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FORUM
23-27 JANUARY 2023
NATIONAL HARBOR, MD & ONLINE

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the **HUB**



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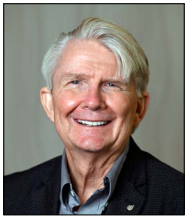
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WELCOME TO



The 2023 AIAA SciTech Forum Guiding Coalition welcomes you to National Harbor, MD, and online! We have worked hard this past year curating exciting and thought-provoking content around the forum theme, **Ignite the Future: Explore the Frontiers of Aerospace.** We hope these industry leaders, topics, and discussions inspire you! Make it a great week!

GUIDING COALITION



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R&D Domain Lead,
AIAA SciTech Forum
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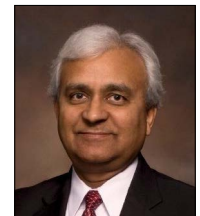
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Julian Winkler, Raytheon Technologies

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Wei Liao, Bihrl Applied Research

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Justin Likar, Johns Hopkins University Applied Physics Laboratory

ATMOSPHERIC FLIGHT MECHANICS

Ye Lu, Kent State University

Craig Woolsey, Virginia Tech

Soumyo Dutta, NASA Langley Research Center

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Samantha Infeld, Analytical Mechanics Associates, Inc.

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Will Tyson, NAVAIR

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Elhadji Alpha Bah

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Luca Massotti, European Space Agency

Michael Niestroy, Lockheed Martin Aeronautics

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Kevin Burns, Retired

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Nicholas Napoli, University of Florida

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Trevor S. Elliott, University of Tennessee at Chattanooga

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Jimmie McEver, Johns Hopkins University Applied Physics Laboratory

Ali Raz, George Mason University

Mike Sotak, Kratos Defense



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Liang Sun, New Mexico State University

David Casbeer, Air Force Research Laboratory

LIQUID PROPULSION

Naveen Vetcha, ERC Incorporated

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Jessica Piness, Redwire Space

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Nitin Bhagat, University of Dayton

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Gano Chatterji, NASA Ames Research Center

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Graeme Kennedy, Georgia Institute of Technology

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Suo Yang, University of Minnesota

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Stephen Cain, Air Force Institute of Technology

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Jonathan Sauder, NASA Jet Propulsion Laboratory

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SOFTWARE

Umut Durak, DLR - German Aerospace Center

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SPACE EXPLORATION

Surendra P. Sharma, NASA Ames Research Center

Narayanan R. Ramachandran, Jacobs Space Exploration Group

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Maria Sakovsky, Stanford University

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Todd Griffith, University of Texas at Dallas

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Jeffrey Chambers, Aurora Flight Sciences, A Boeing Company

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David Lazzara, The Boeing Company

Darcy Allison, Raytheon Missiles & Defense

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Joshuah Hess, Air Force Institute of Technology

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Alejandro Salado, University of Arizona

Michael W. Sievers, NASA Jet Propulsion Laboratory

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Bhupendra Khandelwal, University of Alabama in Tuscaloosa

Tarek Abdel-Salam, East Carolina University

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Arpit Tiwari, Rivian

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Zohaib Mian, Astra Space

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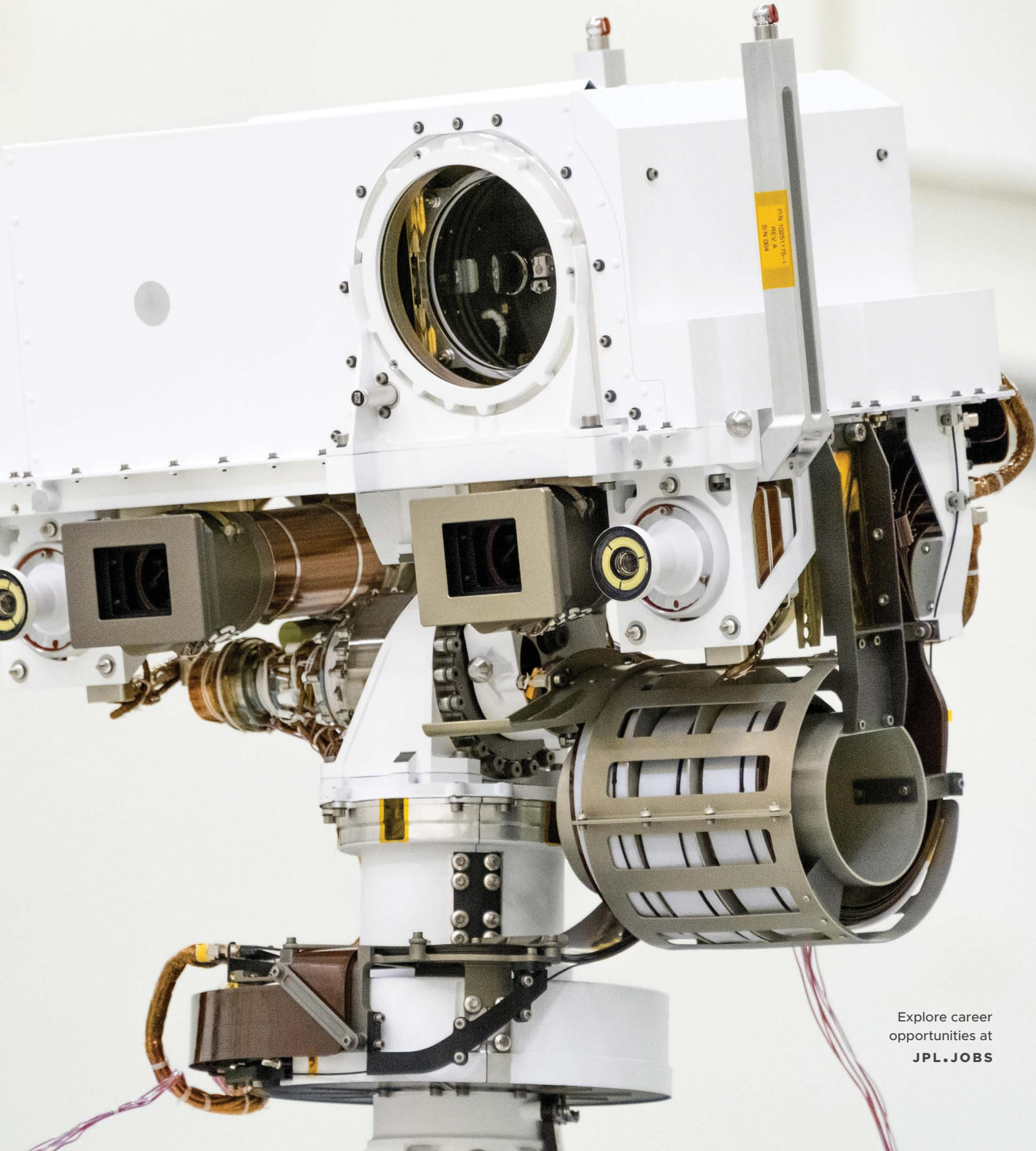
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FORUM OVERVIEW

	SAT. 21	SUN. 22	MONDAY 23		TUESDAY 24		
0730 hrs			Speaker Briefing		Speaker Briefing		
0800 hrs	Pre-Forum Workshops	Pre-Forum Workshops	Plenary		Plenary		
0830 hrs			Networking Break		Networking Break		
0900 hrs			In-Person Technical Sessions 0930-1110 hrs	Forum 360		In-Person Technical Sessions 0930-1110 hrs	Fireside Chat on a New Collaboration to Advance Propulsion Technologies
1000 hrs				Forum 360			
1030 hrs			Forum 360		Forum 360		
1100 hrs			Forum 360		Forum 360		
1130 hrs			Forum 360		Forum 360		
1200 hrs			Forum 360		Forum 360		Tuesday Networking Lunch 1230-1400 hrs
1230 hrs			Forum 360		Forum 360		
1300 hrs			Forum 360		Forum 360		Exposition Hall Open
1330 hrs			Forum 360		Forum 360		
1400 hrs			Forum 360		Forum 360	 Networking Break 1530-1600 hrs
1430 hrs			Forum 360		Forum 360		
1500 hrs			Forum 360		Forum 360		Networking Break
1530 hrs			Forum 360		Forum 360		
1600 hrs			Forum 360		Forum 360		Virtual Technical Sessions 1600-1715 hrs
1630 hrs	Forum 360		Forum 360				
1700 hrs	Forum 360		Forum 360		Welcome Happy Hour in the Exposition Hall		
1730 hrs	Forum 360		Forum 360				
1800 hrs		SciTech 101	Dryden Lecture in Research		Welcome Happy Hour in the Exposition Hall		
1830 hrs			Dryden Lecture in Research		Welcome Happy Hour in the Exposition Hall		
1900 hrs			Dryden Lecture in Research		Welcome Happy Hour in the Exposition Hall		
1930 hrs			Dryden Lecture in Research		Welcome Happy Hour in the Exposition Hall		
2000 hrs			Dryden Lecture in Research		Welcome Happy Hour in the Exposition Hall		



National Harbor, MD



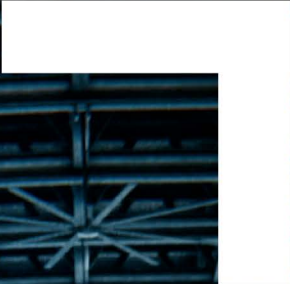
Virtual



Hybrid

FORUM OVERVIEW

	WEDNESDAY 25			THURSDAY 26			FRIDAY 27	
0730 hrs	Speaker Briefing			Speaker Briefing			Speaker Briefing	
0800 hrs	Plenary			Plenary			Plenary	
0830 hrs								
0900 hrs	Networking Break in Exposition Hall			Networking Break in Exposition Hall			Networking Break	
0930 hrs	In-Person Technical Sessions 0930-1110 hrs	Forum 360	Luncheon in Exposition Hall 1230-1400 hrs	In-Person Technical Sessions 0930-1110 hrs	Forum 360	Exposition Hall Open	In-Person Technical Sessions 0930-1110 hrs	Forum 360
1000 hrs								
1030 hrs								
1100 hrs								
1130 hrs								
1200 hrs	Rising Leaders Lunch Panel		Exposition Hall Open			Thursday Networking Lunch 1230-1400 hrs		
1230 hrs								
1300 hrs								
1330 hrs								
1400 hrs	In-Person Technical Sessions 1400-1540 hrs	Forum 360	Networking Break 1530-1600 hrs	In-Person Technical Sessions 1400-1540 hrs	Forum 360	Networking Break	In-Person Technical Sessions 1400-1540 hrs	
1430 hrs								
1500 hrs								
1530 hrs								
1600 hrs	Virtual Technical Sessions 1600-1715 hrs	William H. Pickering Lecture		Virtual Technical Sessions 1600-1715 hrs			In-Person Technical Sessions 1600-1740 hrs	
1630 hrs								
1700 hrs								
1730 hrs	Durand Lecture for Public Service			Women at SciTech				
1800 hrs								
1830 hrs								
1900 hrs								
1930 hrs								
2000 hrs								



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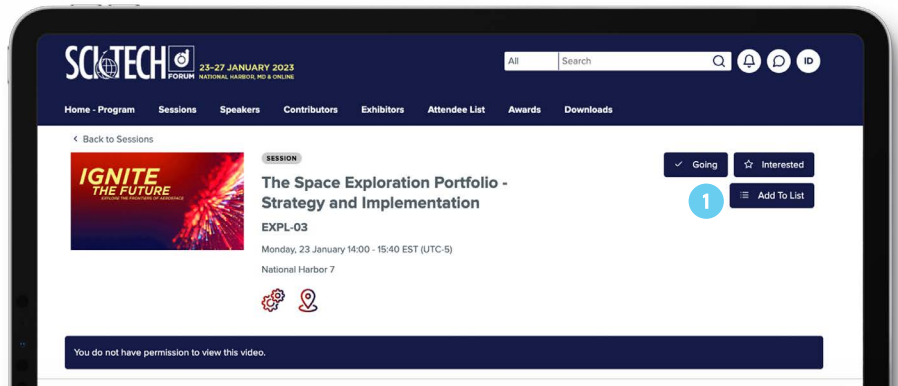
ONLINE PLATFORM TOUR

virtualscitech.aiaa.org

1. Program

View, tag 'Interested,' and/or create 'lists' for upcoming sessions, or join live sessions straight from the Program page.

- Be sure to adjust your time zone or filter for specific features.
- Multiple sessions within one time slot? Click the "+" at the bottom left of the card and those sessions will expand.
- After a livestreamed session occurs, the on-demand recordings will be available on the same session card.
- **NEW** - Add individual papers to your schedule or interest list.



2. Chat

Meet and chat with fellow attendees!

3. Attendee List

Looking for an old colleague or friend? Those who have opted in to having their profile shared will be displayed here. You'll also have the ability to send a direct message if they have that feature turned on. Click on the top right circle to update your profile or permissions on your profile page.

4. Exhibitors & Sponsors

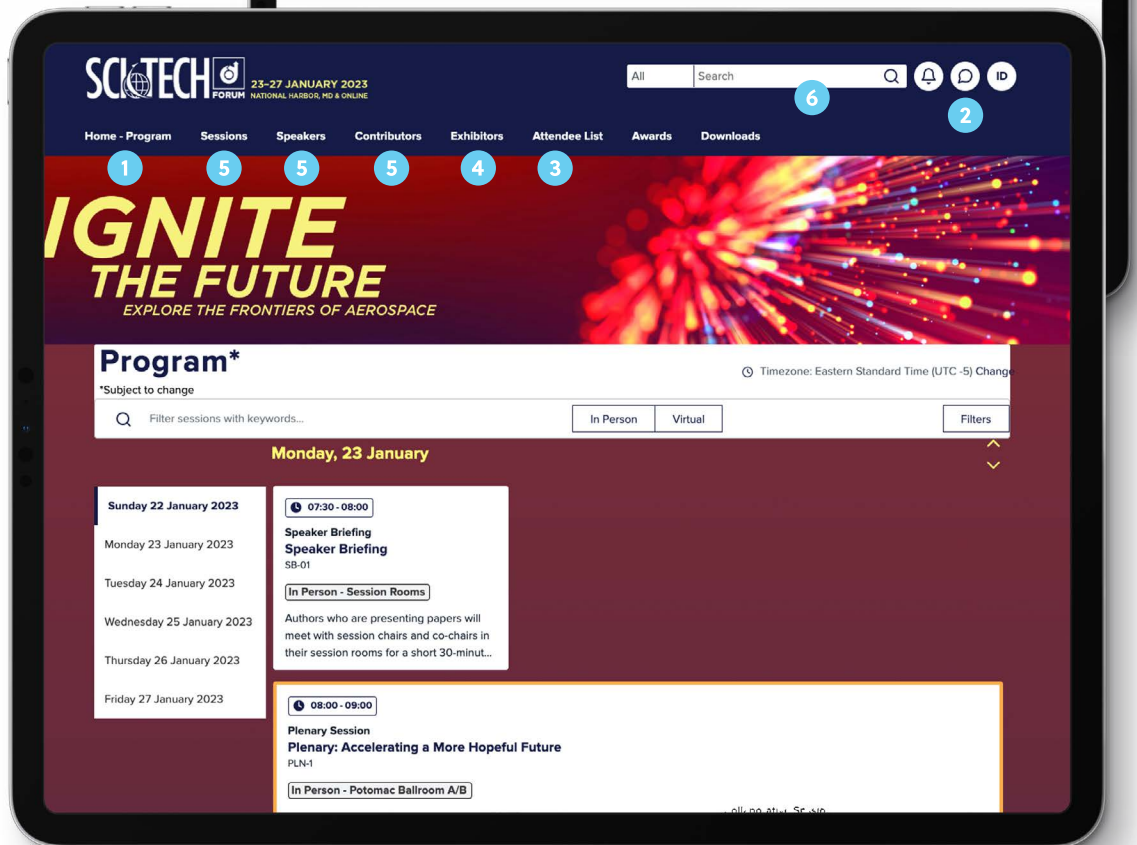
Sharpen your skills and see the latest and greatest products and offerings from cutting-edge companies and organizations. Be sure to check out all our supporting sponsors and partners!

5. Topics/Speakers

Explore all that the AIAA SciTech Forum program has to offer through session topics, formats, and descriptions; participating speakers; areas of interest; and more.

6. Robust Search Feature

Search quickly connects you to the item you are looking for - be it name, video, contributor, exhibitor, sponsor, paper, speaker or session.



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PROGRAM

SATURDAY—SUNDAY // 21-22 JANUARY

PRE-FORUM WORKSHOPS

6th AIAA Propulsion Aerodynamics Workshop (PAW6)

0800-1700 hrs // Chesapeake A-C

This workshop focuses on assessing the accuracy of CFD in obtaining air breathing system performance and flow structure in nozzle and inlet flow fields.

3rd AIAA Aeroelastic Prediction Workshop (AePW-3)

0800-1700 hrs // Chesapeake D-F

The workshop is aimed at understanding the effectiveness of current tools toward predicting aeroelastic phenomena critical for aircraft analysis and design.

SUNDAY // 22 JANUARY

SciTech 101

1800-1830 hrs // National Harbor 11

Discover how you can make the most of your week at AIAA SciTech Forum while meeting fellow attendees. This orientation is ideal for first-time attendees, but all are welcome!

**FOR MOST UP-TO-DATE
SCHEDULE CHECK ONLINE**



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 panel 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 five presentations.



In-person: each 15-minute presentation is followed by 5 minutes of Q&A.



Virtual: each papers' 10-minute summary video automatically plays in order; after this a Zoom room opens for live Q&A.

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 Exposition Hall. Contains shorter presentations, meet the author sessions, and technology demonstrations.

PROGRAM

MONDAY // 23 JANUARY



NETWORKING BREAKS

0900–0930 hrs // Potomac Foyer

1530–1600 hrs // Potomac Foyer

PLENARY

Accelerating a More Hopeful Future

0800–0900 hrs // Potomac Ballroom A/B

Without a target you'll miss every time. XPRIZE competitions have clear, objective, and measurable goals and capture the imaginations of people all over the world, inspiring everyone into action. Hear how millions of dollars in prize purses incentivize radical breakthroughs for the benefit of humanity.

Team registration for the XPRIZE Carbon Removal is still open. Learn more about this \$100M prize competition at https://pop.xprize.org/prizes/xprize_carbon_capture/overview.

SPEAKER: Anousheh Ansari, CEO, XPRIZE Foundation

FORUM 360

Grand Challenges: The How

1000–1130 hrs // Potomac Ballroom A/B

Grand challenges enable us to tackle major societal and industry issues using collaborative and innovative approaches. Our panel explores “the how”: How do individuals get involved? How should teams approach the challenge? How do we ensure that we're working across industries, nationalities, and generations to create solutions?

MODERATOR: Yannis Yortsos, Dean, Viterbi School of Engineering, University of Southern California

PANELISTS:

Jenna Carpenter, Founding Dean and Professor of Engineering, Campbell University

Gwen Lighter, CEO, GoFly

Andrew Mang, Chair, Industry and Alumni Relations, Grand Challenges Scholars Program

Col Scott Neumann, USAF (Ret.), Director, Pulitzer Electric Aircraft Race

International Student Conference

Team Category

0900–1300 hrs // Mezzanine Conference Room 1

Masters Category

0900–1300 hrs // Mezzanine Conference Room 2

Undergraduate Category

0900–1300 hrs // Mezzanine Conference Room 3

The first-place winners of the AIAA Regional Student Conferences will gather to present their research to a team of judges made up of professional members in the industry. The students will have three consecutive sessions in the categories of Undergraduate, Masters, and Team.

Program Partner:



FORUM 360

Idea Challenge: Applying Aerospace Technologies to Solve Societal Problems

1430–1600 hrs // Potomac Ballroom A/B

This challenge provides young professionals with the opportunity to develop a pitch for an idea or product that fits under the challenge theme. Each team presents ideas for how aerospace technologies and techniques can contribute solutions to large global issues, such as climate change, food sustainability, or access to resources. By introducing these ideas, they showcase how the aerospace industry acts as a pathfinder for humanity. Teams comprising a mix of industry, government, and academic members present their pitches and audience members can ask questions, evaluate the pitches, and choose the winning team.

MODERATOR: Michele Miller, Vice President, Security and Mission Assurance, Ball Aerospace

Meet the Employers

1500–1800 hrs // Cherry Blossom Ballroom

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. Participate in round table discussions from 1500–1700 hrs in the Cherry Blossom Ballroom, followed by a cocktail reception from 1700–1800 hrs in the Cherry Blossom Lobby. Space is limited to 400 participants. Remember to bring your resume.

2023 Dryden Lecture in Research

1800–1900 hrs // Potomac Ballroom A/B

“Hypersonic Wall Bounded Viscous Flows: Theory, Ground Test, and Flight”

Rodney D. Bowersox, Associate Dean for Research, Ford I Professor of Aerospace Engineering, and University Regents Professor, Texas A&M University

Proof of purchase is required and included in the registration fee where indicated. Additional tickets may be purchased at registration. All meals in Exposition Hall.



Tuesday Networking Lunch



Welcome Happy Hour



Wednesday Networking Lunch



Thursday Networking Lunch

PROGRAM

TUESDAY // 24 JANUARY



NETWORKING BREAKS

0900-0930 hrs // Potomac Foyer
1530-1600 hrs // Prince George D/E



EXPOSITION HALL OPEN

1200-1600 hrs // Prince George D/E

PLENARY

0800-0900 hrs // Potomac Ballroom A/B

SPEAKER: William D. Roach, Chief Scientist, Air Force Office of Scientific Research

Fireside Chat on a New Collaboration to Advance Propulsion Technologies

1000-1045 hrs // Potomac Ballroom A/B

DARPA and NASA leaders will discuss a collaboration between the agencies to advance space propulsion technologies for both civilian and defense efforts.

SPEAKERS:

The Honorable Bill Nelson, Administrator, NASA

The Honorable Pam Melroy, Deputy Administrator, NASA

Stefanie Tompkins, Director, DARPA

FORUM 360

Public Investors in the Future of Aerospace

1100-1215 hrs // Potomac Ballroom A/B

To transition a great idea into a high-impact research program or a sustainable business, you need funding. Our panel of government experts will explain how their funding programs work, how to apply, and the opportunities provided by working with them. After the session, chat with the panelists and other government representatives about funding opportunities.

MODERATOR: Sha-Chelle Manning, Chief of Commercial Strategy, DARPA

PANELISTS:

Dyan Gibbens, Strategic Advisor and Acting CTO, AFWERX/SpaceWERX

Byron Knight, Chief Scientist, Advanced Systems and Technology Division, National Reconnaissance Office

Gynelle Steele, SBIR/STTR Deputy Program Executive, NASA

Beyond Aerospace Engineering

1130-1230 hrs // Azalea 3

It is often thought that aerospace engineers are the only discipline who make great aerospace feats happen. The reality is the aerospace sector is huge, and aerospace engineers only account for about 20% of the workforce. This workshop investigates how a diverse group of disciplines work together to bring aerospace feats to fruition.

MODERATOR: John A. Civolowsky, Director, Transformative Aeronautics Concepts Program, Aeronautics Research Mission Directorate, NASA

PANELISTS:

Therese Jones, Senior Directory of Policy, Satellite Industry Association

Mira Marquez, Product Designer, Skydio



Networking Lunch in Exposition Hall

1230-1400 hrs // Prince George D/E



RLA: Speed Mentoring

1430-1600 hrs // Cherry Blossom Ballroom

Leaders in the aerospace industry take time to meet with the Rising Leaders participants and share their experiences. This event is a great way to get insight and make new contacts.

FORUM 360

Private Investors in the Future of Aerospace

1430-1530 hrs // Potomac Ballroom A/B

To transition a great idea into a high-impact research program or a sustainable business, you need funding. Our panel of industry experts will explore sources of funding and technology development, from accelerators to venture capital to corporate investment.

MODERATOR: Van Truskett, Executive Director, Texas Innovation Center, University of Texas at Austin

PANELISTS:

Nicole Conner, Partner, Airbus Ventures

Hailey Nichols, Founder, Locus Lock

Mislav Tolusic, Co-Managing Partner and CIO, MarlinSPIKE

Sherman Williams, Managing Partner, Academy Investor Network; Mentor/Entrepreneur in Residence, Techstars Los Angeles

FORUM 360

The Secret to Innovative Success: Uncovering Actual Customer Needs

1530-1700 hrs // Potomac Ballroom A/B

The most common mistake innovation teams make is failing to identify an actual customer need. Teams tend to jump from a problem to a solution, and it is almost always wrong.

This interactive workshop describes fundamental value-creation practices that significantly improve innovative outcomes, starting with identifying the actual customer need. Participants will learn concepts they can immediately use to improve their innovative performance.

SPEAKER: Curtis R. Carlson, Professor of Practice, Northeastern University; Distinguished Executive in Residence, Worcester Polytechnic Institute; former President and CEO, SRI International

FACILITATOR: Scott Fouse, AIAA Aerospace R&D Domain Lead and AIAA SciTech Forum Executive Producer



Welcome Happy Hour in the Exposition Hall

1730-1900 hrs // Prince George D/E

Take this opportunity to engage new contacts and refresh old ones.

PROGRAM

WEDNESDAY // 25 JANUARY



NETWORKING BREAKS

0900-0930 hrs // Prince George D/E
1530-1600 hrs // Prince George D/E



EXPOSITION HALL OPEN

0845-1600 hrs // Prince George D/E

PLENARY

The Future of Remote Sensing

0800-0900 hrs // Potomac Ballroom A/B

What is the future of remote sensing, and how can we use it to resolve the biggest science and societal questions?

MODERATOR: Lt. Gen. Larry James, USAF (Ret.), Deputy Director, NASA Jet Propulsion Laboratory

SPEAKERS:

Johnathon Caldwell, Vice President and General Manager, Military Space, Lockheed Martin Space

Sabine Klauke, Chief Technical Officer, Airbus

Jerry M. Wohletz, President and CEO, Draper

FORUM 360

Monitoring Planet Earth

1000-1130 hrs // Potomac Ballroom A/B

Recent acceleration of technologies and processes has enabled the use of remote sensing to map wildfires, track the effects of climate change, and monitor conflicts. Hear successful applications of remote sensing and the challenges involved to monitor planet Earth.

MODERATOR: Al Tadros, Chief Technology Officer, Redwire Space

PANELISTS:

John Choi, Director, Special Purpose UAS Quick Reaction Capability, Special Programs, General Atomics Aeronautical Systems

Marcus Johnson, Project Manager, Advanced Capabilities for Emergency Response Operations Project, NASA Ames Research Center

Cathy Olkin, Principal Scientist, Muon Space

Julie Robinson, Deputy Director, Earth Science, NASA

Rob Stevens, Director, Concept Design Center, The Aerospace Corporation

Barry Tilton, Technology Evangelist, Maxar Technologies

Workforce of the Future—What Does Successful Diversity, Equity, and Inclusion Look Like?

1000-1130 hrs // Cherry Blossom Ballroom

Learn about innovations in fostering and increasing DEI in the aerospace industry, hear from leaders on the DEI journey and how they view success, and inspire attendees with practical tools they can use to foster and increase DEI.

MODERATOR: Anna-Maria Rivas McGowan, Ph.D., Agency Senior Executive for Complex Systems Design, NASA ST

PANELISTS:

Rhom Erskine, Vice President, Global Diversity & Inclusion, Lockheed Martin

Steven Holz, Assistant Project Manager, University Innovation (UI) Project, NASA Langley Research Center

Sonya T. Smith, Professor, Department of Mechanical Engineering, Howard University; MLK Visiting Professor, Department of Aeronautics and Astronautics, MIT



RLA Lunch Panel: I Got My Dream Job, Now What?

1200-1330 hrs // Cherry Blossom Ballroom

The real world moves at a much slower pace than university. Promotions and leadership roles can be 10-20 year goals. Join us to discuss “where do I go from here?” Limited box lunches available for the first 120 attendees.



Networking Lunch in Exposition Hall

1230-1400 hrs // Prince George D/E

FORUM 360

Past, Present, and Future Mars Exploration

1430-1600 hrs // Potomac Ballroom A/B

Two decades of continuous presence at and on Mars have revolutionized our understanding of our neighboring rocky planet. Hear how successful planetary remote sensing allows us to project forward to the next decade of exploration in preparation for a future human mission to Mars.

MODERATOR: Bhavya Lal, Associate Administrator for Technology, Policy and Strategy, NASA

PANELISTS:

Hitoshi Kuninaka, Director General, Institute of Space and Astronautical Science (ISAS), JAXA

Clare Luckey, Artemis Mission Integrator/Mars Crew Transit Operations Co-Lead, NASA Johnson Space Center

Michael Meyer, Lead Scientist, Mars Exploration Program, NASA

Joe Parrish, Mars Exploration Program Manager, NASA Jet Propulsion Laboratory

William H. Pickering Lecture: Discoveries with the James Webb Space Telescope

1630-1730 hrs // Potomac Ballroom A/B

Gardner will discuss what scientists have learned in the first six months of science results from the telescope and look ahead to additional results expected in the coming years.

Jonathan Gardner, Deputy Senior Project Scientist, James Webb Space Telescope, NASA Goddard Space Flight Center

2023 Durand Lecture for Public Service

1800-1900 hrs // Potomac Ballroom A/B

“A Half Century of Research in Fluid Dynamics”

Wesley Harris, Charles Stark Draper Professor of Aeronautics and Astronautics, Massachusetts Institute of Technology

PROGRAM

THURSDAY // 26 JANUARY



NETWORKING BREAKS

0900-0930 hrs // Prince George D/E
1530-1600 hrs // Potomac Foyer



EXPOSITION HALL OPEN

0845-1400 hrs // Prince George D/E

PLENARY

Digital Innovation: Accelerating Digital Tech to Transform the Aerospace Industry

0800-0900 hrs // Potomac Ballroom A/B

Digital technologies are transforming the aviation industry, promising greater efficiencies, increased safety and solutions for our most pressing concern: climate change. Join Guillermo Jenaro Rabadan, Project Executive - Head of Digital Design & Manufacturing at Acubed, Airbus' innovation center in Silicon Valley, as he shares how the acceleration of digital platform development and adoption will revolutionize everything from engineering and manufacturing to airline customer relations and passenger experience.

SPEAKER: Guillermo Jenaro Rabadan, Project Executive, Advanced Digital Design and Manufacturing, Acubed

FORUM 360

Addressing Increasing Complexity in Aerospace Systems

1000-1100 hrs // Potomac Ballroom A/B

As the complexity of aerospace systems and systems of systems continues to increase at a rapid rate, there are profound consequences for system performance, reliability, affordability, manufacturability, supportability, and other characteristics. New technologies, including digital twins, virtual reality, artificial intelligence, and machine learning, can help address and mitigate these issues. Experts in the AIAA Complex Aerospace Systems Exchange will discuss how increasing system complexity and systems engineering is being addressed in their organizations.

MODERATOR: Michael Grieves, Executive Director, Digital Twin Institute

PANELISTS:

Sophia Bright, Vice President, US Navy Product Support, The Boeing Company

Jill M. Marlowe, Digital Transformation Officer, NASA

Ryan Tintner, Vice President of Digital Transformation, Northrop Grumman

Karen Willcox, Director, Oden Institute for Computational Engineering and Sciences, University of Texas at Austin

FORUM 360

Transformative Systems Engineering Success Stories

1100-1200 hrs // Potomac Ballroom A/B

From digital twins to human-machine teaming, new digital techniques and technologies offer the opportunity to revolutionize systems engineering. Hear from industry leaders on the secrets of their success with transformative systems engineering.

FACILITATOR: Marilee Wheaton, Systems Engineering Fellow, The Aerospace Corporation; President, INCOSE

SPEAKERS:

Don Farr, Senior Technical Fellow, The Boeing Company

Olivia Pinon Fischer, Senior Research Engineer, Chief, Digital Engineering Division, Aerospace Systems Design Laboratory, Georgia Institute of Technology

Corbett Hoenninger, Senior Vice President, Engineering, Sierra Space



Networking Lunch in Exposition Hall

1230-1400 hrs // Prince George D/E

FORUM 360

Humans and Autonomy

1430-1600 hrs // Potomac Ballroom A/B

Recent military, civil, and commercial activities indicate that human-machine teaming is poised to become a key area of research and development in aerospace. Hear from industry experts on methodologies and technologies developed to enable safe, trusted, and effective integration of humans and complex machines. They will also address the challenges of human-machine teaming, including legal, moral, and ethical issues, safety concerns, and workforce needs.

MODERATOR: John Tylko, Chief Innovation Officer, Aurora Flight Sciences, A Boeing Company

PANELISTS:

Kailah Cabral, Humans and Autonomy Research Engineer, Aurora Flight Sciences

Mary (Missy) Cummings, Professor of Robotics and AI, George Mason University

Amy Pritchett, Department Head, Aerospace Engineering, Penn State University

Women at SciTech Panel Session and Social Hour: Leadership, Innovation, and Intersectionality

1800-2000 hrs // Potomac Ballroom A/B

Our distinguished panelists will discuss their leadership and innovation journeys, explore how leadership, innovation, and intersectionality combine to shape leaders and the workforce of today and tomorrow. Join us for an evening of networking and inspiring conversation.

MODERATOR: Melissa Sampson, Space Infrastructure, Strategy & Business Development Senior Manager, Lockheed Martin Commercial and Civil Space

PANELIST:


Enanga Daisy Fale, Sr. Systems Engineering Manager, Northrop Grumman Corporation; Director, Aerospace SIG (ASIG), National Society of Black Engineers (NSBE)

CDR Emily "Hawking" Shilling, USN, PMA-281 Naval Mission Planning Systems Military Deputy Program Manager


FIND SUCCESS WITH AIAA ONLINE COURSES

SPRING COURSE OFFERINGS

AIAA online short courses help you stay sharp while improving your knowledge base. We're committed to assisting in your professional development year-round. AIAA is offering 26 courses this spring featuring an array of disciplines. Enroll in an upcoming course.

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Most courses are available on demand.

Space Mission Operations

 Starts 30 January

AI for Air Traffic Safety Enhancement

 Starts 7 February

Complex Systems Competency

 Starts 15 February

Technical Writing Essentials for Engineers

 Starts 21 February

Electric VTOL Aircraft Design: Theory and Practice

 Starts 28 February


Design of Space Launch Vehicles

 Starts 6 March

Agile Systems Engineering

 Starts 13 March

Design of Modern Aircraft Structures

 Starts 21 March

Introduction to Propellant Gauging

 Starts 28 March

Optimal Control for Unpiloted Aerial Vehicles

 Starts 5 April


Overview of Python for Engineering Programming

 Starts 11 April

Hypersonic Flight Vehicle Design and Performance

 Starts 17 April


Design of Gas Turbine Engines: From Concept to Details

 Starts 19 April

Electrochemical Energy Systems for Electrified Aircraft Propulsion: Batteries and Fuel Cell Systems

 Starts 19 April

Understanding Aircraft Noise: From Fundamentals to Design Impacts and Simulations

 Starts 25 April

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PROGRAM

FRIDAY // 27 JANUARY

PLENARY

Making Sci-Fi a Reality

0800-0900 hrs // Potomac Ballroom A/B

“Long before the first Soviet and American spaceflights... American science fiction heroes were rocketing off to new locations.” Learn how our love for science fiction has helped make the impossible a reality. Weitekamp will discuss her most recent book, *Space Craze: America's Enduring Fascination with Real and Imagined Spaceflight*. Bring your copy and get it autographed after the session.

SPEAKER: Margaret Weitekamp, Department Chair, Space History, and Curator, Cultural History of Spaceflight, Smithsonian National Air and Space Museum

Teacher Friday: Educator Professional Development Workshop

0900-1400 hrs // Potomac C

Meet and learn from educators and engineers as they discuss the aerospace challenges of the 21st century. Dive into STEM concepts for your classroom or out-of-school-time club/organization. Attendees will discover newly developed standards-based curriculum and integrated projects that can be used in the classroom.



NETWORKING BREAKS

0900-0930 hrs // Potomac Foyer

FORUM 360

Creating Revolutionary Capability: Connecting Science Fiction and Science Vision

1000-1130 hrs // Potomac Ballroom A/B

Join leaders from across aerospace and related industries as they consider historical and forward-looking views of how science fiction has influenced technologies, capabilities, and advancements within aerospace and has made revolutionary capabilities a reality.

MODERATOR: Graham Warwick, Executive Editor, Technology, Aviation Week

PANELISTS:

William Gerstenmaier, Vice President, Build and Flight Reliability, SpaceX

Zachary Jackowski, Chief Engineer - Spot, Boston Dynamics

Ben Marchionna, Director of Technology and Innovation, Electra.aero

Bartlett Russell, Deputy Director, Defense Sciences Office, DARPA

FOR MOST UP-TO-DATE
SCHEDULE CHECK ONLINE



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.

CLASS OF 2023 AIAA ASSOCIATE FELLOWS

MEET AND GREET

Tuesday 24 // 1630-1730 hrs // Potomac D

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 2023 Associate Fellows. This is a free event.

PREMIER LECTURES

2023 AIAA Durand Lecture for Public Service

Wednesday 25 // 1800-1900 hrs // Potomac Ballroom A/B

This lecture 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 mankind.

“A Half Century of Research in Fluid Dynamics”

Wesley Harris, Charles Stark Draper Professor of Aeronautics and Astronautics, Massachusetts Institute of Technology

2023 AIAA Dryden Lecture in Research

Monday 23 // 1800-1900 hrs // Potomac Ballroom A/B

The lecture 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.

“Hypersonic Wall Bounded Viscous Flows: Theory, Ground Test, and Flight”

Rodney D. Bowersox, Associate Dean for Research, Ford I Professor of Aerospace Engineering, and University Regents Professor, Texas A&M University

EDUCATION AWARD

2022 J. Leland Atwood Award

Monday 23 // 0800 hrs // Potomac Ballroom A/B

John Sullivan, Purdue University

For extraordinary contributions to aerospace education and research, including pioneering work on design-build-test student projects, international leadership in the development of pressure- and temperature-sensitive paints for aerodynamic measurements, and statesman-like academic leadership, and for the widespread and profound impact on his students and the broader aerospace industry.

LITERARY AWARDS

2023 AIAA Children’s Literature Award

Thursday 26 // 0800 hrs // Potomac Ballroom A/B

This award is presented for an outstanding, significant, and original book in aeronautics and astronautics published within the last 2 years.

Clayton Anderson, Sleeping Bear Press

Letters from Space

2023 AIAA Gardner-Lasser Aerospace History Literature Award

Thursday 26 // 0800 hrs // Potomac Ballroom A/B

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.

Diane Vaughan, Columbia University

Dead Reckoning: Air Traffic Control, System Effects, and Risk

2023 AIAA History Manuscript Award

Thursday 26 // 0800 hrs // Potomac Ballroom A/B

This award is presented for the best historical manuscript dealing with the science, technology, and/or impact of aeronautics and astronautics on society.

Cathleen S. Lewis, Smithsonian Institution National Air and Space Museum

Cosmonaut: A Cultural History

2023 AIAA Pendray Aerospace Literature Award

Thursday 26 // 0800 hrs // Potomac Ballroom A/B

The award is presented for an outstanding contribution or contributions to aeronautical and astronautical literature in the relatively recent past.

“Bala” Balakumar Balachandran, University of Maryland

Applied Nonlinear Dynamics: Analytical, Computational, and Experimental Methods and Vibrations, Third Edition

RECOGNITION

SERVICE AWARD

2023 AIAA Mary W. Jackson Diversity and Inclusion Award

Monday 23 // 0800 hrs // Potomac Ballroom A/B

Eric J. Ruggiero, GE Aerospace

For leadership in bringing the importance of diversity, equity and inclusion to the forefront for the aerospace community through sustained efforts through professional societies.

TECHNICAL EXCELLENCE AWARDS

2023 AIAA Aerospace Software Engineering Award

Tuesday 24 // 0800 hrs // Potomac Ballroom A/B

Elizabeth T. Whitaker, Georgia Tech Research Institute/ Georgia Institute of Technology

For twenty-five years of expert knowledge contributions researching, teaching and applying Artificial Intelligence (AI) and Machine Learning (ML) techniques primarily to DARPA, IARPA, and DOD aviation application.

2023 AIAA Air Breathing Propulsion Award

Wednesday 25 // 0800 hrs // Potomac Ballroom A/B

Feng Liu, University of California, Irvine

For the turbine-burner engine innovation and other high-impact contributions of computational methods for turbomachinery aerodynamics.

2023 AIAA Energy Systems Award

Wednesday 25 // 0800 hrs // Potomac Ballroom A/B

Bengt Aake Sundén, Lund University

For significant contributions to the development of efficient innovative cooling concepts of gas turbines and aircraft engines by pushing advanced numerical and experimental techniques to the forefront.

2023 AIAA Information Systems Award

Tuesday 24 // 0800 hrs // Potomac Ballroom A/B

Jimmie G. McEver, III, Johns Hopkins University Applied Physics Laboratory

For outstanding technical and managerial contributions to complex systems, cyberspace operations, and command and control, to include exemplary outreach efforts within the aerospace community.

2023 AIAA Mechanics and Control of Flight Award

Tuesday 24 // 0800 hrs // Potomac Ballroom A/B

Robert H. Bishop, University of South Florida

For distinguished contributions to spacecraft control systems, especially for pioneering advancements of guidance and navigation systems for the Space Shuttle and ALHAT, and precision landings.

2023 AIAA Propellants and Combustion Award

Wednesday 25 // 0800 hrs // Potomac Ballroom A/B

Suresh Menon, Georgia Institute of Technology

For his distinguished and pioneering contributions to the field of multi-scale computational modeling and simulation of turbulent and multiphase combustion in power and propulsion systems.

2023 AIAA Walter J. and Angeline H. Crichlow Trust Prize

Monday 23 // 1800-1900 hrs // Potomac Ballroom A/B

Inderjit Chopra, University of Maryland

For seminal contributions to rotorcraft fundamental research and education; milestone design projects (human-powered, DaVinci-Aerial-Screw, Mars helicopters), and distinguished service to federal agencies, industry, and professional societies.

2023 AIAA Wyld Propulsion Award

Wednesday 25 // 0800 hrs // Potomac Ballroom A/B

Rodney L. Burton, CU Aerospace, L.L.C.

For distinguished enhancement of science and innovation in the field of electric space propulsion, education of scientist engineers, and entrepreneurial leadership in aerospace engineering.

STUDENT PAPER COMPETITONS

Friday 27 // 0800 hrs // Potomac Ballroom A/B

- › **Aerodynamic Measurement Technology, Plasmadynamics and Lasers, Propellants and Combustion Student Paper Competition**
- › **Aerospace Power Systems Student Paper Competition**
- › **American Society for Composites Student Paper Award**
- › **Atmospheric Flight Mechanics Best Student Paper Competition**
- › **David P. Weaver Best Student Paper Competition**
- › **Guidance, Navigation, and Control Student Paper Competition**
- › **Harry H. and Lois G. Hilton Student Paper Award in Structures**
- › **Human-Machine Teaming Student Paper Competition**
- › **Intelligent Systems Student Paper Competition**
- › **Jefferson Goblet Student Paper Award**
- › **Lockheed Martin Student Paper Award in Structures**
- › **Meshing, Visualization, and Computational Environments Student Paper Competition**
- › **Sensor Systems and Information Fusion Student Paper Competition**
- › **SwRI Student Paper Award in Non-Deterministic Approaches**
- › **Terrestrial Energy Systems Student Paper Competition**
- › **Thermophysics Student Paper Competition**
- › **Unmanned Systems Student Paper Competition**

RECOGNITION

BEST PROFESSIONAL PAPER AWARDS

These awards will be presented at the sponsoring committee's meeting.

2021 AIAA Hybrid Rockets Best Paper

"Machine Learning Techniques for Flight Performance Prediction of Hybrid Rocket Engines" (AIAA 2021-3506)

Authors: Alessandro Zavoli, Paolo Maria Zolla, Lorenzo Federici, Mario Tindaro Migliorino, and Daniele Bianchi, Sapienza University of Rome

2021 AIAA International Space Planes and Hypersonic Systems & Technologies Best Paper

"Preliminary Study of Shock / Boundary-Layer Interactions Generated by a Sharp Fin Mounted Above a Flat Plate" (AIAA 2021-4118)

Authors: Dustin L. Otten, Lockheed Martin; and Frank K. Lu, University of Texas at Arlington

2021 AIAA Pressure Gain Combustion Best Paper

"Effects of Inlet Area Ratio on Operability of an Axial Air Inlet Rotating Detonation Combustor" (AIAA 2021-3676)

Authors: Joshua Shepard, Alexander Feleo, and Mirko Gamba, University of Michigan, Ann Arbor

2021 AIAA Propellants and Combustion Best Paper

"Modeling of Layered Ammonium Perchlorate Composite Propellant with Different Burning Rates" (AIAA 2021-1970)

Authors: Monique S. McClain, Purdue University; Brian T. Bojko, Naval Air Warfare Center Weapons Division; Simon Ray and Steven F. Son, Purdue University

2022 AIAA Electric Propulsion Best Paper

"Experimental Characterization of Wave-Induced Azimuthal Ion Velocities in a Hollow Cathode Plume" (AIAA 2022-1561)

Authors: Parker J. Roberts and Benjamin Jorns, University of Michigan, Ann Arbor; and Vernon Chaplin, Jet Propulsion Laboratory

2022 AIAA Electrified Aircraft Technology Best Paper

"Sizing and Analysis of a Lift-Plus-Cruise VTOL Aircraft with Electrified Propulsion Systems" (AIAA 2022-3513)

Authors: Imon Chakraborty and Aashutosh Aman Mishra, Auburn University

2022 AIAA Gas Turbine Engine Best Paper

"An Experimental Study on the Dynamic Ice Accretion Process over the Surfaces of the Rotating Fan Blades of an Aero-Engine Model" (AIAA 2022-2435)

Authors: Linchuan Tian, Linkai Li, Haiyang Hu, and Hui Hu, Iowa State University

2022 AIAA Guidance, Navigation and Control Best Paper

"On A Higher Order Method for Anonymous Feature Processing" (AIAA 2022-0606)

Authors: James S. McCabe, NASA Johnson Space Center

2022 AIAA Inlets Nozzles and Propulsion System Integration Best Paper

"Summary of the 5th Propulsion Aerodynamics Workshop Nozzle Test Case: Heated Nozzle Exhaust Passing Over a Film-cooled Plate" (AIAA 2022-0086)

Authors: Nicholas J. Georgiadis and Mark P. Wernet, NASA Glenn Research Center; Darrell S. Crowe, Air Force Research Laboratory; Carolyn D. Woeber and Kristen Karman-Shoemake, Cadence Design Systems; and Chad M. Winkler, The Boeing Company

2022 AIAA Intelligent Systems Best Paper

"Deep Reinforcement Learning for Autonomous Aerobraking Maneuver Planning" (AIAA 2022-2497)

Authors: Giusy Falcone and Zachary R. Putnam, University of Illinois Urbana-Champaign

2022 AIAA Joint Liquid Propulsion and Propellants and Combustion Best Paper Award

"Simultaneous OH, CH₂O and flow field imaging of near blowoff dynamics" (AIAA 2022-2348)

Authors: Raghul Manosh Kumar, Subodh Adhikari, Benjamin L. Emerson, and Timothy C. Lieuwen, Georgia Institute of Technology; and Christopher A. Fugger, Special Energies, LLC

2022 AIAA Modeling and Simulation Best Paper

"Just Noticeable Differences for Variations in Quasi-Steady Stall Buffet Model Parameters" (AIAA 2022-0510)

Authors: Arne Imbrechts, Coen C. de Visser, and Daan M. Pool, Technische Universiteit Delft Faculteit Luchtvaart- en Ruimtevaarttechniek

2022 AIAA Multidisciplinary Design Optimization Best Paper

"Multidisciplinary design optimization with mixed categorical variables for aircraft design" (AIAA 2022-0082)

Authors: Paul Saves, Eric Nguyen Van, Nathalie Bartoli, Thierry Lefebvre, Christophe David, and Sébastien Defoort, ONERA, DTIS, Université de Toulouse; and Youssef Diouane and Joseph Morlier, ISAE-Supaero ONERA, DTIS, Université de Toulouse

2022 AIAA Pressure Gain Combustion Best Paper

"Flight Demonstration of Detonation Engine System Using Sounding Rocket S-520-31: Performance of Rotating Detonation Engine" (AIAA 2022-0232)

Authors: Keisuke Goto, Nagoya University; Ken Matsuoka, Koichi Matsuyama, Akira Kawasaki, Hiroaki Watanabe, Noboru Itouyama, Kazuki Ishihara, Valentin Buyakofu, Tomoyuki Noda, and Jiro Kasahara, Nagoya University; Akiko Matsuo, Keo University; Daisuke Nakata and Masaharu Uchiumi, Murooran Institute

RECOGNITION

2022 AIAA Sensor Systems and Information Fusion Best Paper

“Using Drone Swarms as Countermeasure of Radar Detection” (AIAA 2022-0855)

Authors: Claudia Conte, University of Naples Federico II; Sofia Verini Supplizi and Antonio Mele, Italian Air Force Academy; Giorgio de Alteriis, Giancarlo Rufino, and Domenico Accardo, University of Naples Federico II

2022 AIAA Small Satellite Best Paper Award

“On-orbit Rule-Based and Deep Learning Image Segmentation Strategies” (AIAA 2022-0646)

Authors: Shreeyam Kacker, Alex Meredith, Violet Felt, Joe Kusters, Hannah Tomio, and Kerri Cahoy, Massachusetts Institute of Technology

2022 AIAA Software Best Paper

“Automated Test Case Generation for the Verification of System and High-Level Software Requirements for Fly-by-Wire Platforms” (AIAA 2022-0254)

Authors: Reinhard Reichel, Christian Block, and Serkan Dikmen, University of Stuttgart

2022 AIAA Spacecraft Structures Best Paper

“Compressive Behavior of Isogrid Columns Fabricated with Bend-Forming” (AIAA 2022-2263)

Authors: Harsh Bhundiya, Fabien Royer, and Zack Cordero, Massachusetts Institute of Technology

2022 AIAA Systems Engineering Best Paper

“A Formal Approach to Identify Inconsistencies in Stakeholder Needs in the Context of Systems Engineering” (AIAA 2022-1469)

Authors: Hanumanthrao Kannan and Benajmin C. Jantzen, Virginia Polytechnic Institute and State University; and Bryan L. Mesmer, The University of Alabama in Huntsville

2022 Collier Aerospace HyperX Software Structures Best Paper Award

“A Study of Airframe Thermal Stresses for Hybrid Composite-Metallic Structure” (AIAA-2022-2605)

Authors: D. Scott Norwood, Scott Malaznik, Brandon M. Schneberger, Kevin M. Fuller, Jason A. Grant, Matthew T. Gill, and Jesse C. Long, Lockheed Martin Aeronautics Company; and Kevin S. Brown, Air Force Research Laboratory

LEARN MORE



BEST STUDENT PAPER AWARDS

These awards will be presented at the sponsoring committee's meeting.

2021 AIAA Hybrid Rockets Best Student Paper

“Swirl injection in hybrid PMMA combustion assessed by thermochemical imaging” (AIAA 2021-3513)

Authors: R. Mitchell Spearrin, Isabelle C. Sanders, Fabio A. Bendana, Nora G. Stacy, Kevin K. Schwarm, Fabio A. Bendana, Nora G. Stacy, and Kevin K. Schwarm, University of California, Los Angeles

2021 AIAA International Space Planes and Hypersonic Systems & Technologies Best Student Paper

“Aerothermal Uncertainty Quantification of Deployable Entry Technologies Using Multi-Fidelity Modeling” (AIAA 2021-4228)

Authors: Mario Santos and Serhat Hosder, Missouri University of Science and Technology; and Thomas K. West, NASA Langley Research Center

2022 AIAA Structural Dynamics Best Paper

“Hypersonic Fluid-Structure Interactions on a Compliant Clamped-Free Clamped-Free Panel Under the Influence of Static Shock Impingement” (AIAA 2022-0241)

Authors: Paulo B. Vasconcelos, Liam P. McQuellin, Krishna M. Talluru, and Andrew J. Neely, University of New South Wales

2022 AIAA Walter Lempert Best Student Paper

“Thomson and Collisional Regimes of In-Phase Coherent Microwave Scattering Off Small Plasma Objects” (AIAA 2022-1748)

Authors: Adam Patel, Apoorv Ranjan, Xingxing Wang, Mikhail Slipchenko, and Alexey Shashurin, Purdue University; and Mikhail N. Shneider, Princeton University

2022 AIAA Walter Lempert Best Student Paper, Honorable Mention

“Analysis of Screech Phenomena in a Mach 1.0 Jet with Linear Array Focused Laser Differential Interferometry” (AIAA 2022-1798)

Authors: Theron J. Price, Mark Gragston, and Phillip A. Kreth, University of Tennessee Space Institute


2022 AIAA Walter Lempert Best Student Paper, Honorable Mention

“Measurements of NH₃ in a Shock Tube for Investigating the Chemical Kinetics of Rocket Propellants” (AIAA 2022-1875)

Authors: Sulaiman Alturaifi and Eric L. Petersen, Texas A&M University

EXPOSITION HALL

Food Seating Area

232 4th Phase Technologies, Inc.	233 Scope AR	332 Continuum Dynamics, Inc.		533 Convergent Science	632 AIAA Career Center	633 AIAA Mid-Atlantic Section
228 Tesla	229 National Reconnaissance Office (NRO)	326 Notre Dame Turbomachinery Laboratory	 <p>Need to identify a place to meet up with friends? Make the HUB that place!</p>	529 California Institute of Technology	628 University of Maryland: Aerospace Engineering & Glenn L. Martin Wind Tunnel	629 George Mason University
226 SIAM	225 ADDITEC	324 PACE Aerospace & IT		527 Ahmic Aerospace LLC	626 University of Maryland: US Research and Operations Center	627 Aerospace Village
222 Hadland Imaging	223 Cambridge University Press	322 Flexcompute		525 Texas A&M Turbomachinery Lab	624 Electra.aero	625 SoftInWay Inc.
220 BETA CAE Systems USA, Inc.	221 Scaled Composites	320 Jet Propulsion Laboratory		521 General Atomics Aeronautical Systems, Inc.	622 Virginia Tech	623 Blue Origin
216 Mirabilis Design Inc.	217 ALTAIR	316 Intelligent Light		520 National Academies of Sciences, Engineering, and Medicine	621 National Research Council Canada	
214 Lithoz America, LLC	215 Ansys	314 Dantec Dynamics, Inc.		515 NASA	617 GE Research	
212 Space: Science & Technology	209 MSBAI			313 IC2 (Interdisciplinary Consulting Corp)	412 LaVision, Inc.	615 GE Aviation
208 Raytheon Technologies				413 Kulite Semiconductor Products, Inc.	512 Collier Aerospace - HyperX	613 Metacomp Technologies
204 Tecplot, Inc.				311 Tri Models Incorporated	408 Office of Naval Research	610 DEWESoft LLC
102				309 dSPACE	409 Calspan	508 National Institute of Aerospace (NIA)
103						
202 Spirit Aerosystems, Inc.	201 Gulfstream					511 Cadence
200 Research in Flight						611 Ennova Technologies Inc.
100						509 Force Measurement Systems Inc.
						608 ADS CFD Inc.
						507 ESTECO
						606 VirtusAero, LLC
						501 Northrop Grumman
			301 Boeing Company and Aurora Flight Sciences	401 Lockheed Martin Corporation		605 Systecon North America
						601 Hexagon

↑ ENTRANCE ↑

EXPOSITION HOURS

TUESDAY, 24 JANUARY

1200-1600 hrs // Exposition Hall Open
1730-1900 hrs // Welcome Happy Hour

WEDNESDAY, 25 JANUARY

0845-1600 hrs // Exposition Hall Open
1230-1400 hrs // Lunch with the Exhibitors

THURSDAY, 26 JANUARY

0845-1400 hrs // Exposition Hall Open

the HUB

where great minds gather



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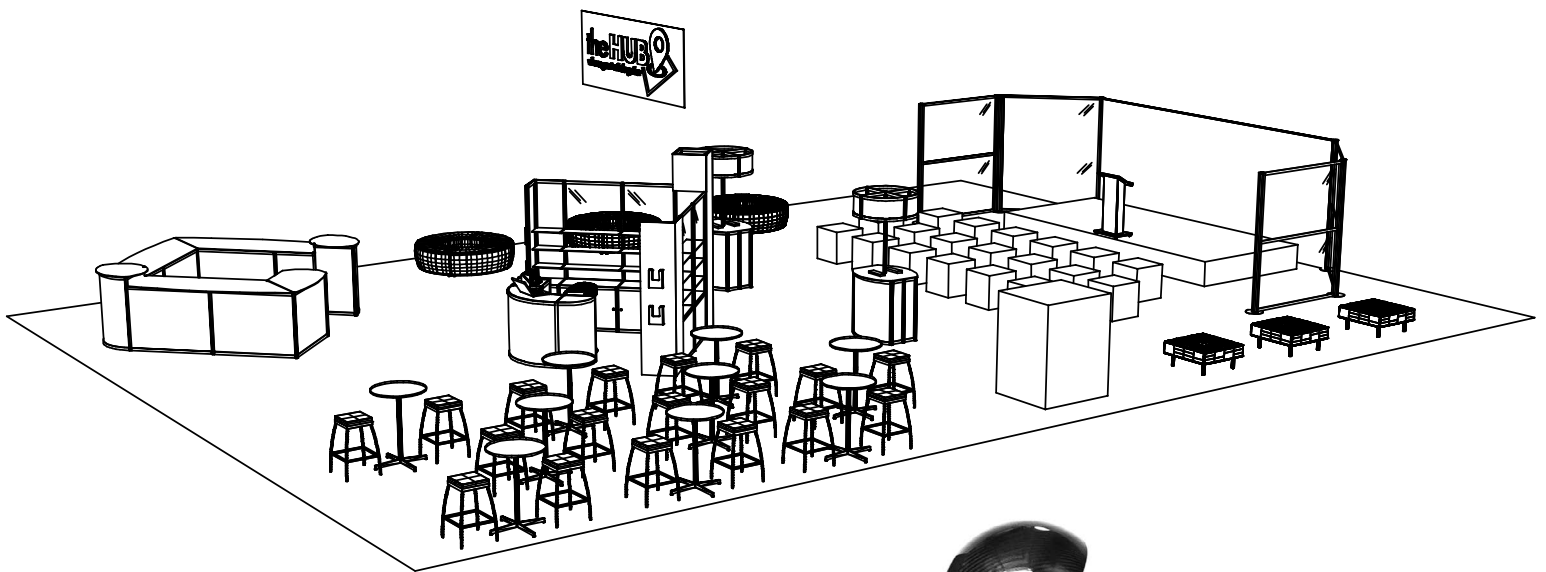


The HUB is open Tuesday-Thursday during Exposition Hall hours!

This multi-use area built into the heart of AIAA expositions features attendee-favorites like Q&As, innovating programming, charging stations, a lounge area, and more.

Check out the complete schedule of activities:

aiaa.org/scitech/program/the-hub



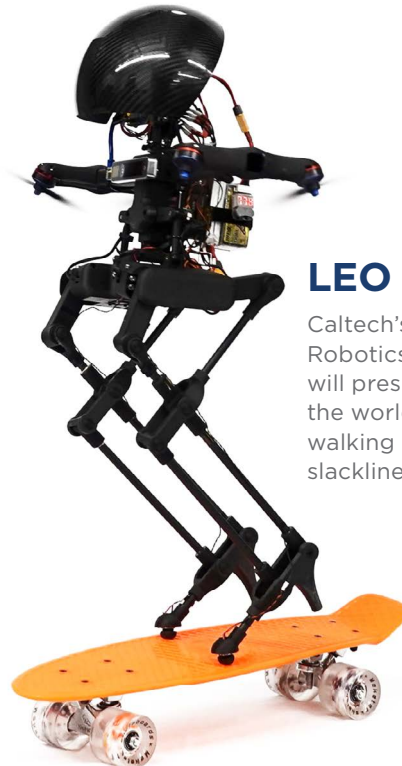
AIAA PUBLICATIONS PAVILION IN THE HUB

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Research in Flight

200

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221

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Scaled Composites is a specialty aerospace and composites development company offering design, build, and test capabilities. Founded by Burt Rutan in 1982 and located in Mojave, CA, Scaled has averaged one first flight of a unique, new airplane per year.

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Scope AR

233

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www.scopear.com



Scope AR is the pioneer of enterprise-class augmented reality solutions, delivering the industry's only cross-platform AR tools for empowering frontline workers the knowledge they need, when they need it. The company revolutionized the way enterprises work and collaborate by offering a visual "knowledge base" solution that provides effective and efficient knowledge-sharing to conduct complex remote tasks, employee training, product and equipment assembly, maintenance and repair, field and customer support, and more.

SIAM

226

3600 Market Street, 6th Floor
Philadelphia, PA 19104
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.

EXHIBITORS

SoftInWay Inc.

625

20 Burlington Mall Rd, Suite 450
Burlington, MA 01803
www.softinway.com



SoftInWay is an international engineering R&D company specializing in the development of clean, efficient, reliable turbomachinery & propulsion systems.

SoftInWay supports its customers through its integrated & automated software, AxSTREAM® for all steps of the turbomachinery design, redesign, analysis, & optimization process (including complete 3D design, thermodynamic cycles, rotor dynamics, & secondary flow & cooling system simulation). We also offer a number of engineering services & educational courses.

SoftInWay is ISO 9001:2015 & AS9100:2016 certified & committed to providing our customers with products & services that meet international quality standards. We support more than 500 companies, research labs/universities & government organizations worldwide.

Space: Science & Technology, a Science Partner Journal

212

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Washington, DC 20005
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Space: Science & Technology is an online-only, Open Access journal published in affiliation with Beijing Institute of Technology (BIT) and distributed by the American Association for the Advancement of Science (AAAS). Its goal is to publish high-quality, high-influence research articles, review articles, editorials and perspectives on the intersections, frontiers, and hot topics in the space field.

Spirit Aerosystems, Inc.

202

3801 S Oliver
Wichita, KS 67210
www.spiritaero.com



Spirit AeroSystems is one of the world's largest manufacturers of aerostructures for commercial airplanes, defense platforms, and business/regional jets. With expertise in aluminum and advanced composite manufacturing solutions, the company's core products include fuselages, integrated wings and wing components, pylons, and nacelles. Also, Spirit supports aftermarket work for commercial and business/regional jets. Headquartered in Wichita, Kansas, Spirit has facilities in the U.S., U.K., France, Malaysia and Morocco.

Systecon North America

605

14155 US Highway One, Suite 300
Juno Beach, FL 22209
www.systecon.us



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Tecplot

204

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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.

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Tesla

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Texas A&M Turbomachinery Lab

525

1485 George Bush Drive W., TAMU 3254
College Station, TX 77843
<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.

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EXHIBITORS

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.”

Tri Models Incorporated

311

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University of Maryland UAS Research and Operations Center

626

44181 Airport Rd
California, MD 20619
https://uroc.umd.edu/



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Aerospace Engineering & GLMartin Wind Tunnel @University of Maryland

628

3179 Glenn L Martin Hall
College Park, MD 20742
aero.umd.edu



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Virginia Tech

622

460 Old Turner Street,
133 Randolph Hall
Blacksburg, VA 24061
www.aoe.vt.edu



The Kevin T. Crofton Department of Aerospace and Ocean Engineering is the fast growing graduate program in the College of Engineering. We are listed as #14 in US News and Reports. We offer PhD in aerospace engineering with six discipline areas, MS in aerospace or ocean engineering, M.Eng in aerospace engineering, certificate program in naval engineering, distance learning options for working professionals, and 64 graduate level courses offered each academic year.

VirtusAero, LLC

606

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GENERAL INFORMATION

AIAA Registration Hours

Registration is located in the Convention Center Prefunction area on the convention center side of the hotel, ballroom level.

SUN, 22 JAN 1500-1900 hrs	MON, 23 JAN 0700-1800 hrs	TUES, 24 JAN 0700-1730 hrs
WED, 25 JAN 0700-1600 hrs	THUR, 26 JAN 0700-1600 hrs	FRI, 27 JAN 0700-1730 hrs

Wi-Fi Internet Access On Site

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 Gaylord? Please use the Wi-Fi information provided to you upon check-in.**

Network Name: **SciTech23**
Password: **aiascitech!**

Social Media at #AIAASciTech

Connect with us on social media and tag us in your posts! Visit our Linktree at [@AIAAerospace](#) to stay up to date and never miss a beat.

Conference Proceedings


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 17 January 2023. Please follow the instructions below to access the proceedings:

- To view proceedings visit [aiaa.org](#) >ARC>Meeting Papers.
 - Log in with the link at the top right of the page.
 - Select the appropriate forum from the list.
 - Search for individual papers** with the **Quick Search** toolbar at the top of the page:
 - By paper number, click on the “Anywhere” dropdown and select “Find by paper,” select the forum year, and enter the paper number.
 - Use the Search textbox to find papers by author, title, or keyword. The Advanced Search link provides additional search information and options.
- Direct any questions concerning access to proceedings and/or ARC to arcsupport@aiaa.org.

Be sure to catch all the technical presentations from authors on the event’s platform and after the event in the **AIAA Video Library**. Access to these videos is included with your conference proceedings. [video.aiaa.org](#)



Manuscript Corrections

- The manuscript in the proceedings  is the version of record and may not be edited or replaced. Corrections to manuscripts will be available through the Crossmark feature. To view corrections made to a manuscript click the Crossmark icon, located on every article’s webpage and PDF.
- Corrections **will be available online** approximately 15 business days after the last day of the conference.

Certificate of Attendance

All attendees will receive a Certificate of Attendance on the last day of the AIAA forum via email. Claims of hours or applicability toward professional education requirements are the responsibility of the participant.

Keeping You Safe at AIAA SciTech Forum

The health and safety of our attendees is very important to us as we return to in-person events. While masks will not be required, we do highly encourage you to wear one. Health and safety requirements to attend this event are subject to change at any time.

By registering for this event, you agree to adhere to any health and safety requirements in place now or adjusted between now and during the event imposed by a governmental authority, the event facility, or AIAA.

You understand that travel and gathering involves risk of sickness, including sickness from COVID-19, and you voluntarily assume that risk. On behalf of yourself and your family) you waive and release AIAA and its directors, officers, partners, employees, and agents from and against claims, liabilities and expenses arising from injury, sickness or death from contraction or spread of COVID-19 or other communicable disease due to travel to or attendance at an event hosted by AIAA. You also understand, that currently, there is no vaccination or proof of vaccination requirement for attendees.

You agree to not attend this or any AIAA event, and you agree to promptly depart any event at which you are already in attendance, if you feel ill or had recent exposure to a COVID-19 case.

Failure to comply with all safety protocols and requirements as listed or related directions from AIAA or facility representatives on-site may result in the loss of the right to attend or participate in AIAA events, including forfeiting any registration fees paid.

Contact an AIAA staff member with any on-site questions or issues.

Badge Policy

AIAA forum badges are provided to those individuals who have paid for a registration to the event. Badges must be worn at all times to participate in all forum activities. Badges are not provided at the registration desk for committee meetings attendance. In order to obtain an AIAA SciTech Forum badge, one must register for the forum.

Nondiscriminatory Practices

AIAA accepts registrations irrespective of age, race, creed, sex, sexual orientation, color, physical handicap, and national or ethnic origin.

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It is the policy of AIAA to maintain a professional environment at its events that is free from all forms of discrimination, harassment and conduct that can be considered unprofessional, disruptive, inappropriate or discourteous. Full details can be found at aiaa.org/about/Governance/Anti-Harassment-Policy

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Photos, video, or audio recording of sessions or exhibits, as well as the unauthorized sale of AIAA-copyrighted material, is prohibited.

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Attendance at, or participation in, this American Institute of

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Membership

AIAA is your vital lifelong link to the collective creativity and brainpower of the aerospace profession and a champion for its achievements. aiaa.org/member.

Employment Opportunities

AIAA members can post and browse resumes, browse job listings, and access other online employment resources by visiting the AIAA Career Center at careercenter.aiaa.org.

AUTHOR & SESSION CHAIR INFORMATION

Speakers' Briefing in Session Rooms

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' Briefing preparation slides will be provided in each session room. Speakers' Briefings will be held, **23-27 January: 0730 hrs**

Speaker Ready Room

Speakers who wish to practice their presentations may do so at **Potomac A Reg Desk, ballroom level of the convention center side of the hotel**. A sign-up sheet will be posted on the door. In consideration of others, please limit practice time to 30-minute increments.

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 Wednesday, 1 February**.

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.

"No Paper, No Podium" and "No Podium, No Paper" Policies

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>.

COMMITTEE MEETINGS



**MOST UPDATED
LISTING OF
MEETING CAN
BE FOUND HERE**

TIME	COMMITTEE AND ANCILLARY MEETINGS/EVENTS	ROOM
Sunday, 22 January		
0900-1200	Council Leadership Training	National Harbor 2
1330-1700	Council of Directors Workshop on Future Forums Implementation	National Harbor 2
1400-1530	APATC New Member Orientation	National Harbor 9
1500-1600	APATC Education Subcommittee	Chesapeake 1
1500-1600	APATC Honors and Awards Subcommittee	Chesapeake 2
1500-1600	APATC Liaisons Subcommittee	Chesapeake 3
1500-1600	APATC Membership and Nominations Subcommittee	Chesapeake 4
1500-1600	APATC Planning Subcommittee	Chesapeake 5
1500-1600	APATC Publicity and Publications Subcommittee	Chesapeake 7
1530-1600	Diversity Scholars Orientation	Chesapeake 6
1530-2045	Ground Test Technical Committee (GTTC) Subcommittee Meetings	National Harbor 10
1600-1700	APATC Technical Activities	National Harbor 9
1700-1800	APATC Steering Committee	Ft. Washington Boardroom
1700-1800	International Student Conference - Orientation	Potomac 1
1700-1900	Integration Group Meeting	Mezzanine Conference Room 1*
1730-1900	2023 AIAA Walter J. and Angeline H. Crichlow Trust Prize Reception (invite only)	Cherry Blossom Ballroom
1730-2030	Structures Technical Committee Lecture Meeting	Potomac C
1800-1830	SciTech 101	National Harbor 11
1800-1900	Propulsion and Energy Group Leadership Team	Presidential Boardroom
1800-2000	Aircraft Technology, Integration, and Operations Group Meeting	National Harbor 1
1800-2100	Applied Aerodynamics Technical Committee Meeting	Potomac D
1900-2100	Aerospace Design & Structures Group	National Harbor 3
1900-2130	Committee on Higher Education Meeting	National Harbor 2
1900-2200	GNC Graduate Student Paper Competition	National Harbor 15
Monday, 23 January		
0900-0930	International Meet & Greet with AIAA's International Activities Group	Potomac Foyer
0900-1200	NIA TAC	Presidential Boardroom
0930-1030	Young Professionals Group Meeting	National Harbor 1
0930-1330	International Student Conference - Team	Mezzanine Conference Room 1*
0930-1330	International Student Conference - Masters	Mezzanine Conference Room 2*
0930-1330	International Student Conference - Undergrad	Mezzanine Conference Room 3*
1100-1400	Integration and Outreach Division Meeting	National Harbor 9
1200-1330	Aerospace Sciences Group Meeting	National Harbor 1
1200-1330	Nuclear and Future Flight Propulsion Tech Committee Meeting	Potomac D
1200-1330	CFD2030 Integration Committee Meeting	Potomac C
1500-1630	Journal of Propulsion and Power Editors and Advisory Board Meeting	National Harbor 1
1500-1700	Public Policy Committee Annual In-Person Meeting	Potomac C
1700-1830	AIAA Journal Editors and Advisory Board Meeting	Potomac D

COMMITTEE MEETINGS

TIME	COMMITTEE AND ANCILLARY MEETINGS/EVENTS	ROOM
1730-1930	Systems Engineering Technical Committee Meeting	National Harbor 9
1800-1850	FDTC Theoretical Fluid Mechanics	Chesapeake 3
1800-1850	FDTC High Speed FSI	Chesapeake 9
1800-1900	Steering Committee Meeting for HyTASP TC	National Harbor 1
1800-1900	FDTC Laminar Flow Control DG	Chesapeake 10
1800-1900	FDTC Large-Eddy Simulation DG	Chesapeake 11
1800-1900	FDTC Nonequilibrium DG	Chesapeake 12
1800-1900	FDTC Active Flow Control Database	Ft. Washington Boardroom
1800-1900	FDTC Uncertainty Quantification in Fluid Dynamics DG	Chesapeake B
1800-1900	APATC Low Boom / Supersonic Activities DG	Chesapeake C
1800-1930	FDTC Turbulence Modeling Benchmarking DG	Chesapeake 2
1800-2000	AIAA ICME Working Group	Chesapeake A
1800-2000	MVCE Meshing Subcommittee	Chesapeake 5
1800-2000	Terrestrial Energy Systems Technical Committee Meeting	Presidential Boardroom
1800-2100	Information Systems Group Meeting	Mezzanine Conference Room 1*
1800-2200	Supersonic Aircraft Steering Group	National Harbor 15
1830-2030	University of Maryland Aerospace Alumni Reception	Cherry Blossom Ballroom
1900-1950	FDTC Massively Separated Flows	Chesapeake 6
1900-2000	AMT Diversity and Inclusion Subcommittee	Chesapeake 7
1900-2000	FDTC High-Order CFD Methods DG	Chesapeake 1
1900-2000	FDTC High Speed Flow Control	Ft. Washington Boardroom
1900-2000	AMT Publications Subcommittee	Mezzanine Conference Room 6*
1900-2000	AMT Awards Subcommittee Meeting	Mezzanine Conference Room 2*
1900-2000	AMT Conference Planning Subcommittee	Mezzanine Conference Room 3*
1900-2030	FDTC Transition DG	Chesapeake 4
1900-2030	APATC Workshop Collaboration DG	Chesapeake 8
1900-2100	Propellants and Combustion Technical Committee Meeting	National Harbor 2
1900-2200	HyTASP Technical Committee Meeting	National Harbor 1
1900-2230	Aircraft Design Technical Committee Meeting	Potomac C
2000-2100	FDTC Reduced-Complexity Modeling and Analysis of Fluids Flows	Chesapeake 2
2000-2200	MVCE Geometry Modeling Working Group	National Harbor 9
2100-2200	FDTC The Physics and Control of Leading Edge Vortices on Swept Wings	Chesapeake 2
Tuesday, 24 January		
0800-1130	GTTC Wind Tunnel Model Design Guidebook WG	National Harbor 9
0830-1200	Student Awards Breakfast	Potomac C
0900-0930	International Meet & Greet with AIAA's International Activities Group	Potomac Foyer
0900-1100	GTTC High Speed WT Calibration WG	Potomac D
0930-1100	AIAA Gas Turbine Engine Technical Committee	National Harbor 1
1000-1115	IFAR Early Career Forum	Cherry Blossom Ballroom

COMMITTEE MEETINGS

TIME	COMMITTEE AND ANCILLARY MEETINGS/EVENTS	ROOM
1000-1200	Ethics Committee	Ft. Washington Boardroom
1200-1300	Space Operations & Support Technical Committee	Presidential Boardroom
1200-1300	NASA Media Roundtable	Chesapeake D
1200-1400	Carbon Emissions & Sustainability Task Force Meeting	National Harbor 9
1100-1200	Journal Editors-in-Chief Meeting	Presidential Boardroom
1230-1330	AIAA Journal Subcommittee Meeting	Conference Room 1*
1230-1330	Publications Ethical Standards Subcommittee	Conference Room 2*
1300-1700	Regional Engagement Activities Division (READ) Meeting	Ft. Washington Boardroom
1300-1700	Technical Activities Division Meeting	National Harbor 1
1330-1500	Diversity Scholars/Sponsor Session	Potomac D
1400-1500	Publications Review Subcommittee	Conference Room 2*
1400-1500	Advanced Air Mobility Task Force Wrap Presentation	Potomac C
1400-1600	Content Advisory Committee	Conference Room 1*
1400-1700	Intelligent Light Customer Meetings	Conference Room 3*
1530-1700	Journal of Spacecraft and Rockets Editors and Advisory Board Meeting	National Harbor 9
1600-1730	SCALOS Meeting	National Harbor 14
1600-2000	GTTC Axis Nomenclature FG	Chesapeake 8
1630-1730	AIAA Associate Fellows, Class of 2023: Meet and Greet	Potomac D
1630-1730	FDTC Computational Methods for Multi-Phase Flows DG	Chesapeake 10
1700-1830	APATC NATO Activities DG	Chesapeake 6
1700-1900	Flight Testing Technical Committee Meeting	Conference Room 1*
1700-1900	Aerospace Power Systems Technical Committee Meeting	Conference Room 2
1730-1930	AIAA Atmospheric Flight Mechanics Technical Committee Meeting	National Harbor 11
1730-1930	Alumni and Friends of MIT Dept. of Aeronautics and Astronautics Reception	Annapolis 1
1730-2130	Supersonic Aircraft Steering Group	National Harbor 15
1800-1900	APATC Aero-Propulsive Interactions DG	Chesapeake 12
1800-1900	Women of Aeronautics & Astronautics Meeting	National Harbor 7
1800-1930	Inlets, Nozzles, and Propulsion System Integration TC Meeting	Woodrow Wilson B
1800-1930	Careers in Propellants and Combustion Panel and Networking Session	Woodrow Wilson D
1800-2000	Sensor Systems and Information Fusion TC Meeting	National Harbor 10
1800-2000	APATC Rotorcraft in Hover DG	Chesapeake 7
1800-2000	MVCE Mesh Suitability Working Group Meeting	Ft. Washington Boardroom
1800-2100	Guidance, Navigation, & Control Technical Committee Meeting	Woodrow Wilson A
1800-2100	Electric Propulsion Technical Committee	National Harbor 2
1830-2130	Liquid Propulsion Technical Committee Meeting	Woodrow Wilson C
1900-2030	Thermophysics Technical Committee Meeting	National Harbor 5
1900-2030	FDTC Fundamentals of Fluid Phenomena Subcommittee	Chesapeake 9
1900-2030	FDTC Fluid Applications and Control Subcommittee	Chesapeake 10
1900-2030	FDTC CFD Subcommittee	Chesapeake 11

COMMITTEE MEETINGS

TIME	COMMITTEE AND ANCILLARY MEETINGS/EVENTS	ROOM
1900-2100	Computer Systems Technical Committee	Conference Room 3
1900-2100	ADCA	Potomac D
1900-2100	Transformational Flight Integration and Outreach Planning Meeting	National Harbor 8
1900-2100	Aeroacoustics Technical Committee Meeting	National Harbor 1
1900-2100	Plasma Dynamics and Lasers Technical Committee Meeting	National Harbor 9
1900-2100	Space Exploration IC Meeting	Presidential Boardroom
1900-2200	Aerodynamic Measurement Technology Technical Committee Meeting	Potomac C
1900-2200	Structures Technical Committee Meeting	National Harbor 3
1900-2200	Materials Technical Committee Annual Meeting	National Harbor 4
1900-2200	Solid Rockets Technical Committee Meeting	National Harbor 6
1900-2200	Aerodynamics Technical Working Group Meeting	Potomac 1
1930-2100	Small Satellite Technical Committee	Conference Room 1*
1930-2100	High Speed Air Breathing Propulsion Committee Meeting	National Harbor 13
2000-2200	MVCE GMGW Working Group Meeting	Ft. Washington Boardroom
Wednesday, 25 January		
0830-1000	GTTC Additive Manufacturing FG	National Harbor 1
0900-1100	AIAA Publications Committee Meeting	Potomac C
1000-1130	Workforce of the Future - What Does Successful Diversity, Equity, and Inclusion Look Like?	Cherry Blossom Ballroom
1030-1200	GTTC Model Deformation WG	National Harbor 1
1100-1200	2024 AIAA SciTech Technical Program Planning	Potomac D
1130-1230	Continuing Education Committee Meeting	Presidential Boardroom
1200-1300	AMT Nominations Subcommittee	Ft. Washington Boardroom
1230-1400	GTTC Writing Quality FG	National Harbor 1
1300-1600	GTTC Future of Ground Testing WG	Potomac D
1300-1700	AIAA Council of Directors	National Harbor 9
1400-1500	Carbon Emissions & Sustainability Task Force Mid-Point Presentation	Potomac C
1500-1700	Journal of Guidance, Control, and Dynamics Editors and Advisory Board Meeting	National Harbor 1
1530-1730	Multidisciplinary Design Optimization Technical Committee Meeting	Mezzanine Conference Room 1*
1600-1700	Journal of Aerospace Information Systems Editors and Advisory Board Meeting	Presidential Boardroom
1600-1730	Lockheed Martin Strategic Participation All Hands Meeting	Potomac 1
1630-1800	Information and Command and Control Systems Technical Committee Meeting	Chesapeake 8
1730-2000	Virginia Tech Alumni & Friends	National Harbor 12
1730-2100	V/STOL Technical Committee Meeting	Ft. Washington Boardroom
1800-1900	Embry-Riddle Alumni and Friends Reception	Annapolis 1
1800-1900	APATC CFD Transition Modeling DG	Chesapeake 12
1800-1900	Supersonics Integration and Outreach Committee	National Harbor 6
1800-2000	Pressure Gain Combustion Technical Committee Meeting	National Harbor 3
1800-2000	JHTO/UCAH Hypersonic Community Career and Networking Social	Cherry Blossom Ballroom
1800-2000	APATC Surrogate Modeling DG	Chesapeake 11

COMMITTEE MEETINGS

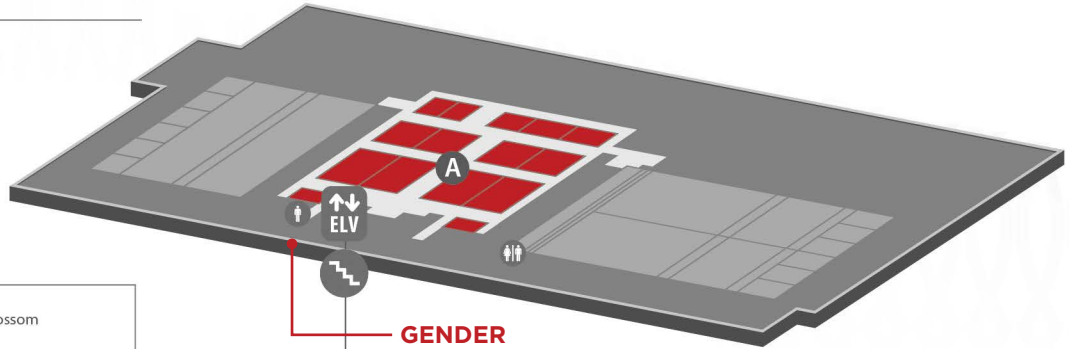
TIME	COMMITTEE AND ANCILLARY MEETINGS/EVENTS	ROOM
1800-2000	Human-Machine Teaming Technical Committee	Mezzanine Conference Room 1*
1800-2000	Energetic Components and Systems (ECS) Technical Committee Meeting	Mezzanine Conference Room 2*
1800-2100	Electrified Aircraft Technology Technical Committee	Potomac C
1800-2100	History Committee Meeting	National Harbor 5
1800-2200	Structural Dynamics Technical Committee Meeting	Baltimore 1
1830-2030	Aerospace Cybersecurity Working Group	Chesapeake 7
1830-2030	Purdue University Alumni Reception	National Harbor 11
1900-2100	AIAA Spacecraft Structures Technical Committee Annual Meeting	National Harbor 2
1900-2100	Fluid Dynamics Technical Committee Plenary Meeting	Potomac D
1900-2100	Modeling and Simulation Technical Committee Meeting	National Harbor 9
1900-2100	University of Michigan Reception	Woodrow Wilson C
1900-2100	Intelligent Systems	Woodrow Wilson D
1900-2100	AMT Update Presentations	National Harbor 13
1900-2100	Digital Engineering Integration Committee	Chesapeake A
1900-2200	Non-Deterministic Approaches Technical Committee Meeting	Woodrow Wilson A
1900-2200	Friends of UC Reception	Woodrow Wilson B
1900-2200	NC State University MAE Alumni Reception	National Harbor 7
2000-2200	Meshing, Visualization, and Computational Environments Technical Committee Meeting	National Harbor 4
Thursday, 26 January		
0800-1100	Aeronautics Domain Certification Task Force Kickoff Meeting	Potomac D
0830-1030	GTTTC Dynamic Force Measurement in Wind Tunnels FG (new)	National Harbor 1
1000-1130	AIAA Student Programs Roundtable	Potomac C
1030-1230	GTTTC Uncertainty Standard WG	National Harbor 1
1200-1400	Adaptive Structures Technical Committee	Potomac D
1230-1430	GTTTC Statistically Defensible Test Methods FG	National Harbor 1
1430-1600	Unmanned Systems Integration and Outreach Committee	Presidential Boardroom
1700-1900	Survivability Technical Committee Meeting	Presidential Boardroom
1730-2030	GTTTC Closeout Meeting	Potomac C
1800-1900	APATC Sailplane Aerodynamics DG	Chesapeake 2
1900-2130	Software Technical Committee Meeting	National Harbor 9
1800-2000	Women at SciTech Social Hour and Discussion	Potomac AB
Friday, 27 January		
0900-1400	Teacher Friday: Educator Professional Development Session at SciTech	Potomac C

*Conference rooms are located on the Mezzanine level of the Convention Center, across from the Relache Spa

VENUE MAP

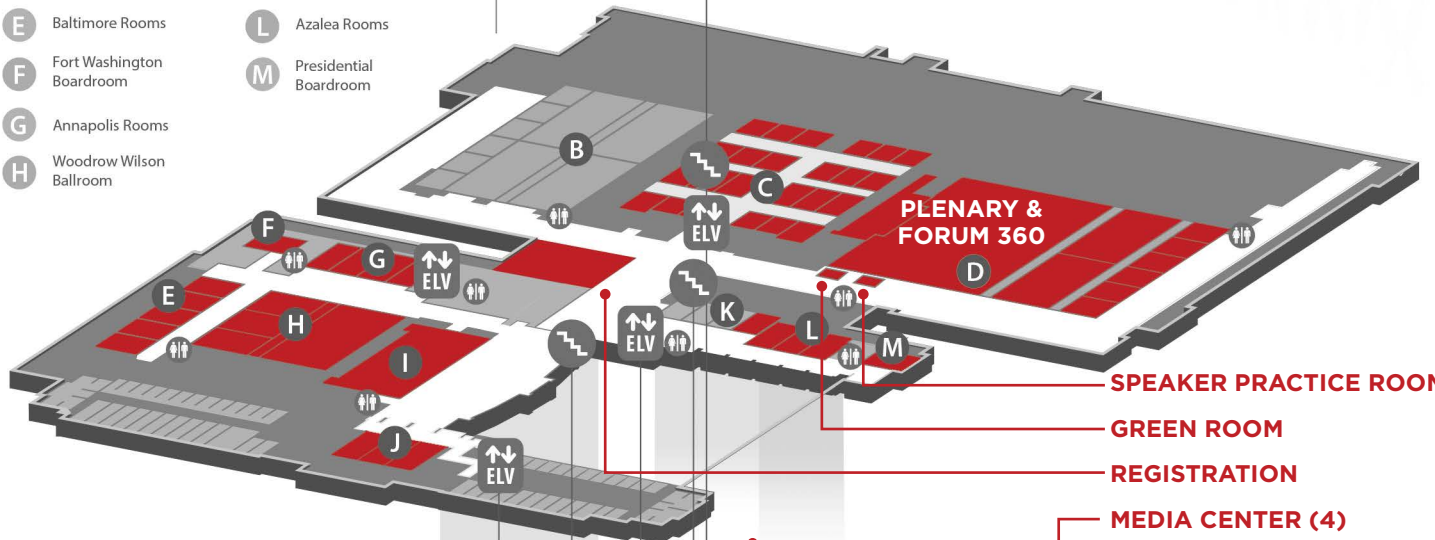
National Harbor Conference Rooms

A National Harbor Conference Rooms



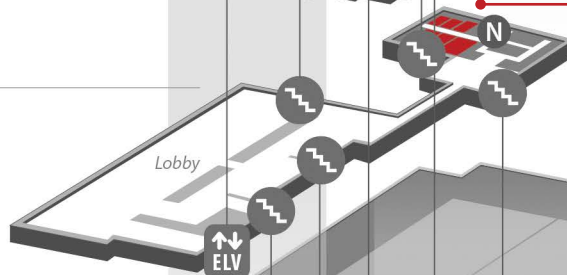
Ballroom Level

- B** Maryland Ballroom
- C** Chesapeake Conference Rooms
- D** Potomac Ballroom
- E** Baltimore Rooms
- F** Fort Washington Boardroom
- G** Annapolis Rooms
- H** Woodrow Wilson Ballroom
- I** Cherry Blossom Ballroom
- J** Magnolia Rooms
- K** Camellia Rooms
- L** Azalea Rooms
- M** Presidential Boardroom



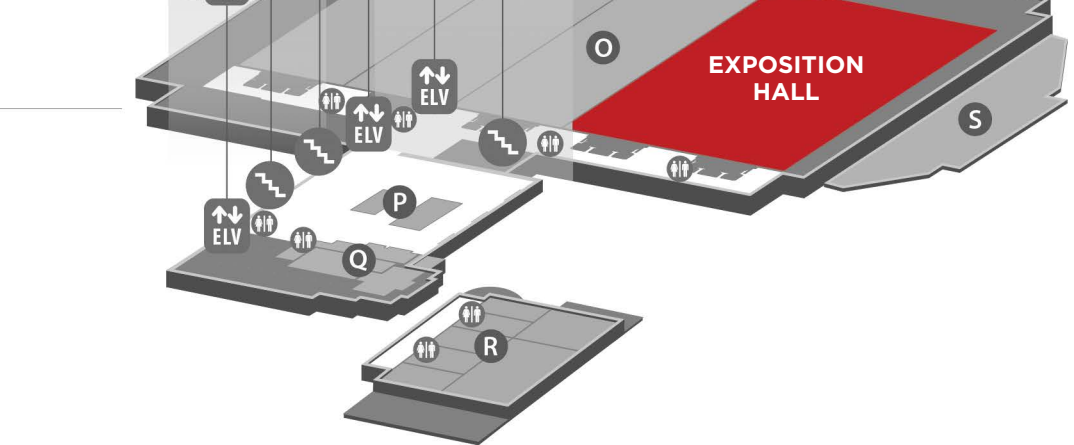
Lobby Level

N Mezzanine Conference Rooms



Lower Atrium

- O** Prince George's Exhibition Hall
- P** Town Square
- Q** Eastern Shore Meeting Space
- R** RiverView Ballroom
- S** Orchard Terrace





SEE YOU NEXT YEAR IN ORLANDO, FLORIDA

Call for papers opens in March 2023
Abstracts will be due in May 2023

aiaa.org/SciTech

