop Grumman**
9–9:30 a.m.	*Regency Rotunda*	NW-09	**Networking Coffee Break**
10–11 a.m.	*Windermere Ballroom*	F360-15	**Forum 360: Introduction to Wargaming with AFRL**
3–3:30 p.m.	*Regency Rotunda*	NW-10	**Networking Coffee Break**

YEAR IN REVIEW 2025

2025 YEAR IN REVIEW IS LIVE

Explore our annual roundup of the year's biggest aerospace achievements and milestones, described by AIAA's technical community.

The top moments of the year included:

- Blue Origin debuts New Glenn and lands a booster.
- Boom's demonstrator goes supersonic.
- Firefly's Blue Ghost nails its lunar landing.
- NASA's X-59 demonstrator takes flight.

Explore the 2025 Year in Review
aerospaceamerica.aiaa.org/year-in-review-2025

X-59 takes fl ight. (Lockheed Martin)


Boom goes supersonic. (Boom Supersonic)


Blue Origin debuts New Glenn and lands a booster. (Blue Origin)


Firefl y's Blue Ghost nails lunar landing. (Firefl y Aerospace)

CAREER ACCELERATOR PROGRAM FOR UNIVERSITY STUDENTS

Calling all university students! Attending AIAA SciTech Forum and looking to launch your career in aerospace? Take part in our NEW Career Accelerator Program. The program will provide you with unparalleled access to the aerospace industry with expert-led sessions, immersive content, and direct connections to industry professionals so you can launch your career with confidence.

MONDAY, 12 JANUARY

9–9:30 a.m.	*Regency Rotunda*		**Ribbon-Cutting Ceremony for the AIAA Student Lounge** *Sponsored by Lockheed Martin*
9:30–10:15 a.m.	*Regency Ballroom O-P*	CAP-01	**Opening Keynote** This session introduces the aerospace industry as a place where bold thinkers tackle complex, high-impact challenges and help shape the future. Emmy Award–winning design leader Hillary Coe of Vast shares her personal path into aerospace and how resilience can help you claim your place in the field.
10:30–11:15 a.m.	*Regency Ballroom O-P*	CAP-02	**Level Up Your Game** A moderated panel of recruiters and hiring managers from top firms will give a behind-the-scenes look into how to land your dream job with resume and interview tips.
12:45–1:15 p.m.	*See App for Rooms*	CAP-03 - CAP-06	**Command Your Mission** Choose from four different microsessions that are focused on getting you career-ready with practical and actionable strategies. Topics include a resume workshop, building your brand, transitioning to work, and leveraging your competition experiences.
1:30–2 p.m.	*See App for Rooms*	CAP-08 - CAP-12	**Launch into Tomorrow** Choose from four different microsessions that are focused on the bigger picture with topics that include making your dreams a reality, cultivating an entrepreneurial spirit, exploring career paths, and surviving your first few months on the job.
2–4 p.m.	*Regency Ballroom O-P*	AIAA-03	**Meet the Employers** Our always popular Meet the Employers session is back for another round. This is a can't-miss opportunity where students and young professionals can interact with AIAA Corporate Members and find out what employment opportunities are available, all in a fun and dynamic environment.
4–5 p.m.	*Plaza Ballroom H*	CAP-13	**Level Up Your Comms** Discover how the art of storytelling can transform complex aerospace engineering ideas into powerful, memorable narratives that captivate any audience. Join this high-impact session to learn practical techniques to communicate your innovations with clarity, confidence, and creativity.
4:30–6 p.m.	*Regency Ballroom O-P*	AIAA-05	**Meet the Universities** Considering graduate school? Meet with representatives from some of the top aerospace research universities and hear all about how you can advance your education and research goals.

TECHNICAL SESSIONS

★ Engage with your community at these must-attend lectures & panels.

DATE	START	ROOM	ABBREVIATION	TITLE
			ADAPTIVE STRUCTURES	
12-Jan	**9:30 AM**	*Bayhill 27*	AS-01	Adaptive Structures Concepts for Morphing I
12-Jan	**9:30 AM**	*Bayhill 26*	DE-01/AS-02/STR-01	Advanced Manufacturing and Composite Structure Design
12-Jan	**1:00 PM**	*Bayhill 27*	AS-03	Adaptive Structures Concepts for Morphing II
12-Jan	**3:30 PM**	*Bayhill 27*	AS-04	Design and Simulation of Adaptive Systems
13-Jan	**9:30 AM**	*Bayhill 27*	AS-05	Adaptive Metamaterials for Aerospace Applications
13-Jan	**9:30 AM**	*Bayhill 21*	DE-04/AS-06	★ Designing with Intelligence: Exploring the Promise and Challenges of Generating Business Value
13-Jan	**1:00 PM**	*Bayhill 27*	AS-07	Special Session: Physically Embodied Computing in Aerospace Systems
13-Jan	**3:30 PM**	*Orlando Ballroom N*	AS-08	★ Adaptive Structures Lecture
14-Jan	**9:30 AM**	*Bayhill 24*	SCS-10/AS-09	Adaptive Spacecraft Structures and Systems
14-Jan	**9:30 AM**	*Bayhill 21*	DE-09/AS-10	Advanced Composites and Architected Materials for Aerospace Applications
14-Jan	**9:30 AM**	*Florida Ballroom B*	AS-14/INPSI-14	Clean Aviation Program Highlights and Achievements
14-Jan	**1:00 PM**	*Bayhill 27*	AS-11	Bioinspired Morphing
14-Jan	**3:30 PM**	*Bayhill 27*	AS-12	Smart Sensors and Actuators Design
15-Jan	**9:30 AM**	*Bayhill 27*	AS-13	Adaptive and Deployable Systems
15-Jan	**3:30 PM**	*Bayhill 19*	STR-27/AS-15	Structural Health Monitoring and Non-Destructive Evaluation
			AEROACOUSTICS	
12-Jan	**9:30 AM**	*Manatee Spring I*	FD-04/AA-01	Machine Learning for Fluid Dynamics and Aeroacoustics I
12-Jan	**1:00 PM**	*Manatee Spring I*	FD-13/AA-02	Machine Learning for Fluid Dynamics and Aeroacoustics II
14-Jan	**9:30 AM**	*Bayhill 30*	AA-03	Jet Aeroacoustics I
14-Jan	**1:00 PM**	*Bayhill 31*	AA-04/EAT-07/TF-06	Advanced Air Mobility Noise
14-Jan	**3:30 PM**	*Bayhill 30*	AA-05	Jet Aeroacoustics II
15-Jan	**9:30 AM**	*Bayhill 30*	AA-07	Computational Aeroacoustics
15-Jan	**9:30 AM**	*Celebration 14*	AA-08	General Acoustics / Duct Acoustics / Advanced Testing Techniques
15-Jan	**1:00 PM**	*Bayhill 27*	AA-09	Acoustic/Fluid Dynamics Interactions / Turbomachinery and Core Noise
15-Jan	**1:00 PM**	*Bayhill 30*	AA-10	Propeller, Rotorcraft and Wind Turbine Noise I
15-Jan	**3:30 PM**	*Bayhill 30*	AA-11/FD-86	Propeller, Rotorcraft and Wind Turbine Noise II / Airframe/High-Lift Noise / Turbulence and Vortex Induced Noise Sources

Common Terms

Plenary
Keynote speaker(s) that kicks off the day at AIAA SciTech Forum. This is the only event at that time so everyone is encouraged to attend.

Forum 360
High-level session that tackles the most pressing issues impacting the future of aerospace.

Technical Sessions
A series of paper or oral-only technical presentations. Each session contains a maximum of six presentations.

Technical Panels
In-depth panel session focusing on a technical topic.

Technical Lectures
In-depth session with one or two invited subject matter experts focusing on a technical topic.

Technical Workshops
Longer sessions focusing on a technical topic, often in a collaborative environment.

Rising Leaders in Aerospace (RLA)
These events, organized by the Young Professionals Group, are geared toward Young Professional participants.

The HUB
Stage/presentation area in the middle of the Expo Hall. Contains product demonstrations, special panels, sponsor presentations, and fun activities.

TECHNICAL SESSIONS

★ Engage with your community at these must-attend lectures & panels.

16-Jan	**1:00 PM**	*Coral Spring II*	FD-99/AA-12	Reduced-Order Modeling for Fluid Dynamics and Aeroacoustics I
16-Jan	**3:30 PM**	*Coral Spring II*	FD-109/AA-13	Reduced-Order Modeling for Fluid Dynamics and Aeroacoustics II
AERODYNAMIC MEASUREMENT TECHNOLOGY				
12-Jan	**9:30 AM**	*Orlando Ballroom N*	AMT-01	AMT Rising Stars
12-Jan	**9:30 AM**	*Blue Spring I*	AMT-02	Droplet Diagnostics
12-Jan	**9:30 AM**	*Plaza Ballroom E*	AMT-03	Velocimetry and Flow Characterization I
12-Jan	**9:30 AM**	*Blue Spring II*	AMT-04	PSP/TSP I
12-Jan	**1:00 PM**	*Orlando Ballroom N*	AMT-05	★ Aerodynamic Measurement Technology Award Lecture
12-Jan	**3:30 PM**	*Blue Spring II*	AMT-06	FLEET Diagnostics
12-Jan	**3:30 PM**	*Plaza Ballroom E*	AMT-07/FD-21/PC-06	Highlighting Careers in Aerospace Sciences
13-Jan	**9:30 AM**	*Plaza Ballroom D*	GT-04/APA-24/AMT-08/FD-31/CFD2030-07	Meet the Turbulence Modelers II
13-Jan	**9:30 AM**	*Blue Spring I*	AMT-09	PSP/TSP II
13-Jan	**9:30 AM**	*Plaza Ballroom E*	AMT-10	Recent Developments and Applications of Molecular Tagging Velocimetry for High-Speed Flow Measurements
13-Jan	**9:30 AM**	*Blue Spring II*	AMT-11	Spectroscopic Techniques I
13-Jan	**1:00 PM**	*Plaza Ballroom E*	AMT-12	Hypersonic Test Facility Characterization
13-Jan	**1:00 PM**	*Florida Ballroom C*	PGC-06/AMT-13	Measurement and Diagnostics I
13-Jan	**1:00 PM**	*Blue Spring I*	AMT-14	PSP/TSP III
13-Jan	**1:00 PM**	*Blue Spring II*	AMT-15	Spectroscopic Techniques II
13-Jan	**3:30 PM**	*Blue Spring II*	AMT-16	Laser Induced Fluorescence Techniques
13-Jan	**3:30 PM**	*Blue Spring I*	AMT-17	PSP/TSP Workshop
13-Jan	**3:30 PM**	*Plaza Ballroom E*	AMT-18	Recent Advances in Particle Image Velocimetry
14-Jan	**9:30 AM**	*Blue Spring I*	AMT-19	Coherent Laser Diagnostics I
14-Jan	**9:30 AM**	*Plaza Ballroom E*	AMT-20/FD-49	Firefly Blue Ghost Mission
14-Jan	**9:30 AM**	*Blue Spring II*	AMT-22	Velocimetry and Flow Characterization II
14-Jan	**1:00 PM**	*Plaza Ballroom D*	GT-07/APA-39/AMT-21/FD-51/CFD2030-08	Meet the Turbulence Measurers II
14-Jan	**1:00 PM**	*Blue Spring II*	AMT-23	Flow Visualization
14-Jan	**3:30 PM**	*Blue Spring II*	AMT-24	AMT in Industry
15-Jan	**9:30 AM**	*Blue Spring II*	AMT-25	Particle and Solid Fuel Diagnostics
15-Jan	**9:30 AM**	*Plaza Ballroom D*	GT-15/APA-60/AMT-26/FD-72/CFD2030-09	Turbulence Modelling and Turbulence Measuring: Shared Implication for Numerics and Uncertainty Quantification
15-Jan	**9:30 AM**	*Barrel Spring II*	AMT-27	Velocimetry and Flow Characterization III
15-Jan	**1:00 PM**	*Blue Spring II*	AMT-28	Coherent Laser Diagnostics II
15-Jan	**1:00 PM**	*Florida Ballroom C*	PGC-18/AMT-29	Measurement and Diagnostics II
15-Jan	**1:00 PM**	*Barrel Spring II*	AMT-30	Tomography Techniques
15-Jan	**3:30 PM**	*Orlando Ballroom N*	AMT-31	Innovations in Aerodynamic Measurement Technologies
15-Jan	**3:30 PM**	*Blue Spring II*	AMT-32	Sensor, Facility, and Algorithm Development

View most up-to-date program

TECHNICAL SESSIONS

★ Engage with your community at these must-attend lectures & panels.

AEROSPACE EDUCATION				
12-Jan	**9:30 AM**	*Bayhill 33*	EDU-01	Advancing Aerospace Education I
12-Jan	**1:00 PM**	*Bayhill 26*	DE-02/EDU-02	Advancements in Design Education and Innovative Pedagogy
12-Jan	**1:00 PM**	*Bayhill 33*	EDU-03	Advancing Aerospace Education II
13-Jan	**9:30 AM**	*Bayhill 33*	EDU-04	Insights for New Faculty Joining Aerospace Engineering Departments
13-Jan	**9:30 AM**	*Bayhill 29*	SCS-04/STR-10/SFM-09/EDU-05	In-Space Servicing, Assembly, and Manufacturing (ISAM) II
13-Jan	**1:00 PM**	*Bayhill 33*	EDU-06	Advancing Aerospace Education III
13-Jan	**1:00 PM**	*Bayhill 21*	SCS-07/STR-12/SFM-11/EDU-07	In-Space Servicing, Assembly, and Manufacturing (ISAM) III
14-Jan	**9:30 AM**	*Bayhill 33*	EDU-09	Advancing Aerospace Education IV
14-Jan	**3:30 PM**	*Bayhill 32*	EDU-10	Modeling and Simulation in Undergraduate Aerospace Engineering Curricula
15-Jan	**1:00 PM**	*Plaza Ballroom J*	SFM-14/SCS-08/STR-14/EDU-08	In-Space Servicing, Assembly, and Manufacturing (ISAM): In-Space Assembly (iSA) Interface (I/F) Hardware Design I
15-Jan	**3:30 PM**	*Plaza Ballroom J*	SFM-23/SCS-13/STR-24/EDU-11	In-Space Servicing, Assembly, and Manufacturing (ISAM): In-Space Assembly (iSA) Interface (I/F) Hardware Design II
AEROSPACE POWER SYSTEMS				
12-Jan	**9:30 AM**	*Celebration 11*	APS-01	Novel Power Generation, Storage and Management Systems
14-Jan	**9:30 AM**	*Celebration 11*	APS-04	Space Power Systems: Power Generation
15-Jan	**9:30 AM**	*Celebration 11*	APS-05	Space Power Systems: Power Management, Distribution and Transmission
16-Jan	**9:30 AM**	*Celebration 11*	APS-06	High-Speed and Hypersonic Vehicle Power Systems I
16-Jan	**1:00 PM**	*Celebration 11*	APS-07	High-Speed and Hypersonic Vehicle Power Systems II
AIRCRAFT DESIGN				
12-Jan	**1:00 PM**	*Bayhill 21*	MDO-03/ACD-01/APA-08	Aerodynamic Design, Analysis, Methodologies, and Shape Optimization
12-Jan	**3:30 PM**	*Florida Ballroom B*	INPSI-02/GTE-03/HSABP-02/PGC-03/PC-08/TES-04/ACD-02	Perspectives on Aerospace Propulsion Technology, Challenges and Opportunities
13-Jan	**1:00 PM**	*Rock Spring I & II*	ACD-03	Aerodynamic Design
13-Jan	**1:00 PM**	*Florida Ballroom B*	INPSI-03/GTE-07/EAT-03/ACD-04/PC-11/TES-06	Innovations in Advanced Electric and Hydrogen Aviation Technologies I (Invited Session)
13-Jan	**3:30 PM**	*Rock Spring I & II*	ACD-05	Hypersonic Aircraft Design
13-Jan	**3:30 PM**	*Florida Ballroom B*	INPSI-05/GTE-11/PC-15/TES-07/ACD-06	Innovations in Hybrid Electric and Ultra-Efficient Aircraft Technologies (Invited Session)
14-Jan	**9:30 AM**	*Rock Spring I & II*	ACD-07	Alternative Propulsion Aircraft Design
14-Jan	**1:00 PM**	*Rock Spring I & II*	ACD-09	Design of Novel Aircraft Configurations
14-Jan	**3:30 PM**	*Plaza Ballroom K*	INPSI-06/ACD-08/APA-38/AFM-06	Clean Aviation Special Session: Innovative Aircraft Concepts, Novel Configurations and Disruptive Technologies Integration
14-Jan	**3:30 PM**	*Manatee Spring II*	APA-53/ACD-10/MDO-16	Aerodynamic Design: Analysis, Methodologies, and Optimization Techniques I
14-Jan	**3:30 PM**	*Rock Spring I & II*	ACD-11	Aircraft Systems/Subsystems Architecture Considerations
14-Jan	**3:30 PM**	*Orlando Ballroom L*	VSTOL-01/ACD-12/EAT-10/SL-01	Design, Analysis, and CONOPS of Advanced Air Mobility Vehicles
14-Jan	**3:30 PM**	*Bayhill 21*	DE-13/ACD-13/SE-13/HMT-04	Emerging Processes and Systems in Mission Engineering and Design
14-Jan	**3:30 PM**	*Bayhill 17*	MDO-17/ACD-14/DE-14/NDA-08	Robustness, Design for Reliability, and Multi-Disciplinary Design Optimization
15-Jan	**9:30 AM**	*Manatee Spring II*	APA-57/ACD-15/MDO-18	Aerodynamic Design: Analysis, Methodologies, and Optimization Techniques II
15-Jan	**9:30 AM**	*Rock Spring I & II*	ACD-16/UAS-12	Design of Uninhabited Aerial Vehicles I
15-Jan	**1:00 PM**	*Manatee Spring II*	APA-61/ACD-17/MDO-20	Aerodynamic Design: Analysis, Methodologies, and Optimization Techniques III
15-Jan	**1:00 PM**	*Rock Spring I & II*	ACD-18/UAS-14	Design of Uninhabited Aerial Vehicles II

TECHNICAL SESSIONS

★ Engage with your community at these must-attend lectures & panels.

15-Jan	**3:30 PM**	*Manatee Spring II*	APA-66/ACD-19/MDO-21	Aerodynamic Design: Analysis, Methodologies, and Optimization Techniques IV
15-Jan	**3:30 PM**	*Rock Spring I & II*	ACD-20/TF-08	Design of Vertical Takeoff and Landing (VTOL) Aircraft
16-Jan	**9:30 AM**	*Rock Spring I & II*	ACD-21	Advanced Design Methods
16-Jan	**1:00 PM**	*Rock Spring I & II*	ACD-22	Development of Aircraft Design Frameworks
			APPLIED AERODYNAMICS	
12-Jan	**9:30 AM**	*Manatee Spring II*	APA-01	Applied Computational Fluid Dynamics I
12-Jan	**9:30 AM**	*Barrel Spring II*	FD-01/APA-02	Flow Control: Methods and Applications I
12-Jan	**9:30 AM**	*Peacock Spring*	APA-03/FD-02	Hypersonic Aerodynamics I
12-Jan	**9:30 AM**	*Rock Spring I & II*	APA-04	Propeller/Rotorcraft/Wind Turbine Aerodynamics I
12-Jan	**9:30 AM**	*Barrel Spring I*	FD-07/APA-05	Special Session: BOLT-1B Flight Experiment I
12-Jan	**9:30 AM**	*Coral Spring II*	APA-06	Special Session: Validation Dialog Between Turbulence Modelers and Turbulence Measurers
12-Jan	**9:30 AM**	*Bayhill 30*	MVCE-01/APA-07/ CFD2030-02	Visualization and Knowledge Extraction of Large Data Sets
12-Jan	**1:00 PM**	*Bayhill 21*	MDO-03/ACD-01/ APA-08	Aerodynamic Design, Analysis, Methodologies, and Shape Optimization
12-Jan	**1:00 PM**	*Manatee Spring II*	APA-09	Applied Computational Fluid Dynamics II
12-Jan	**1:00 PM**	*Bayhill 30*	MVCE-02/APA-10/ CFD2030-03	CFD on Large-Scale Meshes for Applied Aerodynamics and HPC
12-Jan	**1:00 PM**	*Barrel Spring II*	FD-10/APA-11	Flow Control: Methods and Applications II
12-Jan	**1:00 PM**	*Peacock Spring*	APA-12/FD-11	Hypersonic Aerodynamics II
12-Jan	**1:00 PM**	*Rock Spring I & II*	APA-13	Propeller/Rotorcraft/Wind Turbine Aerodynamics II
12-Jan	**1:00 PM**	*Barrel Spring I*	FD-16/APA-14	Special Session: BOLT-1B Flight Experiment II
12-Jan	**1:00 PM**	*Coral Spring II*	APA-15	Special Session: Drag Reducing Surfaces I
12-Jan	**3:30 PM**	*Barrel Spring I*	FD-22/APA-18	Hypersonic Experiments
12-Jan	**3:30 PM**	*Manatee Spring II*	APA-16	Applied Computational Fluid Dynamics III
12-Jan	**3:30 PM**	*Barrel Spring II*	FD-20/APA-17	Flow Control: Methods and Applications III
12-Jan	**3:30 PM**	*Rock Spring I & II*	APA-19	Propeller/Rotorcraft/Wind Turbine Aerodynamics III
12-Jan	**3:30 PM**	*Coral Spring II*	APA-20	Special Session: Drag Reducing Surfaces II
13-Jan	**9:30 AM**	*Coral Spring II*	APA-21	Airfoil/Wing/Configuration Aerodynamics I
13-Jan	**9:30 AM**	*Manatee Spring II*	APA-22	Applied Computational Fluid Dynamics IV
13-Jan	**9:30 AM**	*Barrel Spring II*	FD-28/APA-23	Flow Control: Methods and Applications IV
13-Jan	**9:30 AM**	*Plaza Ballroom D*	GT-04/APA-24/AMT-08/FD-31/CFD2030-07	Meet the Turbulence Modelers II
13-Jan	**9:30 AM**	*Manatee Spring I*	APA-25	Special Session: Applied Surrogate Modeling I
13-Jan	**9:30 AM**	*Barrel Spring I*	FD-33/APA-26	Special Session: BOLT-1B Flight Experiment III
13-Jan	**9:30 AM**	*Rock Spring I & II*	APA-27/FD-34	Special Session: HLFC Technology and Prediction Methods
13-Jan	**1:00 PM**	*Coral Spring II*	APA-28	Airfoil/Wing/Configuration Aerodynamics II
13-Jan	**1:00 PM**	*Manatee Spring II*	APA-29	Applied Computational Fluid Dynamics V
13-Jan	**1:00 PM**	*Barrel Spring II*	FD-35/APA-30	Flow Control: Methods and Applications V
13-Jan	**1:00 PM**	*Manatee Spring I*	APA-31	Special Session: Applied Surrogate Modeling II
13-Jan	**1:00 PM**	*Barrel Spring I*	FD-39/APA-32	Special Session: BOLT-1B Flight Experiment IV

View most up-to-date program

TECHNICAL SESSIONS

★ Engage with your community at these must-attend lectures & panels.

13-Jan	**3:30 PM**	*Manatee Spring II*	APA-33/INPSI-04	Aerodynamics of Inlets and Nozzles
13-Jan	**3:30 PM**	*Coral Spring II*	APA-34	Airfoil/Wing/Configuration Aerodynamics III
13-Jan	**3:30 PM**	*Barrel Spring II*	FD-43/APA-35	Flow Control: Methods and Applications VI
13-Jan	**3:30 PM**	*Manatee Spring I*	APA-36	Special Session: Applied Surrogate Modeling III
14-Jan	**9:30 AM**	*Coral Spring I*	APA-37	Applied Aeroelasticity and Aerodynamic-Structural Dynamic Interaction
14-Jan	**9:30 AM**	*Coral Spring II*	APA-40	Missile/Projectile/Munition Aerodynamics, Carriage and Store Separation
14-Jan	**9:30 AM**	*Plaza Ballroom D*	APA-41	Special Session: 2nd AIAA Stability and Control Prediction Workshop
14-Jan	**9:30 AM**	*Plaza Ballroom F*	APA-43/FD-52	Special Session: High Speed Aerodynamics, in Honor of Antonio Ferri
14-Jan	**9:30 AM**	*Barrel Spring I*	APA-44/SPSN-01	Supersonic Aerodynamics
14-Jan	**9:30 AM**	*Barrel Spring II*	APA-45	Turbulence and Transition Modeling for Aerodynamic Applications I
14-Jan	**9:30 AM**	*Manatee Spring II*	APA-46	Unsteady Aerodynamics I
14-Jan	**1:00 PM**	*Plaza Ballroom D*	GT-07/APA-39/AMT-21/FD-51/CFD2030-08	Meet the Turbulence Measurers II
14-Jan	**1:00 PM**	*Barrel Spring I*	FD-53/APA-47	CFD Methods for Hypersonics
14-Jan	**1:00 PM**	*Manatee Spring I*	APA-48/FD-54	Flow Control: Methods and Applications VII
14-Jan	**1:00 PM**	*Coral Spring II*	APA-50	Special Session: Rotor-in-Hover Simulations
14-Jan	**1:00 PM**	*Barrel Spring II*	APA-51	Turbulence and Transition Modeling for Aerodynamic Applications II
14-Jan	**1:00 PM**	*Manatee Spring II*	APA-52	Unsteady Aerodynamics II
14-Jan	**3:30 PM**	*Plaza Ballroom K*	INPSI-06/ACD-08/APA-38/AFM-06	Clean Aviation Special Session: Innovative Aircraft Concepts, Novel Configurations and Disruptive Technologies Integration
14-Jan	**3:30 PM**	*Manatee Spring II*	APA-53/ACD-10/MDO-16	Aerodynamic Design: Analysis, Methodologies, and Optimization Techniques I
14-Jan	**3:30 PM**	*Manatee Spring I*	APA-55/FD-58	Flow Control: Methods and Applications VIII
15-Jan	**9:30 AM**	*Manatee Spring II*	APA-57/ACD-15/MDO-18	Aerodynamic Design: Analysis, Methodologies, and Optimization Techniques II
15-Jan	**9:30 AM**	*Manatee Spring I*	APA-58/FD-65	Flow Control: Methods and Applications IX
15-Jan	**9:30 AM**	*Barrel Spring I*	FD-66/APA-59	Hypersonic Boundary Layer Transition I
15-Jan	**9:30 AM**	*Plaza Ballroom D*	GT-15/APA-60/AMT-26/FD-72/CFD2030-09	Turbulence Modelling and Turbulence Measuring: Shared Implication for Numerics and Uncertainty Quantification
15-Jan	**9:30 AM**	*Plaza Ballroom K*	APA-76	Low Speed, Low Reynolds Number and Bio-Inspired Aerodynamics
15-Jan	**1:00 PM**	*Manatee Spring II*	APA-61/ACD-17/MDO-20	Aerodynamic Design: Analysis, Methodologies, and Optimization Techniques III
15-Jan	**1:00 PM**	*Plaza Ballroom F*	APA-62/GT-17/FT-08	Aerodynamic Testing: Ground, Wind-Tunnel, and Flight Testing I
15-Jan	**1:00 PM**	*Coral Spring II*	APA-63	Aero-Structural Interactions
15-Jan	**1:00 PM**	*Manatee Spring I*	APA-64/FD-73	Flow Control: Methods and Applications X
15-Jan	**1:00 PM**	*Barrel Spring I*	FD-75/APA-65	Hypersonic Boundary Layer Transition II
15-Jan	**3:30 PM**	*Manatee Spring II*	APA-66/ACD-19/MDO-21	Aerodynamic Design: Analysis, Methodologies, and Optimization Techniques IV
15-Jan	**3:30 PM**	*Plaza Ballroom F*	APA-67/GT-18/FT-09	Aerodynamic Testing: Ground, Wind-Tunnel, and Flight Testing II
15-Jan	**3:30 PM**	*Peacock Spring*	APA-68/SD-24	DPW-8/AePW-4 Mini Workshop 2 and All-Hands Tagup
15-Jan	**3:30 PM**	*Manatee Spring I*	APA-69/FD-82	Flow Control: Methods and Applications XI
15-Jan	**3:30 PM**	*Barrel Spring I*	FD-84/APA-70	Hypersonic Shear Layers
15-Jan	**3:30 PM**	*Coral Spring II*	APA-71	Transonic Aerodynamics
15-Jan	**3:30 PM**	*Plaza Ballroom K*	APA-72	Tutorial on Lift, Control, Stability, Instruments, and Loads as an Integrated Approach for Broad-Based Learning
16-Jan	**9:30 AM**	*Plaza Ballroom F*	APA-73/GT-20/FT-10	Aerodynamic Testing: Ground, Wind-Tunnel, and Flight Testing III
16-Jan	**9:30 AM**	*Coral Spring II*	APA-74	Aero-Propulsive Interactions and Aerodynamics of Integrated Propeller Systems
16-Jan	**9:30 AM**	*Barrel Spring I*	FD-90/APA-75	Hypersonic Flight Vehicles
16-Jan	**1:00 PM**	*Barrel Spring I*	FD-96/APA-78	Hypersonic Flows

TECHNICAL SESSIONS

★ Engage with your community at these must-attend lectures & panels.

ATMOSPHERIC AND SPACE ENVIRONMENTS				
13-Jan	**9:30 AM**	*Peacock Spring*	ASE-01	Atmospheric and Space Environments I
13-Jan	**1:00 PM**	*Peacock Spring*	ASE-02	Atmospheric and Space Environments II
14-Jan	**9:30 AM**	*Peacock Spring*	ASE-03	Atmospheric and Space Environments III
ATMOSPHERIC FLIGHT MECHANICS				
12-Jan	**9:30 AM**	*Orlando Ballroom L*	GNC-03/AFM-01	Entry, Descent and Landing Technology I: Overviews
12-Jan	**1:00 PM**	*Orlando Ballroom L*	GNC-08/AFM-02	Entry, Descent and Landing Technology II: Navigation and Hazard Detection
12-Jan	**3:30 PM**	*Orlando Ballroom L*	GNC-10/AFM-03	Entry, Descent and Landing Technology III: Aerocapture
13-Jan	**1:00 PM**	*Orlando Ballroom L*	GNC-16/AFM-04	Entry, Descent and Landing Technology IV: Guidance I
13-Jan	**3:30 PM**	*Orlando Ballroom L*	GNC-20/AFM-05	Entry, Descent and Landing Technology V: Guidance II
14-Jan	**9:30 AM**	*Orlando Ballroom L*	GNC-24/AFM-07	Entry, Descent and Landing Technology VI: Innovative Solutions to Entry, Descent, and Landing Flight Simulations
14-Jan	**1:00 PM**	*Orlando Ballroom L*	GNC-27/AFM-08	Entry, Descent and Landing Technology VII: HyperSat
14-Jan	**1:00 PM**	*Bayhill 33*	AFM-09	Hypersonic and Spacecraft Flight Mechanics I
14-Jan	**3:30 PM**	*Plaza Ballroom K*	INPSI-06/ACD-08/ APA-38/AFM-06	Clean Aviation Special Session: Innovative Aircraft Concepts, Novel Configurations and Disruptive Technologies Integration
14-Jan	**3:30 PM**	*Bayhill 33*	AFM-10	Hypersonic and Spacecraft Flight Mechanics II
15-Jan	**9:30 AM**	*Plaza Ballroom K*	GNC-32/AFM-11	Entry, Descent and Landing Technology VIII: Dragonfly I
15-Jan	**9:30 AM**	*Bayhill 33*	AFM-12	Handling Qualities and Flying Qualities
15-Jan	**1:00 PM**	*Plaza Ballroom K*	GNC-34/AFM-13	Entry, Descent and Landing Technology IX: Dragonfly II
15-Jan	**1:00 PM**	*Bayhill 33*	AFM-14	System Identification and Flight Test I
15-Jan	**3:30 PM**	*Bayhill 33*	AFM-15	System Identification and Flight Test II
16-Jan	**9:30 AM**	*Bayhill 33*	AFM-16	Aircraft Dynamics, Performance, Stability, and Control I
16-Jan	**1:00 PM**	*Bayhill 33*	AFM-17	Aircraft Dynamics, Performance, Stability, and Control II
16-Jan	**3:30 PM**	*Bayhill 33*	AFM-18	Aircraft Dynamics, Performance, Stability, and Control III
COMPLEX AEROSPACE SYSTEMS EXCHANGE				
12-Jan	**1:00 PM**	*Blue Spring II*	DGE-01/CASE-01/SE-03/DE-20	Haven't We Always Been Modeling? Unpacking Resistance in the Shift to Model Based Systems Engineering
CFD VISION 2030				
12-Jan	**9:30 AM**	*Silver Spring I*	CFD2030-01	Development of AI/ML for CFD Applications
12-Jan	**9:30 AM**	*Bayhill 30*	MVCE-01/APA-07/ CFD2030-02	Visualization and Knowledge Extraction of Large Data Sets
12-Jan	**1:00 PM**	*Bayhill 30*	MVCE-02/APA-10/ CFD2030-03	CFD on Large-Scale Meshes for Applied Aerodynamics and HPC
12-Jan	**1:00 PM**	*Silver Spring I*	CFD2030-04	CFD Vision 2030: Roadmap Update and Emerging Technologies
12-Jan	**3:30 PM**	*Silver Spring I*	CFD2030-05	Development of High-Resolution Aerodynamic Databases, AI/ML and Uncertainty Quantification
13-Jan	**9:30 AM**	*Silver Spring I*	CFD2030-06	CFD on Large-Scale Meshes and Development of Testing Techniques
13-Jan	**9:30 AM**	*Plaza Ballroom D*	GT-04/APA-24/AMT-08/FD-31/CFD2030-07	Meet the Turbulence Modelers II
14-Jan	**1:00 PM**	*Plaza Ballroom D*	GT-07/APA-39/AMT-21/FD-51/CFD2030-08	Meet the Turbulence Measurers II
15-Jan	**9:30 AM**	*Plaza Ballroom D*	GT-15/APA-60/AMT-26/FD-72/CFD2030-09	Turbulence Modelling and Turbulence Measuring: Shared Implication for Numerics and Uncertainty Quantification

View most up-to-date program

TECHNICAL SESSIONS

★ Engage with your community at these must-attend lectures & panels.

CYBERSECURITY				
16-Jan	**9:30 AM**	*Bayhill 21*	CSS-01	Cybersecurity I
16-Jan	**1:00 PM**	*Bayhill 21*	CSS-02	Cybersecurity II
DESIGN ENGINEERING				
12-Jan	**9:30 AM**	*Bayhill 26*	DE-01/AS-02/STR-01	Advanced Manufacturing and Composite Structure Design
12-Jan	**1:00 PM**	*Bayhill 26*	DE-02/EDU-02	Advancements in Design Education and Innovative Pedagogy
12-Jan	**1:00 PM**	*Blue Spring II*	DGE-01/CASE-01/SE-03/DE-20	Haven't We Always Been Modeling? Unpacking Resistance in the Shift to Model Based Systems Engineering
12-Jan	**3:30 PM**	*Bayhill 26*	DE-03/TF-02	Creative Design, Emerging Trends, New Processes, and Novel Aerospace Applications
13-Jan	**9:30 AM**	*Bayhill 21*	DE-04/AS-06	Designing with Intelligence: Exploring the Promise and Challenges of Generating Business Value
13-Jan	**9:30 AM**	*Bayhill 23*	DE-05/HMT-01/TF-03	Innovative Design and Decision-Making in Aerospace
13-Jan	**1:00 PM**	*Bayhill 23*	DE-06/DGE-03	Design Ecosystems and AI-Enhanced Collaborative Approaches
13-Jan	**3:30 PM**	*Bayhill 23*	DE-07/SE-07/TF-04	Novel Design Approaches and Digital Engineering in Aerospace
13-Jan	**3:30 PM**	*Bayhill 27*	SE-08/DGE-04/GTE-12/DE-08/HMT-02/EAT-04	Pattern-Based MBSE
14-Jan	**9:30 AM**	*Bayhill 21*	DE-09/AS-10	Advanced Composites and Architected Materials for Aerospace Applications
14-Jan	**9:30 AM**	*Bayhill 27*	SE-10/DGE-07/GTE-14/DE-10/HMT-03/EAT-05	AI and Machine Learning (ML) for Aerospace Applications
14-Jan	**9:30 AM**	*Plaza Ballroom K*	DGE-19/SE-18/DE-19/GTE-32/EAT-18	Digital Thread for Supply Chain (DTh4SC)
14-Jan	**1:00 PM**	*Bayhill 25*	DGE-08/SE-12/DE-11/GTE-16/EAT-08	Certification By Analysis (CbA)
14-Jan	**1:00 PM**	*Bayhill 23*	DE-12/DGE-09	Emerging Design Methods and Digital Ecosystems
14-Jan	**3:30 PM**	*Bayhill 21*	DE-13/ACD-13/SE-13/HMT-04	Emerging Processes and Systems in Mission Engineering and Design
14-Jan	**3:30 PM**	*Bayhill 17*	MDO-17/ACD-14/DE-14/NDA-08	Robustness, Design for Reliability, and Multi-Disciplinary Design Optimization
14-Jan	**3:30 PM**	*Bayhill 25*	DGE-12/SE-14/DE-15/GTE-22/EAT-12	Verification and Validation Uncertainty Quantification (VVUQ) of Models
15-Jan	**9:30 AM**	*Bayhill 24*	SE-15/DGE-14/GTE-25/DE-16/HMT-05/EAT-14	Establishing a Digital Culture in Your Organization
15-Jan	**9:30 AM**	*Bayhill 25*	DGE-15/SE-16/DE-17/GTE-27/EAT-15	Modernizing the Systems Engineer Review Process
15-Jan	**3:30 PM**	*Bayhill 27*	SE-17/DGE-18/GTE-31/DE-18/HMT-06/EAT-17	Digital Engineering and Decision Making
16-Jan	**9:30 AM**	*Bayhill 27*	DE-21	Accelerating Conceptual Aircraft Design with Implicit Modeling
DIGITAL AVIONICS				
12-Jan	**1:00 PM**	*Celebration 14*	DA-01	Digital Avionics I: Traffic Management and Advanced Air Mobility
12-Jan	**3:30 PM**	*Celebration 14*	DA-02	Digital Avionics II: Uncrewed Aircraft Systems
DIGITAL ENGINEERING				
12-Jan	**1:00 PM**	*Blue Spring II*	DGE-01/CASE-01/SE-03/DE-20	Haven't We Always Been Modeling? Unpacking Resistance in the Shift to Model Based Systems Engineering
13-Jan	**1:00 PM**	*Silver Spring I*	DGE-02	Collaborative Methods
13-Jan	**1:00 PM**	*Bayhill 23*	DE-06/DGE-03	Design Ecosystems and AI-Enhanced Collaborative Approaches
13-Jan	**3:30 PM**	*Bayhill 27*	SE-08/DGE-04/GTE-12/DE-08/HMT-02/EAT-04	Pattern-Based MBSE
13-Jan	**3:30 PM**	*Silver Spring I*	DGE-05	Requirements and Missions
14-Jan	**9:30 AM**	*Silver Spring I*	DGE-06	Digital Threads and Digital Twins
14-Jan	**9:30 AM**	*Bayhill 27*	SE-10/DGE-07/GTE-14/DE-10/HMT-03/EAT-05	★ AI and Machine Learning (ML) for Aerospace Applications

TECHNICAL SESSIONS

★ Engage with your community at these must-attend lectures & panels.

14-Jan	**9:30 AM**	*Plaza Ballroom K*	DGE-19/SE-18/DE-19/ GTE-32/EAT-18	★ Digital Thread for Supply Chain (DTh4SC)
14-Jan	**1:00 PM**	*Bayhill 25*	DGE-08/SE-12/DE-11/ GTE-16/EAT-08	Certification By Analysis (CbA)
14-Jan	**1:00 PM**	*Bayhill 23*	DE-12/DGE-09	Emerging Design Methods and Digital Ecosystems
14-Jan	**1:00 PM**	*Silver Spring I*	DGE-10	Knowledge-Based and Computational Engineering
14-Jan	**3:30 PM**	*Silver Spring I*	DGE-11	Intellectual Property and Data Rights Issues
14-Jan	**3:30 PM**	*Bayhill 25*	DGE-12/SE-14/DE-15/ GTE-22/EAT-12	Verification and Validation Uncertainty Quantification (VVUQ) of Models
15-Jan	**9:30 AM**	*Silver Spring I*	DGE-13	Digital Airworthiness
15-Jan	**9:30 AM**	*Bayhill 24*	SE-15/DGE-14/GTE-25/ DE-16/HMT-05/EAT-14	Establishing a Digital Culture in Your Organization
15-Jan	**9:30 AM**	*Bayhill 25*	DGE-15/SE-16/DE-17/ GTE-27/EAT-15	Modernizing the Systems Engineer Review Process
15-Jan	**1:00 PM**	*Silver Spring I*	DGE-16	Verification and Validation (V&V)
15-Jan	**1:00 PM**	*Bayhill 19*	DGE-22	Code-First Digital Engineering
15-Jan	**3:30 PM**	*Silver Spring I*	DGE-17	Digital Ecosystem - Digital Engineering in Context with Ecosystem, Architecture and Infrastructure
15-Jan	**3:30 PM**	*Bayhill 27*	SE-17/DGE-18/GTE-31/ DE-18/HMT-06/EAT-17	Digital Engineering and Decision Making
16-Jan	**9:30 AM**	*Silver Spring I*	DGE-20	Digital Aerospace Worthiness
16-Jan	**1:00 PM**	*Silver Spring I*	DGE-21	Digital Ecosystem
			ELECTRIC PROPULSION	
12-Jan	**9:30 AM**	*Celebration 1*	EP-01	Modeling Activities
12-Jan	**1:00 PM**	*Celebration 1*	EP-02	Air Breathing Electric Propulsion
13-Jan	**1:00 PM**	*Celebration 1*	EP-04	Diagnostics
13-Jan	**3:30 PM**	*Celebration 1*	EP-05	Molecular Propellants
14-Jan	**9:30 AM**	*Celebration 1*	EP-06	Cathodes
14-Jan	**1:00 PM**	*Celebration 1*	EP-07	Hall Thrusters
14-Jan	**1:00 PM**	*Celebration 11*	EP-08	Making Very Low Earth Orbit (VLEO) Satellites a Reality
14-Jan	**2:00 PM**	*Celebration 11*	EP-03	Building Supportive Networks for a Successful Career
15-Jan	**9:30 AM**	*Celebration 1*	EP-10	Flight Missions and Concept Studies
15-Jan	**1:00 PM**	*Celebration 11*	EP-11	Addressing the Challenges with Molecular Propellants
15-Jan	**1:00 PM**	*Celebration 1*	EP-12	Facility Effects
15-Jan	**3:30 PM**	*Celebration 1*	EP-13	Electrospray and FEEPs
16-Jan	**9:30 AM**	*Celebration 1*	EP-14	Alternative Propellants
16-Jan	**3:30 PM**	*Celebration 1*	EP-16	Electromagnetic and RF Thrusters
			ELECTRIFIED AIRCRAFT TECHNOLOGY	
13-Jan	**9:30 AM**	*Bayhill 31*	EAT-01	Thermal Management
13-Jan	**1:00 PM**	*Bayhill 31*	EAT-02	Electric Aircraft Design
13-Jan	**1:00 PM**	*Florida Ballroom B*	INPSI-03/GTE-07/EAT-03/ACD-04/PC-11/ TES-06	Innovations in Advanced Electric and Hydrogen Aviation Technologies I (Invited Session)

View most up-to-date program

TECHNICAL SESSIONS

★ Engage with your community at these must-attend lectures & panels.

13-Jan	**3:30 PM**	*Bayhill 27*	SE-08/DGE-04/GTE-12/ DE-08/HMT-02/EAT-04	Pattern-Based MBSE
14-Jan	**9:30 AM**	*Bayhill 27*	SE-10/DGE-07/GTE-14/ DE-10/HMT-03/EAT-05	AI and Machine Learning (ML) for Aerospace Applications
14-Jan	**9:30 AM**	*Plaza Ballroom K*	DGE-19/SE-18/DE-19/ GTE-32/EAT-18	Digital Thread for Supply Chain (DTh4SC)
14-Jan	**1:00 PM**	*Bayhill 31*	AA-04/EAT-07/TF-06	Advanced Air Mobility Noise
14-Jan	**1:00 PM**	*Bayhill 25*	DGE-08/SE-12/DE-11/ GTE-16/EAT-08	Certification By Analysis (CbA)
14-Jan	**1:00 PM**	*Orlando Ballroom N*	EAT-24/INPSI-12	Clean Aviation Executive Panel: Disruptive Technologies and Roadmap to Next-Generation Aircraft
14-Jan	**3:30 PM**	*Orlando Ballroom L*	VSTOL-01/ACD-12/ EAT-10/SL-01	Design, Analysis, and CONOPS of Advanced Air Mobility Vehicles
14-Jan	**3:30 PM**	*Bayhill 31*	EAT-11	Hybrid Electric Propulsion and Other Topics
14-Jan	**3:30 PM**	*Bayhill 25*	DGE-12/SE-14/DE-15/ GTE-22/EAT-12	Verification and Validation Uncertainty Quantification (VVUQ) of Models
15-Jan	**9:30 AM**	*Plaza Ballroom F*	EAT-13/PC-28/GA-01	Challenges and Opportunities in Battery Safety for Aviation
15-Jan	**9:30 AM**	*Bayhill 24*	SE-15/DGE-14/GTE-25/ DE-16/HMT-05/EAT-14	Establishing a Digital Culture in Your Organization
15-Jan	**9:30 AM**	*Bayhill 25*	DGE-15/SE-16/DE-17/ GTE-27/EAT-15	Modernizing the Systems Engineer Review Process
15-Jan	**1:00 PM**	*Orlando Ballroom M*	EAT-16	Propulsion, Power and Thermal Systems
15-Jan	**3:30 PM**	*Bayhill 27*	SE-17/DGE-18/GTE-31/ DE-18/HMT-06/EAT-17	Digital Engineering and Decision Making
15-Jan	**3:30 PM**	*Bayhill 21*	EAT-19	Electric Energy Conversion, Power Electronics and Electric Machines
15-Jan	**3:30 PM**	*Orlando Ballroom M*	EAT-20	Clean Aviation Special Session: Propulsion Technologies and Advanced Architectures
16-Jan	**9:30 AM**	*Orlando Ballroom M*	EAT-22	Clean Aviation Special Session: Future Aircraft Architecture, Technology Integration and Novel Certification
			ENERGETIC COMPONENTS AND SYSTEMS	
12-Jan	**9:30 AM**	*Celebration 6*	ECS-01	Energetic Components and Systems
12-Jan	**1:00 PM**	*Celebration 9*	ECS-02	★ Controlled Explosives in Aerospace Applications.... a Continuing Conversation on Things That Go Boom!
			FLIGHT TESTING	
12-Jan	**9:30 AM**	*Rainbow Spring II*	FT-01	Flight Testing I
12-Jan	**1:00 PM**	*Rainbow Spring II*	FT-02	Flight Testing II
12-Jan	**3:30 PM**	*Rainbow Spring II*	FT-03	Flight Testing III
13-Jan	**9:30 AM**	*Celebration 3*	FT-04	★ Beyond the Horizon: Pioneering Innovative Research in Aerospace Test and Evaluation at the DAF Test Pilot School
13-Jan	**3:30 PM**	*Rainbow Spring II*	FT-05	Flight Testing Measurement Techniques
14-Jan	**9:30 AM**	*Rainbow Spring II*	FT-06	★ Planning and Execution of a Multi-Range Missile Flight Test
15-Jan	**9:30 AM**	*Orlando Ballroom M*	UAS-13/FT-07	UAS Flight Testing
15-Jan	**1:00 PM**	*Plaza Ballroom F*	APA-62/GT-17/FT-08	Aerodynamic Testing: Ground, Wind-Tunnel, and Flight Testing I
15-Jan	**3:30 PM**	*Plaza Ballroom F*	APA-67/GT-18/FT-09	Aerodynamic Testing: Ground, Wind-Tunnel, and Flight Testing II
16-Jan	**9:30 AM**	*Plaza Ballroom F*	APA-73/GT-20/FT-10	Aerodynamic Testing: Ground, Wind-Tunnel, and Flight Testing III
			FLUID DYNAMICS	
12-Jan	**9:30 AM**	*Barrel Spring II*	FD-01/APA-02	Flow Control: Methods and Applications I
12-Jan	**9:30 AM**	*Peacock Spring*	APA-03/FD-02	Hypersonic Aerodynamics I
12-Jan	**9:30 AM**	*Coral Spring I*	FD-03	Instability and Transition I
12-Jan	**9:30 AM**	*Manatee Spring I*	FD-04/AA-01	Machine Learning for Fluid Dynamics and Aeroacoustics I
12-Jan	**9:30 AM**	*Plaza Ballroom F*	FD-05	Second Uncertainty Challenge Problem in Fluid Dynamics I

TECHNICAL SESSIONS

★ Engage with your community at these must-attend lectures & panels.

12-Jan	**9:30 AM**	*Bayhill 22*	SD-02/FD-06	Special Session: Advances in High-Speed Fluid-Thermo-Structural Interaction I
12-Jan	**9:30 AM**	*Barrel Spring I*	FD-07/APA-05	Special Session: BOLT-1B Flight Experiment I
12-Jan	**9:30 AM**	*Plaza Ballroom D*	FD-08	Turbulence Modeling I: LES
12-Jan	**1:00 PM**	*Plaza Ballroom E*	FD-09	A Commemoration of Dr. Joseph Schetz
12-Jan	**1:00 PM**	*Barrel Spring II*	FD-10/APA-11	Flow Control: Methods and Applications II
12-Jan	**1:00 PM**	*Peacock Spring*	APA-12/FD-11	Hypersonic Aerodynamics II
12-Jan	**1:00 PM**	*Manatee Spring I*	FD-13/AA-02	Machine Learning for Fluid Dynamics and Aeroacoustics II
12-Jan	**1:00 PM**	*Plaza Ballroom F*	FD-14	Second Uncertainty Challenge Problem in Fluid Dynamics II
12-Jan	**1:00 PM**	*Bayhill 22*	SD-03/FD-15	Special Session: Advances in High-Speed Fluid-Thermo-Structural Interaction II
12-Jan	**1:00 PM**	*Barrel Spring I*	FD-16/APA-14	Special Session: BOLT-1B Flight Experiment II
12-Jan	**3:30 PM**	*Bayhill 30*	MVCE-03/FD-18	AI/ML Assisted Geometry Modeling, Error Estimation, and Mesh Adaptation for CFD
12-Jan	**3:30 PM**	*Peacock Spring*	FD-19	Applied CFD: Vehicle and Environmental Applications
12-Jan	**3:30 PM**	*Barrel Spring II*	FD-20/APA-17	Flow Control: Methods and Applications III
12-Jan	**3:30 PM**	*Plaza Ballroom E*	AMT-07/FD-21/PC-06	Highlighting Careers in Aerospace Sciences
12-Jan	**3:30 PM**	*Barrel Spring I*	FD-22/APA-18	Hypersonic Experiments
12-Jan	**3:30 PM**	*Coral Spring I*	FD-23	Instability and Transition III
12-Jan	**3:30 PM**	*Plaza Ballroom F*	FD-24	Reduced-Complexity Modeling of Transient Flow Dynamics
12-Jan	**3:30 PM**	*Plaza Ballroom D*	FD-25	Turbulence Modeling III: Hybrid Methods
12-Jan	**3:30 PM**	*Manatee Spring I*	FD-26	Vortex Dynamics
13-Jan	**9:30 AM**	*Florida Ballroom C*	FD-27	Session Honoring Dr. Roger Kimmel
13-Jan	**9:30 AM**	*Barrel Spring II*	FD-28/APA-23	Flow Control: Methods and Applications IV
13-Jan	**9:30 AM**	*Bayhill 18*	SD-07/FD-29	Fluid-Structure Interaction I
13-Jan	**9:30 AM**	*Coral Spring I*	FD-30	Instability and Transition IV
13-Jan	**9:30 AM**	*Plaza Ballroom D*	GT-04/APA-24/AMT-08/FD-31/CFD2030-07	Meet the Turbulence Modelers II
13-Jan	**9:30 AM**	*Plaza Ballroom F*	FD-32	Multiphase Flows: Numerical Methods
13-Jan	**9:30 AM**	*Barrel Spring I*	FD-33/APA-26	Special Session: BOLT-1B Flight Experiment III
13-Jan	**9:30 AM**	*Rock Spring I & II*	APA-27/FD-34	Special Session: HLFC Technology and Prediction Methods
13-Jan	**1:00 PM**	*Barrel Spring II*	FD-35/APA-30	Flow Control: Methods and Applications V
13-Jan	**1:00 PM**	*Bayhill 18*	SD-10/FD-36	Fluid-Structure Interaction II
13-Jan	**1:00 PM**	*Coral Spring I*	FD-37	Instability and Transition V
13-Jan	**1:00 PM**	*Plaza Ballroom F*	FD-38	Multiphase Flows: Phase Change and Reaction
13-Jan	**1:00 PM**	*Barrel Spring I*	FD-39/APA-32	Special Session: BOLT-1B Flight Experiment IV
13-Jan	**1:00 PM**	*Bayhill 30*	MVCE-05/FD-40/NDA-03	Surrogate Modeling and Mesh Adaptation for Shock-Dominated Flows / Grid Quality, Error Estimation and Uncertainty Quantification for CFD and FEA
13-Jan	**1:00 PM**	*Plaza Ballroom D*	FD-41	Turbulent Flows I
13-Jan	**3:30 PM**	*Peacock Spring*	FD-42	Applied CFD: Multiscale Physics and Modeling
13-Jan	**3:30 PM**	*Barrel Spring II*	FD-43/APA-35	Flow Control: Methods and Applications VI
13-Jan	**3:30 PM**	*Bayhill 18*	SD-12/FD-44	Fluid-Structure Interaction III
13-Jan	**3:30 PM**	*Plaza Ballroom F*	FD-45	Hypersonic and High-Speed Flows

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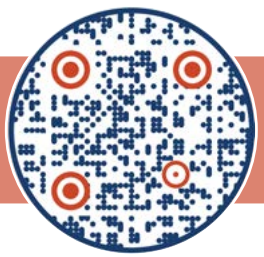

TECHNICAL SESSIONS

★ Engage with your community at these must-attend lectures & panels.

13-Jan	**3:30 PM**	*Coral Spring I*	FD-46	Instability and Transition VI
13-Jan	**3:30 PM**	*Barrel Spring I*	FD-47	Memorial Session for Dr. William Saric
13-Jan	**3:30 PM**	*Plaza Ballroom D*	FD-48	Turbulent Flows II
14-Jan	**9:30 AM**	*Plaza Ballroom E*	AMT-20/FD-49	Firefly Blue Ghost Mission
14-Jan	**9:30 AM**	*Orlando Ballroom N*	FD-50	★ Fluid Dynamics Award Lecture
14-Jan	**9:30 AM**	*Plaza Ballroom F*	APA-43/FD-52	Special Session: High Speed Aerodynamics, in Honor of Antonio Ferri
14-Jan	**1:00 PM**	*Plaza Ballroom D*	GT-07/APA-39/AMT-21/FD-51/CFD2030-08	Meet the Turbulence Measurers II
14-Jan	**1:00 PM**	*Barrel Spring I*	FD-53/APA-47	CFD Methods for Hypersonics
14-Jan	**1:00 PM**	*Manatee Spring I*	APA-48/FD-54	Flow Control: Methods and Applications VII
14-Jan	**1:00 PM**	*Coral Spring I*	FD-55	Instability and Transition VII
14-Jan	**1:00 PM**	*Plaza Ballroom E*	FD-56	Shock-Droplet Interactions I
14-Jan	**3:30 PM**	*Manatee Spring I*	APA-55/FD-58	Flow Control: Methods and Applications VIII
14-Jan	**3:30 PM**	*Plaza Ballroom F*	FD-59	Flow Control Open Forum
14-Jan	**3:30 PM**	*Peacock Spring*	FD-60	Fundamental Flow Physics and Novel Numerical Approaches
14-Jan	**3:30 PM**	*Coral Spring I*	FD-61	Instability and Transition VIII
14-Jan	**3:30 PM**	*Coral Spring II*	FD-62	Machine-Learning-Enabled Reduced-Order and Closure Modeling
14-Jan	**3:30 PM**	*Plaza Ballroom E*	FD-63	Shock-Droplet Interactions II
15-Jan	**9:30 AM**	*Manatee Spring I*	APA-58/FD-65	Flow Control: Methods and Applications IX
15-Jan	**9:30 AM**	*Barrel Spring I*	FD-66/APA-59	Hypersonic Boundary Layer Transition I
15-Jan	**9:30 AM**	*Coral Spring I*	FD-67	Instability and Transition IX
15-Jan	**9:30 AM**	*Coral Spring II*	FD-68	ML and Quantum Algorithms
15-Jan	**9:30 AM**	*Peacock Spring*	FD-69	Modal Decomposition and Flow Instabilities I
15-Jan	**9:30 AM**	*Orlando Ballroom L*	FD-71	Shock-Boundary Layer Interactions I
15-Jan	**9:30 AM**	*Plaza Ballroom D*	GT-15/APA-60/AMT-26/FD-72/CFD2030-09	Turbulence Modelling and Turbulence Measuring: Shared Implication for Numerics and Uncertainty Quantification
15-Jan	**1:00 PM**	*Manatee Spring I*	APA-64/FD-73	Flow Control: Methods and Applications X
15-Jan	**1:00 PM**	*Bayhill 24*	SD-22/FD-74	Fluid-Metamaterial Interactions I
15-Jan	**1:00 PM**	*Barrel Spring I*	FD-75/APA-65	Hypersonic Boundary Layer Transition II
15-Jan	**1:00 PM**	*Coral Spring I*	FD-76	Instability and Transition X
15-Jan	**1:00 PM**	*Plaza Ballroom E*	FD-78	Plume-Surface Interaction I
15-Jan	**1:00 PM**	*Orlando Ballroom L*	FD-79	Shock-Boundary Layer Interactions II
15-Jan	**1:00 PM**	*Plaza Ballroom D*	FD-80	Turbulent Flows III
15-Jan	**3:30 PM**	*Plaza Ballroom E*	FD-81	Fixed Wings
15-Jan	**3:30 PM**	*Manatee Spring I*	APA-69/FD-82	Flow Control: Methods and Applications XI
15-Jan	**3:30 PM**	*Barrel Spring II*	FD-83	High-Order Numerical Methods
15-Jan	**3:30 PM**	*Barrel Spring I*	FD-84/APA-70	Hypersonic Shear Layers
15-Jan	**3:30 PM**	*Bayhill 30*	AA-11/FD-86	Propeller, Rotorcraft and Wind Turbine Noise II / Airframe/High-Lift Noise / Turbulence and Vortex Induced Noise Sources
15-Jan	**3:30 PM**	*Plaza Ballroom D*	FD-88	Turbulent Flows IV
16-Jan	**9:30 AM**	*Bayhill 24*	SD-27/FD-89	Fluid-Metamaterial Interactions II
16-Jan	**9:30 AM**	*Barrel Spring I*	FD-90/APA-75	Hypersonic Flight Vehicles
16-Jan	**9:30 AM**	*Coral Spring I*	FD-91	Mesh Adaptation and Non-Conformal Grids
16-Jan	**9:30 AM**	*Barrel Spring II*	FD-92	Modern Solver Design: Adjoint Methods, Optimization, and Scalability
16-Jan	**9:30 AM**	*Orlando Ballroom L*	FD-93	Shock-Boundary Layer Interactions IV
16-Jan	**9:30 AM**	*Plaza Ballroom D*	FD-94	Turbulence and Wall-Bounded Flow Modeling: RANS and Immersed Methods
16-Jan	**9:30 AM**	*Plaza Ballroom E*	FD-95	Wing-Gust Interactions I

TECHNICAL SESSIONS

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16-Jan	**1:00 PM**	*Barrel Spring I*	FD-96/APA-78	Hypersonic Flows
16-Jan	**1:00 PM**	*Barrel Spring II*	FD-97	Particle-Laden Flows
16-Jan	**1:00 PM**	*Plaza Ballroom D*	FD-98	Plume-Surface Interaction II
16-Jan	**1:00 PM**	*Coral Spring II*	FD-99/AA-12	Reduced-Order Modeling for Fluid Dynamics and Aeroacoustics I
16-Jan	**1:00 PM**	*Orlando Ballroom L*	FD-100	Shock-Boundary Layer Interactions V
16-Jan	**1:00 PM**	*Coral Spring I*	FD-101	Shock Capturing and Shock Fitting Methods
16-Jan	**1:00 PM**	*Bayhill 30*	FD-102	Verification Techniques in Computational Physics I
16-Jan	**1:00 PM**	*Plaza Ballroom K*	FD-103	Wall-Bounded and Free Shear Flows I
16-Jan	**1:00 PM**	*Plaza Ballroom E*	FD-104	Wing-Gust Interactions II
16-Jan	**3:30 PM**	*Coral Spring I*	FD-105	Bio-Inspired and Low-Reynolds Number Flows
16-Jan	**3:30 PM**	*Plaza Ballroom E*	FD-106	Droplet-Surface Interactions
16-Jan	**3:30 PM**	*Barrel Spring II*	FD-107	Multi-Phase and Multi-Material Flows
16-Jan	**3:30 PM**	*Coral Spring II*	FD-109/AA-13	Reduced-Order Modeling for Fluid Dynamics and Aeroacoustics II
16-Jan	**3:30 PM**	*Orlando Ballroom L*	FD-110	Shock-Boundary Layer Interactions VI
16-Jan	**3:30 PM**	*Barrel Spring I*	FD-111	Unsteady Wings
16-Jan	**3:30 PM**	*Bayhill 30*	FD-112	Verification Techniques in Computational Physics II
16-Jan	**3:30 PM**	*Plaza Ballroom K*	FD-113	Wall-Bounded and Free Shear Flows II
GAS TURBINE ENGINES				
12-Jan	**1:00 PM**	*Celebration 3*	GTE-01	Turbomachinery I
12-Jan	**3:30 PM**	*Celebration 2*	GTE-02	Advanced Gas Turbine Engines and Cycles
12-Jan	**3:30 PM**	*Florida Ballroom B*	INPSI-02/GTE-03/ HSABP-02/PGC-03/PC-08/TES-04/ACD-02	Perspectives on Aerospace Propulsion Technology, Challenges and Opportunities
12-Jan	**3:30 PM**	*Celebration 3*	GTE-04	Tutorial: Rotordynamics and Fluid Film Bearings for High-Performance Turbomachinery
13-Jan	**9:30 AM**	*Celebration 2*	GTE-05	Combustion Systems
13-Jan	**1:00 PM**	*Celebration 2*	GTE-06	Combustors I
13-Jan	**1:00 PM**	*Florida Ballroom B*	INPSI-03/GTE-07/EAT-03/ACD-04/PC-11/ TES-06	Innovations in Advanced Electric and Hydrogen Aviation Technologies I (Invited Session)
13-Jan	**1:00 PM**	*Celebration 3*	GTE-08	Turbomachinery II
13-Jan	**3:30 PM**	*Celebration 2*	GTE-09	Combustors II
13-Jan	**3:30 PM**	*Celebration 3*	GTE-10	Data Driven Methods for Manufacturing
13-Jan	**3:30 PM**	*Florida Ballroom B*	INPSI-05/GTE-11/PC-15/TES-07/ACD-06	Innovations in Hybrid Electric and Ultra-Efficient Aircraft Technologies (Invited Session)
13-Jan	**3:30 PM**	*Bayhill 27*	SE-08/DGE-04/GTE-12/DE-08/HMT-02/ EAT-04	Pattern-Based MBSE
14-Jan	**9:30 AM**	*Celebration 2*	GTE-13	Combustors III
14-Jan	**9:30 AM**	*Bayhill 27*	SE-10/DGE-07/GTE-14/DE-10/HMT-03/ EAT-05	AI and Machine Learning (ML) for Aerospace Applications
14-Jan	**9:30 AM**	*Celebration 3*	GTE-15	Workshop: Advancing High Speed Turbomachinery Design Using AI/ML Methods

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TECHNICAL SESSIONS

★ Engage with your community at these must-attend lectures & panels.

14-Jan	**9:30 AM**	*Plaza Ballroom K*	DGE-19/SE-18/DE-19/ GTE-32/EAT-18	Digital Thread for Supply Chain (DTh4SC)
14-Jan	**1:00 PM**	*Bayhill 25*	DGE-08/SE-12/DE-11/ GTE-16/EAT-08	Certification By Analysis (CbA)
14-Jan	**1:00 PM**	*Celebration 2*	GTE-17	Combustors IV
14-Jan	**1:00 PM**	*Celebration 3*	GTE-18	Structures and Dynamics
14-Jan	**3:30 PM**	*Celebration 3*	GTE-19	Computational Tools and Modelling (CFD) Using Data Driven Methods for Turbomachinery Design
14-Jan	**3:30 PM**	*Celebration 2*	GTE-20	High Fidelity Simulations I
14-Jan	**3:30 PM**	*Celebration 5*	PC-26/GTE-21	Sustainable Aviation Fuel: Production, Testing, and Its Current and Future Perspectives.
14-Jan	**3:30 PM**	*Bayhill 25*	DGE-12/SE-14/DE-15/ GTE-22/EAT-12	Verification and Validation Uncertainty Quantification (VVUQ) of Models
15-Jan	**9:30 AM**	*Celebration 5*	PC-27/GTE-24	Carbon-Free Fuels Combustion and its Applications for Aviation and Power Generation
15-Jan	**9:30 AM**	*Bayhill 24*	SE-15/DGE-14/GTE-25/ DE-16/HMT-05/EAT-14	Establishing a Digital Culture in Your Organization
15-Jan	**9:30 AM**	*Celebration 2*	GTE-26	High Fidelity Simulations II
15-Jan	**9:30 AM**	*Bayhill 25*	DGE-15/SE-16/DE-17/ GTE-27/EAT-15	Modernizing the Systems Engineer Review Process
15-Jan	**1:00 PM**	*Celebration 2*	GTE-28	High Fidelity Simulations III
15-Jan	**3:30 PM**	*Celebration 3*	GTE-30	★ Data Driven Methods Across the Gas Turbine Industry - Digital Twins, MRO, System Design
15-Jan	**3:30 PM**	*Bayhill 27*	SE-17/DGE-18/GTE-31/ DE-18/HMT-06/EAT-17	Digital Engineering and Decision Making
15-Jan	**3:30 PM**	*Celebration 2*	GTE-33	Multidisciplinary Analysis and Optimization
16-Jan	**9:30 AM**	*Celebration 2*	GTE-34	Advanced Cycle Design Concepts and Measurement Technologies I
16-Jan	**1:00 PM**	*Celebration 2*	GTE-35	Advanced Cycle Design Concepts and Measurement Technologies II
16-Jan	**3:30 PM**	*Celebration 2*	GTE-36	Thermal Management, Heat Transfer and Cooling
			GENERAL AVIATION	
15-Jan	**9:30 AM**	*Plaza Ballroom F*	EAT-13/PC-28/GA-01	Challenges and Opportunities in Battery Safety for Aviation
			GRAVITY DEPENDENT SCIENCE AND TECHNOLOGY	
12-Jan	**1:00 PM**	*Blue Spring I*	GDST-01	Physical Sciences in Reduced Gravity
12-Jan	**3:30 PM**	*Blue Spring I*	GDST-02	Biological Sciences in Reduced Gravity
			GROUND TESTING	
12-Jan	**9:30 AM**	*Florida Ballroom C*	GT-01	Measurements in Challenging Environments
13-Jan	**9:30 AM**	*Rainbow Spring II*	GT-02	Advanced Facilities for Propulsion Testing
13-Jan	**9:30 AM**	*Plaza Ballroom D*	GT-04/APA-24/AMT-08/FD-31/CFD2030-07	Meet the Turbulence Modelers II
13-Jan	**1:00 PM**	*Rainbow Spring II*	GT-05	Design and Characterization of Impulse Facilities
13-Jan	**3:30 PM**	*Plaza Ballroom K*	GT-06	High Reynolds Number (Invited Session)
14-Jan	**1:00 PM**	*Plaza Ballroom D*	GT-07/APA-39/AMT-21/FD-51/CFD2030-08	Meet the Turbulence Measurers II
14-Jan	**1:00 PM**	*Rainbow Spring II*	GT-08	CRM-HL Ecosystem Special Session
14-Jan	**1:00 PM**	*Plaza Ballroom K*	GT-10	Introduction to Ground Test Facilities
14-Jan	**3:30 PM**	*Rainbow Spring II*	GT-11	Development and Advancement of Wind Tunnel Subsystems
15-Jan	**9:30 AM**	*Celebration 4*	GT-13/HSABP-10	Accelerate Your Future: A Hypersonic Air-Breathing Propulsion Career Trajectory
15-Jan	**9:30 AM**	*Rainbow Spring II*	GT-14	Development of Advanced Measurement Techniques for Hypersonic Testing
15-Jan	**9:30 AM**	*Plaza Ballroom D*	GT-15/APA-60/AMT-26/FD-72/CFD2030-09	Turbulence Modelling and Turbulence Measuring: Shared Implication for Numerics and Uncertainty Quantification

TECHNICAL SESSIONS

★ Engage with your community at these must-attend lectures & panels.

15-Jan	**1:00 PM**	*Rainbow Spring II*	GT-16	Advancements in Wind Tunnel Diagnostics for Aerodynamic Testing
15-Jan	**1:00 PM**	*Plaza Ballroom F*	APA-62/GT-17/FT-08	Aerodynamic Testing: Ground, Wind-Tunnel, and Flight Testing I
15-Jan	**3:30 PM**	*Plaza Ballroom F*	APA-67/GT-18/FT-09	Aerodynamic Testing: Ground, Wind-Tunnel, and Flight Testing II
15-Jan	**3:30 PM**	*Rainbow Spring II*	GT-19	Novel Applications in Ground Testing
16-Jan	**9:30 AM**	*Plaza Ballroom F*	APA-73/GT-20/FT-10	Aerodynamic Testing: Ground, Wind-Tunnel, and Flight Testing III
16-Jan	**9:30 AM**	*Rainbow Spring II*	GT-21	Design and Modernization of Ground Test Facilities
16-Jan	**1:00 PM**	*Rainbow Spring II*	GT-23	Characterization of New and Existing Wind Tunnels
16-Jan	**3:30 PM**	*Rainbow Spring II*	GT-25	Testing and Characterization of High Enthalpy Wind Tunnels
			GUIDANCE, NAVIGATION, AND CONTROL	
12-Jan	**9:30 AM**	*Bayhill 29*	GNC-01	Control Theory for Aerospace Applications I
12-Jan	**9:30 AM**	*Bayhill 28*	GNC-02	Distributed, Cooperative, and Multi-Vehicle Guidance, Navigation, and Control I
12-Jan	**9:30 AM**	*Orlando Ballroom L*	GNC-03/AFM-01	Entry, Descent and Landing Technology I: Overviews
12-Jan	**9:30 AM**	*Celebration 9*	SATS-01/GNC-04	Guidance, Navigation, and Control of Small Sattelites
12-Jan	**9:30 AM**	*Bayhill 31*	GNC-05/IS-01	Guidance, Navigation and Control in Intelligent Systems I
12-Jan	**1:00 PM**	*Bayhill 29*	GNC-06	Control Theory for Aerospace Applications II
12-Jan	**1:00 PM**	*Bayhill 28*	GNC-07	Distributed, Cooperative, and Multi-Vehicle Guidance, Navigation, and Control II
12-Jan	**1:00 PM**	*Orlando Ballroom L*	GNC-08/AFM-02	Entry, Descent and Landing Technology II: Navigation and Hazard Detection
12-Jan	**1:00 PM**	*Bayhill 31*	GNC-09/IS-03	Guidance, Navigation and Control in Intelligent Systems II
12-Jan	**3:30 PM**	*Orlando Ballroom L*	GNC-10/AFM-03	Entry, Descent and Landing Technology III: Aerocapture
12-Jan	**3:30 PM**	*Bayhill 31*	GNC-12/MST-01	Modeling and Simulation for Autonomous Guidance, Navigation and Control I
12-Jan	**3:30 PM**	*Bayhill 29*	GNC-13	Nonlinear Dynamic Inversion Techniques and Applications
13-Jan	**9:30 AM**	*Orlando Ballroom N*	GNC-14	★ GNC Technical Plenary Lecture and Social
13-Jan	**1:00 PM**	*Bayhill 29*	GNC-15	Autonomy and Artificial Intelligence for Aerospace GNC I
13-Jan	**1:00 PM**	*Orlando Ballroom L*	GNC-16/AFM-04	Entry, Descent and Landing Technology IV: Guidance I
13-Jan	**1:00 PM**	*Celebration 15*	IS-08/GNC-18/UAS-06	★ UAVs in 4D: Academia, Government, Industry, and Startups - Which Path is Right for You?
13-Jan	**3:30 PM**	*Bayhill 29*	GNC-19	Autonomy and Artificial Intelligence for Aerospace GNC II
13-Jan	**3:30 PM**	*Orlando Ballroom L*	GNC-20/AFM-05	Entry, Descent and Landing Technology V: Guidance II
13-Jan	**3:30 PM**	*Bayhill 31*	GNC-21/MST-02	Modeling and Simulation for Autonomous Guidance, Navigation and Control II
13-Jan	**3:30 PM**	*Bayhill 28*	GNC-22	Navigation, Estimation, Sensing, and Tracking
14-Jan	**9:30 AM**	*Bayhill 29*	GNC-23	Aircraft GNC Technology I: Improving Mission Effectiveness and Safety
14-Jan	**9:30 AM**	*Orlando Ballroom L*	GNC-24/AFM-07	Entry, Descent and Landing Technology VI: Innovative Solutions to Entry, Descent, and Landing Flight Simulations
14-Jan	**1:00 PM**	*Bayhill 29*	GNC-26	Aircraft GNC Technology II: Structural Mode Control and Filtering
14-Jan	**1:00 PM**	*Orlando Ballroom L*	GNC-27/AFM-08	Entry, Descent and Landing Technology VII: HyperSat
14-Jan	**3:30 PM**	*Bayhill 28*	GNC-29	GNC Graduate Student Paper Competition
14-Jan	**3:30 PM**	*Bayhill 29*	GNC-30	Robust and Adaptive Aircraft Control
15-Jan	**9:30 AM**	*Bayhill 29*	GNC-31	Aircraft Guidance Algorithms and Applications
15-Jan	**9:30 AM**	*Plaza Ballroom K*	GNC-32/AFM-11	Entry, Descent and Landing Technology VIII: Dragonfly I
15-Jan	**9:30 AM**	*Bayhill 28*	GNC-33	Towards Safe Autonomous Flight and Its Benefits I
15-Jan	**1:00 PM**	*Plaza Ballroom K*	GNC-34/AFM-13	Entry, Descent and Landing Technology IX: Dragonfly II

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TECHNICAL SESSIONS

★ Engage with your community at these must-attend lectures & panels.

15-Jan	**1:00 PM**	*Bayhill 29*	GNC-35	Missile, Projectile and Rocket GNC I
15-Jan	**1:00 PM**	*Bayhill 28*	GNC-36	Towards Safe Autonomous Flight and Its Benefits II
15-Jan	**3:30 PM**	*Bayhill 29*	GNC-37	Missile, Projectile and Rocket GNC II
15-Jan	**3:30 PM**	*Bayhill 28*	GNC-38	Towards Safe Autonomous Flight and Its Benefits III
15-Jan	**3:30 PM**	*Bayhill 26*	NDA-10/GNC-39	Uncertainty Quantification in Multi-Disciplinary Design
16-Jan	**9:30 AM**	*Bayhill 28*	GNC-40	Flying NASA's Dragonfly Lander at Titan
16-Jan	**9:30 AM**	*Bayhill 29*	GNC-41	Spacecraft Launch Guidance, Navigation and Control I
16-Jan	**1:00 PM**	*Bayhill 28*	GNC-42	Motion Planning, Sensing and Control for Spacecraft Robotic Systems I
16-Jan	**1:00 PM**	*Bayhill 29*	GNC-43	Spacecraft Launch Guidance, Navigation and Control II
16-Jan	**3:30 PM**	*Bayhill 28*	GNC-44	Motion Planning, Sensing and Control for Spacecraft Robotic Systems II
16-Jan	**3:30 PM**	*Bayhill 29*	GNC-45	Spacecraft Launch Guidance, Navigation and Control III
			HIGH-SPEED AIR-BREATHING PROPULSION	
12-Jan	**1:00 PM**	*Celebration 4*	HSABP-01/PGC-01	Ground or Flight Tests on High-Speed Propulsion Systems
12-Jan	**3:30 PM**	*Celebration 6*	PC-07/HSABP-19	High-Speed Detonations
12-Jan	**3:30 PM**	*Florida Ballroom B*	INPSI-02/GTE-03/ HSABP-02/PGC-03/PC-08/TES-04/ACD-02	Perspectives on Aerospace Propulsion Technology, Challenges and Opportunities
12-Jan	**3:30 PM**	*Celebration 4*	HSABP-03	Scramjet and Alternative High-Speed Engine Design, Thermodynamics and Optimization I
13-Jan	**1:00 PM**	*Celebration 4*	HSABP-04	Numerical Analysis of Scramjet Engines
13-Jan	**3:30 PM**	*Celebration 4*	HSABP-05	Topics in High-Speed Air-Breathing Propulsion I
14-Jan	**9:30 AM**	*Celebration 4*	HSABP-06	State and Gaps in Hypersonic Air-Breathing Propulsion: Design Tools for Airflow Management
14-Jan	**1:00 PM**	*Celebration 4*	HSABP-07	Solid Fuel Ramjets and Scramjets I
14-Jan	**3:30 PM**	*Celebration 4*	HSABP-08/PC-24	High Fidelity Combustion Modeling for High-Speed Propulsion I
15-Jan	**9:30 AM**	*Celebration 4*	GT-13/HSABP-10	★ Accelerate Your Future: A Hypersonic Air-Breathing Propulsion Career Trajectory
15-Jan	**1:00 PM**	*Bayhill 17*	HSABP-11/PC-34	High Fidelity Combustion Modeling for High-Speed Propulsion II
15-Jan	**1:00 PM**	*Celebration 4*	HSABP-12/INPSI-08	High-Speed Inlets, Isolators and Nozzles II
15-Jan	**3:30 PM**	*Celebration 4*	HSABP-13	Topics in High-Speed Air-Breathing Propulsion III
16-Jan	**9:30 AM**	*Celebration 4*	HSABP-14	Solid Fuel Ramjets and Scramjets II
16-Jan	**3:30 PM**	*Celebration 6*	PC-46/HSABP-15	Supersonic Combustion
16-Jan	**1:00 PM**	*Celebration 3*	HSABP-16/PC-43	High Fidelity Combustion Modeling for High-Speed Propulsion III
16-Jan	**1:00 PM**	*Florida Ballroom B*	INPSI-11/HSABP-17	Integrated Propulsion for High Speed Systems
16-Jan	**3:30 PM**	*Celebration 3*	HSABP-18	Topics in High-Speed Air-Breathing Propulsion II
			HISTORY	
15-Jan	**1:00 PM**	*Bayhill 20*	HIS-04	AIAA Historic Aerospace Sites
16-Jan	**9:30 AM**	*Bayhill 20*	HIS-01	Aircraft / Spacecraft Lessons Learned and Case Studies
16-Jan	**1:00 PM**	*Bayhill 20*	HIS-02	History of Peoples and Institutions
			HUMAN MACHINE TEAMING	
13-Jan	**9:30 AM**	*Bayhill 23*	DE-05/HMT-01/TF-03	Innovative Design and Decision-Making in Aerospace
13-Jan	**3:30 PM**	*Bayhill 27*	SE-08/DGE-04/GTE-12/DE-08/HMT-02/ EAT-04	Pattern-Based MBSE

TECHNICAL SESSIONS

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14-Jan	**9:30 AM**	*Bayhill 27*	SE-10/DGE-07/GTE-14/DE-10/HMT-03/EAT-05	AI and Machine Learning (ML) for Aerospace Applications
14-Jan	**3:30 PM**	*Bayhill 21*	DE-13/ACD-13/SE-13/HMT-04	Emerging Processes and Systems in Mission Engineering and Design
15-Jan	**9:30 AM**	*Bayhill 24*	SE-15/DGE-14/GTE-25/DE-16/HMT-05/EAT-14	Establishing a Digital Culture in Your Organization
15-Jan	**3:30 PM**	*Bayhill 27*	SE-17/DGE-18/GTE-31/DE-18/HMT-06/EAT-17	★ Digital Engineering and Decision Making
16-Jan	**9:30 AM**	*Bayhill 18*	HMT-07	Machine Learning and AI/xAI
16-Jan	**1:00 PM**	*Bayhill 18*	HMT-08	Human Factors and Human Performance
16-Jan	**3:30 PM**	*Bayhill 18*	HMT-09	Human Machine Interaction (HMI)
HYBRID ROCKETS				
13-Jan	**1:00 PM**	*Celebration 9*	HR-01	Internal Ballistics and Fuel Formulation Modeling - Including AI and Machine Learning
14-Jan	**1:00 PM**	*Celebration 9*	HR-02	Combustion Stability, Combustion Dynamics, Mixing, Motor Performance, and Related Issues
15-Jan	**9:30 AM**	*Celebration 9*	HR-03	Design and Development of Novel Hybrid Rocket Motor Concepts
16-Jan	**3:30 PM**	*Celebration 9*	HR-04	Green Propellants, Combustion Stability, Mixing, Motor Performance, and injector Design
INFORMATION AND COMMAND AND CONTROL SYSTEMS				
13-Jan	**9:30 AM**	*Celebration 5*	ICC-01	Mission Engineering and Decision Support in Command-and-Control (C2) Systems
13-Jan	**1:00 PM**	*Celebration 16*	ICC-02	AI/ML in Command-and-Control Systems
INLETS, NOZZLES, AND PROPULSION SYSTEMS INTEGRATION				
12-Jan	**3:30 PM**	*Florida Ballroom B*	INPSI-02/GTE-03/HSABP-02/PGC-03/PC-08/TES-04/ACD-02	Perspectives on Aerospace Propulsion Technology, Challenges and Opportunities
13-Jan	**1:00 PM**	*Florida Ballroom B*	INPSI-03/GTE-07/EAT-03/ACD-04/PC-11/TES-06	Innovations in Advanced Electric and Hydrogen Aviation Technologies I (Invited Session)
13-Jan	**3:30 PM**	*Manatee Spring II*	APA-33/INPSI-04	Aerodynamics of Inlets and Nozzles
13-Jan	**3:30 PM**	*Florida Ballroom B*	INPSI-05/GTE-11/PC-15/TES-07/ACD-06	Innovations in Hybrid Electric and Ultra-Efficient Aircraft Technologies (Invited Session)
14-Jan	**9:30 AM**	*Florida Ballroom B*	AS-14/INPSI-14	Clean Aviation Program Highlights and Achievements
14-Jan	**1:00 PM**	*Orlando Ballroom N*	EAT-24/INPSI-12	Clean Aviation Executive Panel: Disruptive Technologies and Roadmap to Next-Generation Aircraft
14-Jan	**3:30 PM**	*Plaza Ballroom K*	INPSI-06/ACD-08/APA-38/AFM-06	Clean Aviation Special Session: Innovative Aircraft Concepts, Novel Configurations and Disruptive Technologies Integration
15-Jan	**9:30 AM**	*Florida Ballroom B*	INPSI-07	High-Speed Inlets, Isolators and Nozzles I
15-Jan	**1:00 PM**	*Celebration 4*	HSABP-12/INPSI-08	High-Speed Inlets, Isolators and Nozzles II
16-Jan	**9:30 AM**	*Celebration 3*	HSABP-14/INPSI-09	High-Speed Inlets, Isolators and Nozzles III
16-Jan	**9:30 AM**	*Florida Ballroom B*	INPSI-10	Inlets, Nozzles, and Propulsion, Systems Integration
16-Jan	**1:00 PM**	*Florida Ballroom B*	INPSI-11/HSABP-17	Integrated Propulsion for High Speed Systems
16-Jan	**3:30 PM**	*Celebration 4*	INPSI-13	Innovations in Engine Design: Advances in Composites, Detonations, and Aerodynamics

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TECHNICAL SESSIONS

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INTELLIGENT SYSTEMS				
12-Jan	**9:30 AM**	*Bayhill 31*	GNC-05/IS-01	Guidance, Navigation and Control in Intelligent Systems I
12-Jan	**9:30 AM**	*Celebration 15*	IS-02	Space Trusted Autonomy I
12-Jan	**1:00 PM**	*Bayhill 31*	GNC-09/IS-03	Guidance, Navigation and Control in Intelligent Systems II
12-Jan	**1:00 PM**	*Celebration 15*	IS-04	Space Trusted Autonomy II
12-Jan	**3:30 PM**	*Celebration 16*	IS-05	Learning, Reasoning, and Data Driven Systems I
12-Jan	**3:30 PM**	*Celebration 12*	IS-06	Sensor Fusion and Systems Health Management
13-Jan	**9:30 AM**	*Celebration 16*	IS-07	Energy Aware and Energy Efficient Aircraft Autonomy
13-Jan	**9:30 AM**	*Celebration 4*	IS-36	Aircraft Certification Principles and Pathways for AI/ML Components
13-Jan	**1:00 PM**	*Celebration 15*	IS-08/GNC-18/UAS-06	UAVs in 4D: Academia, Government, Industry, and Startups - Which Path is Right for You?
13-Jan	**3:30 PM**	*Celebration 16*	IS-09	Learning, Reasoning, and Data Driven Systems II
13-Jan	**3:30 PM**	*Celebration 15*	IS-10	Multi-Agent Control and Coordination I
14-Jan	**9:30 AM**	*Celebration 12*	IS-11	Learning, Reasoning, and Data Driven Systems IV
14-Jan	**9:30 AM**	*Celebration 15*	IS-12	Multi-Agent Control and Coordination II
14-Jan	**1:00 PM**	*Celebration 15*	IS-13	Adaptive and Intelligent Control Systems I
14-Jan	**1:00 PM**	*Celebration 12*	IS-14	Learning, Reasoning, and Data Driven Systems III
14-Jan	**1:00 PM**	*Celebration 16*	IS-15	Safety-Critical Control and Learning for Advanced Air Mobility I
14-Jan	**3:30 PM**	*Celebration 15*	IS-16	Adaptive and Intelligent Control Systems II
14-Jan	**3:30 PM**	*Celebration 12*	IS-17	Learning, Reasoning, and Data Driven Systems V
14-Jan	**3:30 PM**	*Celebration 16*	IS-18	Safety-Critical Control and Learning for Advanced Air Mobility II
15-Jan	**9:30 AM**	*Celebration 15*	IS-19	Autonomy I
15-Jan	**9:30 AM**	*Celebration 16*	IS-20	Guidance, Navigation, and Control Architectures for Autonomous Systems I
15-Jan	**9:30 AM**	*Celebration 12*	IS-21	Probabilistic and Rule-Based Systems
15-Jan	**1:00 PM**	*Celebration 15*	IS-22	Autonomy II
15-Jan	**1:00 PM**	*Celebration 16*	IS-23	Guidance, Navigation, and Control Architectures for Autonomous Systems II
15-Jan	**3:30 PM**	*Celebration 15*	IS-24	Autonomy III
15-Jan	**3:30 PM**	*Celebration 16*	IS-25	Guidance, Navigation, and Control Architectures for Autonomous Systems III
15-Jan	**3:30 PM**	*Celebration 12*	IS-26	Large Language Models to Support Space Operations
16-Jan	**9:30 AM**	*Celebration 15*	IS-27	Autonomy IV
16-Jan	**9:30 AM**	*Celebration 12*	IS-28	Distributed Data Acquisition and Processing for Advanced Air Mobility I
16-Jan	**9:30 AM**	*Celebration 16*	IS-29	Guidance, Navigation, and Control Architectures for Autonomous Systems IV
16-Jan	**1:00 PM**	*Celebration 15*	IS-30	Autonomy V
16-Jan	**1:00 PM**	*Celebration 16*	IS-32	Guidance, Navigation, and Control Architectures for Autonomous Systems V
16-Jan	**3:30 PM**	*Celebration 15*	IS-33	Autonomy VI
16-Jan	**3:30 PM**	*Celebration 12*	IS-34	Distributed Data Acquisition and Processing for Advanced Air Mobility III
16-Jan	**3:30 PM**	*Celebration 16*	IS-35	Guidance, Navigation, and Control Architectures for Autonomous Systems VI
LIQUID PROPULSION				
12-Jan	**1:00 PM**	*Celebration 8*	LP-01	Green and Non-Toxic Propellants
12-Jan	**1:00 PM**	*Celebration 5*	LP-02	★ Introduction to Additive Manufacturing for Propulsion and Energy Systems
12-Jan	**3:30 PM**	*Celebration 8*	LP-03	Modeling and Simulation of Liquid Propulsion Systems, Components, and Processes I
13-Jan	**1:00 PM**	*Celebration 5*	LP-04	Liquid Propellant Management Devices - Past, Present, Future
13-Jan	**1:00 PM**	*Celebration 8*	LP-05	Modeling and Simulation of Liquid Propulsion Systems, Components, and Processes II
13-Jan	**3:30 PM**	*Celebration 8*	LP-06/PGC-08	Liquid Fueled Rotating Detonation Engines I

TECHNICAL SESSIONS

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13-Jan	**3:30 PM**	*Celebration 14*	EXPL-08/LP-19	Cryogenic Fluid Management Technology - Highlights and Recent Developments (Invited Lecture)
14-Jan	**9:30 AM**	*Celebration 8*	LP-07	In-Space Liquid Propulsion System Design, Analysis, and Testing
14-Jan	**9:30 AM**	*Florida Ballroom C*	PGC-10/LP-08	Current RDRE Development Efforts at NASA and AFRL
14-Jan	**1:00 PM**	*Celebration 8*	LP-09	Novel Liquid Propulsion Component Design and Test
14-Jan	**3:30 PM**	*Celebration 8*	LP-10	NPSS: Introduction Tutorial
15-Jan	**9:30 AM**	*Celebration 8*	LP-11	Propellant Management, Storage, and Feed System Design, Analysis, and Testing I
15-Jan	**1:00 PM**	*Celebration 8*	LP-12	Propellant Management, Storage, and Feed System Design, Analysis, and Testing II
15-Jan	**3:30 PM**	*Celebration 8*	LP-13	Propellant Management, Storage, and Feed System Design, Analysis, and Testing III
16-Jan	**9:30 AM**	*Celebration 8*	LP-14	Liquid Propulsion System and Component Design, Analysis, Testing and Operation I
16-Jan	**1:00 PM**	*Florida Ballroom C*	PGC-22/LP-15	Liquid Fueled Rotating Detonation Engines II
16-Jan	**1:00 PM**	*Celebration 8*	LP-16	Liquid Propulsion System and Component Design, Analysis, Testing and Operation II
16-Jan	**1:00 PM**	*Celebration 5*	LP-17	Other Topics in Liquid Propulsion
16-Jan	**3:30 PM**	*Celebration 8*	LP-18	Combustor, Diagnostic, and Test Facility Design, Analysis, and Operation
			MATERIALS	
12-Jan	**9:30 AM**	*Bayhill 20*	MAT-01	3D Woven Composite Materials and Structures
12-Jan	**9:30 AM**	*Bayhill 23*	MAT-02	Multifunctional Materials
12-Jan	**1:00 PM**	*Bayhill 20*	MAT-03	Materials for Additive Manufacturing
12-Jan	**1:00 PM**	*Bayhill 23*	MAT-04	Multiscale Modeling
12-Jan	**3:30 PM**	*Bayhill 20*	MAT-05/STR-05	AI/ML for Materials and Structures
12-Jan	**3:30 PM**	*Bayhill 23*	MAT-06	Nanostructured Materials
13-Jan	**9:30 AM**	*Bayhill 20*	MAT-07	Materials Postdoc and R&D Early-Career Mentorship: Academia, Government, and Industry Insights
13-Jan	**1:00 PM**	*Bayhill 20*	MAT-08	Fatigue and Fracture
13-Jan	**3:30 PM**	*Bayhill 19*	STR-15/MAT-09	Other Topics in Structures and Materials
13-Jan	**3:30 PM**	*Bayhill 20*	MAT-10/STR-16	Special Session in Honor of Dr. Steven M. Arnold
14-Jan	**9:30 AM**	*Bayhill 20*	MAT-11	Materials for Extreme Environments: In-Space Manufacturing and Exploration
14-Jan	**9:30 AM**	*Bayhill 23*	MAT-12/STR-18	Structures and Materials in Extreme Environments
14-Jan	**1:00 PM**	*Bayhill 20*	MAT-13	Materials for Additive Manufacturing, Self-Healing Polymers and Thermoplastics
14-Jan	**3:30 PM**	*Bayhill 20*	MAT-14	Materials for Extreme Environments: Hypersonics, Launch/Reentry, and Orbital Effects
14-Jan	**3:30 PM**	*Bayhill 23*	MAT-15	Testing and Characterization of Materials I
15-Jan	**9:30 AM**	*Bayhill 20*	MAT-16	ICME Education for Industry-Ready Talent
15-Jan	**9:30 AM**	*Bayhill 21*	MAT-17	Testing and Characterization of Materials II
15-Jan	**9:30 AM**	*Bayhill 23*	MAT-18/STR-25	Thermoplastic Composites
15-Jan	**1:00 PM**	*Orlando Ballroom N*	STR-26/SD-23/MAT-19	★ Structures, Structural Dynamics, and Materials Lecture
15-Jan	**3:30 PM**	*Bayhill 23*	MAT-20	Materials for Extreme Environments
15-Jan	**3:30 PM**	*Bayhill 20*	MAT-21	Microstructure Characterization and Modeling
15-Jan	**3:30 PM**	*Bayhill 24*	MAT-22	Pulsed Electrochemical Machining, Non-Contact and Non-Thermal Material Removal for Critical Aerospace Features

View most up-to-date program

TECHNICAL SESSIONS

★ Engage with your community at these must-attend lectures & panels.

MESHING, VISUALIZATION, AND COMPUTATIONAL ENVIRONMENTS				
12-Jan	**9:30 AM**	*Bayhill 30*	MVCE-01/APA-07/ CFD2030-02	Visualization and Knowledge Extraction of Large Data Sets
12-Jan	**1:00 PM**	*Bayhill 30*	MVCE-02/APA-10/ CFD2030-03	CFD on Large-Scale Meshes for Applied Aerodynamics and HPC
12-Jan	**3:30 PM**	*Bayhill 30*	MVCE-03/FD-18	AI/ML Assisted Geometry Modeling, Error Estimation, and Mesh Adaptation for CFD
13-Jan	**9:30 AM**	*Bayhill 30*	MVCE-04	High-Order Mesh Adaptation / Visualization and Knowledge Extraction of Large Ensembles of Simulation and Model Results
13-Jan	**1:00 PM**	*Bayhill 30*	MVCE-05/FD-40/ NDA-03	Surrogate Modeling and Mesh Adaptation for Shock-Dominated Flows / Grid Quality, Error Estimation and Uncertainty Quantification for CFD and FEA
13-Jan	**3:30 PM**	*Bayhill 30*	MVCE-06/MDO-10	Geometry Modeling and Meshing for MDO, Moving and Deforming Meshes
MODELING AND SIMULATION TECHNOLOGIES				
12-Jan	**3:30 PM**	*Bayhill 31*	GNC-12/MST-01	Modeling and Simulation for Autonomous Guidance, Navigation and Control I
13-Jan	**3:30 PM**	*Bayhill 31*	GNC-21/MST-02	Modeling and Simulation for Autonomous Guidance, Navigation and Control II
14-Jan	**1:00 PM**	*Blue Spring I*	MST-03	Air Traffic Management Simulation and Digital Twins I
14-Jan	**3:30 PM**	*Blue Spring I*	MST-04	Air Traffic Management Simulation and Digital Twins II
15-Jan	**9:30 AM**	*Blue Spring I*	MST-05	Modeling and Simulation for Certification and Qualification
15-Jan	**1:00 PM**	*Blue Spring I*	MST-06	Modeling and Simulation of Air Vehicle Dynamics, Systems, and Environments I
15-Jan	**3:30 PM**	*Blue Spring I*	MST-07	Modeling and Simulation of Air Vehicle Dynamics, Systems, and Environments II
16-Jan	**9:30 AM**	*Blue Spring I*	MST-08	Modeling and Simulation of Space Vehicle Dynamics, Systems, and Environments
16-Jan	**1:00 PM**	*Blue Spring I*	MST-09	Human Factors, Perception, and Cueing
16-Jan	**3:30 PM**	*Blue Spring I*	MST-10	Modeling and Simulation Integration
MULTIDISCIPLINARY DESIGN OPTIMIZATION				
12-Jan	**9:30 AM**	*Bayhill 17*	MDO-01	Aerodynamic Design Optimization
12-Jan	**9:30 AM**	*Bayhill 21*	MDO-02/STR-03	Structural and Topology Optimization Applications for Air and Space I
12-Jan	**1:00 PM**	*Bayhill 21*	MDO-03/ACD-01/ APA-08	Aerodynamic Design, Analysis, Methodologies, and Shape Optimization
12-Jan	**1:00 PM**	*Bayhill 17*	MDO-04	MDO in Aircraft Design
12-Jan	**3:30 PM**	*Bayhill 17*	MDO-05	MDO/Sensitivity Analysis with Aeroelasticity/Fluid-Structure Interaction
12-Jan	**3:30 PM**	*Bayhill 21*	MDO-06/STR-08	Structural and Topology Optimization Applications for Air and Space II
13-Jan	**9:30 AM**	*Bayhill 26*	NDA-01/MDO-07	Design Under Uncertainty
13-Jan	**9:30 AM**	*Bayhill 17*	MDO-08	Special Session: MDO Benchmarks for Aircraft Design
13-Jan	**3:30 PM**	*Bayhill 30*	MVCE-06/MDO-10	Geometry Modeling and Meshing for MDO, Moving and Deforming Meshes
13-Jan	**3:30 PM**	*Bayhill 17*	MDO-11/NDA-04	Model Order Reduction and Surrogate Modeling
14-Jan	**9:30 AM**	*Bayhill 26*	NDA-05/MDO-12	Design Under Uncertainty and Surrogate Modeling
14-Jan	**9:30 AM**	*Bayhill 17*	MDO-13	Special Session: Model-Based Systems Analysis and Engineering (MBSA&E) I
14-Jan	**1:00 PM**	*Bayhill 26*	NDA-06/MDO-14	Probabilistic Surrogate Modeling and Physics-informed Machine Learning
14-Jan	**1:00 PM**	*Bayhill 17*	MDO-15	Special Session: Model-Based Systems Analysis and Engineering (MBSA&E) II
14-Jan	**3:30 PM**	*Manatee Spring II*	APA-53/ACD-10/MDO-16	Aerodynamic Design: Analysis, Methodologies, and Optimization Techniques I
14-Jan	**3:30 PM**	*Bayhill 17*	MDO-17/ACD-14/DE-14/NDA-08	Robustness, Design for Reliability, and Multi-Disciplinary Design Optimization
15-Jan	**9:30 AM**	*Manatee Spring II*	APA-57/ACD-15/MDO-18	Aerodynamic Design: Analysis, Methodologies, and Optimization Techniques II
15-Jan	**9:30 AM**	*Bayhill 17*	MDO-19	Machine Learning and Optimization
15-Jan	**1:00 PM**	*Manatee Spring II*	APA-61/ACD-17/MDO-20	Aerodynamic Design: Analysis, Methodologies, and Optimization Techniques III
15-Jan	**3:30 PM**	*Manatee Spring II*	APA-66/ACD-19/MDO-21	Aerodynamic Design: Analysis, Methodologies, and Optimization Techniques IV
15-Jan	**3:30 PM**	*Bayhill 17*	MDO-22	Emerging Methods, Algorithms, and Software Development in MDO
16-Jan	**9:30 AM**	*Bayhill 17*	MDO-23/NDA-11	Non-Deterministic Analysis in MDO

TECHNICAL SESSIONS

★ Engage with your community at these must-attend lectures & panels.

NON-DETERMINISTIC APPROACHES				
13-Jan	**9:30 AM**	*Bayhill 26*	NDA-01/MDO-07	Design Under Uncertainty
13-Jan	**1:00 PM**	*Orlando Ballroom N*	NDA-02	★ Non-Deterministic Approaches Lecture
13-Jan	**1:00 PM**	*Bayhill 30*	MVCE-05/FD-40/ NDA-03	Surrogate Modeling and Mesh Adaptation for Shock-Dominated Flows / Grid Quality, Error Estimation and Uncertainty Quantification for CFD and FEA
13-Jan	**3:30 PM**	*Bayhill 17*	MDO-11/NDA-04	Model Order Reduction and Surrogate Modeling
14-Jan	**9:30 AM**	*Bayhill 26*	NDA-05/MDO-12	Design Under Uncertainty and Surrogate Modeling
14-Jan	**1:00 PM**	*Bayhill 26*	NDA-06/MDO-14	Probabilistic Surrogate Modeling and Physics-informed Machine Learning
14-Jan	**3:30 PM**	*Bayhill 26*	NDA-07	Bayesian Methods for Uncertainty Quantification
14-Jan	**3:30 PM**	*Bayhill 17*	MDO-17/ACD-14/DE-14/NDA-08	Robustness, Design for Reliability, and Multi-Disciplinary Design Optimization
15-Jan	**9:30 AM**	*Bayhill 26*	NDA-09	Probabilistic and Physics-Informed Machine Learning, Multi-Fidelity Methods
15-Jan	**3:30 PM**	*Bayhill 26*	NDA-10/GNC-39	Uncertainty Quantification in Multi-Disciplinary Design
16-Jan	**9:30 AM**	*Bayhill 17*	MDO-23/NDA-11	Non-Deterministic Analysis in MDO
NUCLEAR AND FUTURE FLIGHT PROPULSION				
13-Jan	**9:30 AM**	*Celebration 6*	NFF-01	Nuclear Thermal Rockets
14-Jan	**3:30 PM**	*Celebration 9*	NFF-02	Missions Enabled by Nuclear or Future Propulsion
15-Jan	**1:00 PM**	*Celebration 9*	NFF-03	Fusion and Future Flight Propulsion
PLASMADYNAMICS AND LASERS				
12-Jan	**9:30 AM**	*Rainbow Spring I*	PDL-01	Plasma-assisted Ignition and Combustion I
12-Jan	**1:00 PM**	*Rainbow Spring I*	PDL-02	Plasma-assisted Ignition and Combustion II
12-Jan	**3:30 PM**	*Rainbow Spring I*	PDL-03	Plasma and Laser Diagnostics I
13-Jan	**9:30 AM**	*Rainbow Spring I*	PDL-04	Plasma and Laser Diagnostics II
13-Jan	**1:00 PM**	*Rainbow Spring I*	PDL-05	Plasma and Laser Diagnostics III
13-Jan	**3:30 PM**	*Rainbow Spring I*	PDL-06	Plasma and Laser Diagnostics IV
14-Jan	**9:30 AM**	*Rainbow Spring I*	PDL-07	Plasma and Laser Physics I
14-Jan	**1:00 PM**	*Rainbow Spring I*	PDL-08	Plasma and Laser Physics II
14-Jan	**3:30 PM**	*Rainbow Spring I*	PDL-09	Hypersonics and Entry Flow Plasmas
15-Jan	**9:30 AM**	*Rainbow Spring I*	PDL-10	Short Pulsed Lasers Discussion Group
15-Jan	**1:00 PM**	*Rainbow Spring I*	PDL-11	Computational Methods for Plasmas and Lasers I
15-Jan	**1:00 PM**	*Celebration 5*	PC-38/PDL-14	Plasma Assisted Combustion: Augmenting Operability and Performance
15-Jan	**3:30 PM**	*Celebration 5*	PC-35/PDL-12	Plasma Assisted Combustion: Towards Adoption in the Commercial and Defense Community
15-Jan	**3:30 PM**	*Rainbow Spring I*	PDL-13	Computational Methods for Plasmas and Lasers II
16-Jan	**9:30 AM**	*Rainbow Spring I*	PDL-15	Aero-Optics and Atmospheric Optical Turbulence
16-Jan	**1:00 PM**	*Rainbow Spring I*	PDL-16	Laser-Based Propulsion and Other Topics in Plasmas
PRESSURE GAIN COMBUSTION				
12-Jan	**1:00 PM**	*Celebration 4*	HSABP-01/PGC-01	Ground or Flight Tests on High-Speed Propulsion Systems
12-Jan	**1:00 PM**	*Florida Ballroom C*	PGC-02	PGC Operability and Performance I
12-Jan	**3:30 PM**	*Florida Ballroom B*	INPSI-02/GTE-03/ HSABP-02/PGC-03/PC-08/TES-04/ACD-02	Perspectives on Aerospace Propulsion Technology, Challenges and Opportunities

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TECHNICAL SESSIONS

★ Engage with your community at these must-attend lectures & panels.

12-Jan	**3:30 PM**	*Florida Ballroom C*	PGC-04	Propellant Mixing Dynamics
13-Jan	**1:00 PM**	*Celebration 6*	PC-10/PGC-05	Detonation Fundamentals I
13-Jan	**1:00 PM**	*Florida Ballroom C*	PGC-06/AMT-13	Measurement and Diagnostics I
13-Jan	**3:30 PM**	*Florida Ballroom C*	PGC-07	Detonation Initiation and Propagation
13-Jan	**3:30 PM**	*Celebration 8*	LP-06/PGC-08	Liquid Fueled Rotating Detonation Engines I
14-Jan	**9:30 AM**	*Celebration 6*	PC-18/PGC-09	Detonation Fundamentals II
14-Jan	**9:30 AM**	*Florida Ballroom C*	PGC-10/LP-08	Current RDRE Development Efforts at NASA and AFRL
14-Jan	**1:00 PM**	*Florida Ballroom C*	PGC-11	Novel PGC Architectures
14-Jan	**1:00 PM**	*Florida Ballroom B*	PGC-12	PGC Thermal Management I
14-Jan	**3:30 PM**	*Florida Ballroom C*	PGC-13	PGC Thermal Management II
15-Jan	**9:30 AM**	*Celebration 6*	PC-29/PGC-15	Detonation Fundamentals III
15-Jan	**9:30 AM**	*Florida Ballroom C*	PGC-16	Small-Scale Rotating Detonation Engines
15-Jan	**1:00 PM**	*Florida Ballroom B*	PGC-17/PC-33	Detonation Fundamentals IV
15-Jan	**1:00 PM**	*Florida Ballroom C*	PGC-18/AMT-29	Measurement and Diagnostics II
15-Jan	**3:30 PM**	*Florida Ballroom B*	PGC-20	Validation of PGC Concepts and Methods
16-Jan	**9:30 AM**	*Florida Ballroom C*	PGC-21	PGC Operability and Performance II
16-Jan	**1:00 PM**	*Florida Ballroom C*	PGC-22/LP-15	Liquid Fueled Rotating Detonation Engines II
16-Jan	**3:30 PM**	*Florida Ballroom C*	PGC-23	PGC Operability and Performance III
16-Jan	**3:30 PM**	*Florida Ballroom B*	PGC-24	PGC System Integration
			PROPELLANTS AND COMBUSTION	
12-Jan	**9:30 AM**	*Florida Ballroom B*	PC-01	★ Propulsion and Energy Group Technical Plenary: Reusable Rocket Propulsion: Stoke Space's Andromeda and Zenith Engines
12-Jan	**1:00 PM**	*Celebration 7*	PC-02	Combustion I
12-Jan	**1:00 PM**	*Celebration 6*	PC-03	Solid Fuels
12-Jan	**3:30 PM**	*Celebration 5*	PC-04	Aerosol Process Research for Stratospheric Aerosol Injection
12-Jan	**3:30 PM**	*Celebration 7*	PC-05	Combustion II
12-Jan	**3:30 PM**	*Plaza Ballroom E*	AMT-07/FD-21/PC-06	Highlighting Careers in Aerospace Sciences
12-Jan	**3:30 PM**	*Celebration 6*	PC-07/HSABP-14	High-Speed Detonations
12-Jan	**3:30 PM**	*Florida Ballroom B*	INPSI-02/GTE-03/ HSABP-02/PGC-03/PC-08/TES-04/ACD-02	Perspectives on Aerospace Propulsion Technology, Challenges and Opportunities
13-Jan	**9:30 AM**	*Florida Ballroom B*	PC-09	Propulsion and Energy Group Technical Plenary: Data Assimilation and Data-Informed Predictions in Propulsion
13-Jan	**1:00 PM**	*Celebration 6*	PC-10/PGC-05	Detonation Fundamentals I
13-Jan	**1:00 PM**	*Florida Ballroom B*	INPSI-03/GTE-07/EAT-03/ACD-04/PC-11/ TES-06	Innovations in Advanced Electric and Hydrogen Aviation Technologies I (Invited Session)
13-Jan	**1:00 PM**	*Celebration 7*	PC-12	Jets
13-Jan	**3:30 PM**	*Celebration 5*	PC-13	Data-Driven Modeling of Combustion Dynamics
13-Jan	**3:30 PM**	*Celebration 7*	PC-14	Emissions
13-Jan	**3:30 PM**	*Florida Ballroom B*	INPSI-05/GTE-11/PC-15/TES-07/ACD-06	Innovations in Hybrid Electric and Ultra-Efficient Aircraft Technologies (Invited Session)
13-Jan	**3:30 PM**	*Celebration 6*	PC-16	Propellants
14-Jan	**9:30 AM**	*Celebration 6*	PC-18/PGC-09	Detonation Fundamentals II
14-Jan	**1:00 PM**	*Celebration 5*	PC-20	★ Advancing Space Nuclear Power and Propulsion System Technologies
14-Jan	**1:00 PM**	*Celebration 6*	PC-21	Ammonia Combustion I
14-Jan	**1:00 PM**	*Celebration 7*	PC-22	Computations and Methods
14-Jan	**3:30 PM**	*Celebration 6*	PC-23	Combustion Chemistry and Diagnostics

TECHNICAL SESSIONS

★ Engage with your community at these must-attend lectures & panels.

14-Jan	**3:30 PM**	*Celebration 4*	HSABP-08/PC-24	High Fidelity Combustion Modeling for High-Speed Propulsion I
14-Jan	**3:30 PM**	*Celebration 7*	PC-25	Liquid Fuels
14-Jan	**3:30 PM**	*Celebration 5*	PC-26/GTE-21	Sustainable Aviation Fuel: Production, Testing, and Its Current and Future Perspectives.
15-Jan	**9:30 AM**	*Celebration 5*	PC-27/GTE-24	Carbon-Free Fuels Combustion and its Applications for Aviation and Power Generation
15-Jan	**9:30 AM**	*Plaza Ballroom F*	EAT-13/PC-28/GA-01	Challenges and Opportunities in Battery Safety for Aviation
15-Jan	**9:30 AM**	*Celebration 6*	PC-29/PGC-15	Detonation Fundamentals III
15-Jan	**9:30 AM**	*Celebration 7*	PC-30	Internal Combustion Engines
15-Jan	**1:00 PM**	*Celebration 6*	PC-31	Ammonia Combustion II
15-Jan	**1:00 PM**	*Celebration 7*	PC-32	Combustion III
15-Jan	**1:00 PM**	*Florida Ballroom B*	PGC-17/PC-33	Detonation Fundamentals IV
15-Jan	**1:00 PM**	*Bayhill 17*	HSABP-11/PC-34	High Fidelity Combustion Modeling for High-Speed Propulsion II
15-Jan	**1:00 PM**	*Celebration 5*	PC-38/PDL-14	Plasma Assisted Combustion: Augmenting Operability and Performance
15-Jan	**3:30 PM**	*Celebration 5*	PC-35/PDL-12	Plasma Assisted Combustion: Towards Adoption in the Commercial and Defense Community
15-Jan	**3:30 PM**	*Celebration 6*	PC-37	Combustion IV and Flames
16-Jan	**9:30 AM**	*Celebration 7*	PC-39	Combustion V
16-Jan	**9:30 AM**	*Celebration 6*	PC-40	Shock Tube
16-Jan	**9:30 AM**	*Celebration 5*	PC-41	The Physics of Jets in Cross Flow: Experimental and Computational Progress
16-Jan	**1:00 PM**	*Celebration 7*	PC-42	Combustion VI
16-Jan	**1:00 PM**	*Celebration 3*	HSABP-16/PC-43	High Fidelity Combustion Modeling for High-Speed Propulsion III
16-Jan	**3:30 PM**	*Celebration 7*	PC-45	Combustion VII
16-Jan	**3:30 PM**	*Celebration 6*	PC-46/HSABP-15	Supersonic Combustion
SENSOR SYSTEMS AND INFORMATION				
12-Jan	**1:00 PM**	*Celebration 12*	SEN-02	Applications of AI/ML to Sensing and Fusion
13-Jan	**9:30 AM**	*Celebration 12*	SEN-03	Applications of Sensing and Information Fusion
13-Jan	**1:00 PM**	*Celebration 12*	SEN-04	UAS Sensors and Sensing Systems I
13-Jan	**3:30 PM**	*Celebration 12*	SEN-05	UAS Sensors and Sensing Systems II
14-Jan	**9:30 AM**	*Celebration 16*	SEN-06	Sensor Systems for Space Applications
15-Jan	**1:00 PM**	*Bayhill 23*	SEN-07	Novel Sensors, Algorithms, and Sensing Applications
SMALL SATELLITES				
12-Jan	**9:30 AM**	*Celebration 9*	SATS-01/GNC-04	Guidance, Navigation, and Control of Small Sattelites
13-Jan	**9:30 AM**	*Celebration 9*	SATS-02	Software, Simulations, and Constellations
14-Jan	**9:30 AM**	*Celebration 9*	SATS-03	Future Mission Concepts and Propulsion
15-Jan	**3:30 PM**	*Celebration 9*	SATS-04	Design of SmallSat Systems and Education
16-Jan	**9:30 AM**	*Celebration 9*	SATS-05	Small Satellite Novel Technologies
SOCIETY AND AEROSPACE TECHNOLOGY				
12-Jan	**9:30 AM**	*Celebration 3*	SAT-01	Society and Aerospace Technology

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TECHNICAL SESSIONS

★ Engage with your community at these must-attend lectures & panels.

SOFTWARE				
12-Jan	**9:30 AM**	*Celebration 16*	SOF-01	Testing and Simulation Methods for Complex Systems
12-Jan	**1:00 PM**	*Celebration 16*	SOF-02	Advanced Computing Paradigms for Aerospace Systems
12-Jan	**3:30 PM**	*Celebration 15*	SOF-03	NASA cFS 2.0 and Beyond
13-Jan	**9:30 AM**	*Celebration 15*	SOF-04	Modern Avionics Architecture and Software Development
15-Jan	**1:00 PM**	*Celebration 12*	SOF-05	AI and Machine Learning Applications in Aerospace
SOLID ROCKETS				
13-Jan	**3:30 PM**	*Celebration 11*	SR-01	Solid Rocket Modeling and Simulations
14-Jan	**3:30 PM**	*Celebration 11*	SR-02	Solid Rocket Manufacturing and Inspections Methods
15-Jan	**3:30 PM**	*Celebration 11*	SR-03	Solid Rocket Motor Design and Testing
16-Jan	**3:30 PM**	*Celebration 11*	SR-04	Solid Rocket Propellants
SPACE AUTOMATION AND ROBOTICS				
12-Jan	**9:30 AM**	*Florida Ballroom A*	SAR-01	In-Space and On-Orbit Assembly and Manufacturing Robotics
12-Jan	**1:00 PM**	*Florida Ballroom A*	SAR-02	In-Space and On-Orbit Servicing Robotics
13-Jan	**9:30 AM**	*Florida Ballroom A*	SAR-04	Experimental Testing of Space Robotics Research and Development
13-Jan	**1:00 PM**	*Florida Ballroom A*	SAR-05	ML and AI for Space Robotics and Automation I
13-Jan	**3:30 PM**	*Florida Ballroom A*	SAR-03	Advancing Robotic Autonomy for ISAM
15-Jan	**9:30 AM**	*Florida Ballroom A*	SAR-07	ML and AI for Space Robotics and Automation II
15-Jan	**1:00 PM**	*Florida Ballroom A*	SAR-08	Novel Technologies for Space Robotics I
15-Jan	**3:30 PM**	*Florida Ballroom A*	SAR-09	Novel Technologies for Space Robotics II
SPACE EXPLORATION				
12-Jan	**9:30 AM**	*Celebration 14*	EXPL-01	AIAA Undergraduate Space Design Competition: Enable Human Exploration
12-Jan	**9:30 AM**	*Celebration 13*	EXPL-02	Enabling Technologies I
12-Jan	**1:00 PM**	*Celebration 13*	EXPL-03	Enabling Technologies II
13-Jan	**9:30 AM**	*Celebration 13*	EXPL-05	Humans in Space Logistics, Medical issues, Bio-Research
13-Jan	**1:00 PM**	*Celebration 13*	EXPL-06	Impact of Space Activities on Climate and Atmosphere
13-Jan	**1:00 PM**	*Celebration 14*	EXPL-07	Research Results Related to Mission Architectures, Flight Systems and, Infrastructure
13-Jan	**3:30 PM**	*Celebration 14*	EXPL-08/LP-19	★ Cryogenic Fluid Management Technology - Highlights and Recent Developments (Invited Lecture)
13-Jan	**3:30 PM**	*Celebration 13*	EXPL-09	Space Nuclear Propulsion (SNP) – Enabling Technology for Reducing Transit Time
14-Jan	**9:30 AM**	*Celebration 14*	EXPL-10	Dyreqt: A New Paradigm for Synthesis of Space Systems
14-Jan	**9:30 AM**	*Celebration 13*	EXPL-11	Lunar ISRU
14-Jan	**1:00 PM**	*Celebration 13*	EXPL-12	Lunar and Martian ISRU
14-Jan	**3:30 PM**	*Celebration 14*	EXPL-13	Mission Architecture I
14-Jan	**3:30 PM**	*Celebration 13*	EXPL-14	Operational Space Medicine and Human Systems Integration Topics from Human Performance Maintenance to Spacesuit Design
15-Jan	**9:30 AM**	*Celebration 13*	EXPL-15	Mission Architecture II
15-Jan	**1:00 PM**	*Celebration 13*	EXPL-16	Mission Architectures III
15-Jan	**3:30 PM**	*Celebration 14*	EXPL-17	★ The Life Sciences Perspective in Spaceflight -- Challenges and Research for Long-Duration Space Missions at Multiple Levels of Analysis from the Cell to Vehicle Design
15-Jan	**3:30 PM**	*Celebration 13*	EXPL-18	Space Policy and Technologies for Space Exploration
16-Jan	**9:30 AM**	*Celebration 13*	EXPL-19	Lunar Exploration
16-Jan	**3:30 PM**	*Celebration 13*	EXPL-23	Artificial Intelligence, Robotics and Other Technologies for Space Exploration

TECHNICAL SESSIONS

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SPACE FLIGHT MECHANICS				
12-Jan	**9:30 AM**	*Plaza Ballroom I*	SFM-01	Attitude Dynamics, Determination, and Control I
12-Jan	**9:30 AM**	*Plaza Ballroom J*	SFM-02	Space Situational Awareness (SSA) Conjunction Analysis and Collision Avoidance
12-Jan	**1:00 PM**	*Plaza Ballroom I*	SFM-03	Attitude Dynamics, Determination, and Control II
12-Jan	**1:00 PM**	*Plaza Ballroom J*	SFM-04	Orbital Debris and Space Environment
12-Jan	**3:30 PM**	*Plaza Ballroom I*	SFM-05	Attitude Dynamics, Determination, and Control III
12-Jan	**3:30 PM**	*Bayhill 24*	SCS-03/STR-07/SFM-06	In-Space Servicing, Assembly and Manufacturing (ISAM) I
12-Jan	**3:30 PM**	*Plaza Ballroom J*	SFM-07	Low-Thrust Trajectories
13-Jan	**9:30 AM**	*Plaza Ballroom J*	SFM-08	Atmospheric Entry Guidance and Control
13-Jan	**9:30 AM**	*Bayhill 29*	SCS-04/STR-10/SFM-09/EDU-05	In-Space Servicing, Assembly, and Manufacturing (ISAM) II
13-Jan	**9:30 AM**	*Plaza Ballroom I*	SFM-10	Trajectory/Mission/Maneuver Design and Optimization I
13-Jan	**1:00 PM**	*Bayhill 21*	SCS-07/STR-12/SFM-11/EDU-07	In-Space Servicing, Assembly, and Manufacturing (ISAM) III
13-Jan	**1:00 PM**	*Plaza Ballroom J*	SFM-12	Orbit Determination and Estimation
13-Jan	**1:00 PM**	*Plaza Ballroom I*	SFM-13	Trajectory/Mission/Maneuver Design and Optimization II
13-Jan	**3:30 PM**	*Plaza Ballroom I*	SFM-15	Trajectory/Mission/Maneuver Design and Optimization III
13-Jan	**3:30 PM**	*Plaza Ballroom J*	SFM-27	Orbital Dynamics, Perturbations, and Stability
14-Jan	**9:30 AM**	*Plaza Ballroom J*	SFM-16	Cislunar Astrodynamics I
14-Jan	**9:30 AM**	*Plaza Ballroom I*	SFM-17	Trajectory/Mission/Maneuver Design and Optimization IV
14-Jan	**1:00 PM**	*Plaza Ballroom J*	SFM-18	Cislunar Astrodynamics II
14-Jan	**1:00 PM**	*Bayhill 24*	SCS-11/STR-20/SFM-19	In-Space Servicing, Assembly and Manufacturing (ISAM) IV
14-Jan	**1:00 PM**	*Plaza Ballroom I*	SFM-20	Trajectory/Mission/Maneuver Design and Optimization V
14-Jan	**3:30 PM**	*Plaza Ballroom J*	SFM-21	Asteroid and Interplanetary Missions
14-Jan	**3:30 PM**	*Plaza Ballroom I*	SFM-22	Cislunar Astrodynamics III
15-Jan	**9:30 AM**	*Plaza Ballroom I*	SFM-24	Rendezvous, Relative Motion, Proximity Operations, and Docking I
15-Jan	**9:30 AM**	*Plaza Ballroom J*	SFM-26	Space Autonomy and Space Robotics
15-Jan	**1:00 PM**	*Plaza Ballroom J*	SFM-14/SCS-08/STR-14/EDU-08	In-Space Servicing, Assembly, and Manufacturing (ISAM): In-Space Assembly (iSA) Interface (I/F) Hardware Design I
15-Jan	**1:00 PM**	*Plaza Ballroom I*	SFM-25	Rendezvous, Relative Motion, Proximity Operations, and Docking II
15-Jan	**3:30 PM**	*Plaza Ballroom I*	SFM-28	Rendezvous, Relative Motion, Proximity Operations, and Docking III
15-Jan	**3:30 PM**	*Plaza Ballroom J*	SFM-23/SCS-13/STR-24/EDU-11	In-Space Servicing, Assembly, and Manufacturing (ISAM): In-Space Assembly (iSA) Interface (I/F) Hardware Design II
16-Jan	**9:30 AM**	*Plaza Ballroom I*	SFM-30	Rendezvous, Relative Motion, Proximity Operations, and Docking IV
16-Jan	**9:30 AM**	*Plaza Ballroom J*	SFM-32	Satellite Constellations and Formations I
16-Jan	**1:00 PM**	*Plaza Ballroom I*	SFM-31	Machine Learning and Artificial Intelligence Applied to Space Flight Problems I
16-Jan	**1:00 PM**	*Plaza Ballroom J*	SFM-34	Satellite Constellations and Formations II
16-Jan	**3:30 PM**	*Plaza Ballroom I*	SFM-33	Machine Learning and Artificial Intelligence Applied to Space Flight Problems II

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TECHNICAL SESSIONS

★ Engage with your community at these must-attend lectures & panels.

SPACE LOGISTICS				
14-Jan	**3:30 PM**	*Orlando Ballroom L*	VSTOL-01/ACD-12/ EAT-10/SL-01	Design, Analysis, and CONOPS of Advanced Air Mobility Vehicles
16-Jan	**9:30 AM**	*Bayhill 23*	SL-02	Space Mobility and Logistics: In-Space Servicing, Manufacturing, and Ecosystem
16-Jan	**1:00 PM**	*Bayhill 23*	SL-03	Advanced Space Logistics Infrastructures: Spaceport, ISRU, and Asteroid Mining
16-Jan	**3:30 PM**	*Bayhill 23*	SL-04	Systems Engineering Challenges for Space Logistics
SPACE OPERATIONS AND SUPPORT				
12-Jan	**9:30 AM**	*Celebration 2*	OPS-01	Space Debris
12-Jan	**1:00 PM**	*Celebration 2*	OPS-02	Beyond Earth Orbit: Space Operations and Support
13-Jan	**9:30 AM**	*Celebration 1*	OPS-04	Space Debris, Cybersecurity, and Automation in Space Operations in Support
SPACE TETHERS				
12-Jan	**9:30 AM**	*Celebration 4*	STE-01	Space Tethers I
SPACECRAFT STRUCTURES				
12-Jan	**9:30 AM**	*Bayhill 24*	SCS-01	Spacecraft Antennas, Reflectors, and Other Optical Apertures
12-Jan	**1:00 PM**	*Bayhill 24*	SCS-02	Spacecraft Structures Test, Analysis, and Correlation
12-Jan	**3:30 PM**	*Bayhill 24*	SCS-03/STR-07/SFM-06	In-Space Servicing, Assembly and Manufacturing (ISAM) I
13-Jan	**9:30 AM**	*Bayhill 29*	SCS-04/STR-10/SFM-09/EDU-05	In-Space Servicing, Assembly, and Manufacturing (ISAM) II
13-Jan	**9:30 AM**	*Bayhill 24*	SCS-05	Spacecraft Booms and Trusses
13-Jan	**1:00 PM**	*Bayhill 24*	SCS-06	High Strain Composite Materials and Structures
13-Jan	**1:00 PM**	*Bayhill 21*	SCS-07/STR-12/SFM-11/EDU-07	In-Space Servicing, Assembly, and Manufacturing (ISAM) III
13-Jan	**3:30 PM**	*Bayhill 24*	SCS-09	Lightweight and Inflatable Space Structures
14-Jan	**9:30 AM**	*Bayhill 24*	SCS-10/AS-09	Adaptive Spacecraft Structures and Systems
14-Jan	**1:00 PM**	*Bayhill 24*	SCS-11/STR-20/SFM-19	In-Space Servicing, Assembly and Manufacturing (ISAM) IV
14-Jan	**3:30 PM**	*Bayhill 24*	SCS-12	Solar Sails, Solar Shields, and Other Membrane Structures
15-Jan	**1:00 PM**	*Plaza Ballroom J*	SFM-14/SCS-08/STR-14/EDU-08	In-Space Servicing, Assembly, and Manufacturing (ISAM): In-Space Assembly (iSA) Interface (I/F) Hardware Design I
15-Jan	**3:30 PM**	*Plaza Ballroom J*	SFM-23/SCS-13/STR-24/EDU-11	In-Space Servicing, Assembly, and Manufacturing (ISAM): In-Space Assembly (iSA) Interface (I/F) Hardware Design II
STRUCTURAL DYNAMICS				
12-Jan	**9:30 AM**	*Bayhill 18*	SD-01	Reduced-Order Modeling and Machine Learning
12-Jan	**9:30 AM**	*Bayhill 22*	SD-02/FD-06	Special Session: Advances in High-Speed Fluid-Thermo-Structural Interaction
12-Jan	**1:00 PM**	*Bayhill 18*	SD-04	Special Session: Smart Dynamic Testing and Structural Response in Acoustic Testing
12-Jan	**3:30 PM**	*Bayhill 22*	SD-05	Special Session: Aeroelastic Prediction Workshop Update - Large-Deflection Working Group
12-Jan	**3:30 PM**	*Bayhill 18*	SD-06	Special Session: Prof. Roy R. Craig Memorial Session
13-Jan	**9:30 AM**	*Bayhill 18*	SD-07/FD-29	Fluid-Structure Interaction I
13-Jan	**9:30 AM**	*Bayhill 22*	SD-08	Flutter and Limit-Cycle Oscillations I
13-Jan	**9:30 AM**	*Bayhill 28*	SD-09	Testing Methodologies and Other Topics in Structural Dynamics
13-Jan	**1:00 PM**	*Bayhill 18*	SD-10/FD-36	Fluid-Structure Interaction II
13-Jan	**1:00 PM**	*Bayhill 22*	SD-11	Flutter and Limit-Cycle Oscillations II
13-Jan	**3:30 PM**	*Bayhill 18*	SD-12/FD-44	Fluid-Structure Interaction III
14-Jan	**9:30 AM**	*Bayhill 18*	SD-14	Finite Element and Computational Methods
14-Jan	**9:30 AM**	*Bayhill 22*	SD-15	Load Alleviation for Aerospace Vehicles
14-Jan	**1:00 PM**	*Bayhill 18*	SD-16	Aeroelastic Problems of Vertical Lift Vehicles and Small UAVs
14-Jan	**1:00 PM**	*Bayhill 22*	SD-17	Special Session: Results of the IAWTM High-Aspect-Ratio Aeroservoelastic Wind Tunnel Tests I

TECHNICAL SESSIONS

★ Engage with your community at these must-attend lectures & panels.

14-Jan	**3:30 PM**	*Bayhill 22*	SD-18	Special Session: Results of the IAWTM High-Aspect-Ratio Aeroservoelastic Wind Tunnel Tests II
14-Jan	**3:30 PM**	*Bayhill 18*	SD-19	Vibration Energy Losses, Damping, and Vibration Control
15-Jan	**9:30 AM**	*Bayhill 22*	SD-20	Aeroelastic Problems of Hypersonic Vehicles
15-Jan	**1:00 PM**	*Bayhill 24*	SD-22/FD-74	Fluid-Metamaterial Interactions I
15-Jan	**1:00 PM**	*Orlando Ballroom N*	STR-26/SD-23/MAT-19	Structures, Structural Dynamics, and Materials Lecture
15-Jan	**3:30 PM**	*Peacock Spring*	APA-68/SD-24	DPW-8/AePW-4 Mini Workshop 2 and All-Hands Tagup
15-Jan	**3:30 PM**	*Bayhill 22*	SD-25	Dynamic Loads, Response, and Stability of Aerospace Vehicles
15-Jan	**3:30 PM**	*Bayhill 18*	SD-26	Special Session: Mars Aerial Exploration
16-Jan	**9:30 AM**	*Bayhill 24*	SD-27/FD-89	Fluid-Metamaterial Interactions II
			STRUCTURES	
12-Jan	**9:30 AM**	*Bayhill 26*	DE-01/AS-02/STR-01	Advanced Manufacturing and Composite Structure Design
12-Jan	**9:30 AM**	*Bayhill 19*	STR-02	AI/ML and Advanced Structural Computational Techniques
12-Jan	**9:30 AM**	*Bayhill 21*	MDO-02/STR-03	Structural and Topology Optimization Applications for Air and Space I
12-Jan	**1:00 PM**	*Bayhill 19*	STR-04	Composite Structural Analysis, Design, Testing, and Manufacturing II
12-Jan	**3:30 PM**	*Bayhill 20*	MAT-05/STR-05	AI/ML for Materials and Structures
12-Jan	**3:30 PM**	*Bayhill 19*	STR-06	Air and Space Structural Design, Analysis, Test
12-Jan	**3:30 PM**	*Bayhill 21*	MDO-06/STR-08	Structural and Topology Optimization Applications for Air and Space II
12-Jan	**3:30 PM**	*Bayhill 24*	SCS-03/STR-07/SFM-06	In-Space Servicing, Assembly and Manufacturing (ISAM) I
13-Jan	**9:30 AM**	*Bayhill 19*	STR-09	Buckling and Stability of Air and Space Structures
13-Jan	**9:30 AM**	*Bayhill 29*	SCS-04/STR-10/SFM-09/EDU-05	In-Space Servicing, Assembly, and Manufacturing (ISAM) II
13-Jan	**1:00 PM**	*Bayhill 19*	STR-11	Composite Structural Analysis, Design, Testing, and Manufacturing I
13-Jan	**1:00 PM**	*Bayhill 21*	SCS-07/STR-12/SFM-11/EDU-07	In-Space Servicing, Assembly, and Manufacturing (ISAM) III
13-Jan	**3:30 PM**	*Bayhill 21*	STR-13	Composite Structural Analysis, Design, Testing, and Manufacturing III
13-Jan	**3:30 PM**	*Bayhill 19*	STR-15/MAT-09	Other Topics in Structures and Materials
13-Jan	**3:30 PM**	*Bayhill 20*	MAT-10/STR-16	Special Session in Honor of Dr. Steven M. Arnold
14-Jan	**9:30 AM**	*Bayhill 19*	STR-17	Fatigue, Fracture, and Impact Damage of Structures
14-Jan	**9:30 AM**	*Bayhill 23*	MAT-12/STR-18	Structures and Materials in Extreme Environments
14-Jan	**1:00 PM**	*Bayhill 19*	STR-19	Additive Structures
14-Jan	**1:00 PM**	*Bayhill 24*	SCS-11/STR-20/SFM-19	In-Space Servicing, Assembly and Manufacturing (ISAM) IV
14-Jan	**1:00 PM**	*Bayhill 21*	STR-21	Stitched Composite Structures
14-Jan	**3:30 PM**	*Bayhill 19*	STR-22	Composite Structural Analysis, Design, Testing, and Manufacturing IV
15-Jan	**9:30 AM**	*Bayhill 23*	MAT-18/STR-25	Thermoplastic Composites
15-Jan	**1:00 PM**	*Plaza Ballroom J*	SFM-14/SCS-08/STR-14/EDU-08	In-Space Servicing, Assembly, and Manufacturing (ISAM): In-Space Assembly (iSA) Interface (I/F) Hardware Design I
15-Jan	**1:00 PM**	*Orlando Ballroom N*	STR-26/SD-23/MAT-19	Structures, Structural Dynamics, and Materials Lecture
15-Jan	**3:30 PM**	*Plaza Ballroom J*	SFM-23/SCS-13/STR-24/EDU-11	In-Space Servicing, Assembly, and Manufacturing (ISAM): In-Space Assembly (iSA) Interface (I/F) Hardware Design II
15-Jan	**3:30 PM**	*Bayhill 19*	STR-27/AS-15	Structural Health Monitoring and Non-Destructive Evaluation

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TECHNICAL SESSIONS

★ Engage with your community at these must-attend lectures & panels.

SUPERSONICS				
14-Jan	**9:30 AM**	*Barrel Spring I*	APA-44/SPSN-01	Supersonic Aerodynamics
16-Jan	**9:30 AM**	*Orlando Ballroom N*	SPSN-02	Supersonic Ground and Flight Testing
16-Jan	**1:00 PM**	*Orlando Ballroom N*	SPSN-03	Supersonic Modeling and Simulation
16-Jan	**3:30 PM**	*Orlando Ballroom N*	SPSN-04	Supersonic Operations and Modeling/Analysis
SURVIVABILITY				
13-Jan	**1:00 PM**	*Bayhill 26*	SUR-01	Space System Survivability
13-Jan	**3:30 PM**	*Bayhill 26*	SUR-02	Survivability of Aerospace Systems
SUSTAINABILITY				
12-Jan	**9:30 AM**	*Plaza Ballroom K*	SUST-01	Systems Approaches to Sustainable Aviation
12-Jan	**1:00 PM**	*Plaza Ballroom K*	SUST-02	Aviation Operations for Sustainability
12-Jan	**3:30 PM**	*Plaza Ballroom K*	SUST-03	Sustainable Space Operations and Technologies
13-Jan	**9:30 AM**	*Plaza Ballroom K*	SUST-04	Aviation Emissions and Aircraft Environmental Impacts
13-Jan	**1:00 PM**	*Plaza Ballroom K*	SUST-05	Non-CO2 Engine Emissions and Contrails
13-Jan	**2:00 PM**	*Plaza Ballroom K*	SUST-06	The New Space Race: Chances and Challenges for a Sustainable Future
SYSTEMS ENGINEERING				
12-Jan	**9:30 AM**	*Bayhill 25*	SE-01	Digital Engineering and Model-Based Systems Engineering (MBSE)
12-Jan	**1:00 PM**	*Bayhill 25*	SE-02	AI and Machine Learning Applications in Systems Engineering
12-Jan	**1:00 PM**	*Blue Spring II*	DGE-01/CASE-01/SE-03/DE-20	Haven't We Always Been Modeling? Unpacking Resistance in the Shift to Model Based Systems Engineering
12-Jan	**3:30 PM**	*Bayhill 25*	SE-04	System Design and Architecture
13-Jan	**9:30 AM**	*Bayhill 25*	SE-05	Systems Engineering Theory and Applications
13-Jan	**1:00 PM**	*Bayhill 25*	SE-06	Trade Studies in Systems Engineering
13-Jan	**3:30 PM**	*Bayhill 23*	DE-07/SE-07/TF-04	Novel Design Approaches and Digital Engineering in Aerospace
13-Jan	**3:30 PM**	*Bayhill 27*	SE-08/DGE-04/GTE-12/DE-08/HMT-02/EAT-04	Pattern-Based MBSE
13-Jan	**3:30 PM**	*Bayhill 25*	SE-09	Systems Engineering Management and Lifecycle Approaches
14-Jan	**9:30 AM**	*Bayhill 27*	SE-10/DGE-07/GTE-14/DE-10/HMT-03/EAT-05	AI and Machine Learning (ML) for Aerospace Applications
14-Jan	**9:30 AM**	*Bayhill 25*	SE-11	The Future of Aviation Systems Safety
14-Jan	**9:30 AM**	*Plaza Ballroom K*	DGE-19/SE-18/DE-19/GTE-32/EAT-18	Digital Thread for Supply Chain (DTh4SC)
14-Jan	**1:00 PM**	*Bayhill 25*	DGE-08/SE-12/DE-11/GTE-16/EAT-08	Certification By Analysis (CbA)
14-Jan	**3:30 PM**	*Bayhill 21*	DE-13/ACD-13/SE-13/HMT-04	Emerging Processes and Systems in Mission Engineering and Design
14-Jan	**3:30 PM**	*Bayhill 25*	DGE-12/SE-14/DE-15/GTE-22/EAT-12	Verification and Validation Uncertainty Quantification (VVUQ) of Models
15-Jan	**9:30 AM**	*Bayhill 24*	SE-15/DGE-14/GTE-25/DE-16/HMT-05/EAT-14	Establishing a Digital Culture in Your Organization
15-Jan	**9:30 AM**	*Bayhill 25*	DGE-15/SE-16/DE-17/GTE-27/EAT-15	Modernizing the Systems Engineer Review Process
15-Jan	**3:30 PM**	*Bayhill 27*	SE-17/DGE-18/GTE-31/DE-18/HMT-06/EAT-17	Digital Engineering and Decision Making
TERRESTRIAL ENERGY				
12-Jan	**9:30 AM**	*Celebration 8*	TES-01	Fuels and Combustion I
12-Jan	**1:00 PM**	*Celebration 11*	TES-02	Alternative Fuels: Production and Utilization
12-Jan	**3:30 PM**	*Celebration 9*	TES-03	Novel Propulsion Technologies for Alternative Fuels

TECHNICAL SESSIONS

★ Engage with your community at these must-attend lectures & panels.

12-Jan	**3:30 PM**	*Florida Ballroom B*	INPSI-02/GTE-03/ HSABP-02/PGC-03/PC-08/TES-04/ACD-02	Perspectives on Aerospace Propulsion Technology, Challenges and Opportunities
13-Jan	**9:30 AM**	*Celebration 8*	TES-05	Renewable Energy, Environment and Green Infrastructure
13-Jan	**1:00 PM**	*Florida Ballroom B*	INPSI-03/GTE-07/EAT-03/ACD-04/PC-11/ TES-06	Innovations in Advanced Electric and Hydrogen Aviation Technologies I (Invited Session)
13-Jan	**3:30 PM**	*Florida Ballroom B*	INPSI-05/GTE-11/PC-15/TES-07/ACD-06	Innovations in Hybrid Electric and Ultra-Efficient Aircraft Technologies (Invited Session)
13-Jan	**3:30 PM**	*Celebration 9*	TES-08	Sustainable Skies: Progress Towards The Role of Next-Gen Fuels in Aviation
16-Jan	**1:00 PM**	*Celebration 9*	TES-09	Fuels and Combustion II
			THERMOPHYSICS	
12-Jan	**9:30 AM**	*Bayhill 32*	TP-01	Ablation
12-Jan	**1:00 PM**	*Bayhill 32*	TP-23	Thermal Protection Systems IV
12-Jan	**3:30 PM**	*Bayhill 32*	TP-03	Multiphase Flows
12-Jan	**3:30 PM**	*Bayhill 33*	TP-04	Sensitivity Analysis and Uncertainty Quantification
13-Jan	**9:30 AM**	*Bayhill 32*	TP-19	Thermal Protection Systems II
13-Jan	**3:30 PM**	*Bayhill 33*	TP-07	Aircraft Icing
13-Jan	**3:30 PM**	*Bayhill 32*	TP-08	Non-Equilibrium Flows and Radiation I
14-Jan	**1:00 PM**	*Bayhill 32*	TP-10	Non-Equilibrium Flows and Radiation II
14-Jan	**3:30 PM**	*Orlando Ballroom N*	TP-11	Thermophysics Award Lecture
15-Jan	**9:30 AM**	*Bayhill 32*	TP-12	General Thermophysics
15-Jan	**9:30 AM**	*Bayhill 31*	TP-13	Non-Equilibrium Flows and Radiation III
15-Jan	**1:00 PM**	*Bayhill 32*	TP-15	Thermal Control and Heat Transfer I
15-Jan	**1:00 PM**	*Bayhill 31*	TP-17	Thermal Protection Systems I
15-Jan	**3:30 PM**	*Bayhill 32*	TP-16	Thermal Control and Heat Transfer II
16-Jan	**9:30 AM**	*Bayhill 32*	TP-18	Aerothermodynamics I
16-Jan	**1:00 PM**	*Bayhill 32*	TP-20	Aerothermodynamics II
16-Jan	**3:30 PM**	*Bayhill 32*	TP-22	Aerothermodynamics III
			TRANSFORMATIONAL FLIGHT	
12-Jan	**9:30 AM**	*Orlando Ballroom M*	UAS-01/TF-01	Air Traffic Management for Advanced Aircraft Concepts
12-Jan	**3:30 PM**	*Bayhill 26*	DE-03/TF-02	Creative Design, Emerging Trends, New Processes, and Novel Aerospace Applications
13-Jan	**9:30 AM**	*Bayhill 23*	DE-05/HMT-01/TF-03	Innovative Design and Decision-Making in Aerospace
13-Jan	**3:30 PM**	*Bayhill 23*	DE-07/SE-07/TF-04	Novel Design Approaches and Digital Engineering in Aerospace
14-Jan	**9:30 AM**	*Florida Ballroom A*	TF-05/WE-03	Soaring to New Heights: Advancements in the Kite System for the Toyota Mothership
14-Jan	**1:00 PM**	*Bayhill 31*	AA-04/EAT-07/TF-06	Advanced Air Mobility Noise
14-Jan	**1:00 PM**	*Florida Ballroom A*	TF-07/WE-04	Pioneering Technologies for the Toyota Mothership: Enhancing Safety and Autonomy
15-Jan	**3:30 PM**	*Rock Spring I & II*	ACD-20/TF-08	Design of Vertical Takeoff and Landing (VTOL) Aircraft

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TECHNICAL SESSIONS

★ Engage with your community at these must-attend lectures & panels.

UNCREWED AND AUTONOMOUS SYSTEMS				
12-Jan	**9:30 AM**	*Orlando Ballroom M*	UAS-01/TF-01	Air Traffic Management for Advanced Aircraft Concepts
12-Jan	**1:00 PM**	*Orlando Ballroom M*	UAS-02	Autonomy for Advanced Air Mobility Systems
12-Jan	**3:30 PM**	*Orlando Ballroom M*	UAS-03	Systems Design and Optimization for Uncrewed/Autonomous System
13-Jan	**9:30 AM**	*Orlando Ballroom M*	UAS-04	Sensors and Data Systems for Uncrewed/Autonomous Systems
13-Jan	**1:00 PM**	*Orlando Ballroom M*	UAS-05	Autonomous Mission Management Concepts and Technologies
13-Jan	**1:00 PM**	*Celebration 15*	IS-08/GNC-18/UAS-06	UAVs in 4D: Academia, Government, Industry, and Startups - Which Path is Right for You?
13-Jan	**3:30 PM**	*Orlando Ballroom M*	UAS-07	Autonomous Task and System Integration
14-Jan	**9:30 AM**	*Orlando Ballroom M*	UAS-08	Novel Concepts and Applications for Uncrewed/Autonomous Systems I
14-Jan	**1:00 PM**	*Orlando Ballroom M*	UAS-09	Novel Concepts and Applications for Uncrewed/Autonomous Systems II
14-Jan	**3:30 PM**	*Florida Ballroom A*	UAS-10	The Anatomy of Autonomy
14-Jan	**3:30 PM**	*Orlando Ballroom M*	UAS-11	Uncrewed and Autonomous Systems Student Paper Session
15-Jan	**9:30 AM**	*Rock Spring I & II*	ACD-16/UAS-12	Design of Uninhabited Aerial Vehicles I
15-Jan	**9:30 AM**	*Orlando Ballroom M*	UAS-13/FT-07	UAS Flight Testing
15-Jan	**1:00 PM**	*Rock Spring I & II*	ACD-18/UAS-14	Design of Uninhabited Aerial Vehicles II
VERTICAL/SHORT TAKE-OFF AND LANDING (V/STOL) AIRCRAFT SYSTEMS				
14-Jan	**3:30 PM**	*Orlando Ballroom L*	VSTOL-01/ACD-12/ EAT-10/SL-01	Design, Analysis, and CONOPS of Advanced Air Mobility Vehicles
15-Jan	**9:30 AM**	*Bayhill 18*	VSTOL-03	Advances in V/STOL Flight Control Laws, Handling Qualities, and Pilot/User-Vehicle Interfaces
15-Jan	**1:00 PM**	*Bayhill 18*	VSTOL-02	Vertiport Architecture Considerations, Designs, Lessons, Viability
WIND ENERGY				
13-Jan	**9:30 AM**	*Celebration 7*	WE-02	Wind Rotor and Plant Aerodynamics, Design Optimization, and Monitoring
14-Jan	**9:30 AM**	*Florida Ballroom A*	TF-05/WE-03	Soaring to New Heights: Advancements in the Kite System for the Toyota Mothership
14-Jan	**1:00 PM**	*Florida Ballroom A*	TF-07/WE-04	Pioneering Technologies for the Toyota Mothership: Enhancing Safety and Autonomy

AIAA SCITECH FORUM CELEBRATES THE PROUD HISTORY OF THESE CONFERENCES:

34th AIAA Adaptive Structures Conference

64th AIAA Aerospace Sciences Meeting

AIAA Atmospheric Flight Mechanics Conference

19th AIAA Dynamic Specialists Conference

AIAA Guidance, Navigation, and Control Conference

AIAA Information Systems — Infotech@Aerospace Conference

24th AIAA International Energy Conversion Engineering Conference

62nd AIAA Joint Propulsion Conference

AIAA Modeling and Simulation Technologies Conference

22nd AIAA Multidisciplinary Design Optimization Specialist Conference

28th AIAA Non-Deterministic Approaches Conference

Annual Propulsion and Energy Meeting

AIAA Spacecraft Structures Conference

67th AIAA Structures, Structural Dynamics, and Materials Conference

19th Symposium on Space Resource Utilization

COMMITTEE MEETINGS AND EVENTS

TIME	LOCATION	COMMITTEE AND ANCILLARY MEETINGS/EVENTS
SUNDAY, 11 JANUARY		
8 a.m.–6:30 p.m.	*Barrel Spring 1*	7th AIAA Propulsion Aerodynamics Workshop
1–3 p.m.	*Orlando Ballroom M*	AIAA Volunteer Town Hall
2–4 p.m.	*Boardroom*	APATC Publicity and Publications Subcommittee Meeting
2–5 p.m.	*Plaza Ballroom E*	AI and Autonomy in Catastrophic Wildfire Response
3–4 p.m.	*Challenger 40*	APATC Membership Subcommittee Meeting
3–4 p.m.	*Discovery 43*	Applied Aerodynamics TC- Liaison Sub-Committee meeting
3–4 p.m.	*Discovery 44*	APATC Planning Subcommittee
3–4 p.m.	*Challenger 42*	Applied Aerodynamics TC Education Subcommittee Meeting
3:30–5:30 p.m.	*Orlando Ballroom L*	Town Hall Break Out Room READ
3:30–5:30 p.m.	*Orlando Ballroom M*	Town Hall Break Out Room IOD
3:30–5:30 p.m.	*Orlando Ballroom N*	Town Hall Break Out Room TAD
4–5 p.m.	*Boardroom*	APATC Technical Activities
4–8:30 p.m.	*Barrel Spring 2*	Ground Testing Technical Committee (GTTC) and Subcommittee Meetings
5–6 p.m.	*Challenger 40*	APATC Steering Committee
5:30–7:30 p.m.	*Bayhill 21*	Structures Technical Committee Sunday Lecture
6–9 p.m.	*Orlando Ballroom N*	Applied Aerodynamics Technical Committee Meeting
7–9 p.m.	*Plaza Ballroom G*	Aerospace Design and Structures Group - Leadership Meeting
7–9 p.m.	*Manatee Spring 1*	Committee on Higher Education
MONDAY, 12 JANUARY		
9–11 a.m.	*Plaza Ballroom G*	IOD and TAD Joint Meeting
9:30–10:15 a.m.	*Regency O & P*	Student Career Accelerator Program Opening Keynote.
9:30–10:30 a.m.	*Challenger 40*	GTTC - Writing Quality Focus Group
10 a.m.–12 p.m.	*Boardroom*	Gravity Dependent Science Technology Technical Committee (GDST-TC) and Working Group Meeting
10:30–11:15 a.m.	*Regency O & P*	Student Career Accelerator Program: Level Up Your Game
11:30 a.m.–1 p.m.	*Regency Q*	CFD Vision 2030 Integration Committee
11:30 a.m.–1 p.m.	*Discovery 43*	GTTC - Model Deformation Working Group
12–1 p.m.	*Discovery 47*	FDTC/TPTC Computational Methods for Multi-Phase Flows
12–1:30 p.m.	*Plaza Ballroom H*	Joint Astrodynamics/Space Flight Mechanics Technical Committee Meeting
12:45–1:15 p.m.	*Columbia 34*	Student Career Accelerator Program - Command Your Mission Micro: Transitioning to Work
12:45–1:15 p.m.	*Columbia 35*	Student Career Accelerator Program - Command Your Mission Micro: Resume and Application Workshop
12:45–1:15 p.m.	*Columbia 37*	Student Career Accelerator Program - Command Your Mission Micro: Building Your Brand
12:45–1:15 p.m.	*Discovery 46*	Student Career Accelerator Program - Command Your Mission Micro: Leverage Your Competition Experience
1–2 p.m.	*Challenger 42*	Progress Series EAB Meeting
1–3 p.m.	*Plaza Ballroom G*	Technical Activities Division
1:30–2 p.m.	*Columbia 34*	Student Career Accelerator Program - Launch into Tomorrow Micro: The Diplomatic Approach
1:30–2 p.m.	*Columbia 35*	Student Career Accelerator Program - Launch into Tomorrow Micro: Cultivating an Entrepreneurial Spirit
1:30–2 p.m.	*Columbia 37*	Student Career Accelerator Program - Launch into Tomorrow Micro: Build It. Dream It. Live It
1:30–2 p.m.	*Discovery 46*	Student Career Accelerator Program - Launch into Tomorrow Micro: Surviving Your First Few Months
2–4 p.m.	*Regency O & P*	Meet the Employers
2–4 p.m.	*Discovery 45*	Reusable Launch Vehicle Technical Committee Meeting
3–4 p.m.	*Challenger 42*	Journal of Aircraft Editorial Board Meeting
3–5 p.m.	*Regency Ballroom Q*	Gas Turbine Engines Technical Committee (GTE TC) Meeting

COMMITTEE MEETINGS AND EVENTS

3:30–4:30 p.m.	*Windermere Ballroom*	2026 AIAA Durand Lecture for Public Service
3:30–5 p.m.	*Columbia 34*	FDTC High-Fidelity CFD Verification DG
3:30–5:30 p.m.	*Discovery 48*	AIAA Ethics Committee Meeting
4–5 p.m.	*Plaza Ballroom H*	Student Career Accelerator Program - Level Up Your Comms
4–5 p.m.	*Challenger 40*	Education Series Editorial Board Meeting
4–5:30 p.m.	*Discovery 44*	Space Tethers Technical Committee Meeting
4:30–5:30 p.m.	*Boardroom*	Steering Committee Meeting for HyTASP TC
4:30–6 p.m.	*Regency O & P*	Meet the Universities
5–6 p.m.	*Columbia 35*	FDTC Large Eddy Simulation DG
5–6 p.m.	*Columbia 36*	ISTC Student Best Paper Competition
5–7 p.m.	*Columbia 37*	Defense Working Group
5:30–6:30 p.m.	*Plaza Ballroom G*	Applied Aerodynamics: Aero-Propulsive Interactions Discussion Group
5:30–7 p.m.	*Windermere Ballroom*	AIAA Awards Recognition Ceremony
5:30–7 p.m.	*Discovery 43*	Computer Systems Technical Committee
5:30–7:30 p.m.	*Discovery 46*	Electrified Aircraft Technologies Technical Committee Meeting
6–7 p.m.	*Celebration 2*	FDTC Turbulence Model Benchmarking DG
6–7 p.m.	*Bayhill 32*	FDTC Reduced-Complexity Modeling and Analysis of Fluid Flows DG
6–7 p.m.	*Bayhill 31*	FDTC Designing with Flow Control DG
6–7 p.m.	*Bayhill 33*	FDTC Swept Wing Leading Edge Vortex Flow Physics DG
6–7 p.m.	*Discovery 44*	Energetic Components and Systems Annual Committee Meeting
6–8 p.m.	*Regency Ballroom Q*	Propellants & Combustion Technical Committee Meeting
6–8 p.m.	*Manatee Spring 1*	Sustainability IOC General Meeting
6:30–7:30 p.m.	*Blue Spring 1*	AMT Conference Planning Subcommittee Meeting
6:30–9:30 p.m.	*Discovery 45*	NC State University Mechanical and Aerospace Engineering Alumni Reception
6:45–8 p.m.	*Bayhill 28*	APATC Rotorcraft Simulation Discussion Group
7–7:30 p.m.	*Coral Spring 2*	AMT Publications Subcommittee Meeting
7–8 p.m.	*Rainbow Spring 1*	FDTC Massively Separated Flows DG
7–8 p.m.	*Bayhill 30*	FDTC High-Speed Flow Control DG
7–9 p.m.	*Celebration 1*	FDTC Transition DG
7–9 p.m.	*Bayhill 29*	Information Systems Group (ISG) Meeting
7–9 p.m.	*Plaza Ballroom G*	Liquid Propulsion Technical Committee Meeting
7–9 p.m.	*Rock Spring 1&2*	HyTASP Technical Committee Meeting
7–9 p.m.	*Barrel Spring 2*	Terrestrial Energy Systems Committee Meeting
7–9 p.m.	*Plaza J*	U-M Aerospace SciTech Social Reception
7–10 p.m.	*Plaza Ballroom H*	Digital Engineering IOC Meeting
7–10 p.m.	*Bayhill 21*	Aircraft Design Technical Committee
7:30–8 p.m.	*Peacock Spring*	AMT Education Outreach Subcommittee Meeting
7:30–8:30 p.m.	*Coral Spring 1*	AMT Awards Subcommittee Meeting
8–8:30 p.m.	*Peacock Spring*	AMT Workforce Engagement Subcommittee Meeting
8–10 p.m.	*Blue Spring 2*	FDTC High Speed FSI DG

COMMITTEE MEETINGS AND EVENTS

TUESDAY, 13 JANUARY		
8–9 a.m.	*Columbia 34*	GTTC - RDT&E Risk Management Process Sufficiency Focus Group
9–10 a.m.	*Challenger 42*	Books Subcommittee
9–11 a.m.	*Columbia 36*	International Activities Group
9–11 a.m.	*Discovery 44*	Journal of Guidance, Control, and Dynamics Editorial Board Meeting
9–11 a.m.	*Discovery 46*	Space and Missiles Group General Meeting
9 a.m.–12 p.m.	*Discovery 43*	Honors and Awards Committee
9:30–11 a.m.	*Discovery 48*	Propulsion & Energy Group Meeting
9:30–11:30 a.m.	*Columbia 35*	GTTC - Wind Tunnel Model Design Guidebook Working Group
10–11 a.m.	*Columbia 37*	Faculty Advisor Panel Discussion
10:30–11:30 a.m.	*Columbia 34*	Aerospace Sciences Group (ASG) Meeting
11 a.m.–12 p.m.	*Plaza Ballroom G*	SciTech 2027 Technical Program Committee Meeting
11 a.m.–12 p.m.	*Discovery 45*	Journal of Spacecraft and Rockets Editorial Board Meeting
11:30 a.m.–1 p.m.	*Discovery 48*	Nuclear and Future Flight Propulsion Technical Committee
12–1:30 p.m.	*Discovery 47*	Astrodynamics/Space Flight Mechanics Technical Administration Subcommittee Committee Meeting
12–1:30 p.m.	*Discovery 46*	Astrodynamics/Space Flight Mechanics Conference Administration Subcommittee Meeting
12–2 p.m.	*Columbia 37*	CTO Lunch (Invite Only)
1–2 p.m.	*Discovery 44*	AIAA Journal Editorial Board Meeting
1–2 p.m.	*Columbia 35*	GTTC/APATC - Integrated (Physical and Digital) Collaborative Experimentation Focus Group
1–3 p.m.	*Plaza Ballroom G*	Integration and Outreach Division
1–6 p.m.	*Plaza Ballroom H*	Regional Leadership Conference (RLC)
2–3 p.m.	*Challenger 42*	Publications Ethical Standards Committee
3–4 p.m.	*Challenger 40*	Journal of Thermophysics and Heat Transfer Editorial Board Meeting
3–5 p.m.	*Discovery 46*	Public Policy Committee
3–5 p.m.	*Columbia 35*	GTTC - Statistical Methods and Uncertainty Quantification Focus Group
3:30–4:30 p.m.	*Windermere Ballroom*	2026 AIAA Dryden Lecture in Research
3:30–5:30 p.m.	*Columbia 36*	V/STOL TC Meeting
4–5 p.m.	*Plaza Ballroom G*	Aviation in Multimodal Transportation Integration and Outreach Committee
4–5:30 p.m.	*Columbia 34*	Survivability Technical Committee
6–7 p.m.	*Blue Spring 1*	Laminar Flow Control (LFC) Discussion Group
6–7:30 p.m.	*Celebration 9*	AIAA V/STOL TC Social Room
6–8 p.m.	*Bayhill 30*	Supersonics IOC
6–8 p.m.	*Blue Spring 2*	Space Automation and Robotics Committee (SARTC)
6–8:30 p.m.	*Hampton Social, Montauk Hall 9101 International Drive, Orlando, FL 32819*	Purdue University Reception for Alumni and Friends
6–9 p.m.	*Bayhill 17*	Intelligent Systems Technical Committee
6:30–8 p.m.	*Boardroom*	Information Command and Control Systems TC Meeting
7–8 p.m.	*Rainbow Spring 2*	Design Engineering Technical Committee (DETC)
7–8 p.m.	*Discovery 45*	Aircraft Technology, Integration, and Operations (ATIO) Group
7–8:30 p.m.	*Celebration 1*	APATC Applied Surrogate Modeling
7–8:30pm	*Rainbow Spring 1*	APATC CFD Transition Modeling Discussion Group

COMMITTEE MEETINGS AND EVENTS

7–8:30 p.m.	*Celebration 6*	Non-Deterministic Approaches Technical Committee
7–8:30 p.m.	*Celebration 3*	FAMU-FSU College of Engineering Reception
7–8:30 p.m.	*Bayhill 32*	Atmospheric and Space Environments Technical Committee Meeting
7–9 p.m.	*Plaza Ballroom D*	Materials Technical Committee Yearly Meeting
7–9 p.m.	*Plaza Ballroom E*	Structural Dynamics Technical Committee Annual Meeting
7–9 p.m.	*Plaza Ballroom G*	Transformational Flight Integration and Outreach Committee
7–9 p.m.	*Celebration 5*	Aeroacoustics Technical Committee Meeting
7–9 p.m.	*Discovery 47*	Aerospace Department Chairs Association
7–9 p.m.	*Celebration 15*	Plasmadynamics and Lasers Technical Committee Meeting
7–9 p.m.	*Celebration 16*	Multidisciplinary Design Optimization Technical Committee
7–9 p.m.	*Barrel Spring 1*	History Committee
7–9 p.m.	*Rock Spring 1&2*	FDTC CFD Subcommittee
7–9 p.m.	*Coral Spring 1*	FDTC FAC Subcommittee
7–9 p.m.	*Coral Spring 2*	FDTC FFP Subcommittee
7–9 p.m.	*Barrel Spring 2*	High Speed Air Breathing Propulsion Technical Committee
7–9 p.m.	*Bayhill 22*	Friends of UC Reception: SciTech 2026
7–9:30 p.m.	*Bayhill 21*	Aerodynamic Measurement Technology Technical Committee Meeting
7–9:30 p.m.	*Bayhill 28*	Electric Propulsion Technical Committee Annual Meeting at SciTech
7–10 p.m.	*Plaza Ballroom F*	Systems Engineering TC Meeting
7–10 p.m.	*Bayhill 33*	Atmospheric Flight Mechanics
7–10 p.m.	*Celebration 11*	Adaptive Structures Technical Committee Meeting
7–10 p.m.	*Columbia 36*	Solid Rockets Technical Committee Meeting
7:30–10 p.m.	*Columbia 34*	Space Exploration Integration and Outreach Committee (SEIC)
7:30–10 p.m.	*Plaza Ballroom H*	Structures Technical Committee Annual Meeting
WEDNESDAY, 14 JANUARY		
9–11 a.m.	*Plaza Ballroom G*	AIAA Publications Committee
9:30–11:30 a.m.	*Discovery 46*	GTTC - IR Thermography Focus Group
11:30 a.m.–1 p.m.	*Regency Q*	Thermophysics Technical Committee
12–1 p.m.	*Columbia 37*	AAS Space Flight Mechanics Technical Committee
12–1 p.m.	*Discovery 43*	Journals Subcommittee
12–1:30 p.m.	*Discovery 46*	Astrodynamics Technical Committee Meeting
12–1:30 p.m.	*Discovery 47*	Space Flight Mechanics Technical Committee Meeting
1–2:30 p.m.	*Discovery 44*	GTTC - Flow Quality Working Group
1–5 p.m.	*Plaza Ballroom G*	Council of Directors Meeting
1:30–3 p.m.	*Discovery 43*	Journals' Editors-in-Chief Meeting
2–3 p.m.	*Regency Q*	Editorial Board Meeting for The Journal of the Astronautical Sciences
4–5 p.m.	*Discovery 43*	Journal of Propulsion and Power Editorial Board Meeting
4–6 p.m.	*Columbia 37*	Thermophysics TC Outreach Session
4:30–6 p.m.	*Regency Ballroom Q*	One Internet of Models – Hands on Keyboards - Istari Moderated Workshop
4:45–6 p.m.	*Columbia 34*	Space Resources Technical Committee Meeting
5–6 p.m.	*Discovery 44*	Flight Testing Technical Committee
5–6:30 p.m.	*Regency R-V HUB*	Corporate Member Happy Hour

COMMITTEE MEETINGS AND EVENTS

5:30–6:30 p.m.	*Discovery 45*	Journal of Aerospace Information Systems Editorial Board Meeting
5:30–7 p.m.	*Discovery 46*	Structures Technical Committee Industry Awareness Working Group - Transverse Shear Stiffness Calculations for FEM Solvers
5:30–8 p.m.	*Challenger 40*	Aerospace Power Systems Technical Committee Meeting
6–7 p.m.	*Challenger 42*	APATC NATO STO Activities DG
6–7 p.m.	*Regency O & P Foyer*	2026 AIAA Associate Fellows Reception
6–8 p.m.	*Celebration 7*	Sensor Systems and Information Fusion TC
6–8 p.m.	*Celebration 5*	AIAA High Lift Prediction Workshop
6–8 p.m.	*Coral Spring 2*	Test and Evaluation Educators Meeting (hosted by Flight Testing TC)
6–8 p.m.	*Columbia 35*	Uncrewed and Autonomous Systems Integration Committee Meeting
6:30–8:30 p.m.	*Florida Ballroom A*	NASA Joint AdvaNced PropUlsion inStitute (JANUS) Poster Session
6:30–9:15 p.m.	*Manatee Spring 2*	Guidance, Navigation, and Control Technical Committee Meeting
6:30–9:30 p.m.	*Manatee Spring 1*	The Ohio State University Mechanical & Aerospace Engineering Reception
7–8:30 p.m.	*Blue Spring 1*	Certification by Analysis CoI Challenge Discussion Group
7–9 p.m.	*Plaza Ballroom H*	Pressure Gain Combustion Technical Committee Meeting
7–9 p.m.	*Bayhill 29*	Meshing, Visualization, and Computational Environments (MVCE) TC Meeting
7–9 p.m.	*Plaza Ballroom G*	FDTC Plenary Meeting
7–9:30 p.m.	*Celebration 1*	Spacecraft Structures (SCS) TC Annual Meeting
7–10 p.m.	*Regency O & P*	2026 AIAA Associate Fellows Induction Ceremony and Dinner
THURSDAY, 15 JANUARY		
8–9 a.m.	*Challenger 40*	GTTC - Aerospace R&D Workforce Challenges Focus Group
9–11 a.m.	*Challenger 42*	GTTC - Industry Test Facilities Focus Group
9–11 a.m.	*Columbia 37*	Applied Aerodynamics Weapons Bay Store Separation Workshop
9:30–11 a.m.	*Plaza Ballroom H*	Young Professional Group Meeting
9:30–11:30 a.m.	*Regency Q*	Guidance, Navigation, and Control Plenary and Social
12–1 p.m.	*Columbia 37*	FDTC Uncertainty Quantification in Fluid Dynamics DG
12–1:30 p.m.	*Regency Ballroom Q*	Astrobee Commercial Return to Flight
1–3 p.m.	*Challenger 42*	GTTC - Data Systems Focus Group
2–5 p.m.	*Plaza Ballroom H*	Human Machine Teaming Technical Committee
2:30–4 p.m.	*Regency O & P*	Beyond the Cockpit: Human Centered Aerospace Design
3–4:30 p.m.	*Columbia 35*	GTTC - Additive Manufacturing Focus Group
3:30–4:30 p.m.	*Challenger 40*	Space Logistics Technical Committee Meeting
4–5 p.m.	*Challenger 42*	Aerospace Cyber Working Group Meeting
5:30–6:30 p.m.	*Plaza Ballroom H*	Small Satellite Technical Committee SciTech Meeting
5:30–8:30 p.m.	*Plaza Ballroom G*	Ground Testing Technical Committee (GTTC) Closeout Meetings
6–9 p.m.	*Regency O & P*	USAF DTO DMM: Collaborative Open Digital Ecosystem Workshop
6:30–8 p.m.	*Regency Q*	Pressure Gain Combustion Technical Committee Social Night
6:30–8:30 p.m.	*Celebration 2*	Integrated Collaborative Experimentation (ICE) Focus Group TAG-1
7–9 p.m.	*Columbia 36*	Modeling and Simulation Technical Committee
7–9 p.m.	*Challenger 42*	Software Technical Committee Meeting
7–9:30 p.m.	*Orlando Ballroom M*	TAMU AeroConnect Social Mixer

RECOGNITION

AIAA is committed to ensuring that aerospace professionals are recognized and celebrated for their achievements, innovations, and discoveries that make the world safer, more connected, more accessible, and more prosperous. From the major missions that reimagine how our nation utilizes air and space to the inventive new applications that enhance everyday living, aerospace professionals leverage their knowledge for the benefit of society. AIAA continues to celebrate that pioneering spirit showcasing the very best in the aerospace industry.

AIAA AWARDS RECOGNITION CEREMONY

MONDAY, 12 JANUARY

5:30–7 p.m. | Windermere Ballroom.

Please join us to celebrate and recognize the distinguished awardees and best papers authors in this special event.

This is a free event; registration is not required.

CLASS OF 2026 AIAA ASSOCIATE FELLOWS INDUCTION CEREMONY

(Ticketed Event)

WEDNESDAY, 14 JANUARY

Reception: 6–7 p.m. | Foyer Outside Regency O & P Ballroom

Dinner: 7:15 p.m. | Regency O & P Ballroom

Each year, the Institute recognizes exemplary professionals for their accomplishments in engineering or scientific work, outstanding merit and contributions to the art, science, or technology of aeronautics or astronautics. Join us to congratulate the Class of 2026 Associate Fellows at this annual celebration event.

Admission to the reception, dinner, and induction ceremony is available on a first-come, first-served basis and can be purchased for $145 via the AIAA SciTech Forum registration webpage, or onsite (based on availability). Proof of purchase for the event is required. Dress is business attire or semi-formal.

AIAA would like to thank the following organizations for their generous support to the AIAA Associate Fellows Induction Ceremony.

LOCKHEED MARTIN

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AEROSPACE

BAE SYSTEMS

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EMBRY-RIDDLE Aeronautical University

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NORTHROP GRUMMAN

PREMIER LECTURES

Admission to these lectures does not require AIAA SciTech Forum registration.

2026 AIAA Durand Lecture for Public Service

MONDAY, 12 JANUARY

3:30–4:30 p.m. | Windermere Ballroom

The Durand Lectureship for Public Service is presented for notable achievements by a scientific or technical leader whose contributions have led directly to the understanding and application of the science and technology of aeronautics and astronautics for the betterment of humanity.

Brian M. Argrow, Distinguished Professor and Glenn L. Murphy Endowed Chair, Ann and H.J. Smead Department of Aerospace Engineering Sciences; Director, Integrated Remote & In Situ Sensing Program (IRISS), University of Colorado Boulder.

Lecture: **"Aerospace Engineering for Science and Public Safety: Aerial Robots to Explore Tornadogenesis"**

2026 AIAA Dryden Lecture in Research

TUESDAY, 13 JANUARY

3:30–4:30 p.m | Windermere Ballroom

The AIAA Dryden Lectureship in Research emphasizes the great importance of basic and applied research to the advancement in aeronautics and astronautics and is a salute to research scientists and engineers.

Thomas C. Corke, Clark Chair Professor of Engineering, University of Notre Dame

Lecture: **"Active Drag Reduction with Net Power Savings in Turbulent Boundary Layers – Physics and Scaling"**

EDUCATION AWARD

This award was established by AIAA Honorary Fellow Abe Zarem, founder and managing director of Frontier Associates, to annually recognize graduate students in aeronautics and astronautics who have demonstrated outstanding scholarship in their field.

2025 Abe M. Zarem Graduate Award for Distinguished Achievement in Aeronautics

Luke Busse, University of Cincinnati

Multi-Sensor Based Adaptive Fusion Scheme for Position Estimation of Multirotor UAV Systems in GPS-Denied Environments

Faculty Advisor: **Manish Kumar**, University of Cincinnati

2025 Abe M. Zarem Graduate Award for Distinguished Achievement in Astronautics

Patrick Eid, Auburn University

Evolution of the Bidirectional Vortex in a Capped Ellipsoidal Cyclonic Rocket Engine

Faculty Advisor: **Joseph Majdalani**, Auburn University

RECOGNITION

LITERARY AWARDS

2026 AIAA Elementary Children's Literature Award

This award is presented for an outstanding, significant, and original contribution in aeronautics and astronautics literature for youth.

Lauren Sánchez Bezos

Book: *The Fly Who Flew to Space*

2026 AIAA Gardner-Lasser Aerospace History Literature Award

This award is presented for the best original contribution to the field of aeronautical or astronautical nonfiction literature published in the last five years dealing with the science, technology, and/or impact of aeronautics or astronautics on society.

Sean Seyer, University of Kansas

Book: *Sovereign Skies: The Origins of American Civil Aviation Policy*

SERVICE AWARDS

2025 AIAA Faculty Advisors Award

This award is presented to the officially recognized faculty advisor of a chartered AIAA Student Branch who, in the opinion of student branch members and the AIAA Regional Engagement Activities Division, has made outstanding contributions as a student branch faculty advisor, as evidenced by the record of his or her student branch in local, regional, and national activities.

Mohammad Ayoubi, Santa Clara University

Wout De Backer, University of South Carolina

Danilo de Camargo Branco, Florida Institute of Technology

Michael Denn, Southern Illinois University at Edwardsville

Mostafa Hassanalian, New Mexico Institute of Mining and Technology

Arif Malik, University of Texas Dallas

2025 AIAA Outstanding Section Award

Very Small Size Category: **Delaware Section**

Small Size Category: **Illinois Section**

Medium Size Category: **San Diego Section**

Large Size Category: **Saint Louis Section**

Very Large Size Category: **Los Angeles Section**

2026 AIAA Sustained Service Award

This award is presented to recognize sustained and significant service to AIAA and who has shown continuing dedication to the interests of the Institute by making significant and sustained contributions

Melissa Carter, NASA Langley Research Center
For sustained leadership, service, and contributions to the Hampton Roads Section, Region I, and AIAA national as HRS officer, technical committee member, conference organizer, and conference session chair.

David Casbeer, Air Force Research Laboratory
For leadership advancing AIAA's focus on autonomy and intelligent systems in aerospace.

Wayne Hurwitz, Northrop Grumman Aeronautics Systems
For sustained leadership and dedicated service to AIAA at the national level through significant contributions to Corporate Membership advocacy, the Air Breathing Propulsion TC, Propulsion & Energy Group, TAD leadership, and the Ethics Committee.

Elizabeth Lee-Rausch, NASA Langley Research Center
For sustained leadership, service, and contributions at the section and national levels as a Hampton Roads Section officer, Integration subcommittee leader, and journal associate editor.

Michael Oppenheimer, Air Force Research Laboratory
For sustained leadership, service, and contributions to the Dayton/Cincinnati Section, Region III, and AIAA national.

Kerri Phillips, Johns Hopkins University Applied Physics Laboratory
For sustained leadership and service through Technical, Ethics, and Public Policy Committees; the AIAA DEFENSE Forum Executive Steering Committee; and outreach at the section, regional, and national levels of AIAA.

Joshua Rovey, University of Illinois
For sustained leadership, service, and contributions to the Illinois Section, Region III, and AIAA national.

Todd Treichel, Sierra Space
For exemplary leadership, dedicated service, and significant contributions to the Wisconsin Section, Region III, and the AIAA national organization.

TECHNICAL EXCELLENCE AWARDS

2026 AIAA Aerodynamic Measurement Technology Award

This award is presented for continued contributions and achievements toward the advancement of advanced aerodynamics flowfield and surface measurement techniques for research in flight and ground test applications.

Mark P. Wernet, NASA Glenn Research Center

For the continued advancement of LDV, PIV, Raman thermometry, and real-time BOS technology into facility-hardened techniques that provide validation data for CFD assessment.

2026 AIAA Aerospace Guidance, Navigation and Control Award

This award is presented to recognize individuals that have made important and substantial contributions in the field of guidance, navigation and control.

Kathleen Howell, Purdue University

For seminal contributions to the theory and practice of the trajectory design and operation of spacecraft in the Earth-moon system.

2026 AIAA Aerospace Power Systems Award

This award, established in 1981, is presented for a significant contribution in the broad field of aerospace power systems, specifically as related to the application of engineering sciences and systems engineering to the generation, storage, management, and distribution of electrical energy to aerospace power systems.

Jeffrey Hojnicki, NASA Glenn Research Center (retired)

For exceptional technical contributions in spacecraft power systems analysis and for outstanding leadership in the design of photovoltaic power systems for multiple human spaceflight programs.

RECOGNITION

2026 AIAA Air Breathing Propulsion Award

This award is presented to an individual for sustained, meritorious accomplishment in the arts, sciences, and technology of air breathing propulsion systems.

Eric J. Ruggiero, GE Aerospace

For shaping propulsion technology starting with fundamental research in cooling features of gas turbines leading to product development of propulsion systems for advanced military platforms.

2026 AIAA Atkinson-Ball Survivability Award

This award is presented to an individual to recognize outstanding achievement or contribution in design, analysis, implementation, and/or education of survivability in an aerospace system.

Timothy L. Williams, Boeing Defense, Space, and Security

For visionary leadership advancing multi-domain platform survivability, integrating resilient technologies across global defense systems, and shaping the next generation of aerospace engineers through mentorship & innovation.

2026 AIAA de Florez Award for Flight Simulation

This award is presented for an outstanding individual achievement in the application of flight simulation to aerospace training, research, and development.

E. Bruce Jackson, Adaptive Aerospace Group, Inc.

For leading standards for check-cases and model exchange of six-degree-of-freedom simulations, and for developing software frameworks for crew training, handling qualities, and vehicle subsystems development.

2026 AIAA Energy Systems Award

This award is presented for a significant contribution in the broad field of energy systems, specifically as related to the application of engineering sciences and systems engineering to the production, storage, distribution, and conservation of energy.

Kemal Hanjalić, Delft University of Technology, University of Sarajevo, Bosnia and Herzegovina

For pioneering and outstanding contribution to the modelling of turbulent flows, heat, mass transfer, and its application for the advancement of energy and process technologies.

2026 AIAA Intelligent Systems Award

This award is presented to recognize important fundamental contributions to intelligent systems technologies and applications that advance the capabilities of aerospace systems.

Mary "Missy" Louise Cummings, George Mason University

For outstanding and sustained contributions to human supervision and control of intelligent autonomous aerospace vehicles.

2026 AIAA Mechanics and Control of Flight Award

This award is presented for an outstanding recent technical or scientific contribution by an individual in the mechanics, guidance, or control of flight in space or the atmosphere.

Michael Bolender, Air Force Research Laboratory, AFRL/RQQA

For outstanding contributions to the development of control-oriented models and flight control methods for air-breathing hypersonic vehicles, which serve as the foundation of many computational models used in research and industry.

2026 AIAA Microgravity and Space Processes Award

This award is presented for significant contributions in microgravity science, space processing, or in furthering the use of microgravity for space processing.

Steven Collicott, Purdue University

For unique leadership in research, advocacy, and education supporting spaceflight activities in ISS, commercial sub-orbital rockets, parabolic flights, drop-towers, and commercial satellites.

2026 AIAA Propellants and Combustion Award

This award is presented for outstanding technical contributions to aeronautical or astronautical combustion engineering.

Fokion Egolfopoulos, University of Southern California

For outstanding contributions in studies of flames, including flame theory and fundamental flame property measurements and simulations especially at engine-relevant conditions.

2026 AIAA Wyld Propulsion Award

This award is presented for outstanding achievement in the development or application of rocket propulsion systems.

Vladimir J. Hruby, Busek Co. Inc.

In recognition of outstanding technical contributions in the field of spacecraft electric propulsion, and foundational influence on the industry.

RECOGNITION

STUDENT PAPER COMPETITIONS

Winners will be announced on Friday, 16 January, during the plenary session. | Windermere Ballroom

- Aerospace Design and Structures Group
  - American Society for Composites Student Paper Award
  - Jefferson Goblet Student Paper Award
  - Lockheed Martin Student Paper Award in Structures
  - Non-Deterministic Approaches
  - Harry H. and Lois G. Hilton Student Paper Award in Structures
  - SwRI Student Paper Award in Non-Deterministic Approaches
- Walter R. Lempert Student Paper Award in Diagnostics for Fluid Mechanics, Plasma Physics, and Energy Transfer
- Atmospheric Flight Mechanics
- Cybersecurity
- Prof. Kirti "Karman" Ghia Memorial Award, Fluid Dynamics
- Gravity Dependent Science and Technology
- Guidance, Navigation, and Control
- Intelligent Systems
- Meshing, Visualization, and Computational Environments
- Modeling and Simulation Technologies
- Non-Deterministic Approaches
- Plasmadynamics and Lasers
- Sensor Systems and Information Fusion
- Small Satellites
- Terrestrial Energy Systems
- Uncrewed and Autonomous Systems
- Vertical/Short Take-Off and Landing (V/STOL) Aircraft Systems

BEST PROFESSIONAL PAPERS

2025 AIAA Gas Turbine Engines Best Paper

"An Analysis of Stall Characteristics in a Transonic Axial Compressor" (AIAA 2025-2621)

Authors: **Darius V. Ahmadi**, **Walter C. Smith**, **Anthony J. Gannnon**, **Garth V. Hobson**, Naval Postgraduate School

2025 AIAA Liquid Propulsion Best Paper

"Development of Laser Powder Bed Fusion NASA HR-2 for Hydrogen Sensitive Liquid Rocket Engine Applications" (AIAA 2025-2639)

Authors: **Po S. Chen**, **Benjamin L. Rupp**, **Colton C. Katsarelis**, **Ching H. Su**, **Diana. Y. Andreev**, and **Abram G. Culver**, NASA Marshall Space Flight Center

2025 AIAA Collier Aerospace HyperX/AIAA Structures Best Paper

"Digital Twins of Additive Manufacturing Parts for Fatigue Life Prediction" (AIAA-2025-0195)

Authors: **Xueyong Qu**, **Leland Shimizu**, **Jacob Rome**, **Vinay Goyal**, The Aerospace Corporation

2025 AIAA Aerospace Power Systems Best Paper

"A Non-Nuclear, Solar Powered Mission to Uranus Utilizing the PowerSail - a Large Solar Sail with embedded Solar Cells" (AIAA 6.2025-2544)

Authors: **John A. Carr**, **Herbert Thomas**, **Mike Baysinger**, **Thomas Brooks**, **Leo Fabisinski**, **Benjamin Diedrich**, **Jay Garcia**, **Michael Benfield**, **Les Johnson**, **Peter Capizzo**, NASA Marshall Space Flight Center

2025 AIAA Atmospheric Flight Mechanics Best Paper Award

"Auto-Tuned Primal-Dual Successive Convexification for Hypersonic Reentry Guidance" (AIAA-2025-1317)

Authors: **Skye Mceowen**, **Daniel J. Calderone**, **Arman Tiwari**, **Jason S. Zhou**, **Taewan Kim**, **Purnanand Elango**, **Behcet Acikmese**, University of Washington

2025 AIAA Spacecraft Structures Best Paper

"Curved-Crease Origami Wrapping of Doubly Curved Shells Using Coupled Dynamic Relaxation" (AIAA-2025-0618)

Authors: **Alexandra Haraszti**, **Manan Arya**, Stanford University

2025 AIAA Best Electric Propulsion Paper

"Swirl Torque Projections for the 12 kW Advanced Electric Propulsion System (AEPS) Hall Thruster" (AIAA-2025-0066)

Authors: **Vernon H. Chaplin**, **Alejandro Lopez Ortega**, **Matthew P. Byrne**, **Ioannis G. Mikellides**, Jet Propulsion Laboratory, California Institute of Technology

2025 AIAA Best Paper in Aerodynamic Measurement Technology

"Modification of Mach 6 Freestream Flow by Pitot Probe Bow Shock as Measured by Line FLDI and SAFS" (AIAA-2025-2179)

Authors: **Joshua M. Weisberger**, **Gregory C. Herring**, **Wayne E. Page Jr.**, **Brett F. Bathel**, NASA Langley Research Center

2025 AIAA GNC Technical Committee Best Paper Award

"Model Predictive Tracking Guidance Applied to Planetary Entry and Powered Descent" (AIAA-2025-2599)

Authors: **Christopher Davami**, **Ping Lu** and **Aaron J. Rosengren** (University of California San Diego), San Diego State University

2025 AIAA High Speed Air Breathing Propulsion Best Paper

"Computational Investigation of Unsteady Shock Motion in an Isolator-Diffuser Flow Path" (AIAA 2025-0093)

Authors: **Spencer L. Stahl**, **Stuart Benton**, Aerospace System Directorate of AFRL

2025 AIAA Inlets, Nozzles, and Propulsion Systems Integration Best Paper

"Use of Non-intrusive Flow Diagnostics for Aero-Engine Inlet Flow Distortion Measurements in an Industrial Wind-tunnel" (AIAA 2025-2111)

Authors: **Tommaso Piovesan**, **Pavlos K. Zachos**, **David MacManus**, **Dirk Michaelis**, **Bart van Rooijen**, **Christopher Sheaf** and **Dimitris Arzoglou**, Cranfield University

2025 AIAA Intelligent Systems Award

"Reinforcement-Learning-Based Cooperative Dynamic Weapon-Target Assignment in a Multiagent Engagement" (AIAA 2025-1546)

Authors: **Gleb Merkulov**, **Eran Iceland**, **Shay Michaeli**, **Oren Gal**, **Ariel Barel**, **Tal Shima**, Technion – Israel Institute of Technology

2025 AIAA Multidisciplinary Design Optimization Technical Committee Best Paper

"Design of Electric Aircraft Battery Packs Embedded with Phase-Change Material via Level Set Topology Optimization" (AIAA 2025-0969)

Authors: **Alexandre Guibert**, **Murtaza Bookwala**, **H. Alicia Kim**, University of California San Diego

2025 AIAA Modeling and Simulation Technologies Best Paper Award

"Effects of Turbulence Intensity and Variability on Biodynamic Feedthrough Modeling in Touchscreen Dragging Tasks" (AIAA 2025-0976)

Authors: **Giulia Leto**, **Daan M. Pool**, Delft University of Technology

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RECOGNITION

2025 AIAA Plasmadynamics and Lasers Best Paper (2025)
"Hypersonic wake velocity measurements using acetone molecular tagging velocimetry" (AIAA 2024-4587)

Authors: **Angelina Andrade**, **Chad O. Willamson**, **Nicholas W. Stegmeier**, **Kevin R. Posladek**, **Nathan S. Strasser**, **Christopher S. Combs**, The University of Texas at San Antonio; **W. Lawton Shoemake**, **Christopher L. Hall**, **Kristopher T. Olshefski**, **Nicole F. Nutter**, **Ryan S. Glasby**, Oak Ridge National Laborator, University of Texas at San Antonio

2025 AIAA Propellants and Combustion Best Paper Award
"Numerical Simulations of Non-Ideal Spray Detonations in Jet Fuels with a Shock-Droplet Interaction Model" (AIAA-2025-0388)

Authors: **Sai Sandeep Dammati**, **Alexei Poludnenko**, **Nikolaos Kateris**, **Wendi Dong**, **Hai Wang**, **Tianfeng Lu**, University of Connecticut School of Mechanical, Aerospace, and Manufacturing Engineering

AIAA Software Technical Committee Best Paper
"Error-Driven Design of AI-based Systems for Airborne Applications" (AIAA 2025-2673)

Authors: **Umut Durak**, **Jasper Sprockhoff**, **Alexander Ahlbrecht**, **Siddartha Gupta**, **Trung T. Pham** (Federal Aviation Administration), German Aerospace Center (DLR), Institute of Flight Systems, Braunschweig, Germany

2025 AIAA Shahyar Pirzadeh Memorial Award
"Scalable Mesh Generation with Refinement Patterns via high-order basis" (AIAA 2025-0783)

Authors: **Travis W. Drayna**, **Daniel E. Pekurovsky**, **Anthony L. Knutson**, **Graham V. Candler**, University of Minnesota

2025 AIAA Small Satellite Best Paper
"Mission Concept Development for the TERP RAPTOR (Terrapin Engineered Rideshare Probe for Rapid-response Asteroid Apophis Profiling, Tracking, Observing, and Reconnaissance)" (AIAA-2025-1401)

Authors: **Brent W. Barbee**, **Adrienne Rudolph**, **Cameron Storey**, **Chinthan Prasad**, **Kruti Bhingradiya**, **Rahul Vishnoil**, **Ryan Mahon**, **Sean Phillips**, **David A. Akin**, **Mary Bowden**, **Jarred Young**, University of Maryland

2025 AIAA SciTech Solid Rockets Technical Committee Best Paper
"Modeling Three-Dimensional Effects and Nozzle Heat Transfer in Aft-Finocyl Solid Rocket Motors" (AIAA 2025-2331)

Authors: **Daniele Bianchi**, **Marco Grossi**, **Gianluca Cocirla**, Bernardo Favini Sapienza Universita di Roma

2025 AIAA Terrestrial Energy Systems Best Paper Award
"Computational Design of Near-Critical Liquefaction Reactor towards Process Intensification" (AIAA 2025-0206)

Authors: **Erhan Arslan**, **Kiran Raj Goud Burra**, **Ashwani K. Gupta**, University of Maryland

2025 AIAA V/STOL Best of Sessions Paper
"Integrating Aircraft Performance in Traffic Flow Management Analysis for Advanced Air Mobility" (AIAA-2025-3637)

Authors: **Victoria R Gonzalez**, **Jacqueline Huynh**, University of California Irvine

BEST STUDENT PAPERS

2025 AIAA Aerospace Power Systems - Best Student Paper
"Towards Kardashev-Scale Type I of Human Advancement in Technological Civilization: An Innovative Solar Annular System for Energy Harnessing" (AIAA 6.2025-2028)
Authors: **Arash Safaei**, **Benedetta Marazzato**, **Matteo Davide Lorenzo Della Vedova**, **Paolo Maggiore**, **Politecnico di Torino**

2025 AIAA Atmospheric Flight Mechanics Student Paper Competition
"Reduced Order Modeling of an Entry Capsule from Simulated Ballistic Range Trajectories" (AIAA 2025-2010)
Authors: **Hayden V. Dean**, **Christian Perron**, **Bradford E. Robertson**, **Dimitri N. Mavris**, Georgia Institute of Technology

2025 AIAA Plasmadynamics and Lasers Best Student Paper
"Altitude-Optimised Magnetic Field Strength for Enhanced Magnetohydrodynamic Aerobraking During Venus Entry" (AIAA-2025-2653)
Authors: **Sebastiaan B. van Oeveren**, **David E. Gildfind**, **Vincent Wheatley**, **Rowan Gollan**, Centre for Hypersonics, School of Mechanical and Mining Engineering, University of Queensland [Student Paper Competition]

2025 AIAA Sensor Systems and Information Fusion Best Paper Award
"Understanding the Impact of Unobservable Variables on the Performance of Predictive Models: The Need for Feature Space Partitioning and Fusion" (AIAA 2025-0435)
Authors: **Ezequiel Juarez Garcia**, **Chad L. Stephens**, NASA Langley Research Center; **Nicholas J. Napoli**, University of Florida. (Gainesville, FL)

2025 AIAA Solid Rockets Technical Committee Best Student Paper
"Closed-Form Analytical Solutions for Various Thermoacoustic Properties in Rijke Tubes with Different Endpoint Conditions" (AIAA 2025-2332)
Authors: **Cody Shelton**, **Joe Majdalani**, Auburn University [Student Paper Competition]

2025 AIAA Walter Lempert Best Paper Award
"Time-Resolved Plasma Density Measurements in a Fluorescent Tube Using Microwave Interferometry by Radar REMPI" (AIAA 2023-0797)
Authors: **Christopher Grunbok**, **Arthur Dogariu**, **Richard B. Miles**, Texas A&M University, [Student Paper Competition]

2025 AIAA Walter Lempert Best Paper Award - Honorable Mention
"Measurements of NO Rotational and Vibrational Temperatures, Partial Pressure, and Velocity in Hypersonic Shock Tunnel Flows" (AIAA 2025-0012)
Authors: **Jonathan Gilvey**, **Christopher S. Goldenstein**, Purdue University; **Elijah Jans**, **Bradley Lyon**, **Charley Downing**, **Kyle P. Lynch**, **Justin L. Wagner**, Sandia National Laboratories [Student Paper Competition]

2025 AIAA Walter Lempert Best Paper Award - Honorable Mention
"Flame Structure, Spray, and Blowout of a Lean Premixed Prevaporized Combustor With Conventional and Sustainable Jet Fuels" (AIAA 2025-0791)
Authors: **Ari Jain**, **Ijeoma Obi**, **Yi C. Mazumdar**, **Adam M. Steinberg**, Georgia Institute of Technology; **Victor Salazar**, **Meenakshi Kodali**, **Krishna Venkatesan**, GE Aerospace [Student Paper Competition]

GENERAL INFORMATION

AIAA Registration Hours

Registration is in the Regency Rotunda at the Hyatt Regency Orlando.

SUN, 11 JAN	3–7 p.m.
MON, 12 JAN	7 a.m.–5:30 p.m.
TUES,13 JAN	7 a.m.–5:30 p.m
WED, 14 JAN	7 a.m.–5:30 p.m
THUR, 15 JAN	7 a.m.–5:30 p.m
FRI, 16 JAN	7 a.m.–3 p.m

Student Lounge Hours

An exclusive, students-only place to unwind, connect, and relax. Location in the Regency Rotunda near registration. Student Lounge open to students beginning Monday, 12 January, 9 a.m. through Thursday, 15 January at 6 p.m.

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Committee Lounge

An exclusive room available for members of AIAA Technical or Integration Committees to use for meetings, taking phone calls or just to relax. Open beginning Sunday, 11 January, 12 p.m through Friday, 16 January, 12 p.m. Location: Challenger 39

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AIAA provides limited Wi-Fi service for attendees to use while onsite. To keep this service available and optimized for all attendees, please do not download files larger than 2MB, create multiple sessions across multiple devices, or download multiple files in one session. If you receive an error message that an AIAA server is blocking your current IP address, please inform the AIAA registration desk. **Staying at the Hyatt Regency? Please use the Wi-Fi information provided to you upon check-in.**

Network Name: **SciTech26** Password: **L3Harris**

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Proceedings for the forum will be available online. The cost is included in the registration fee where indicated. Online proceedings will be available for viewing and downloading around **11 January 2026**. Please follow the instructions below to access the proceedings:

1. To view proceedings visit **aiaa.org** >ARC>Meeting Papers.
   a. Log in with the link at the top right of the page.
   b. Select the appropriate forum from the list.
   c. **Search for individual papers** with the **Quick Search** toolbar at the top of the page:
      i. By paper number, click on the "Anywhere" dropdown and select "Find by paper," select the forum year, and enter the paper number.
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2. Corrections **will be available online** approximately 15 business days after the last day of the conference.

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Authors who are presenting papers will meet with session chairs and co-chairs in their session rooms for a short 30-minute briefing on the day of their sessions to exchange bios and review final details prior to the session. Please attend on the day of your session(s). Laptops preloaded with the Speakers' preparation slides will be provided in each session room. Speakers' Prep will be held, **12-16 January, 7:30 a.m.**

Speaker Ready Room

Speakers who wish to practice their presentations may do so in the **Planning Office B**, convention level behind the registration desk. A sign-up sheet will be posted on the door.

Session Chair Reports

All session chairs are asked to complete a session chair report to evaluate their session for future planning purposes, including session topics and room allocations. Please submit your session chair report electronically following your session, or no later than **Wednesday, 21 January.**

Audiovisual

Each session room will be preset with the following: Laptop computer, LCD projector, screen, microphone and sound system (if necessitated by room size), and a laser pointer. You may use your own laptop if you wish. Any additional audiovisual equipment requested onsite will be at cost to the presenter. Please note that AIAA does not provide security in the session rooms and recommends that items of value not be left unattended.

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If a written paper is not submitted by the final manuscript deadline, authors will not be permitted to present the paper at the forum. It is also the responsibility of those authors whose papers or presentations are accepted to ensure that one of the authors attends the forum to present the paper. If a paper is not presented at the forum, it will be withdrawn from the forum proceedings. These policies are intended to eliminate no-shows, to improve the quality of the forum for all participants, and to ensure that the published proceedings accurately represent the presentations made at a forum.

Journal Publication

Authors of appropriate papers are encouraged to submit them for possible publication in one of the Institute's archival journals: *AIAA Journal; Journal of Aerospace Information Systems; Journal of Air Transportation; Journal of Aircraft; Journal of Guidance, Control, and Dynamics; Journal of Propulsion and Power; Journal of Spacecraft and Rockets; or Journal of Thermophysics and Heat Transfer.* You may now submit your paper online at **http://mc.manuscriptcentral.com/aiaa**. Find out more at AIAA-13, The Divide between Acceptance and Rejection of a Journal Article, Thursday, 15 January, 1-3 p.m., in Plaza Ballroom G.

EXHIBITOR LISTING

Alphabetical Order

Booth	Company
K7	ABC Sheet Metal
532	Advanced Cooling Technologies, Inc.
524	Advanced Test Equipment Rentals
401	Air Force Research Laboratory
519	Anduril Industries, Inc.
531	Ansys, Part of Synopsys
K9	BeyondMath
K0	BLOOMY
301	Boeing Company
306	Cadence
111	Calspan Corporation
411	Caltech & JPL
133	Cambridge University Press
106	Carnegie Mellon University Software Engineering Institute
533	CFturbo, Inc.
425	Collier Aerospace - Hyper X
100	Convergent Science
110	Cornell University Sibley School of Mechanical and Aerospace Engineering
310	CUBRC
421	Dantec Dynamics, Inc.
316	Dewesoft LLC
232	dSPACE
K5	Dynamic Systems Inc (Gleeble)
200	Embry-Riddle Aeronautical University
501	Enduralock
208	Ennova Technologies Inc.
315	ESTECO
313	Eurofins EAG Laboratories
215	Evolution Measurement Inc
311	Exosens/Telops
600	Experimental Sounding Rocket Association (ESRA)
540	FAMU-FSU College of Engineering
K2	Fathom Manufacturing LLC
221	Flexcompute
528	Florida Institute of Technology
318	Force Measurement Systems Inc.
234	GE Aerospace
427	General Atomics Aeronautical Systems, Inc.
K6	GridPro
410	Hadland Imaging
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207	Hexagon
320	IC2 (Interdisciplinary Consulting Corp)
441	Image Systems TrackEye Inc
409	IMTS – The International Manufacturing Technology Show (IMTS 2026)
138	Iowa State University, Department of Aerospace Engineering
220, K10	Istari Digital
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130	Johns Hopkins University Engineering for Professionals
131	JuliaHub
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141	LabAM24 Co., Ltd
209	LaVision, Inc.
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201	Lockheed Martin Corporation
518	Los Alamos National Laboratory
206	Luminary Cloud, Inc.
212	M4 Engineering, Inc.
437	MathWorks
414	Metacomp Technologies
529	Mississippi State University; Department of Aerospace Engineering
340	NASA
506	National Academies of Sciences, Engineering, and Medicine
534	Navier AI
211	ND Power & Propulsion
241	North Carolina State University - Mechanical and Aerospace Engineering
119	North Wind
125	Northrop Grumman
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525	SIAM
535	Siemens Industry Software, Inc.
527	Sift
K4	SPEC Innovations
K1	Specialised Imaging, Inc.
515	Specter Aerospace
210	Tactical Air Support Inc.
408	Tecplot, inc.
137	Tekna
219	Texas A&M Turbomachinery Laboratory
217	ThermAvant Technologies
500	THINKY USA
108	Tibidabo Scientific Industries
309	Tri Models Incorporated
530	Tutco SureHeat
433	University of Alabama in Huntsville Propulsion Research Center
502	University of Central Florida
K8	University of Florida Mechanical & Aerospace Engineering
135	University of Illinois Urbana - Champaign
412	University of Maryland - Department of Aerospace Engineering
431	University of North Dakota
517	University of Texas at Austin - Aerospace Engineering and Engineering Mechanics Department
509	Utah State University
419	VirtusAero, LLC
314	Volcano Platforms Inc
508	VulcanForms
132	Western Michigan University
107	ZEISS Industrial Quality Solutions
407	Zuken Vitech Inc.
109	Zulu Pods

Booth Order

Booth	Company
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106	Carnegie Mellon University Software Engineering Institute
107	ZEISS Industrial Quality Solutions
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110	Cornell University Sibley School of Mechanical and Aerospace Engineering
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517	University of Texas at Austin - Aerospace Engineering and Engineering Mechanics Department
518	Los Alamos National Laboratory
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526	PCB Piezotronics, Inc.
527	Sift
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529	Mississippi State University; Department of Aerospace Engineering
530	Tutco SureHeat
531	Ansys, Part of Synopsys
532	Advanced Cooling Technologies, Inc.
533	CFturbo, Inc.
534	Navier AI
535	Siemens Industry Software, Inc.
536	SH Scientific Corporation
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600	Experimental Sounding Rocket Association (ESRA)
K0	BLOOMY
K1	Specialised Imaging, Inc.
K2	Fathom Manufacturing LLC
K3	JKI
K4	SPEC Innovations
K5	Dynamic Systems Inc (Gleeble)
K6	GridPro
K7	ABC Sheet Metal
K8	University of Florida Mechanical & Aerospace Engineering
K9	BeyondMath
K10	Istari Digital

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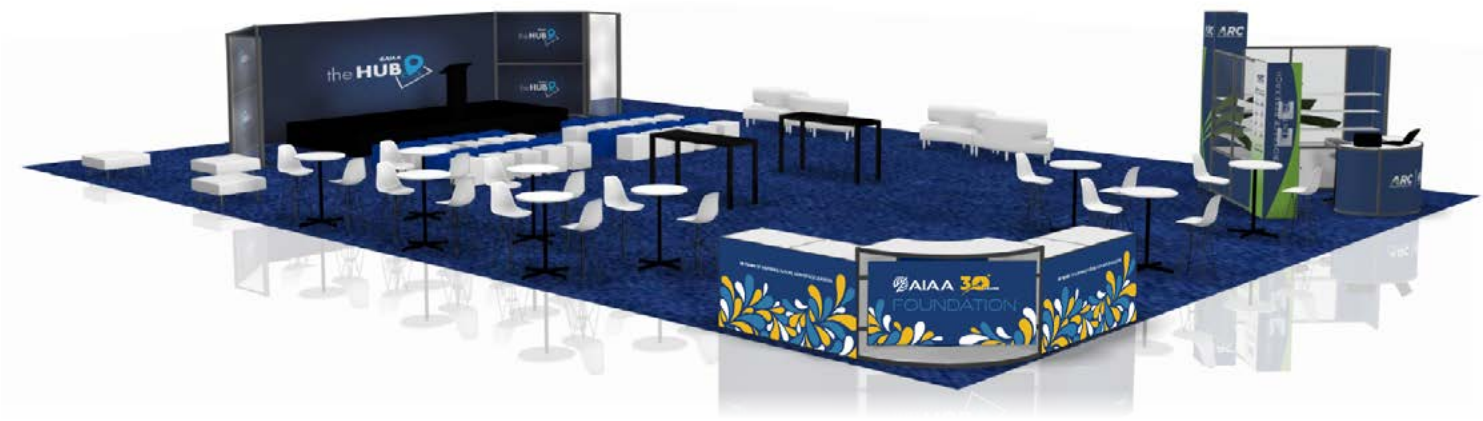


EXHIBITORS

ABC Sheet Metal — K7

www.abcsheetmetal.com

ABC Sheet Metal is utilizing the latest equipment available in the industry, such as water jet, laser and other cutting edge technology. Coupled with heavy plate capabilities and certified welding services, we are proud to bring you more than 130 years of diverse experience in the custom sheet metal fabrication business. From high volume production to prototypes, no job is too big or too small.

Advanced Cooling Technologies, Inc. — 532

www.1-act.com

Advanced Cooling Technologies, Inc. (ACT) is a premier thermal management solutions company, focusing on custom applications of two-phase heat transfer technology.

Started in 2003 as an R&D company, ACT has grown into a leading manufacturer of thermal management products for diverse industries and applications. Our thermal management designs and products are deployed in numerous commercial satellites, military vehicles, medical devices and imaging equipment, Primary Calibration equipment, and HVAC systems.

Advanced Test Equipment Rentals — 524

www.atecorp.com

Advanced Test Equipment Corporation is a provider of test, measurement, inspection & environmental equipment on short-term and long-term rentals. Established in 1981, ATEC has years of experience and services clients worldwide. ATEC maintains a vast inventory of test and measurement solutions to support your immediate testing requirements, with the ability to ship the same day you order. Now providing calibration, repair and equipment sales for the same equipment we rent, including: EMC, Power Electronics, Environmental Simulation, Electrical, Communications, NDT/Inspection, RF Safety and more.

Air Force Research Laboratory — 401

www.afrl.af.mil

Air Force Research Laboratory (AFRL) is the only Air Force organization wholly dedicated to leading the discovery, development, and integration of warfighting technologies for the nation's air, space, and cyberspace forces.

Anduril Industries — 519

www.anduril.com

Anduril is not a traditional defense contractor. We are shaping the future of defense, transforming US & allied military capabilities with advanced technology. We emphasize speed and results and control our products from start to finish, including funding R&D to selling finished products off the shelf. Today, Anduril is in a rapid growth phase, deploying technology in diverse locations and developing path-making products that will change defense forever. We believe that everyone at Anduril can be a catalyst. Your perspective can change lives, and we want to help you make your mark. Our team includes thinkers and doers working interdependently. We bring the brightest minds and best-in-class talent together with veterans who have lived the problems of our warfighters.

Ansys — 531

www.ansys.com

Our Mission: Powering Innovation That Drives Human Advancement™

When visionary companies need to know how their world-changing ideas will perform, they close the gap between design and reality with Ansys simulation. For more than 50 years, Ansys software has enabled innovators across industries to push boundaries by using the predictive power of simulation. From sustainable transportation to advanced semiconductors, from satellite systems to life-saving medical devices, the next great leaps in human advancement will be powered by Ansys.

BeyondMath — K9

www.beyondmath.com

At BeyondMath, we've assembled a team of leading AI researchers, engineers, and industry experts from top institutions and companies worldwide. Our team combines decades of experience in machine learning, computational fluid dynamics, and high-performance computing to push the boundaries of what's possible in engineering simulation.

BLOOMY — K0

www.bloomy.com

Bloomy Controls, Inc., (BLOOMY) provides products and services for avionics real-time test, manufacturing functional test, battery test and simulation, as well as world-class NI LabVIEW, TestStand, and VeriStand application development. Typical applications include PCBA functional test; aerospace systems integration lab (SIL) data systems; avionics and battery hardware-in-the-loop (HIL) test; and rapid development of OEM software. These products and services exemplify the world's best professional practices. Bloomy's quality management system conforms to the ISO 9001:2015 standard. A National Instruments (NI) Platinum Partner, Bloomy set the industry standard in LabVIEW development best practices by publishing its internal development standards in The LabVIEW Style Book.

Boeing Company — 301

www.boeing.com

As a leading global aerospace company, Boeing develops, manufactures and services commercial airplanes, defense products and space systems for customers in more than 150 countries. As a top U.S. exporter, the company leverages the talents of a global supplier base to advance economic opportunity, sustainability and community impact. Boeing's diverse team is committed to innovating for the future and living the company's core values of safety, quality and integrity.

Cadence — 306

www.cadence.com

Cadence is a pivotal leader in electronic systems design, building upon more than 30 years of computational software expertise. The company applies its underlying Intelligent System Design strategy to deliver software, hardware, and IP that turn design concepts into reality.Cadence customers are the world's most innovative companies, delivering extraordinary products from chips to systems, chemicals to drugs, and specification to manufacturing for the most dynamic market applications, including hyperscale computing, 5G communications, automotive, mobile, aerospace, consumer, industrial, and life sciences.

EXHIBITORS

Cadence is recognized as a Great Place to Work around the world, including as one of the Fortune "100 Best Companies to Work For" for the last 10 years. Learn more at cadence.com.

Calspan Corporation 111

www.calspan.com

For over 75 years, Calspan has been an industry-leading research, testing and manufacturing partner to the great innovators of the aerospace and automotive industries. We assist companies in overcoming developmental and technical challenges to ensure their creative concepts become viable commercial products. Our teams ensure a streamlined process from aerospace model design and manufacturing to wind tunnel testing and secure data delivery. We also excel at the design and build of test engine cells, turbomachinery, force measurement balances, and hypersonic model testing. Calspan diligently helps to accelerate pioneering innovations on land or into the sky.

Caltech CTME 411

https://ctme.caltech.edu

Technology engineering leaders choose Caltech CTME for tailored professional development and learning programs that enhance organizational capabilities, enable skilled innovators, and spark new mindsets. Learners tackle project-based challenges under the guidance of Caltech faculty and expert instructors. Our program specialties include Systems Engineering/MBSE, Artificial Intelligence/Machine Learning, Data Science/Analytics, Aerospace Supply Chain, Software Engineering, Technical Project Management, and Technology Marketing for Engineers. Client programs are customized to fit company context, product complexity, team dynamics, client case studies, location, format, guest speakers, group facilitation, skill breadth/depth, and desired learning outcomes. Public courses available. Explore more at ctme.caltech.edu or email execed@caltech.edu.

Cambridge University Press 133

www.cambridge.org

Cambridge University Press' publishing in books and journals combines state-of-the-art content with the highest standards of scholarship, writing and production. Visit our stand to browse new titles, available at 60% discount, and to pick up sample copies of our journals.

Carnegie Mellon University Software Engineering Institute 106

www.sei.cmu.edu

The Carnegie Mellon University (CMU) Software Engineering Institute (SEI) is a leader in researching complex solutions, connecting AI, cyber, and software strategies for maximum impact. Since 1984, SEI has been one of only 10 Federally Funded Research and Development Centers (FFRDCs) that engineers AI systems for mission-practical capabilities, ensures U.S. cyber dominance and resilience, and deploys software innovations with confidence. Our products are knowledge-based – knowledge we create and capture, apply to your real-world problems, and distribute to the community. By using our tools, technologies, and practices, your organization can benefit from AI that is reliable, responsible, fair, and transparent; cyber that is secure; and software that is predictable. The SEI brings innovation to the U.S. government, industry, and academia.

CFturbo, Inc. 533

www.cfturbo.com

CFturbo is headquartered in Dresden/Germany with a major office in New York City, NY and supported by a global network of distributors.

Dedicated to Turbomachinery design and related Engineering Services the company has become a superior software vendor and development partner with worldwide respect in the Turbomachinery community over the last ten years.

Collier Aerospace - Hyper X 425

www.collieraerospace.com

What began at NASA 30 years ago has continuously developed into today's HyperX suite of structural software solutions. HyperX performs design, stress analysis, & detail sizing optimization for aircraft and space launch vehicles fabricated with composite or traditional metallic materials. On average, the software reduces the weight of structures by 15-20%, an exceptional achievement for aerostructures. HyperX explores very rapidly a very open design space providing insightful design study trends. On the analysis and certification side, HyperX replaces the need for spreadsheets and "hand calculations" with automatically generated stress reports for FAA certification. HyperX customers are able to produce results faster and more accurately, giving them an edge over competitors.

Convergent Science 100

https://convergecfd.com/

Convergent Science, Inc. is an innovative, rapidly expanding computational fluid dynamics (CFD) company. Our flagship product, CONVERGE, is a revolutionary CFD software with truly autonomous meshing capabilities that eliminate the grid generation bottleneck from the simulation process. Convergent Science is headquartered in Madison, Wisconsin, and has offices in the United States, Europe, and India and distributors worldwide.

Cornell University Sibley School of Mechanical and Aerospace Engineering 110

www.mae.cornell.edu/mae

At the Sibley School of Mechanical and Aerospace Engineering our engineers understand that the problems of the world will not be solved by doing things the way they have always been done. We know that real innovation comes from the marriage of deep technical knowledge with creative imagination and our program nurtures both the mind and the imagination. Our Master of Engineering Distance Learning programs are designed for professional students and offer an array of flexible options. Students can optimize their workload to suit them, allowing you to continue your path in education while maintaining your contribution to your organization. Streamline your focus in spacecraft propulsion, energy systems, or mechanical design. Broaden your skillset with courses in engineering management or systems architecture.

CUBRC 310

www.cubrc.org

CUBRC executes hypersonic ground testing, hypersonic flight testing support, cutting-edge computational modeling and analysis, and unique capability development. CUBRC develops, operates, and maintains a family of supersonic and hypersonic ground test facilities, diagnostics and instrumentation, and computational tools and models that has been designated by the US Government as critical test infrastructure.

EXHIBITORS

Dantec Dynamics, Inc. 421

www.dantecdynamics.com

Dantec Dynamics develops and manufactures measurement systems that determine physical properties in fluids (velocity, temperature, concentration, species) and in solid structures (strain, vibration, laminate defects). We deliver turnkey as well as customized solutions with user-friendly software. Furthermore, our clients benefit from superior technical application support worldwide.

Our distinct competence and experience in integrating measurement methods and technologies into the right solution for you, is unique.

Partnering with Dantec Dynamics helps you gain crucial knowledge from any test or measurement campaign.

Dantec Dynamics – Turn Measurements into Knowledge

Dewesoft LLC 316

www.dewesoft.com

DEWESoft, offers a full suite of hardware for in-vehicle & lab data acquisition applications. Scalable from 4 to 1,000's of channels our instruments are available as small USB & EtherCat devices, stand-alone battery-powered systems, rack-mounted configurations, & ruggedized field-ready solutions. Powered by the latest DEWESoft X software, we acquire & control many multi-domain test sets that include analog in/out, digital in/out, video, CAN, FlexRay, XCP, GPS, & more.

dSPACE 232

www.dspace.com

dSPACE helps aerospace engineers make the vision for future flight missions a reality with our very wide and comprehensive portfolio for simulation and validation solutions. Our end-to-end development and test environment is ideal for applications such as electric aircraft, electric and hybrid propulsion, urban air mobility, unmanned aircraft systems and autonomous flight vehicles. We offer long-standing expertise and proven solutions, including best-in-class hardware-in-the-loop technology with FPGAs for real-time testing. Whether you are working on function development, testing embedded components, verifying networked aircraft systems or testing electromechanical systems, we're ready to help you master the challenges of the future. With approximately 2,000 employees worldwide, dSPACE is headquartered in Paderborn, Germany, has three project centers in Germany, and serves customers through regional dSPACE companies in the USA, the UK, France, Japan, China, Croatia, and South Korea.

Dynamic Systems Inc (Gleeble) K5

www.gleeble.com

Dynamic Systems Inc. is dedicated to advancing the state-of-the-art in dynamic thermal-mechanical testing of materials and simulation of processes.

Embry-Riddle Aeronautical University 200

www.erau.edu

Embry-Riddle Aeronautical University is the world's largest, most comprehensive institution specializing in aviation, aviation business, aerospace, engineering and STEM-related degree programs. A fully accredited university, Embry-Riddle also serves as a major research center, which seeks solutions to real-world problems and global challenges in partnership with the aerospace industry, other universities and government agencies. A nonprofit, independent institution, Embry-Riddle offers more than 100 associate's, bachelor's, master's and Ph.D. degree programs through its colleges of Arts & Sciences, Aviation, Business, Engineering and Security & Intelligence. The university educates 31,000+ students at its residential campuses in Daytona Beach, Florida, and Prescott, Arizona, and through online programs offered by its Worldwide Campus, which has about 110 locations globally. In 2024, U.S. News & World Report ranked Embry-Riddle's online undergraduate degree programs as the highest among the nation's private institutions. From 2016 to 2023, the university has ranked either No. 1 or No. 2 in this category when compared with all institutions — private or public. Embry-Riddle's Aerospace Engineering program ranks No. 5 in the nation, and the university has been ranked Best for Veterans. Our residential campuses also hold multiple Top 10 regional rankings.

Enduralock 501

www.enduralock.com

Enduralock is a Kansas City–based small business developing enabling technologies for In-Space Servicing, Assembly, and Manufacturing (ISAM) and for aviation. Our technologies include: 1. OneLink is a multifunctional satellite docking connector providing fuel, data, and power transfer, and a mechanical linkage sufficient for in-space transport in one connector. It is being developed through an AF Phase II SBIR. 2. Enduralock has designed a deployable, reusable, in-space capture mechanism for in-space transport of a satellite or for deorbit of space debris. 3. Under a TACFI, Enduralock has developed a robotic end effector for autonomous assembly of structures in space with a unique fastening system designed for aerospace. The fasteners are mechanically locking, vibration resistant, reversible and reusable with only a standard hex socket. They are unaffected by thermal extremes, as they remain locked even with loss of preload. They also eliminate the need for safety wire, which reduces assembly and maintenance times. Enduralock developed self-aligning nut plates, which will engage off-axis bolts and then self-align during tightening. This makes them ideal for in-space autonomous robotic assembly. 4. Through an AF Phase II SBIR, a mechanically locking, vibration resistant, reversible and reusable fuel line/hydraulic connector was developed. 5. The first mechanically locking nut plate was developed through an AF Phase II SBIR for use in extreme vibration environments such as hypersonic applications or reentry vehicles.

Ennova Technologies Inc. 208

www.ennova-cfd.com

Ennova Technologies delivers today's most scalable simulation platform combining the power of cloud based computing, advanced geometry repair tools, and mixed mode meshing to create an extremely efficient pre and post processing simulation environment.

ESTECO 315

www.esteco.com

ESTECO is a pioneer in numerical optimization solutions, specializing in the research and development of engineering software for all stages of the simulation-driven design process. ESTECO's top-class products, modeFRONTIER and VOLTA, are used worldwide, helping companies increase efficiency in design simulation and accelerate product innovation.

Eurofins EAG Laboratories 313

www.eag.com/

When it comes to understanding the physical structure, chemical properties and performance of advanced materials and integrated circuitry, no other scientific services company offers the breadth of experience, diversity of analytical techniques or technical ingenuity of EAG Laboratories. We deliver multi-disciplinary, problem-solving expertise

EXHIBITORS

to help our customers accelerate innovation, ensure quality and safety, and protect intellectual property.

Evolution Measurement Inc 215

www.evolutionmeasurement.com

At Evolution Measurement, we understand that no two measurement challenges are the same. That's why we offer custom built systems tailored to your exact needs, whether you're working in aerospace, automotive, energy, or beyond.

Exosens/Telops 311

www.exosens.com/brands/telops

Telops, a renowned brand in hyperspectral imaging systems and infrared cameras, is located in Quebec City, Canada. Telops specializes in the design and manufacture of high-performance systems for defense, industrial, and academic research applications. Additionally, Telops offers R&D services for optical systems technology development, tailored to meet the specific needs of its customers. Whether you require state-of-the art thermal imaging solutions Telops offers the right tools to meet your exacting standards.

Experimental Sounding Rocket Association (ESRA) 600

www.esrarocket.org

The Experimental Sounding Rocket Association (ESRA) is a non-profit organization founded in 2003 for the purpose of fostering and promoting engineering knowledge and experience in the field of rocketry. ESRA's mission is to provide safe and exciting opportunities for academic groups to compete in aerospace challenges.

FAMU-FSU College of Engineering 540

https://eng.famu.fsu.edu/

The FAMU-FSU College of Engineering, established by the Florida Legislature in 1982, is the joint engineering school for Florida A&M and Florida State universities, the only shared college of engineering in the nation. We are located less than three miles from each campus. Our students enroll (and graduate) as Seminoles or Rattlers and start their college experience on the home campus. Once prerequisites are complete, they learn together at our engineering building.

Fathom Manufacturing LLC K2

www.FathomMFG.com

Advancing Aerospace Through Speed, Precision, and Partnership Fathom Manufacturing is a leading U.S.-based advanced manufacturer powering the next generation of aerospace, defense, and space innovation. With a nationwide network of specialized sites, Fathom provides end-to-end manufacturing solutions to some of the most advanced engineering programs in the world. From concept to qualification, Fathom accelerates the aerospace development cycle by uniting cutting-edge technologies with decades of engineering experience. Our teams partner directly with OEMs, Tier 1 suppliers, and government contractors to deliver flight-critical components, test articles, tooling, and production assemblies with uncompromising quality and agility. Through digital quoting, rapid prototyping, and vertically integrated production, we compress design-to-part timelines without sacrificing aerospace-grade precision. Our work spans programs shaping the future of flight—from next-generation propulsion systems and UAV platforms to satellite hardware and human-rated exploration components. Fathom Manufacturing—Uniting America's manufacturing network to solve the aerospace industry's biggest challenges. Learn more at fathommfg.com

Flexcompute 221

http://flexcompute.com

Flexcompute is a solver technology company focused on dramatically reducing the time and costs of high-fidelity simulations. Run the fastest and most accurate CFD you've experienced from anywhere, without licenses or hardware, using the groundbreaking Flow360 solver. With emerging hardware as our template, we rewrote from scratch, a full stack proprietary code that unlocked solving speeds orders of magnitude faster than anything else on the market. Run steady simulations in minutes and unsteady simulations in hours. This enables teams to run high-fidelity CFD at all stages of design. All with the goal of shortening your design cycles, reducing simulation costs, and improving product outcomes.

Florida Institute of Technology 528

www.fit.edu

At Florida Tech, we say "yes" to big ideas. We pursue outrageous dreams and embark on the endeavors most pivotal to the future. Founded to educate the pioneers of the U.S. space program, Florida Tech is deeply, historically rooted in this culture of relentless determination. Today, we carry on this legacy through the rigorous hands-on degree programs we offer in engineering, science, computing, aeronautics, business, psychology and more.

Force Measurement Systems Inc. 318

www.forcems.com

FORCE MEASUREMENT SYSTEMS (FMS) is a comprehensive resource for the design and fabrication of high precision force measurement systems, load cells, and flexures. FMS expertise is in jet engine and rocket thrust stands. FMS personnel are experienced in single and multi-component thrust stands ranging from 1 lb to 3 million lbs.

GE Aerospace 234

www.geaerospace.com

GE Aerospace will build upon our established 100+ years of expertise, extensive partnerships, and commitment to customers. Together we will mobilize a new era of growth in aerospace and defense — one that balances the current needs of our industry with those of future generations, surpassing what is expected and delivering what is essential. Where others stop, we accelerate.

GE Aviation is a world-leading provider of jet and turboprop engines, components and integrated systems for commercial, military, business and general aviation aircraft and has a global service network to support these offerings.

Building on an unsurpassed legacy of success, GE Edison Works continues to execute on bold technical initiatives to ensure even more demonstrable support to the warfighter and those in need of humanitarian relief.

Join us as we design and engineer multiple military programs that support next generation air dominance.

General Atomics Aeronautical Systems, Inc. 427

www.ga-asi.com

General Atomics-Aeronautical Systems, Inc. (GA-ASI), an affiliate of General Atomics, is a leading designer and manufacturer of proven, reliable remotely piloted aircraft (RPA) systems, radars, and electro-optic and related mission systems, including the Predator® RPA series and the Lynx® Multi-mode Radar. GA-ASI is actively developing

EXHIBITORS

the next generation of RPA systems leveraging state-of-the-art technologies including multi-functional structures using additive manufacturing, airborne manned-unmanned teaming (MUM-T) capabilities, revolutionary controller capabilities that reduce manpower requirements, and low cost, modular RPA solutions. Additionally, GA-ASI produces ground control stations and sensor control/image analysis software, offers pilot training and support services, and develops meta-material antennas. www.ga-asi.com

GridPro — K6

www.gridpro.com

We develop GridPro, a Hexa (structured MB) grid generation tool, with automation as its goal. Contrary to Traditional Meshing Algorithms, GridPro's Algorithm takes much of the effort from the user to provide an automatic and robust meshing process without compromising on quality.

Hadland Imaging — 410

www.hadlandimaging.com

Hadland Imaging believes in providing the absolute best in ultra high-speed visible, infrared & Flash X-ray imaging solutions to industry leaders & professionals to get the job done right.

Hauschild SpeedMixer Inc — 132

www.speedmixer.com

As a specialist in mixing solutions, Hauschild offers a wide range of products to end your mixing problems. The Hauschild SpeedMixer® series proves to be particularly helpful for a diverse range of materials in all forms. Especially if the mixing process becomes a challenge or if there are difficulties in the development process, you can use the Hauschild SpeedMixer® to sensibly improve the efficiency of your daily work. In a few seconds, the Hauschild SpeedMixer® produce bubble-free multi-component compounds such as liquids, high-viscosity pastes and powders.

HEAD Acoustics — 432

www.headacoustics.com

HEAD acoustics offers a comprehensive portfolio of hardware, software, and engineering services, utilizing its cutting-edge measurement technology and extensive practical experience. Our expertise spans a wide range of industries, including energy, industrial machinery, consumer and professional electronics, transportation and mobility (automotive, commercial vehicles, Tier 1 suppliers, rail, marine, and aviation), medical technology, environmental acoustics, and telecommunications.

Hexagon — 207

www.hexagon.com

Hexagon is a global leader in sensor, software and autonomous solutions. Hexagon's Manufacturing Intelligence division uses data from design and engineering, production and metrology to make manufacturing smarter. Our CAE solutions, developed through the acquisition of the MSC Software portfolio, help engineers accelerate product innovation. For more information, visit hexagon.com

IC2 (Interdisciplinary Consulting Corp) — 320

www.thinkic2.com

Delivering Scientific-Grade Sensors. Advancing Aerospace Test. With a deep knowledge of aerospace test and over two decades researching best-in-class sensor development techniques, IC2 delivers scientific-grade precision sensors that push the envelope of aerospace measurement accuracy and performance.

Image Systems TrackEye Inc — 441

www.imagesystems.se

Image Systems Motion Analysis offers accurate and valuable measuring results - fast. Our software is used in hundreds of different applications where the movement of an object, a human body or other living organisms shall be measured and analysed.

IMTS – The International Manufacturing Technology Show (IMTS 2026) — 409

www.imts.com

IMTS – The International Manufacturing Technology Show is where the creators, builders, sellers, and drivers of manufacturing technology come to connect and achieve the impossible. Attendees discover advanced manufacturing solutions that include innovations in CNC machining, automation, robotics, additive, software, AI, and transformative digital technologies that are driving the industry forward. Owned and produced by AMT – The Association For Manufacturing Technology, IMTS is the largest and most defining trade event for manufacturing technology in the Western Hemisphere. IMTS 2026 will be held Sept.14-19, 2026, at McCormick Place in Chicago.

Iowa State University, Department of Aerospace Engineering — 138

www.aere.iastate.edu

Iowa State has a long history of educational and research excellence in aerospace engineering. This includes training students for engineering careers in aviation starting as early as 1928, housing one of five NASA centers of excellence in Computational Fluid Dynamics in the 1970's, building the world's first Tornado and Downburst simulator, and housing the only university icing research wind tunnel in the United States.

Istari Digital — 220, K10

www.istaridigital.com

Digital twins are revolutionizing industries from aerospace to agriculture. Istari Digital makes them simple and more secure, unlocking models and simulations for better products - better everything. A faster, cheaper, greener digital future awaits.

JKI — K3

www.jki.net

Partner with a company that allows you to focus on developing the unique technology for your application. Around the world, our software tests rocket engines and automates advanced vacuum chambers for companies leading the space revolution. Our tools allow you to seamlessly integrate with Python, LabVIEW, and .NET.

EXHIBITORS

Johns Hopkins University Engineering for Professionals 130

https://ep.jhu.edu/

Johns Hopkins top-ranked Engineering for Professionals program delivers challenging part-time, online courses in more than 24 disciplines that address the most current engineering technologies, practices, and issues. Study online, on your time and gain solutions-based knowledge—immediate learning you can use to advance your career.

JuliaHub 131

https://juliahub.com/

JuliaSim is the next-generation, cloud-based platform for model-based design. Using modern scientific machine learning (SciML) techniques and equation-based digital twin modeling and simulation, JuliaSim accelerates simulation times, significantly reducing workflow runtime from months to hours. The platform integrates block diagrams, acausal modeling, state transition diagrams, and a differentiable programming language within a unified environment, streamlining complex modeling and simulation tasks.

Kitware, Inc. 140

www.kitware.com

Through a highly competitive and selective hiring process, we've cultivated a team of internationally renowned researchers and developers in advanced technical computing. We are widely recognized for our expertise in AI, computer vision, medical computing, and scientific computing, in addition to our robust software development processes.

Kulite Semiconductor Products, Inc. 230

https://kulite.com/

Kulite, a World Leader in Pressure Transducer Technology, manufactures miniature high frequency pressure transducers, TSO & PMA flight qualified pressure transducers, wind tunnel engine pressure probes and turbine blade implants, used in development and manufacture of helicopters, business jets, commuters, commercial and military aircraft. They are designed to operate with electromechanical indicators, ECU, FADEC and EICAS systems and other aircraft circuits.

LabAM24 Co., Ltd 141

www.labam24.com

At LabAM24, our innovations are oriented toward advancing the aerospace industry, while remaining adaptable to a wide range of other sectors. We are driven by a commitment to push the boundaries of manufacturing and streamline production processes. We are Redefining Manufacturing Possibilities

LaVision, Inc. 209

www.lavision.de/en/

LaVision provides integrated measurement systems for experimental fluid dynamics, combusting and multiphase flows, material characterization, and in cylinder measurement. LaVision is the market leader in image based measurement systems playing a pioneering role in the development of techniques such as PIV, LIF, DIC and BOS. LaVision stays at the forefront of measurement science strives for customer satisfaction.

Lithoz America, LLC 118

www.lithoz.com

Lithoz is the market and technology leader in additive manufacturing systems for advanced technical ceramics. Lithoz CeraFab 3D printers use lithography-based ceramics manufacturing to deliver the quality, reliability, and repeatability needed for serial production of smooth, precise, finely-detailed ceramic components. Lithoz America, LLC offers machine sales, application support, and custom material development from our Troy, NY location.

Lockheed Martin Corporation 201

www.lockheedmartin.com

Headquartered in Bethesda, Maryland, Lockheed Martin Corporation is a global defense technology company driving innovation and advancing scientific discovery that employs approximately 121,000 people worldwide and delivers transformative technologies that deter potential adversaries for America and its allies.

Los Alamos National Laboratory 518

www.lanl.jobs

Los Alamos National Laboratory is one of the world's most innovative multidisciplinary research institutions. We're engaged in strategic science on behalf of national security to ensure the safety and reliability of the U.S. nuclear stockpile. Our workforce specializes in a wide range of progressive science, technology, and engineering across many exciting fields, including space exploration, geophysics, renewable energy, supercomputing, medicine, and nanotechnology. Join us and be part of something extraordinary.

Luminary Cloud, Inc. 206

www.luminarycloud.com

Luminary Cloud is the world's first modern computer-aided engineering SaaS platform that provides engineers insights in minutes,allowing for quick simulation, analysis, and iteration that were once impossible. We call this realtime engineering.

M4 Engineering, Inc. 212

www.m4-engineering.com

M4 Engineering helps solve the challenges that arise in developing new types of manned and unmanned space and flight vehicles. From conceptual design, weight prediction and pre-PDR work through analysis, multi-disciplinary design analysis and optimization (MDAO), test, fabrication and certification we help fill the gaps needed for a successful program.

MathWorks 437

www.mathworks.com

The MATLAB and Simulink product families are fundamental applied math and computational tools at the world's educational institutions. Adopted by more than 6,500 universities and colleges, MathWorks products accelerate the pace of learning, teaching, and research in engineering and science. MathWorks products also help prepare students for careers in industry worldwide, where the tools are widely used for data analysis, mathematical modeling, and algorithm development in collaborative research and new product development. Application areas include data analytics, mechatronics, communication systems, image processing, computational finance, and computational biology.

EXHIBITORS

Metacomp Technologies 414

www.metacomptech.com

Metacomp Technologies is at the forefront of cutting edge simulation technology with software products for Computational Fluid Dynamics (CFD++), Aero-Acoustics (CAA++), Geometry Preparation (SIM++) and Mesh Generation (MIME) and Structural Mechanics (CSM++) including MetaFSI for fluid-structure interactions. Founded in 1994 by pioneers in CFD, validated by industry, government institutions, and universities worldwide, and with an unparalleled reputation for high-level support, Metacomp will be an Integral part of your success.

Mississippi State University; Department of Aerospace Engineering 529

www.ae.msstate.edu

The ASE department offers an enriching undergraduate program leading to a Bachelor of Science degree, as well as challenging and exciting graduate programs leading to the Master of Science and Doctor of Philosophy degrees. Founded in 1935, the aerospace engineering program is one of the most established in the nation. Aerospace engineers are primarily focused on the design, fabrication, testing, and analysis of aircraft and spacecraft.

NASA 340

www.nasa.gov

The National Aeronautics and Space Administration is America's civil space program and the global leader in space exploration. The agency has a diverse workforce of just under 18,000 civil servants, and works with many more U.S. contractors, academia, and international and commercial partners to explore, discover, and expand knowledge for the benefit of humanity. This year's NASA booth at AIAA SciTech will feature Aeronautics, the Space Environmental Testing Management Office, the Game Changing Development Program, and the Rocket Propulsion Testing office.

National Academies of Science, Engineering, and Medicine 506

www.nationalacademies.org

The National Academies of Sciences, Engineering, and Medicine are private, nonprofit institutions that provide expert advice on some of the most pressing challenges facing the nation and the world. Our work helps shape sound policies, inform public opinion, and advance the pursuit of science, engineering, and medicine.

Naval Surface Warfare Center, Carderock 541

www.navsea.navy.mil/Home/Warfare-Centers/NSWC-Carderock

For over a century, the NSWC Carderock Division has been at the forefront of technologies vital to the success of the U.S. Navy and Maritime Industry. Since our component organizations were founded at the turn of the century, the Division has earned a distinguished reputation as the birthplace of superior naval technology.

Navier AI 534

www.navier.ai

Navier AI is building the first Agent-Driven Engineering platform. We believe engineers should focus on designing great products, not wrestling with simulation software. Navier AI makes it simple to run CFD simulations at scale through our web-based platform built on OpenFOAM, the industry-standard solver for CFD. Our AI agents autonomously handle the complex, time-consuming steps of simulation—from geometry cleanup and meshing to solver configuration and cloud resource management. By automating the tedious parts of the workflow, we enable engineering teams to move faster, explore more design possibilities, and spend their time on high-value engineering decisions.

ND Power & Propulsion 211

https://powerpropulsion.nd.edu/

ND P&P is a University of Notre Dame and South Bend, Indiana-based research and development organization focused on large-scale, high-energy, high-complexity testing and leading-edge computational and analysis capabilities to develop advanced technologies for conventional and high Mach airbreathing propulsion, energy generation, advanced thermal management, and energy storage solutions.

North Carolina State University - Mechanical and Aerospace Engineering 241

https://mae.ncsu.edu/

The Department of Mechanical and Aerospace Engineering (MAE) at North Carolina State University (Raleigh, NC) is the largest in the state and among the largest and most prominent in the nation. The department offers Bachelor of Science (BS), Master of Science (MS) and Doctor of Philosophy (PhD) degrees in both Mechanical Engineering (ME) and Aerospace Engineering (AE). The department also offers accelerated BS/MS degrees in both mechanical engineering and aerospace engineering.

North Wind 119

www.north-wind.com

North Wind is the nation's leading independent supplier of hypersonic and mission critical Research, Development, Test & Evaluation (RDT&E) systems and services.

Northrop Grumman 125

www.northropgrumman.com

Northrop Grumman is a leading global aerospace and defense technology company. Our pioneering solutions equip our customers with the capabilities they need to connect and protect the world, and push the boundaries of human exploration across the universe. Driven by a shared purpose to solve our customers' toughest problems, our employees define possible every day.

nTop 513

www.ntop.com

Product development timelines are shrinking while performance demands rise. Yet most aerospace teams still rely on brittle tools that force early design lock-in before tradeoffs are explored. nTop lets you generate, explore, and validate complex aircraft geometry automatically—enabling rapid design space exploration that compresses weeks of traditional CAD work into hours.

EXHIBITORS

Nullspace, Inc. 240

www.nullspaceinc.com

Nullspace is redefining electromagnetic simulation for the next generation of mission-critical engineering.

We develop full-fidelity, high-speed simulation software purpose-built for RF systems and quantum computing. Built on over a decade of DoD-validated technology, our solvers deliver breakthrough performance — enabling engineers to model larger, more complex designs ever possible before — without sacrificing accuracy.

Ohio State University Aerospace Research Center 103

arc.osu.edu/

The Aerospace Research Center advances aerospace research at The Ohio State University by leading interdisciplinary research focused on aerospace technology, and by fostering outstanding graduate and undergraduate student education. We connect core strengths across the university, advancing knowledge and technology to address current and future air transportation challenges. ARC also serves as a unique resource for industry, academia, government labs and other organizations to collaborate on complex research challenges. Faculty expertise includes power and propulsion, aerodynamics, materials science, controls, manufacturing, law, medicine and policy – all connected to aerospace. ARC's most prominent research areas are in unmanned aircraft systems, aerodynamic flow control and gas turbine engines.

OSU-OAIRE 503

https://go.okstate.edu/aerospace/

Acting as the center of gravity for a statewide initiative to answer industry and federal demand for innovation, excellence, and expertise in aerospace.

PACE 101

https://pace.txtgroup.com

PACE develops innovative commercial off-the-shelf software products for preliminary aircraft and systems architecture design, which help mitigate technological risks, support investment decisions and reduce time to market. Our software's open architecture supports the investigation of new and emerging technologies such as electric or hybrid-electric propulsion systems, which are key drivers of achieving sustainability and zero emissions in the aerospace industry.

PCB Piezotronics, Inc. 526

www.pcb.com

PCB Piezotronics Inc. is a designer and manufacturer of microphones, vibration, pressure, force, torque, load, and strain sensors, as well as the pioneer of ICP® technology. This instrumentation is used for flight testing, wind tunnels, modal analysis, satellite testing and acoustics for cabin noise. PCB® stands behind their products with the valuable services, including a 24-hour SensorLines, a global distribution network, and the industry's only commitment to Total Customer Satisfaction.

Precision Filters 128

www.pfinc.com

PRECISION FILTERS, INC. is a global provider of instrumentation for test measurements. You can rely on a single source for signal conditioning and switching—a complete range of instrumentation— products optimized to work together to provide high performance at reasonable cost. PFI designs and manufactures precision solutions that include a family of analog signal conditioning, filtering and switching systems. The 28000 Signal Conditioning System provides a complete range of transducer conditioning with up to 256 channels per chassis. Precision's solid-state switch provides up to 256x256 cross-point switching and replaces tedious manual patch panels. The PF-1U provides 8 or 16 channels of high performance filter/amplifiers in a compact package with Ethernet control.

Radeus Labs, Inc. 112

www.radeuslabs.com

Radeus Labs Inc. is a global industry leader in the design, manufacture and marketing of high performance computing and SATCOM products. Our products are purpose built to provide you with the best available platforms in the industry for your important applications. We are customer focused, deliver on time and support what we sell!

RH Technologies LLC 218

www.r-h-t.com

At RH Technologies (RHT), we are dedicated to advancing state-of-the-art measurement diagnostics for experimental aerodynamic testing. We are a veteran-owned small business dedicated to providing advanced measurement solutions for industries such as wind-tunnel testing, propulsion, combustion, explosives, automotive, and biomedical applications. Our flagship product, Self-Aligned Focusing Schlieren (SAFS), is the next-generation technology in schlieren imaging. SAFS delivers near-planar, density-gradient measurements previously thought impossible. Unlike traditional systems, SAFS is vibration-resistant, easy to align, and can be set up in minutes. Fully customizable, SAFS can be tailored to meet your specific needs, whether that means compact designs for tight spaces or remote electronic control for enhanced flexibility. As the industry leader in SAFS technology, we've validated our system with U.S. and international clients in academia, the private sector, and government. In addition to SAFS systems, we offer consulting services, custom training, and the sale of SAFS sub-components to help clients maximize the value of their investment.With innovation at our core, we've attracted investment to fuel our growth and secured significant grants and contracts from the Department of Defense to advance SAFS capabilities. We're more than just a product—we're a trusted partner in advancing measurement technology and transforming research. At RHT, we're here to help you unlock new possibilities and achieve breakthrough results.

Rolls-Royce 126

www.rolls-royce.com

Rolls-Royce is a force for progress; powering, protecting and connecting people everywhere. Our products and service packages help our customers meet the growing need for power across multiple industries; enable governments to equip their armed forces with the power required to protect their citizens; and connect people, societies, cultures and economies together.Rolls-Royce has a local presence in 48 countries and customers in over a hundred more, including airlines and aircraft leasing companies, armed forces and navies, and marine and industrial customers.Through our multi-year transformation programme, we are building a high-performing, competitive, resilient and growing Rolls-Royce. We are building the financial capacity and agility to allow us to successfully develop and deliver the products that will support our customers through the energy transition.

EXHIBITORS

RTX 319

www.rtx.com

RTX is the world's largest aerospace and defense company. With more than 180,000 global employees, we push the limits of technology and science to redefine how we connect and protect our world. Through industry-leading businesses – Collins Aerospace, Pratt & Whitney, and Raytheon – we are advancing aviation, engineering integrated defense systems for operational success, and developing next-generation technology solutions and manufacturing to help global customers address their most critical challenges. The company, with 2022 sales of $67 billion, is headquartered in Arlington, Virginia.

SH Scientific Corporation 536

www.labandfurnace.com

SH Scientific (LabAndFurnace.com) is a 40-year-old lab and research equipment manufacturer. We specialize in muffle furnaces up to 1900°C, tube furnaces with gas supply systems up to 1800°C, vacuum muffle furnaces with/without chamber made of quartz, rotary tube furnace (lab scale rotary kiln) and 3000°C graphite induction furnace.We proudly supply our lab and mid-scale equipment to renowned university labs, national labs, and private and public organizations.

SIAM 525

www.siam.org

Society for Industrial and Applied Mathematics (SIAM), headquartered in Philadelphia, Pennsylvania, is an international society of over 14,000 individual members, including applied and computational mathematicians and computer scientists, as well as other scientists and engineers. Members from 85 countries are researchers, educators, students, and practitioners in industry, government, laboratories, and academia. The Society, which also includes nearly 500 academic and corporate institutional members, serves and advances the disciplines of applied mathematics and computational science by publishing a variety of books and prestigious peer-reviewed research journals, by conducting conferences, and by hosting activity groups in various areas of mathematics. SIAM provides many opportunities for students including regional sections and student chapters.

Siemens Industry Software, Inc. 535

www.sw.siemens.com/en-US

Siemens Digital Industries Software and Siemens Xcelerator are transforming the everyday by giving companies like yours the agility, flexibility and adaptability to turn ideas into innovation with greater efficiency and speed.

Sift 527

www.siftstack.com

Modern machines don't just move, they think. They're autonomous, software-defined, and mission-critical. But most people still build them like it's 1995. That's why we built Sift.

Sift exists to make engineering faster, safer, and smarter for companies pushing the limits in aerospace, defense, robotics, and autonomy.

SPEC Innovations K4

www.specinnovations.com

Founded in 1993, SPEC Innovations helps the most innovative companies worldwide develop complex systems and products through our consulting, training, and software. Our flagship software, Innoslate, is the first cloud-native, model-based systems engineering tool that supports the entire system or product lifecycle. Innoslate combines modeling, simulation, requirements management, testing, and program management in one place, plus added integrations to enable digital engineering efforts. Discover more at www.specinnovations.com.

Specialised Imaging, Inc. K1

www.specialised-imaging.com

Specialised Imaging is a manufacturer of ultra-highspeed imaging solutions for all applications in defense and research institutions, military ranges, university labs, and scientific facilities. Our solutions focus on ultra-highspeed video cameras, intensified framing cameras up 1Bfps, projectile Trajectory Tracker systems, image intensifiers, illumination systems, triggering, lab equipment, and custom-designed solutions for lab and/or field. Service and software. Specialised Imaging also offers streak cameras and long-record duration video camera systems.

Specter Aerospace 515

www.specteraero.com

Specter Aerospace is working hand in hand with the DoD to build the next generation of long-range, affordable and effective hypersonic weapons for U.S. Forces and Allies.

Tactical Air Support Inc. 210

www.tacticalairsupport.com

Tactical Air Support, Inc. provides domestic and international "Center of Excellence" level training and advisory services in tactical aviation, while supporting U.S. interests, and providing meaningful career opportunities for our employees. When you need the most qualified, current, and combat-experienced military aviation experts in the industry – turn to Tactical Air.

TECHNEGLAS LLC 120

www.techneglas.com

Techneglas, located in Perrysburg, OH, is an ISO 9001 and ISO 14001 facility with a long history of high temperature manufacturing. Techneglas was originally part of the Specialty & Technical Products Division of Owens-Illinois from ~1946-1988. During that time Techneglas developed competencies related to television cathode-ray tube manufacturing and solid-source dopant manufacturing for the semiconductor industry.

Tecplot, inc. 408

www.tecplot.com

Tecplot is the leading post-processing software developer in CFD data visualization. We believe visual analysis is the key to unlocking information hidden in complex data, leading to world-changing discoveries and innovation. Not only do we empower engineers and scientists to visualize, analyze and understand information in simulation and test data results, but through our high-resolution images and animations, we help them clearly communicate their results to stakeholders. Tecplot software differs from other visualization tools in that it is easy to learn and use, offers broader capabilities, and produces better-quality images and output. Tecplot 360 – A suite of visualization and analysis tools that can handle large data sets, automate workflows, and visualize parametric results. FieldView – High-end postprocessing, with realistic images that help you understand your data. Tecplot RS – Specifically designed to streamline oil & gas reservoir simulation visualization and analysis.

EXHIBITORS

Tekna 137

www.tekna.com

Tekna is the world leader in induction plasma technology. Its 30 years of experience have led it to the mastery of a highly automated industrial process that uses the power of inductive plasma for the high yield production of advanced high-quality powders.

Texas A&M Turbomachinery Laboratory 219

https://turbolab.tamu.edu/

The Turbomachinery Laboratory is a center of the Texas A&M Engineering Experiment Station (TEES) and a member of the Texas A&M University System. The Turbo Lab conducts both Basic and Applied Research with 15 active research professors, and 100 graduate student researchers within three thematic areas: Rotordynamics and Mechanical Systems; Thermal Fluids and Combustion; and Computational Modelling and Design.

Industry and Government sponsored research and testing is conducted at the TL facility in College Station, Texas. Research consortia with 35-40 members sponsor student-led projects and is a powerful avenue for industry/government/educational institutions to train and hire top talent with Masters and Ph.D degrees from the Turbo Lab.

ThermAvant Technologies 217

www.thermavant.com

ThermAvant Technologies is the world's leading oscillating heat pipe provider. We handle every stage of product development: from basic research and concept design; to prototyping and environmental testing; through full scale manufacturing and quality assurance. ThermAvant Technologies has ISO 9001 and AS9100D certification.

THINKY USA 500

www.thinkymixer.com/en-us/

For nearly 40 years, THINKY has been a global leader in advanced material processing technologies. Our Planetary Centrifugal Bubble-Free Mixers rapidly mix, disperse, and degas materials from 0.5 g to 20 kg—used by more than 47,000 users worldwide across diverse applications, with options for built-in vacuum, effortless operation, and easy maintenance. THINKY also offers a Nano Pulverizer that achieves nano-scale pulverization in minutes, supported by a built-in -20°C chiller to help maintain material crystallinity. Together, these solutions provide high-precision mixing, dispersing, and pulverizing with unmatched efficiency and reliability.

Tibidabo Scientific Industries 108

www.tibidaboscientific.com

Tibidabo Scientific Industries is a global leader of highly differentiated technologies in the scientific and medical research, life sciences, agricultural, recycling, aerospace, defense and security, and industrial markets.

Tri Models Incorporated 309

www.trimodels.com

Tri Models is the Premier supplier of wind tunnel models & ground test hardware for the global aerospace community. From "standard" wind tunnel models, to icing/deicing certification models to hot-firing hypersonic test rigs, we have done it all. We support most major air-framers world-wide and have worked with most major testing facilities around the world. We provide a complete, turn-key solution to your testing needs. Contact us to see how we can help you achieve all of your testing goals.

Tutco SureHeat 530

www.tutcosureheat.com

Tutco SureHeat designs and manufactures inline electric process gas heaters, specializing in high temperatures and pressures. We offer compact, efficient, and precise heaters that can be designed to achieve temperatures up to 1100C (2012F), pressures to 207bar (3000 psi), and power levels up to 14MW in a single heater.

University of Alabama in Huntsville Propulsion Research Center 433

www.uah.edu

The University of Alabama in Huntsville (UAH), a part of The University of Alabama System, is a state-supported, public, coeducational university, located in Huntsville, Alabama, United States. The university is accredited by the Southern Association of Colleges and Schools to award baccalaureate, master's and doctoral degrees. UAH offers 89 degree programs of study at the undergraduate and graduate level, with colleges in Engineering, Education, Honors, Nursing, Science, Business, Arts, Humanities & Social Sciences, Graduate School, and Professional Studies.

University of Central Florida 502

www.ucf.edu

The University of Central Florida (UCF) is a metropolitan research university built to make a better future for our students and society. We solve tomorrow's greatest challenges through a commitment to academic, inclusive and operational excellence. Leveraging innovative learning, discovery and partnerships, we foster social mobility while developing the skilled talent needed to advance industry for our region, state and beyond. Discover what it's all about to be a Knight.

University of Florida Mechanical & Aerospace Engineering K8

https://mae.ufl.edu/

The Department of Mechanical and Aerospace Engineering (MAE) at the University of Florida is the largest academic program on campus, by student enrollment. Our Mechanical Engineering program celebrated its 100 year anniversary in 2009 and is one of the founding departments of the Herbert Wertheim College of Engineering. Now more than a decade beyond the successful merger of the mechanical and aerospace programs, MAE remains a vibrant and intellectually diverse program at both the undergraduate and graduate levels.

University of Illinois Urbana - Champaign 135

https://aerospace.illinois.edu/

The Aerospace Engineering Department at the University of Illinois Urbana-Champaign (UIUC) is one of the nation's most prestigious programs, known for its pioneering contributions to both education and research in aerospace science and technology. Established in 1944, the department has built a legacy of excellence, producing generations of engineers who have gone on to make significant impacts in academia, industry, and government sectors.

EXHIBITORS

University of Maryland - Department of Aerospace Engineering 412

www.aero.umd.edu

The University of Maryland's Department of Aerospace Engineering is a national leader in education, research, and innovation across the full spectrum of flight—spanning rotorcraft, fixed-wing aircraft, space systems, autonomy, air mobility, hypersonics, advanced propulsion, and beyond. As part of the A. James Clark School of Engineering, the department is committed to developing the next generation of aerospace pioneers while advancing the technologies that will shape the future of the field.

Aerospace engineering at Maryland is a top-tier nationally ranked program with numerous areas of study for undergraduate and graduate students with curricula that blends interdisciplinary and specialized courses to prepare students to be successful in industry, government, or academia. Graduates of our department are always in high demand and most students earn career experience through our robust internship program before completing their degrees. And now, all graduate level courses are offered online through UMD's top-ranked Maryland Applied Graduate Engineering Program (https://mage.umd.edu/).

Active research programs at Maryland are supported by leading research centers and labs, including the Space Systems Lab, which houses the largest neutral buoyancy facility housed on a college campus, as well as the Alfred Gessow Rotorcraft Center, home to some of the leading rotorcraft researchers in the country, and the Center for Advanced Space Science and Technology Research at UMD (ASTRA-UMD) which focuses on advancing space exploration-related technologies.

University of North Dakota 431

www.aero.und.edu

The University of North Dakota has always been ahead of its time.

Founded in 1883, six years before the state itself was established, UND gave North Dakota its name when the former Dakota territories separated into two distinct states. Today, UND is a busy 521-acre campus, the state's largest in the North Dakota University System (NDUS).

UND Aerospace is a world-renowned center for aerospace learning, nationally acclaimed for our achievements in collegiate aviation education, atmospheric research, space studies, and earth system science and policy research. With more than 500 faculty and staff members, 2,100+ students from around the world, and myriad programs and projects, the John D. Odegard School of Aerospace Sciences is setting the pace for the future of flight.

University of Texas at Austin - Aerospace Engineering and Engineering Mechanics Department 517

www.ae.utexas.edu

The Department of Aerospace Engineering and Engineering Mechanics at The University of Texas at Austin is an interdisciplinary department with teaching and research activities in astronautics, earth-space engineering and science, aviation, energy, robotics, theoretical and experimental mechanics, and computational engineering. We offer programs in aerospace engineering, computational engineering and engineering mechanics.

Utah State University 509

https://engineering.usu.edu/mae/

Online Master of Science in Aerospace Engineering, Department of Mechanical and Aerospace Engineering , Utah State University. Our master's in aerospace engineering is tailored for engineers aspiring to be a leader in the aerospace industry. With courses covering optimization, compressible fluid fow, aerodynamics, propulsion, and more, it offers a comprehensive curriculum aligning with the latest industry demands. Dive into spacecraft navigation, optimal guidance, and hypersonics, gaining spcialized knowledge crucial for success.

VirtusAero, LLC 419

www.virtusaero.com

VirtusAero delivers powerful software for high-fidelity CFD analysis, specifically focused on supersonic and hypersonic flow regimes. US3D is our state-of-the-art research and analysis tool developed collaboratively at the University of Minnesota, NASA Ames, and VirtusAero, providing unstructured-grid, finite-volume CFD.

At VirtusAero we believe that powerful software should be easy to use. This simple idea drives us to improve every aspect of software that we develop and support. We work hard to incorporate our knowledge and expertise into the tools we build so that researchers and engineers can more quickly and easily find the answers they need."

Volcano Platforms Inc 314

www.volcanoplatforms.com

Volcano Platforms Inc., is an early-stage technology startup focused on cutting-edge, physics-based simulation capabilities. Our goal is to provide automated, predictive, and cost-effective Computational Fluid Dynamics (CFD) simulation software that can generate the extensive datasets for a variety of engineering applications. Our flagship software, Volcano ScaLES, offers several key features: GPU-accelerated simulations for faster results, automated mesh generation for simplified workflows, predictive algorithms for improved accuracy, and rapid post-processing with integrated in-situ visualization. Volcano ScaLES represents a substantial advancement in leveraging the capabilities of AI within the engineering field by serving as a powerful data creator.

VulcanForms 508

www.vulcanforms.com

VulcanForms empowers innovators with advanced manufacturing capabilities, enabling complex geometries, optimized performance, and material efficiency at scale. From lightweight structures to intricate components, our digital production system removes traditional design constraints, transforming ideas into reality.

ZEISS Industrial Quality Solutions 107

www.zeiss.com/metrology/us/home.html?vaURL=www.zeiss.com/metrology

ZEISS Industrial Quality Solutions is a leading manufacturer of multidimensional metrology solutions. These include coordinate measuring machines, optical and multisensor systems and metrology software for the automotive, aircraft, mechanical engineering, plastics and medical technology industries. Innovative technologies such as 3D X-ray metrology for quality inspection round off the product portfolio.

EXHIBITORS

Zuken Vitech Inc. 407

www.vitechcorp.com

Since 1992, Vitech has delivered innovative, industry-leading solutions which provide the tools and insight required to define, develop, and manage complex systems. Vitech's software gives you the insight to significantly enhance program productivity, reduce risks, lower costs, and improve project results. We have provided systems engineering services to government and military agencies, private and public businesses, and Fortune 500 firms around the world. We also provide our software and insight to universities across the globe for classroom instruction as well as support for theses and dissertations.

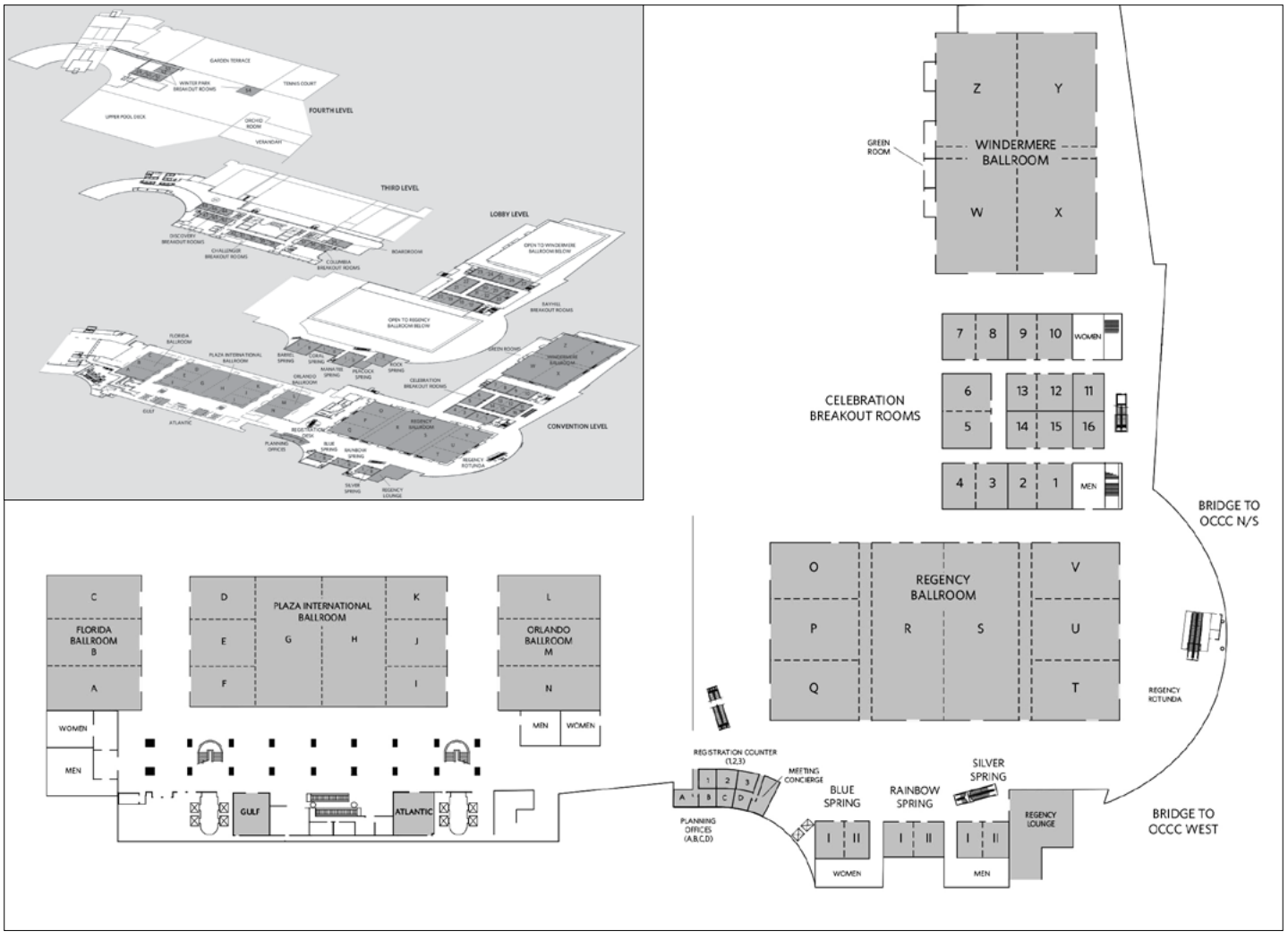
Zulu Pods 109

www.zulupods.com

Zulu Pods is committed to providing high quality, innovative lubrication delivery solutions to the Aerospace and Defense market that radically simplify short-duration engine architecture to reduce weight, cost, and complexity while improving performance.

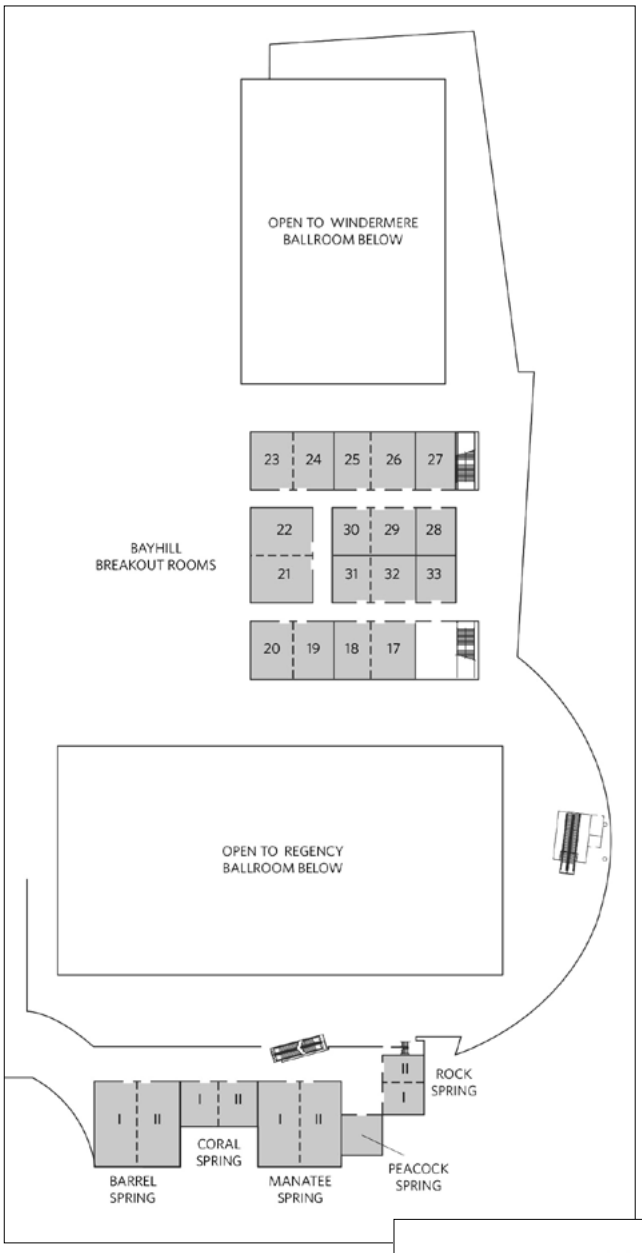
VENUE MAP

CONVENTION LEVEL



VENUE MAP

LOBBY LEVEL



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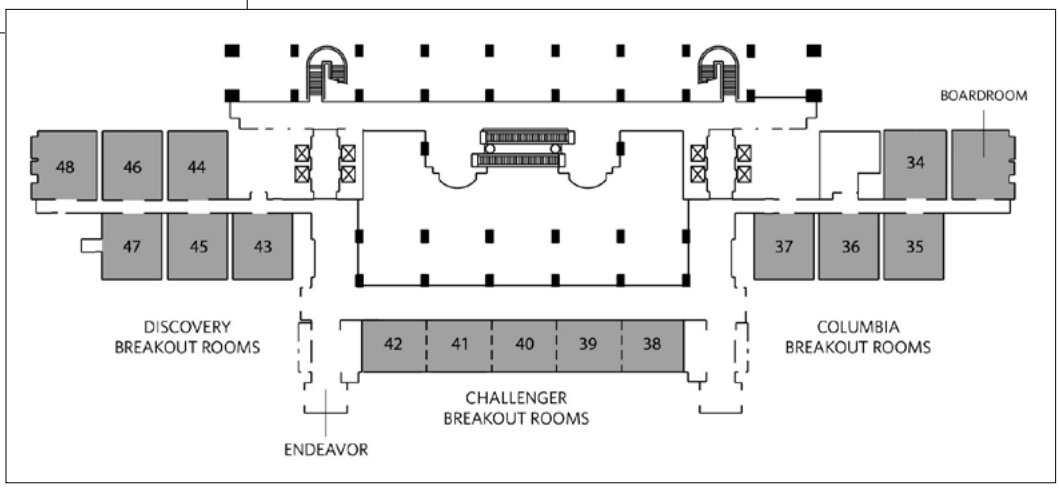
THIRD LEVEL

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ORLANDO, FLORIDA
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