



**12-16 JUNE 2023**  
SAN DIEGO, CA & ONLINE

REVOLUTIONARY LEAPS TOWARD

# A NEW AGE OF AVIATION



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12700 Sunrise Valley Drive, Suite 200, Reston, VA 20191-5807  
703.264.7500 or 800.639.AIAA (2422) | Fax: 703.264.7657  
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# WELCOME TO



The 2023 AIAA AVIATION Forum Guiding Coalition  
welcomes you to San Diego and online!

We have worked hard this past year curating exciting and thought-provoking content around the forum theme, **Revolutionary Leaps Toward a New Age of Aviation.** We hope these industry leaders, topics, and discussions inspire you!  
Make it a great week!

## GUIDING COALITION

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**Ada Altebeyeva**, Singapore University of Technology and Design

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**Derek Spear**, U.S. Air Force

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**Mayank Bendarkar**, Georgia Institute of Technology

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**Pavlos Zachos**, Cranfield University

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### PLASMA DYNAMICS AND LASERS

**Bernard Parent**, University of Arizona

### PRESSURE GAIN COMBUSTION

**Mirko Gamba**, University of Michigan

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### THERMOPHYSICS

**Ryan Gosse**, University of Florida

**Adrian Nagle**, Ball Aerospace

### TRANSFORMATIONAL FLIGHT

**Siddhartha Krishnamurthy**, NASA Langley Research Center

**Cedric Justin**, Georgia Institute of Technology

### UNMANNED SYSTEMS

**Zohaib Mian**, Velodyne Lidar

**Omar Kassim Ariff**, University of Salford

**Sricharan Ayyalasomayajula**, Intelligent Automation, Inc.

### VERTICAL/SHORT TAKE-OFF AND LANDING (V/STOL) AIRCRAFT SYSTEMS

**Mark E. Calvert**, U.S. Army Combat Capabilities Development Command Aviation & Missile Center

**Matthew A. Clarke**, Massachusetts Institute of Technology

**Geoffrey J. Jeram**, U.S. Army Combat Capabilities Development Command Aviation & Missile Center

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# FORUM OVERVIEW

	SUNDAY 11	MONDAY 12	TUESDAY 13				
0730 hrs		Technical Papers Session Prep	Technical Papers Session Prep				
0800 hrs		Plenary	Plenary				
0830 hrs							
0900 hrs		Networking Break	Networking Break				
0930 hrs		Live Technical Sessions 6 paper sessions	Forum 360	Live Technical Sessions 6 paper sessions	Forum 360		
1000 hrs							
1030 hrs							
1100 hrs		 Networking Lunch					
1130 hrs							
1200 hrs							
1230 hrs		Lunch on Own					
1300 hrs		Live Technical Sessions 6 paper sessions	Forum 360	Live Technical Sessions 6 paper sessions	Forum 360	Rising Leaders in Aerospace Speed Mentoring	Exposition Hall
1330 hrs							
1400 hrs							
1430 hrs		Networking Break		Networking Break		Rising Leaders in Aerospace Speed Mentoring	Exposition Hall
1500 hrs							
1530 hrs		Meet the Employers	Forum 360	Virtual Technical Sessions 6 paper sessions	Forum 360		
1600 hrs							
1630 hrs							
1700 hrs		2023 AIAA Wright Brothers Lecture in Aeronautics					
1730 hrs		 Welcome Happy Hour					
1800 hrs							
1830 hrs	Student Welcome Mixer						
1900 hrs	South Poolside Terrace (Marriott Marquis)						



..... 0.3 mile (6 minute walk)



# FORUM OVERVIEW

	WEDNESDAY 14			THURSDAY 15			FRIDAY 16		
0730 hrs	Technical Papers Session Prep			Technical Papers Session Prep			Technical Papers Session Prep		
0800 hrs	Plenary			Plenary			Plenary		
0830 hrs	Plenary			Plenary			Plenary		
0900 hrs	Networking Break in Exposition Hall			Networking Break in Exposition Hall			Networking Break		
0930 hrs	Live Technical Sessions 6 paper sessions	Forum 360	Exposition Hall Open		Live Technical Sessions 6 paper sessions	Forum 360	Exposition Hall Open	Live Technical Sessions 6 paper sessions	Forum 360
1000 hrs									
1030 hrs									
1100 hrs									
1130 hrs		Lunch on Own		Exposition Hall Lunch		Exposition Hall Open	Lunch on Own		
1200 hrs	Rising Leaders Lunch Panel	Lunch on Own			Exposition Hall Lunch			Lunch on Own	
1230 hrs		Lunch on Own							Lunch on Own
1300 hrs		Live Technical Sessions 6 paper sessions	Forum 360	Exposition Hall Open	Live Technical Sessions 6 paper sessions	Forum 360	Exposition Hall Open	Live Technical Sessions 6 paper sessions	Forum 360
1330 hrs									
1400 hrs									
1430 hrs									
1500 hrs	Networking Break			Networking Break			Networking Break		
1530 hrs	Virtual Technical Sessions 6 paper sessions	Live Technical Sessions 6 paper sessions	Forum 360	Exposition Hall Open	Virtual Technical Sessions 6 paper sessions	Live Technical Sessions 6 paper sessions	Forum 360	Live Technical Sessions 6 paper sessions	Forum 360
1600 hrs									
1630 hrs									
1700 hrs									
1730 hrs									
1800 hrs									
1830 hrs									
1900 hrs									

## Interested in watching a virtual session while on-site?

Head to our Virtual Session Watch Rooms, located in Balboa A, Balboa B, Balboa C, La Jolla A, La Jolla B, Old Town A, and Old Town B. Note: you will need your own computer and headphones to watch the session of your choice.



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### 2. Exhibitors

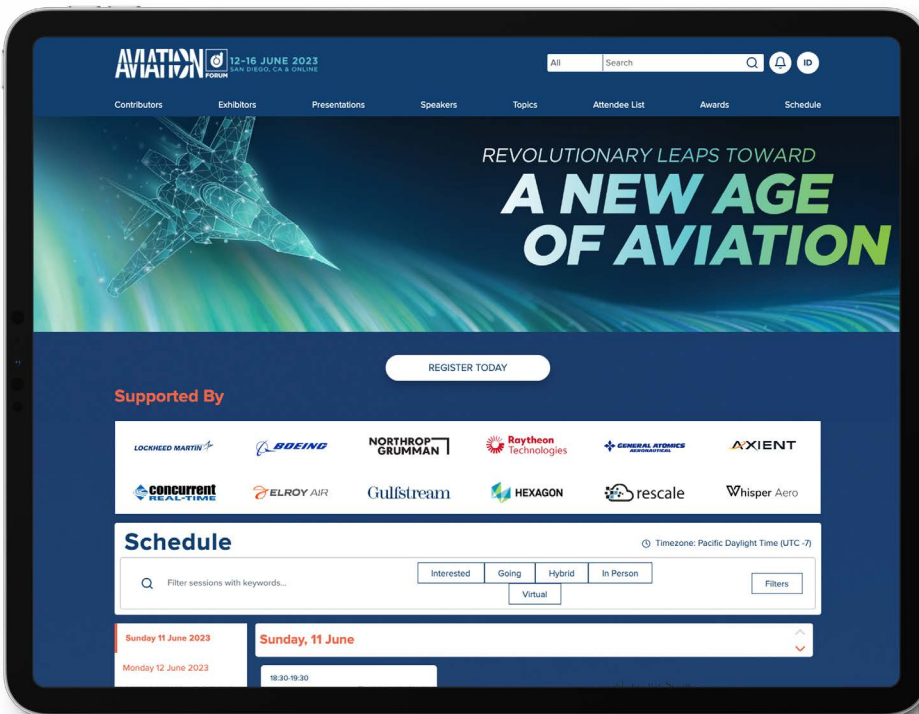
Sharpen your skills and see the latest and greatest products and offerings from cutting-edge companies and organizations. Be sure to check out all our supporting sponsors and partners!

### 3. Attendee List

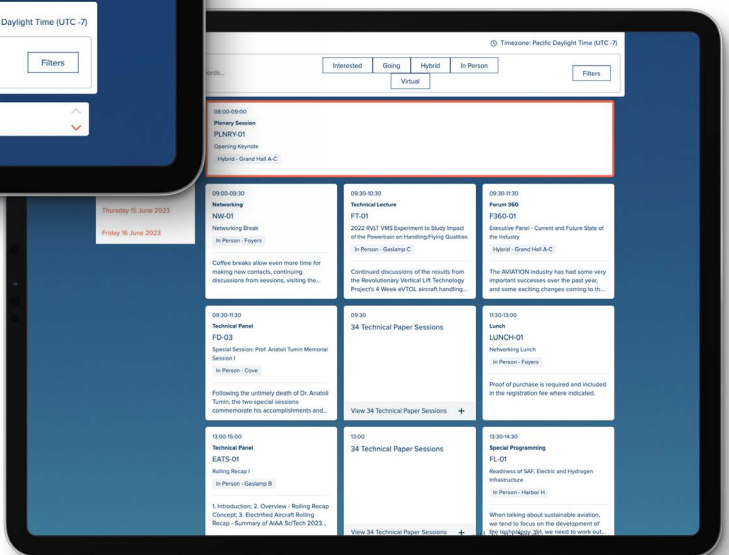
Looking for an old colleague or friend? Those who have opted in to having their profile shared will be displayed here. You'll also have the ability to send a direct message if they have that feature turned on. Click on the top right circle to update your profile or permissions on your profile page.

### 4. Topics/Contributors/Speakers

Explore all the AIAA AVIATION program has to offer through topic listing and descriptions, contributors, and speaker lists.



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# PROGRAM SUNDAY | 11 JUNE

## Student Welcome Mixer

1830-1930 hrs | South Poolside Terrace (Marriott Marquis) | Students Only

Mingle with your peers and hear from AIAA leadership.

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## MONDAY | 12 JUNE

### PLENARY

## Revolutionary Leaps Toward a New Age of Aviation

0800-0900 hrs | Grand Hall A-C

**SPEAKER: Will Roper**, Founder & CEO, Istari

### Networking & Coffee Break

0900-0930 hrs | Grand Foyer

### FORUM 360

## Revolutionary Leaps Toward a New Age of Aviation, Part 1

0930-1130 hrs | Grand Hall A-C

Meet the leaders of some cutting-edge companies working on new technologies and listen to their views and visions.

**LEAD-IN PRESENTATION—White House Aviation Policy Initiative: A Vision for America's Continued Global Leadership in Aeronautics**

**SPEAKER: Ezinne Uzo-Okoro**, Assistant Director for Space Policy, Office of Science and Technology Policy

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

**PANELISTS: Todd Citron**, Chief Technology Officer, The Boeing Company

**Johnny Hodges**, Vice President, Engineering, Gulfstream

**Tom Jones**, Corporate Vice President and President, Northrop Grumman Aeronautics Systems

**Renee Pasman**, Vice President of Integrated Systems for Advanced Development Programs (ADP), Lockheed Martin

**Francis (Frank) R. Preli Jr.**, Vice President, Propulsion and Materials Technologies, Pratt & Whitney



### Networking Lunch

1130-1300 hrs | Seaport and Harbor Foyers

### FORUM 360

## Revolutionary Leaps Toward a New Age of Aviation, Part 2

1330-1500 hrs | Grand Hall A-C

New technologies are about to bring a sea of change to the aerospace industry. Meet the leaders of the companies working on these new technologies and listen to their views and visions for the aircraft of the future.

**MODERATOR: Sergio Cecutta**, Partner, SMG Consulting LLC

**PANELISTS: Sean Black**, Senior Vice President; Chief Technology Officer & Chief Engineer, Spirit Aerosystems

**Mike Caimona**, President and CEO, Aurora Flight Sciences

**Manal Habib**, CEO, MightyFly

**Ben Murphy**, Vice President Sustainability, Boom Supersonic

**Ian Villa**, COO & Chief Product Officer, Whisper Aero

### Networking & Coffee Break

1500-1530 hrs | Seaport Foyer

### FORUM 360

## NASA's Year of Aviation

1530-1700 hrs | Grand Hall A-C

The NASA Aeronautics research portfolio is delivering on a number of impactful transformational innovations and new systems technology demonstration initiatives. Hear from technical leaders who are pushing the boundaries with some of NASA's newest activities and future workforce investments.

**LEAD-IN PRESENTATION—NASA's Year of Aviation**

**SPEAKERS: John Cavolowsky**, Director, Transformative Aeronautics Concepts Program, Aeronautics Research Mission Directorate, NASA

**Robert Pearce**, Associate Administrator, Aeronautics Research Mission Directorate, NASA

**MODERATOR: Barbara Esker**, Assistant Deputy Associate Administrator for Missions, Aeronautics Research Mission Directorate, NASA

**PANELISTS: Gelsomina Cappuccio**, Deputy Manager for University Innovation Project, NASA Ames Research Center

**Brent Cobleigh**, Project Manager, Sustainable Flight Demonstrator, NASA Armstrong Flight Research Center

**Marcus Johnson**, Research Aerospace Engineer, NASA Ames Research Center

### Meet the Employers

1530-1730 hrs | Grand Hall D

This is a can't-miss occasion where students and young professionals meet with AIAA Corporate Member recruiters, and ask questions about internships, full-time employment opportunities, organizational culture, and fascinating company projects.

### AIAA Wright Brothers Lecture in Aeronautics

1730-1830 hrs | Grand Hall A-C

NASA Aeronautics Contributions to the Ingenuity Mars Helicopter

**SPEAKER: Larry A. Young**, Aerospace Engineer, NASA Ames Research Center

# PROGRAM **TUESDAY** | 13 JUNE

## PLENARY

### Airships: A Sustainable Path to Decarbonizing Transportation and Complementing Humanitarian Aid

0800-0900 hrs | Grand Hall A-C

Twenty-first-century next-generation airships will create a new, clean highway in the sky with zero-carbon transportation for cargo and passengers to support humanitarian assistance and a multitude of other applications. Currently, modern transportation is carbon-intensive, including aviation, which emits nearly 1 billion metric tons of CO<sub>2</sub> annually. LTA is forging a new path to zero-carbon air transportation that helps shape a cleaner world and complements other green aviation, land, and maritime initiatives.

**SPEAKER:** Alan Weston, CEO, LTA Research & Exploration

### Networking & Coffee Break

0900-0930 hrs | Grand Foyer

## FORUM 360

### Navigating the Future of Aviation Sustainability: Decarbonizing the Skies

0930-1130 hrs | Grand Hall A-C

The aviation industry plays a significant role in the global economy, connecting people and businesses around the world. However, aviation is responsible for a growing percentage of greenhouse gas emissions. To meet the net-zero 2050 goals, the industry is focusing on decarbonization efforts, including alternative fuels, electric and hybrid-electric aircraft, and other innovative technologies.

The session will explore the latest developments in sustainable aviation fuel (SAF). The panelists will also examine the potential of new technologies such as electric and hybrid-electric aircraft, exploring the technological and regulatory hurdles that must be overcome to bring these innovations to market. Finally, the session will highlight the role of partnerships and collaboration in driving progress toward a more sustainable aviation industry.

**MODERATOR:** Cat Hofacker, Associate Editor, Aerospace America

**PANELISTS:** Andreas Kollbye Aks, Chief Executive Officer, Widerøe Zero

Neil Dickson, Chief, Environmental Standards, International Civil Aviation Organization

Roberto Guerrero, Deputy Assistant Secretary of the Air Force for Operational Energy, Office of the Assistant Secretary of the Air Force for Installations, Environment and Energy

James Hileman, Vice President and Chief Engineer, Sustainability and Future Mobility, The Boeing Company

John Katsoudas, Founder and Chief Executive Officer, Inflight Energy

Kolin Schunck, Senior Manager, Strategic Innovation & Intelligence, Lufthansa Innovation Hub

## FORUM 360

### Sustainable Aviation Fuel & Certification

1330-1500 hrs | Grand Hall A-C

Sustainable aviation fuel (SAF) can be made with a variety of technologies that use physical, biological, and chemical reactions to break down biomass and waste resources and recombine them into energy-dense hydrocarbons. This session will explore these various technologies.

**INTRODUCTORY SPEAKER:** Anna Oldani, Energy Program Manager, FAA Office of Environment and Energy

**MODERATOR:** Curt Epstein, Senior Editor, Aviation International News

**PANELISTS:** Jim Anderson, Head of Business Development, LanzaJet

Gary Grimes, Director of Business Development, Sustainability and Technology, World Energy

Staff Sheehan, Chief Technology Officer, Air Company



## Speed Mentoring

1400-1600 hrs | Grand Hall D

Leaders in the aerospace industry will 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.

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### Networking & Coffee Break

1500-1530 hrs | Exposition Hall

## FORUM 360

### Hydrogen: Fuel of the Future

1530-1700 hrs | Grand Hall A-C

The industry commitment to net zero 2050 comes with many challenges, not least of which is finding fuels that provide energy density comparable to current aviation fuels. Hydrogen has many of the characteristics required but comes with another set of challenges and benefits. Industry advocates will address the challenges and their vision of hydrogen as a fuel for the next generation of aviation.

**LEAD-IN PRESENTATION—Technological Innovations Driving a Hydrogen-Electric Aviation Future**

**SPEAKERS:** Phillip J. Ansell, Assistant Professor and Allen Ormsbee Faculty Fellow, Department of Aerospace Engineering, University of Illinois Urbana-Champaign

**MODERATOR:** Scott Cary, Ports and Airports Project Manager, National Renewable Energy Laboratory

**PANELISTS:** Naomi Allen, Senior Technologist: Whole Aircraft, Aerospace Technology Institute

Chris Gilmore, Head of Advanced Concepts, Universal Hydrogen

Josef Kallo, Founder and CEO, H2Fly

Valery Miftakhov, Founder & CEO, ZeroAvia

## Welcome Happy Hour

1730-1900 hrs | Exposition Hall

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# PROGRAM WEDNESDAY | 14 JUNE

## PLENARY

### Opportunities in the Challenging Dynamics of AAM

0800-0900 hrs | Grand Hall A-C

**SPEAKER: Robie Samanta Roy**, Managing Director, Cerberus Capital Management & Former COO/Federal Strategy, Electra.aero

### Networking & Coffee Break

0900-0930 hrs | Exposition Hall

## FORUM 360

### AAM Cadence of Operations

0930-1100 hrs | Grand Hall A-C

AAM industry is rapidly evolving with new vehicles and technologies that are changing the way we think about transportation. We will explore key components needed to establish a standard framework for AAM operations. We will delve into the best practices for planning, executing, and monitoring AAM flights, as well as the roles and responsibilities of stakeholders in the AAM ecosystem.

**MODERATOR: Shivanjli Sharma**, National Campaign Deputy Lead for the Advanced Air Mobility Project, NASA

**PANELISTS: Scot Campbell**, Project Executive, Airbus UTM, Acubed

**Skye Carapetyan**, Aircraft Sales & Business Development - Infrastructure, BETA Technologies

**Khin Paing**, Vice President of Program Management, Skygrid

**Jimmy Smith**, Unmanned Systems Representative, National Air Traffic Controllers Association

**Craig Teasdale**, Vice President, Operations, Ferrovial

**Kristin White**, Chief Operating Officer, ITS America

### Flow Visualization Showcase

0930-1230 hrs | Harbor F

The Annual Flow Visualization Showcase provides an opportunity to display computational and/or experimental fluid-dynamics visualizations that support a technical concept and enhance the understanding of the flow. Come see this year's submissions and hear from the creators of the visualizations.

**SESSION HOSTS: Brian A. Freno**, Principal Member of the Technical Staff, Sandia National Laboratories

**Nathan Shumway**, US Air Force Academy, HQ USAFA/DFAN



### Planning for the Long Term: Setting Yourself Up for a Long-term Career

1200-1330 hrs | Grand Hall D

This discussion will focus on helping us better understand how we can set ourselves up for a successful career in aerospace, and how we can navigate the opportunities and

challenges along the way. Boxed lunches available for the first 120 attendees on a first-come, first-served basis. Line up early so you can get a lunch!

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## FORUM 360:

### Airspace Management of Evolving AAM

1330-1500 hrs | Grand Hall A-C

Air traffic management (ATM) proposals for AAM recognize the need for strategic and tactical airspace deconfliction, where the need for coordination appears in different forms and nuances. From using predefined corridors to the evolving to 4D trajectory-based operations, limitations applying ATM principles to very dense and potentially more complex operations must be considered.

**MODERATOR: Nick Lappos**, Senior Technical Fellow, Advanced Technology, Sikorsky, A Lockheed Martin Company

**PANELISTS: Chris Baur**, President & CEO, Hughes Aerospace Corporation

**Lisa Peterson**, Vice President, Business Development, AURA Network Systems

**Dan Sloat**, Founder & President, Advanced Air Mobility Institute

**Jeanne Yu**, Senior Technologist, Sky for All Chief Strategist, Aeronautics, NASA

**Warren Zelaya**, Engineering Manager, General Atomics Aeronautical Systems, Inc

### Networking & Coffee Break

1500-1530 hrs | Exposition Hall

## FORUM 360:

### Distributed Electric Propulsion — Lessons Learned from the X-57

1530-1700 hrs | Grand Hall A-C

As the long anticipated first uncrewed flight of the X-57 Maxwell Project approaches, we reflect on the design approaches and highlight the challenges and lessons learned from developing and implementing distributed electric propulsion.

**MODERATOR: Vince Schultz**, Deputy Project Manager for the Maxwell X-57 Flight Project, NASA

**PANELISTS: Dave Avanesian**, Systems Engineer, NASA Glenn Research Center

**Nick Borer**, Advanced Concepts Group Lead, Aeronautics Systems Analysis, NASA Langley Research Center

**Sean Clarke**, Senior Research Systems Development Engineer, NASA Armstrong Flight Research Center

**Andrew Gibson**, President, CEO & Co-Founder, Empirical Systems Aerospace, Inc.

**Laura Kushner**, Lead System Engineer and Vehicle IPT Lead for X-57 Maxwell, NASA Ames Research Center

# PROGRAM THURSDAY | 15 JUNE

## PLENARY

### How Whisper Aero Propels the Future of Aviation

0800-0900 hrs | *Grand Hall A-C*

**SPEAKER:** Mark Moore, CEO, Whisper Aero

## Networking & Coffee Break

0900-0930 hrs | *Exposition Hall*

## FORUM 360

### Current and Future State of Aircraft Certification

0930-1100 hrs | *Grand Hall A-C*

The current aircraft certification standards and processes are adequate for certifying our current understanding of aircraft. Future aircraft will blur the lines – airplanes will take off like helicopters; helicopters will cruise like airplanes; uncrewed systems, automated/autonomous systems will test the limits of the current understanding of certification standards and processes.

The panel will look toward the future of aircraft certification and explore emerging trends and technologies, such as supersonic and hypersonic flight, urban air mobility, and autonomous aircraft. They will discuss the unique challenges these new technologies present for certification and the regulatory approaches needed to ensure their safe operation.

**MODERATOR:** Paul Brinkmann, Staff Reporter, Aerospace America

**PANELISTS:** David Alexander, Senior Director, Standards, SAE International

**Bruce DeCleene**, Director, Office of Senior Technical Experts, FAA

**John Deruchie**, Chief, Regional Engineering, Transport Canada

**Carie Mullins**, Director, Analytics, BryceTech

**Anthony Mumford**, Principal Flight Sciences Engineer, Overair

**Jia Xu**, CTO and Senior Director, Engineering, Unmanned Aerial Systems /Urban Air Mobility, Honeywell Aerospace



## Networking Lunch in the Exposition Hall

1130-1300 hrs | *Seaport Ballroom and Harbor Foyer*

## FORUM 360:

### Advanced Air Mobility Autonomy Certification

1330-1500 | *Grand Hall A-C*

All AAM transformational missions need certifiable automation to lower operating costs to reduce pilot training

or remove the pilot from the aircraft. Some of the industry is proposing a crawl, walk, run with regulatory agencies from slowly removing pilot functions that are verifiable in software before they remove the pilot from the cockpit. This panel will discuss challenges to prove software can make multiple decisions in a contingency better than a pilot.

**MODERATOR:** Starr Ginn, AAM Lead Strategist, NASA

**PANELISTS:** Kathy Abbott, Chief Scientific and Technical Advisor, Flight Deck Human Factors, FAA

**Igor Cherepinsky**, Director, Sikorsky Innovations, Sikorsky Aircraft, a Lockheed Martin Company

**Juerg Frefel**, Co-Founder and CTO, Reliable Robotics

**Maxime Gariel**, Chief Technical Officer, Xwing

**Loyd Hook**, Professor of Electrical and Computer Engineering, University of Tulsa

**Jonathan Lovegren**, Head of Autonomy, Wisk

## Networking & Coffee Break

1500-1530 hrs | *Exposition Hall*

## FORUM 360:

### Flight Testing in the Age of Electric Propulsion: Lessons from the Flight Test Pioneers

1530-1700 hrs | *Grand Hall A-C*

A panel of pioneering professional flight test pilots and flight test engineers shares their lessons learned from testing novel and innovative electrically-propelled aircraft. As professional flight testers, they bring their flight test experiences from conventionally-powered aircraft to the new world of electric aviation and share their hard-learned lessons with the community. Understanding how to plan for electric energy storage systems compared with fuel systems, electric powerplants compared to reciprocating or turbine engines, and displaying and interpreting the state of the electric powerplant compared to traditional ones are but a few of the topics that the panel may discuss. A question-and-answer session will allow the community to learn from these flight test pioneers.

**MODERATOR:** Herb Schlickemaier, President, HS Advanced Concepts LLC

**PANELISTS:** Pat Anderson, CTO, VerdeGo

**Erika Holtz**, Engineering and Quality Manager, Harbour Air

**Alex Kroll**, Chief Test Pilot, Universal Hydrogen

**Sara Roggia**, Head of Protections and Controls, magniX

**Peter Schmidt**, COO & Co-Founder Transcend Air Corporation, and Chair, EFT Committee, E-VTOL Flight Test Council

**Jen Uchida**, Manager Flight Test Engineering; AeroTEC



# PROGRAM *FRIDAY* | 16 JUNE

## PLENARY To a Faster Future

0800-0900 hrs | *Grand Hall A-C*

**SPEAKER:** Lt. Col. **Joshua Burger**, VC-25B Air Vehicle Program Manager, U.S. Air Force

Aviation provides the U.S. military with a decisive advantage in any conflict. We will reflect on military and commercial aviation requirements, opportunities, synergy, partnerships, and accelerants. Our path “To A Faster Future” will require trust, partnership, and a unified vision.

## Networking & Coffee Break

0900-0930 hrs | *Grand Hall A-C*

## FORUM 360 Toward the Next-Gen Military Aviation Fleet

0930-1100 hrs | *Grand Hall A-C*

Military aviation is a critical component of modern military operations, providing strategic and tactical advantages for defense and security. In this session, we will explore the latest trends and developments in military aviation and the roadmap toward the next-generation military aviation fleet. We also will discuss the emerging technologies and innovations and the challenges and opportunities associated with the integration of new technologies into the military aviation fleet.

**MODERATOR:** **Laurette Lahey**, Senior Director, Flight and Vehicle Technology, Boeing Research and Technology

**PANELISTS:** **Greg Addington**, Chief Strategist, Air Vehicles Division, AFRL

**Mahendra Bhagwat**, Senior Research Scientist, US Army Futures Command

**Larry Branthoover**, PEO(T) APEO Science and Technology, NAVAIR

**CAPT Loren Jacobi**, CNAF N8 / Force Requirements Officer, US Navy

**Joseph Kendall**, Deputy to the Air Combat Command Chief Scientist

**Venke Sankaran**, Chief Scientist of Aerospace Systems Directorate, AFRL

## FORUM 360 Hypersonics & Supersonics

1330-1500 hrs | *Grand Hall A-C*

### Hypersonics

1330-1415 hrs | *Grand Hall A-C*

Hypersonics are currently in the realm of the defense industry and space applications. When we look at supersonic travel, we are at the precipice of commercial supersonic travel if the airframe and engine technologies

become available on the market. However, commercial hypersonics face additional challenges and a longer time frame. The industry is looking at near-term military applications to help develop solutions for both civil and military applications. This panel will discuss the challenges of hypersonic flight, the technology available today for military applications, the technology needed to be developed for tomorrow's military applications and efficient, sustainable hypersonic commercial flight, and the policies and regulations needed to be addressed for the integration of hypersonic travel within the global air and launch traffic.

**MODERATOR:** **Natalya Bailey**, COO, Curated Innovation

**PANELISTS:** **David Arenson**, Vice President and Chief Engineer, Lockheed Martin Space

**Kevin Bowcutt**, Senior Technical Fellow and Chief Scientist, Hypersonics, The Boeing Company

**Michael Brown**, Chief Hypersonic Sciences Branch, AFRL

**Pete Francis**, Chief Engineer, Advanced Technology Raytheon Missiles and Defense, Raytheon Technologies

### Supersonics

1415-1500 hrs | *Grand Hall A-C*

High-speed commercial travel has been in the making for the better part of 50 years. In the 1970s, supersonic flight was only allowed over water due to the unpleasant effects of the sonic boom. In addition, propulsion technology was not at a performance and efficiency level that was profitable for the operator or quite enough for airport communities during landing and takeoff. The current second wave of supersonic commercial ventures is banking on numerous innovations, including advancements in materials, aerodynamics, and, in some cases, low boom technology to enable overland flights and enable economic operations. The development of an efficient propulsion system remains both a challenge and a unique opportunity. Additionally, the policies and regulations of integrating high-speed flight into the commercial air traffic need to be revisited. This panel will discuss the nuances of integrating supersonic flight into commercial traffic as well as the technical challenges of developing efficient and sustainable aircraft and engines that are cost-effective for the operator.

**MODERATOR:** **Robbie Cowart**, Founder and CEO, RAC Consulting

**PANELISTS:** **Peter Coen**, Manager, Quesst Mission Integration, NASA Langley Research Center

**John Morgenstern**, Head of Aerodynamics & Boom, Exosonic

**Ryan Snell**, Aeronautical Engineer, Boom Supersonic

**Tom Viars**, Director of New Products & Technologies, Florida Turbine Technologies

## Networking & Coffee Break

1500-1530 hrs | *Seaport Foyer*

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# SPECIAL SESSIONS

## MONDAY | 12 JUNE

### FL-01 - Readiness of SAF, Electric and Hydrogen Infrastructure

1330-1430 hrs | Harbor H

When talking about sustainable aviation, we tend to focus on the development of the technology. Yet, we need to work out some level of infrastructure to support the aircraft when they enter the market. This discussion will look at infrastructure required to support sustainable aviation in the near term and how to prepare for the future.

**SPEAKERS:** Arturo Garcia-Alonso, Avports

Brett Oakleaf, NREL

### FL-02 - Zero Emission Aviation — A Status Report on Global Efforts

1530-1700 hrs | Harbor H

In this session, panelists will discuss the latest advances and challenges in their work on zero emission aviation.

**PANELISTS:** Phillip Ansell, University of Illinois Urbana-Champaign

Jay Kapat, University of Central Florida

Rory Roberts, Tennessee Tech University

Shashank Sripad, And Battery Aero

Roelof Vos, Delft Institute of Technology

## TUESDAY | 13 JUNE

### FL-03 - Comeback of Riblet Surfaces in Aviation — Hype or Hope?

0930-1030 hrs | Harbor H

Much research has been done on riblets in aviation in the last century, but there was never a real usage or business case. In recent years industry has invested in more research, but there are still questions about the economical benefit. We'll discuss whether riblets are just another hype or if they are here to stay.

**MODERATOR:** Andreas Flanschger, CEO, bionic surface technologies GmbH

**PANELISTS:** Aaron Altman, Aerodynamic Technologies Branch Technical Advisor, USAF Research Laboratory

David Gonzalez, Program Officer for Aerodynamics, Naval Air Warfare & Weapons Dept, Office of Naval Research

Timothy J. Hebrink, Senior Staff Scientist, 3M Corporate Research Laboratory

Jonathan W. Naughton, Professor of Mechanical Engineering, and Director, Wind Energy Research Center, University of Wyoming

Brian Smith, Lockheed Martin

### FL-04 - Aerial Suppression of Wildfires: Present and Future Technologies and Their Implications for the Climate Crisis

1030-1130 hrs | Harbor H

Presenters will discuss all aspects of aerial suppression of wildfires, including aircraft types, optimized designs, effectiveness, challenges, concepts of operation, coordinated air traffic command and control, use of drones and electrically-powered aircraft, costs, benefits, detection systems, integration with existing systems, fuel concerns, environmental impacts, maintenance, piloting, robotic vehicles, and needs of air attack bases.

**PANELISTS:** Marcus Johnson, Project Manager, Advanced Capabilities for Emergency Response Operations (ACERO), NASA Ames Research Center

Jasenska Rakas, Founder, Airport Design Studio and Aviation Futures Lab, and Faculty, Civil and Environmental Engineering Department, University of California Berkeley

Brien Seeley, President, Sustainable Aviation Foundation, Inc

### FL-05 - Toward Routine Operations of More Aircraft (m) than Remote Pilots (n)

1330-1500 hrs | Harbor H

The AAM ecosystem is expected to advance from current state-of-the-art operations to a ubiquitous capability. There are numerous challenges associated with autonomous aircraft and their technical/operational, safety and security, societal acceptance, and regulatory. The path from existing m:n operations on small UAS in isolated areas to larger aircraft, such as air taxis and cargo aircraft, operating in a more integrated NAS is not clear. The panel will discuss key gaps in aviation and research community activities that need to be addressed and accelerated to enable routine m:n operations in civil airspace.

**MODERATOR:** Kelley Hashemi, NASA

**PANELISTS:** Michael Francis, Consultant

Maxime Gariel, Chief Technical Officer, XWing

Andrew Lacher, Chief Technologist for Future Airspace Operations, NASA Langley Research Center

Mark Shikerman, Human Engineering Manager, Wisk Aero



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# SPECIAL SESSIONS

## FL-06 – Development of eVTOL Market

1530–1700 hrs | Harbor H

This panel will discuss how the industry can ensure the safety of eVTOL vehicles and what advancements are being made in battery technology to increase their range and reliability. We'll also look at the regulatory environment for eVTOLs. The outlook for the future of eVTOL market, including investment, growth potential, and challenges to commercialization, also will be examined.

**MODERATOR:** Paul Brinkman, Aerospace America

**PANELISTS:** Matthew A. Clarke, Assistant Professor, University of Illinois

Gopinath Mallipatna, Global Director at IMA and Co-Founder & Investor at Startup Basket

Sachin Ramesh, Director and CEO, Volador FlyTech

Peter Wagner, Senior Technology Manager, ISOVOLTA Group

## WEDNESDAY | 14 JUNE

## FL-12 – The Future of Mobility Transport: Blended Wing Body Aircraft

0930–1030 hrs | Harbor H

The revolutionary Blended Wing Body (BWB) aircraft design, which promises to provide over 30% more aerodynamic efficiency than today's tube-and-wing designs, is at an inflection point in its history. NASA, the Defense Innovation Unit, and the Department of the Air Force are teaming up with industry to accelerate its development and flight-test a full-scale demonstration aircraft by 2027.

**MODERATOR:** Roberto Guerrero, Deputy Assistant Secretary of the U.S. Air Force for Operational Energy

**PANELISTS:** Fayette Collier, Associate Director for Flight Strategy, Integrated Aviation Systems Program, NASA Aeronautics

Daniel Pike, Chief of Future Technologies & Acquisition Manager, U.S. Air Force Operational Energy

Maj. Justin Wilson, Acquisition Branch Chief, Defense Innovation Unit

## FL-07 – Infrastructural Requirements for Airport Hydrogen Hubs

1030–1130 hrs | Harbor H

Airports are natural nodes for hydrogen hubs. They host multiple end users, with short- and long-term energy supply requirements.

**MODERATOR:** Jeff Bechdel, FTI Consulting and Hydrogen Forward

Nick Connell, Interim Executive Director, Green Hydrogen Coalition

Eric Guter, Vice President Mobility, Air Products

Amanda Simpson, Airbus

Keith Wipke, Laboratory Program Manager, Fuel Cell and Hydrogen Technologies Program, NREL

## FL-08 - Preventing Aviation Accidents with Safety Technology

1330–1430 hrs | Harbor H

While major U.S. commercial air carriers have a strong safety record, more must be done to make aviation safer. Recent studies have concluded that general aviation operations are between 8 and 15 times more dangerous than driving, but that 68% of fatal accidents could potentially have been prevented with safety-enhancing technology. During this session, we'll discuss recent data and studies that analyze general aviation accidents and identify how safety technology could have prevented the incidents, along with specific safety technologies that are under development to prevent these accidents and how these technologies also apply to AAM. We'll also examine regulatory and public policy focus and changes that are necessary to deploy aviation safety technologies.

**MODERATOR:** John Koelling, Chief Operations Officer, NASA

**PANELISTS:** Juerg Frefel, Co-founder and CTO, Reliable Robotics

Lloyd R. Hook, Dept. of Elec. and Comp. Engr, University of Tulsa

Paul Johnson, Chief Engineer, Cirrus Aircraft

## FL-09 – Stepping Stones Toward Increasingly Autonomous Flight

1530–1700 hrs | Harbor H

A panel of experts across industry, academia, and regulatory domains will discuss the most practical near-term approaches to achieving increasingly autonomous flights. The focus areas will include machine intelligence, operational paradigms, technology barriers, and regulatory approaches.

**MODERATOR:** Michael Logan, NASA Langley Research Center

**PANELISTS:** Mike Feary, NASA

Keith Hoffler, Adaptive Aero

Earl Lawrence, Xwing

Ruth Stilwell, Aerospace Policy Solutions LLC

## 2023 AIAA Aeroacoustics Banquet

1845 hrs | Coronado A-B

Attend a banquet held by the Aeroacoustics TC. Event will also celebrate the AIAA Aeroacoustics Award winner. Advance additional ticket purchase required.



# AIAA/IEEE ELECTRIC AIRCRAFT TECHNOLOGIES SYMPOSIUM (EATS)

See page 41-42 for full session listing.

## MONDAY | 12 JUNE

### Rolling Recap I

1300-1500 hrs | *Gaslamp B*

1. Introduction
2. Overview - Rolling Recap Concept
3. Rolling Recap - E2Flight Conference
4. Electrified Aircraft Rolling Recap - Summary of AIAA SciTech 2023 papers
5. Preview AIAA Aviation 2023 and EATS 2023; 6. Accessing Rolling Recap Archive

**CHAIR:** Herb Schlickemaier, President, HS Advanced Concepts LLC

**PANELISTS:** Max Arzberger, Research Engineer, German Aerospace Center (DLR)

Steven Kestler, Principal Engineer, Collins Aerospace

## TUESDAY | 13 JUNE

### Spotlight on Sustainable Aviation Research at the National Research Council of Canada

0930-1100 hrs | *La Jolla B*

This session includes developments provided by NRC researchers in areas related to batteries and hydrogen storage materials. Further developments on aircraft integration will also be covered, including high-voltage systems, boundary-layer ingestion, modeling and simulation, and flight demonstration plans.

### EATS Social

1800-1900 hrs | *Bayview Room - 32nd Floor*

## WEDNESDAY | 14 JUNE

### EATS KEYNOTE Electric Aircraft Ecosystem: Performance Potential, Economics and Societal Impact in the Age of Sustainable Air Travel

1115-1215 hrs | *Harbor E*

**SPEAKER:** Gaudy Bezos-O'Connor, NASA

### EATS Workshop - Aircraft Electrification: Benefitting from the Automotive Experience

1300-1500 hrs | *Golden Hill A*

- The aerospace and automotive industries are experiencing massive electrification. It is particularly applicable to the power train systems and components.
- Main vehicle and power train architectures will be reviewed for both segments. The requirements for systems and components will be analyzed.

- Major obstacles for entry into service will be identified. Proposed solutions will be discussed including AI and autonomy utilization.
- Performance/CTQ priorities for both industry segments will be established and quantified.
- The results from comparative analysis will be presented, and the aerospace benefits from the automotive electrification will be highlighted.
- The session will be interactive for extracting maximum value for the audience and the industry.

**INSTRUCTORS:** Arif Salam, Honeywell

Evgeni Ganev, EMPS Consulting

### NASA Spotlight Session: Electrified Powertrain Flight Demonstrations with Industry

1300-1500 hrs | *Gaslamp C*

Overview of the NASA Electrification Strategy

1. The NASA Electrified Powertrain Flight Demonstration Project — Progress and Plans for integrated MW-class powertrain systems in 2023 and beyond
2. GE Progress and Plans
3. magniX Progress and Plans
4. Other Industry Efforts

**CHAIR:** Herb Schlickemaier, President, HS Advanced Concepts LLC

**PANELISTS:** Gaudy Bezos-O'Connor, NASA

Colin Tschida, Wright Electric

Amy Jankovsky, NASA Electrified Aircraft Testbed, NASA Glenn Research Center

Ralph Jansen, Electric Aircraft Propulsion, NASA Glenn Research Center

Ed Lovelace, Ampaire

Sara Roggia, magniX

Todd Spierling, RTX

Christine Andrews, GE Aerospace

## THURSDAY | 15 JUNE

### Electromagnetic Compatibility (EMC) Panel

0930-1130 hrs | *La Jolla A*

High voltage aviation electrical systems have unique design challenges to meet ultrahigh power density and reliability requirements under extreme operation conditions. One critical aspect is the electromagnetic compatibility (EMC), such as emission and susceptibility, etc. This panel invites experts in EMC engineering from different domains, including EMC testing, flight demo system integration, sub-system, material, modeling, and industrial standard to share their views on EMC challenges and opportunities for the high voltage aviation electrical systems.



## AIAA/IEEE ELECTRIC AIRCRAFT TECHNOLOGIES SYMPOSIUM (EATS)

See page 41-42 for full session listing.

**CHAIR:** Katherine Sheets, AFRL

**PANELISTS:** Sean Clarke, NASA

Sierra Eiden, Parker Chomerics

Mike Garrett, NASA

Cong Li, GE Aerospace

Justin McKennon, EMA

Wade Smith, ANSYS

### EATS KEYNOTE Beyond Battery-Range: How Does Electric Propulsion Change How We Travel?

1115-1215 hrs | Harbor E

The aviation industry has connected the globe at an incredibly affordable cost. However, we have not been able to effectively serve short-haul routes <300 miles, where slow-moving ground transport dominates >95% of trips. With electric propulsion, we have the opportunity to change that. Using a hybrid-electric, blown-lift design, Electra's hybrid eSTOL operates from very small spaces independent of traditional runway infrastructure, without sacrificing on payload and range. The energy required to transport one passenger over one mile is significantly lower than for an aircraft employing vertical lift; a key consideration in a future where the transportation industry is under pressure to reduce emissions. Electra will reveal its 2-seat technology demonstrator, which will showcase this technology at scale. Electra's product aircraft is designed for 9 passengers. While small aircraft currently present only a lesser fraction of aviation's emissions, building and certifying aircraft that integrate aerodynamic and propulsive effects, such as Electra's eSTOL, at Part 23 scale, might just help us pave the way to larger, lower emissions transport aircraft in the future.

**SPEAKER:** Diana Siegel, Chief Financial Officer, Electra.aero

### Best Practices and Lessons from Ground-Testing EAP Systems

1300-1500 hrs | Harbor E

Aerospace and aviation engine testing have a long heritage of safe and efficient test methods and practices. New test methods are being pioneered as the electric aircraft propulsion systems need to test their electric engine technology. The need to marshal ground testing methods to ensure safe operation and confident results is paramount.

**CHAIR:** Herb Schlickemaier, President, HS Advanced Concepts LLC

**PANELISTS:** Jon Doyle, FAA William J Hughes Technical Center

Amy Jankovsky, NASA Glenn Research Center

Andy Gibson, ES Aero

## FRIDAY | 16 JUNE

### EATS KEYNOTE ASCEND Main Results and Perspectives

1115-1215 hrs | Harbor E

Cooling at cryogenic temperature conventional electric components and using high temperature superconducting technologies are promising to significantly increase performance of electric propulsion systems especially with liquid hydrogen on board. With ASCEND (Advanced Superconducting and Cryogenic Experimental powertrain Demonstrator), AIRBUS UpNext intends to demonstrate the feasibility and the potential of a cryogenic and superconducting powertrain to breakthrough aircraft electric propulsion. Since 2021, six main components have been developed and are currently being tested: a superconducting DC distribution with protection, a cryogenic power electronics, a superconducting AC cable, a superconducting motor, a cryo-cooling system, and a powertrain monitoring and control. These components are currently being integrated and tested in a specific test bench in Airbus Ottobrunn, Germany.

The results and tests will support a decision-making process for the type of propulsion system for future aircraft. This talk will be focused on the progress of the project by presenting the different components of the demonstrator and the first test results.

**SPEAKER:** Ludovic Ybanez, Airbus UpNext

### EATS Rolling Recap II

1300-1500 hrs | Harbor E

1. Introduction
2. Overview - Rolling Recap Concept
3. Electrified Aircraft Rolling Recap Quick Highlights AIAA Aviation 2023
4. Electrified Aircraft Rolling Recap Quick Highlights AIAA-IEEE EATS 2023
5. Preview AIAA SciTech 2024.

**CHAIR:** Herb Schlickemaier, President, HS Advanced Concepts LLC

### SEE THE ORGANIZING COMMITTEE



# 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.

## PREMIER LECTURE

Admission to the lecture does not require AIAA AVIATION Forum registration.

**MONDAY | 12 JUNE**

### 2023 AIAA Wright Brothers Lecture in Aeronautics

**1730-1830 hrs | Grand Hall A-C**

This lectureship commemorates the accomplishment of the Wright Brothers in creating the first practical airplane and also recognizes the success of their approach to problem-solving — beginning with study of the literature, and including innovative thinking, constructive debate, systematic testing, and teamwork. In particular, the lectureship is awarded for the recent accomplishment of a significant “First in Aeronautical Engineering.” The lecture will highlight the details of the accomplishment and the approaches to meeting both the technical and programmatic challenges involved.

“NASA Aeronautics Contributions to the Ingenuity Mars Helicopter”

**Larry A. Young**, Aerospace Engineer, NASA Ames Research Center

## TECHNICAL EXCELLENCE AWARDS

Awards will be presented throughout the week during the plenary sessions.

**MONDAY | 12 JUNE**

**0800 hrs | Grand Hall A-C**

### 2023 AIAA Aeroacoustics Award

**Yueping Guo**, NASA Langley Research Center

*For significant contributions to understanding airframe noise and acoustic scattering and application in development of state-of-the-art, system-level prediction methods enabling innovative noise reduction.*

### 2023 AIAA Aerodynamics Award

**Roy J. Hartfield Jr.**, Auburn University

*For the development of fast and practical predictive approaches to the problem of aerodynamic analysis of air vehicles at both conceptual and preliminary design stages.*

### 2023 AIAA Ground Testing Award

**Luca Maddalena**, University of Texas at Arlington

*For pioneering contributions in the development of arc-heated test facilities, advanced optical diagnostics, and data processing.*

**TUESDAY | 13 JUNE**

**0800 hrs | Grand Hall A-C**

### 2023 AIAA Fluid Dynamics Award

**Kozo Fujii**, Tokyo University of Science

*For many pioneering contributions to robust and efficient computational algorithms and their application to solve major industrial challenges using leading-edge supercomputers.*

### 2023 AIAA Losey Atmospheric Sciences Award

**Jeanne G. Mason**, Boeing Commercial Airplanes (retired)

*For exceptional service to aviation safety for aircraft icing by organizing and directing partnerships that invest in solutions to understand convective weather ice crystal phenomena.*

### 2023 AIAA Thermophysics Award

**Michael Wright**, NASA Ames Research Center

*For outstanding contributions to improving thermophysical models and simulation capabilities for high-enthalpy flows, and for leadership and dedication to NASA missions and the aerothermodynamic community.*

**WEDNESDAY | 14 JUNE**

**0800 hrs | Grand Hall A-C**

### 2023 AIAA Aircraft Design Award

**Adnan Raghdo**, The Boeing Company

*For leadership of the Boeing MQ-28A design team, a stealth, multirole, UAS, force multiplier aircraft capable of teaming with crewed aircraft and performing autonomous missions.*

### 2023 AIAA F.E. Newbold Award

**Lars Blackmore**, SpaceX

*For vehicle-level design and the development of critical guidance and control technologies to achieve precision vertical landing of space rockets and advance their viability through full reusability.*

### 2023 AIAA Hypersonics Systems and Technologies Award

**Joseph A. Schetz**, Virginia Polytechnic Institute and State University

*For sustained contributions to hypersonics through graduate education of a large cadre of Ph.D. students and seminal research on high-speed aerodynamics, heat transfer, and propulsion.*



# RECOGNITION

**THURSDAY | 15 JUNE**

**0800 hrs | GRAND HALL A-C**

## **2023 AIAA Chanute Flight Test Award**

**Mark P. Stucky**, Blue Origin

*For being at the forefront of design, analysis, instruction, and flying in the military, NASA, and civilian flight test for over 40 years.*

## **2023 AIAA Hap Arnold Award for Excellence in Aeronautical Program Management**

**Parimal Kopardekar**, NASA Aeronautics Research Institute

*For excellence in developing a concept, initiating, and managing NASA UAS Traffic Management research as well as setting up a novel collaborative approach that resulted in a global impact for integrating new entrants into airspace systems.*

## **STUDENT PAPER COMPETITONS**

**FRIDAY | 16 JUNE**

**0800 hrs | Grand Hall A-C**

### **Air Transportation Systems Student Paper Competition**

### **Atmospheric and Space Environments Student Paper Competition**

### **Computational Fluid Dynamics (CFD) Student Paper Competition**

### **Multidisciplinary Design Optimization Student Paper Competition**

### **Unmanned Systems Student Paper Competition**

## **BEST PROFESSIONAL PAPER AWARDS**

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

### **2022 AIAA Aircraft Design Best Paper Award**

“Comparison of Future Aviation Fuels to Minimize the Climate Impact of Commercial Aircraft” (AIAA 2022-3288) AUTHORS: **P. Proesmans** and **R. Vos**, Delft University of Technology

### **2022 AIAA Aircraft Operations Best Paper Award**

“Identifying Common Coordination Procedures across Extensible Traffic Management (xTM) to Integrate xTM Operations into the National Airspace System” (AIAA 2022-3910) AUTHORS: **Paul U. Lee**, NASA Ames Research Center; **Connie L. Brasil**, **Deborah L. Bakowski**, **Conrad Gabriel**, San Jose State University; **Mark Evans**, ASRC Federal Data Solutions; and **Ryan Chartrand**, NASA Langley Research Center

### **2023 AIAA Applied Aerodynamics Best Paper Award**

“GPU-accelerated simulations for eVTOL aerodynamic analysis” (AIAA 2023-2107) AUTHORS: **Vito Pasquariello**, **Yannick Bunk**, **Sebastian Eberhardt**, **Pei-Hsuan Huang**, **Jan Matheis**, and **Matteo Ugolotti**, Liliium GmbH; and **Stefan Hickel**, Delft University of Technology

### **2023 AIAA Fluid Dynamics Best Paper Award**

“Rational Boolean Stabilization of Subgrid Models for Large Eddy Simulations” (AIAA 2023-2485) AUTHORS: **Emilio E. Torres** and **Werner J. A. Dahm**, Arizona State University

### **2022 AIAA Meshing, Visualization, and Computational Environments Best Paper Award**

“Overlap Preservation Using Loosely-Coupled Boundary Conditions for Body-Fitted Structured Overset Grids” (AIAA 2022-0216) AUTHORS: **Andrew M. Chuen**, University of California Davis; and **William M. Chan**, NASA Ames Research Center

### **2022 AIAA Modeling and Simulation Best Paper Award**

“Estimating Aircraft State from Surveillance Data Using Statistical Learning” (AIAA 2022-3424) AUTHORS: **Cody Nichols**, Federal Aviation Administration; and **Tyler Cook**, University of Central Oklahoma

### **2023 AIAA Plasmadynamics and Lasers Best Paper Award**

“Modeling Flame Speed Modification by Nanosecond Pulsed Discharges to Inform Experimental Design” (AIAA 2023-2056) AUTHORS: **Colin A. Pavan** and **Carmen Guerra-Garcia**, Massachusetts Institute of Technology

### **2023 AIAA Thermophysics Best Professional Paper Award**

“Arc-jet Testing of Continuously Woven Aeroshells – Spiderweave– for Adaptable Deployable Entry Placement Technology” (AIAA 2022-3503) AUTHORS: **Jonathan Morgan**, **Tahir Gökçen**, and **Paul Wercinski**, NASA Ames Research Center

### **2023 AIAA/CEAS Aeroacoustics Best Paper Award**

“Near-field measurements of stationary and rotating in-duct sound sources with pressure-sensitive paint” (AIAA-2022-3056) AUTHORS: **Michael Hilfer**, **Maximilian Behn**, **Christian Klein**, **Thomas Ahlefeldt**, and **Ulf Tapken**, German Aerospace Center; **Lukas Katzenmeier**, Airbus Defence and Space; **Lars Koop** and **Lars Enghardt**, German Aerospace Center

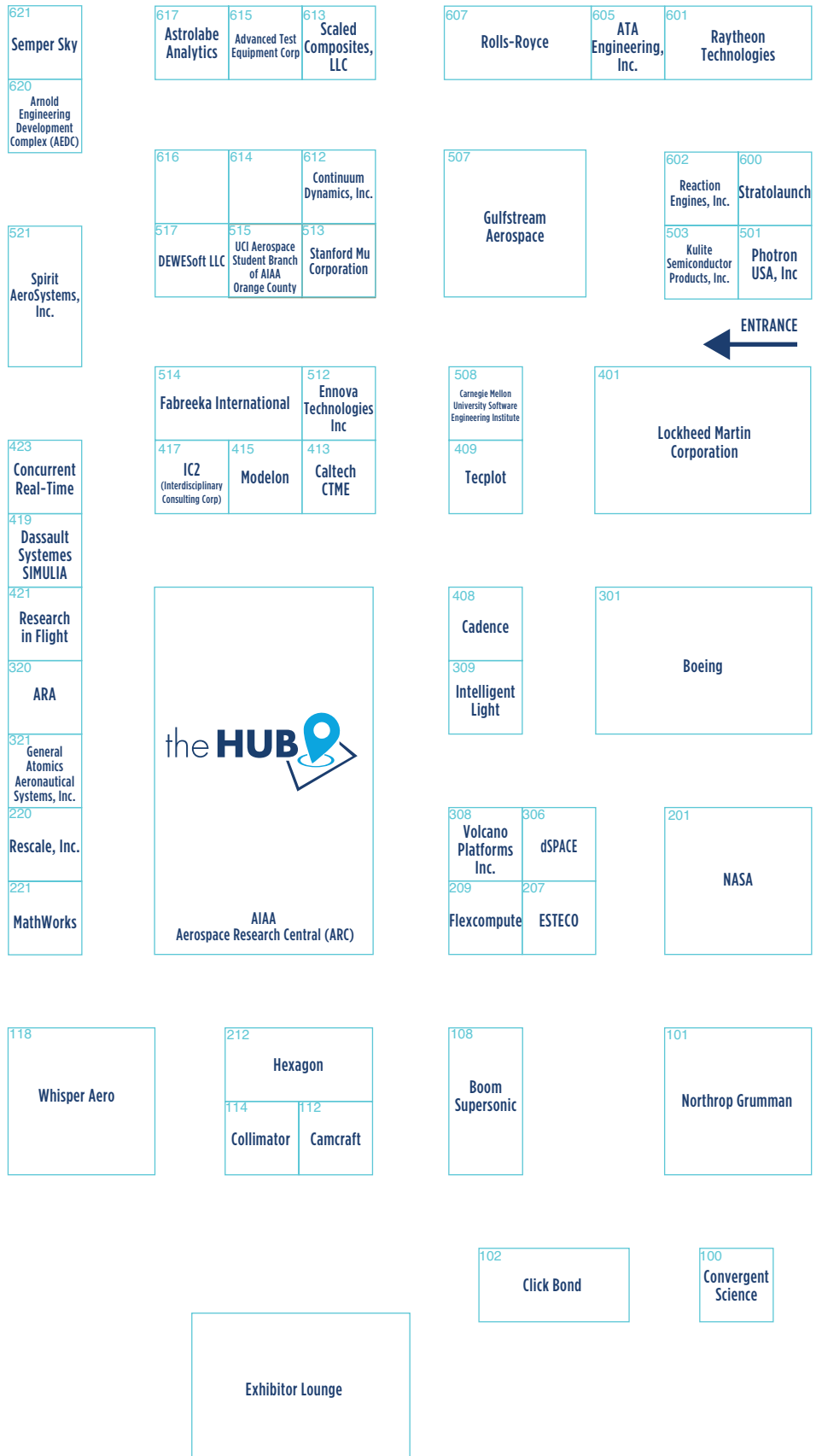
## **BEST STUDENT PAPER AWARDS**

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

### **2023 AIAA David Weaver Thermophysics Best Student Paper Award**

“Assessment of Detailed Thermochemistry and Excitation Models for Shock-Heated Oxygen Mixtures” (AIAA 2022-3500) AUTHORS: **Timothy T. Aiken** and **Iain D. Boyd**, University of Colorado

# EXPOSITION HALL



**EXPOSITION HOURS**

**TUESDAY, 13 JUNE**  
 1300–1630 hrs | *Exposition Hall Open*  
 1730–1900 hrs | *Welcome Happy Hour*

**WEDNESDAY, 14 JUNE**  
 0845–1630 hrs | *Exposition Hall Open*

**THURSDAY, 15 JUNE**  
 0845–1400 hrs | *Exposition Hall Open*  
 1130–1330 hrs | *Lunch with the Exhibitors*

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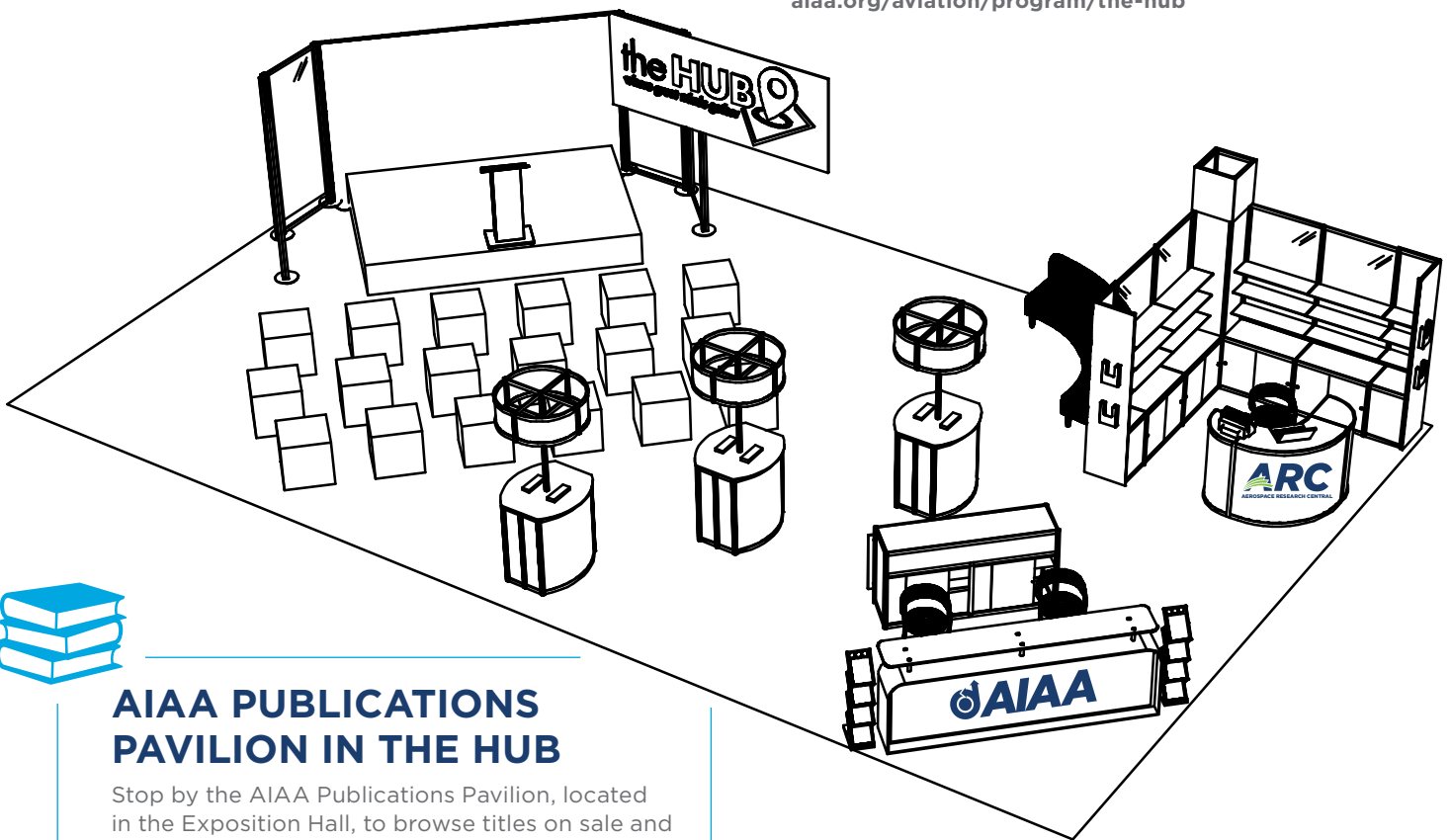


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Check out the complete schedule of activities:  
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617

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Volcano Platforms Inc., is an early-stage technology startup that focuses on providing solutions for physics-based SaaS modeling and simulations to accelerate digital transformation of physical prototyping to predictive, fast, and cost-effective computing. We provide the missing piece in digital-twin for industrial research & development. Our secret sauce is breakthrough-fast algorithms combining rapid pre- and post-processing with high-fidelity modeling. Volcano ScaLES exploits graphics co-processors to complete in hours what now takes weeks. Initial products will be targeting Aerospace & Defense, Automotive, Emerging Urban Air Mobility, and Space Vehicles market segments.

## Whisper Aero

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109 Pointe Ldg.  
Crossville, TN 38555  
[www.whisper.aero](http://www.whisper.aero)



# TECHNICAL SESSIONS AT A GLANCE

 Engage with Your Community at These Must-Attend Events and Specials Sessions

ABBR.	TITLE	DATE	START TIME	ROOM
<b>AEROACOUSTICS</b>				
AA-01/TF-02	<b>Advanced Air Mobility Noise I (joint AA/TF) - Modeling</b>	12-Jun	0930 hrs	Cortez Hill A
AA-02	<b>Airframe / High-Lift Noise I</b>	12-Jun	0930 hrs	Cortez Hill B
AA-03	<b>Computational Aeroacoustics I</b>	12-Jun	0930 hrs	Cortez Hill C
AA-04	<b>Duct Acoustics I: Inlets and Ducts</b>	12-Jun	0930 hrs	Torrey Hills A
AA-05	<b>Jet Aeroacoustics I: Noise Sources</b>	12-Jun	0930 hrs	Harbor B
AA-06	<b>Propeller, Rotorcraft and V/STOL Noise I: Isolated Rotors</b>	12-Jun	0930 hrs	Harbor A
AA-07	<b>Acoustic / Fluid Dynamics Interactions I</b>	12-Jun	1300 hrs	Cortez Hill B
AA-08/TF-05	<b>Advanced Air Mobility Noise II (joint AA/TF) - Community Noise</b>	12-Jun	1300 hrs	Cortez Hill A
AA-09	<b>Computational Aeroacoustics II</b>	12-Jun	1300 hrs	Cortez Hill C
AA-10	<b>Duct Acoustics II: Liners/Treatments</b>	12-Jun	1300 hrs	Torrey Hills A
AA-11	<b>Jet Aeroacoustics II: Supersonic Jet Noise</b>	12-Jun	1300 hrs	Harbor B
AA-12	<b>Propeller, Rotorcraft and V/STOL Noise II: Installed Rotors</b>	12-Jun	1300 hrs	Harbor A
AA-60	<b>2023 CEAS Aeroacoustics Award Lecture</b>	12-Jun	1730 hrs	Harbor A-B
AA-13	<b>Airframe / High-Lift Noise II</b>	13-Jun	0930 hrs	Cortez Hill B
AA-14	<b>Computational Aeroacoustics III</b>	13-Jun	0930 hrs	Cortez Hill C
AA-15	<b>Duct Acoustics III: Liners/Treatments</b>	13-Jun	0930 hrs	Torrey Hills A
AA-16	<b>General Acoustics I: Noise at Airfoils, Plates, and Planes</b>	13-Jun	0930 hrs	Cortez Hill A
AA-18	<b>Propeller, Rotorcraft and V/STOL Noise III: Ducted Rotors</b>	13-Jun	0930 hrs	Harbor A
AA-19	<b>Acoustic / Fluid Dynamics Interactions II</b>	13-Jun	1300 hrs	Cortez Hill B
AA-20	<b>Computational Aeroacoustics IV</b>	13-Jun	1300 hrs	Cortez Hill C
AA-21	<b>Duct Acoustics IV: Liners/Treatments</b>	13-Jun	1300 hrs	Torrey Hills A
AA-22	<b>General Acoustics II: Wind Turbine Noise</b>	13-Jun	1300 hrs	Cortez Hill A
AA-23	<b>Jet Aeroacoustics IV: Modes and Guided Waves</b>	13-Jun	1300 hrs	Harbor B
AA-24	<b>Propeller, Rotorcraft and V/STOL Noise IV: Rotor Vortex/Turbulence Interactions</b>	13-Jun	1300 hrs	Harbor A
AA-25	<b>Aeroacoustics Virtual I: Aero-engine Noise Topics</b>	13-Jun	1530 hrs	Virtual
AA-26	<b>Aeroacoustics Virtual II: Jet Noise, Airfoil Noise, and/or Noise from Cylinders</b>	13-Jun	1530 hrs	Virtual
AA-27	<b>Advanced Testing Techniques I: Phased Arrays</b>	14-Jun	0930 hrs	Cortez Hill C
AA-28	<b>Airframe / High-Lift Noise III</b>	14-Jun	0930 hrs	Cortez Hill B
AA-29	<b>Interior Noise / Structural Acoustics and Metamaterials</b>	14-Jun	0930 hrs	Cortez Hill A
AA-30	<b>Jet Aeroacoustics V: Models and Analogies, and Installation Effects</b>	14-Jun	0930 hrs	Harbor B
AA-31	<b>Propeller, Rotorcraft and V/STOL Noise V: Design, Optimization, Noise Reduction</b>	14-Jun	0930 hrs	Harbor A
AA-32	<b>Turbomachinery and Core Noise</b>	14-Jun	0930 hrs	Torrey Hills A
AA-34	<b>Community Noise, Sonic Boom and Metrics I</b>	14-Jun	1300 hrs	Cortez Hill A
AA-35	<b>Jet Aeroacoustics VI: Nozzle Effects</b>	14-Jun	1300 hrs	Harbor B
AA-38	<b>Aeroacoustics Virtual III: Airfoil and Propeller Noise Topics</b>	14-Jun	1530 hrs	Virtual
AA-39	<b>Aeroacoustics Virtual IV: Computational Methods and Techniques in Aeroacoustics</b>	14-Jun	1530 hrs	Virtual
AA-61	<b>2023 AIAA Aeroacoustics Award Lecture</b>	14-Jun	1730 hrs	Grand Hall A-C
AA-62	<b>2023 AIAA Aeroacoustics Banquet</b>	14-Jun	1845 hrs	Coronado A-B
AA-40	<b>Advanced Testing Techniques II: Wind Tunnels, Ducts and Sensors</b>	15-Jun	0930 hrs	Cortez Hill C

# TECHNICAL SESSIONS AT A GLANCE

ABBR.	TITLE	DATE	START TIME	ROOM
AA-41	AIAA Hybrid Anechoic Wind Tunnel Workshop I	15-Jun	0930 hrs	La Jolla B
AA-42	Airframe / High-Lift Noise IV	15-Jun	0930 hrs	Cortez Hill B
AA-43	Community Noise, Sonic Boom and Metrics II	15-Jun	0930 hrs	Cortez Hill A
AA-44	Jet Aeroacoustics VII: Rectangular Jets	15-Jun	0930 hrs	Harbor B
AA-45	Propeller, Rotorcraft and V/STOL Noise VII: Simulation and Prediction	15-Jun	0930 hrs	Harbor A
AA-46	Turbomachinery and Core Noise III	15-Jun	0930 hrs	Torrey Hills A
AA-47	Acoustic / Fluid Dynamics Interactions IV	15-Jun	1300 hrs	Cortez Hill B
AA-48	AIAA Hybrid Anechoic Wind Tunnel Workshop II	15-Jun	1300 hrs	La Jolla B
AA-49	Jet Aeroacoustics VIII: Subsonic Jets	15-Jun	1300 hrs	Harbor B
AA-50/TF-16	Propeller, Rotorcraft and V/STOL Noise VIII: Multirotor (joint AA/TF)	15-Jun	1300 hrs	Harbor A
AA-51	Turbomachinery and Core Noise IV	15-Jun	1300 hrs	Torrey Hills A
AA-52	Aeroacoustics Virtual V: Jet Noise and Flow and/or Acoustic Test Topics	15-Jun	1530 hrs	Virtual
AA-63	2023 AIAA Aeroacoustics Keynote Lecture	15-Jun	1730 hrs	Grand Hall A-C
AA-53	Airframe / High-Lift Noise V	16-Jun	0930 hrs	Cortez Hill B
AA-54	Jet Aeroacoustics IX: Numerical Prediction	16-Jun	0930 hrs	Harbor B
AA-55	Jet Aeroacoustics X: Screech and Impingement Tones	16-Jun	0930 hrs	Harbor C
AA-57	Acoustic / Fluid Dynamics Interactions V	16-Jun	1300 hrs	Cortez Hill B
AA-58	Jet Aeroacoustics XI: Noise Reduction	16-Jun	1300 hrs	Harbor B
AA-59/TF-20	Propeller, Rotorcraft and V/STOL Noise X: UAM/AAM (joint AA/TF)	16-Jun	1300 hrs	Harbor A
AIRCRAFT DESIGN				
ACD-01	Aerodynamic Design & Validation	12-Jun	0930 hrs	Balboa A
ACD-02	High Speed Vehicles	12-Jun	0930 hrs	Balboa B
ACD-03	Hydrogen Powered Aircraft	12-Jun	0930 hrs	Balboa C
ACD-04	Ultra Efficient Aircraft Design & Dynamics	12-Jun	1300 hrs	Balboa A
ACD-05	Fixed Wing Subsystems Design	13-Jun	0930 hrs	Balboa B
ACD-06	Military Aircraft Design	13-Jun	0930 hrs	Balboa A
INPSI-05/ACD-07/TF-08/GTE-02/PC-01	Spotlight Session on Electrified Aircraft Technology: Hybrid-Electric and Hydrogen Activities at DLR	13-Jun	0930 hrs	Harbor C
ACD-08	Developing an Entrepreneurial Mindset Among Future Aircraft Designers (INVITED)	13-Jun	1300 hrs	Balboa A
ACD-09	eVTOL ToolChains	13-Jun	1300 hrs	Balboa B
ACD-10/TF-09	eVTOL Technologies	14-Jun	0930 hrs	Balboa B
ACD-11/MDO-11	MDO Applications for Aircraft Design	14-Jun	1300 hrs	Balboa A
ACD-12	Multi-Media & Unique Vehicles	14-Jun	1530 hrs	Virtual
ACD-13	Vehicle Design Studies	14-Jun	1530 hrs	Virtual
ACD-14	CADWG - Jan Roskam Memorial	14-Jun	1730 hrs	Harbor A
ACD-15	Systems Design	15-Jun	0930 hrs	Balboa B
ACD-16	Unique Missions	15-Jun	0930 hrs	Balboa A
ACD-17	Aircraft Operations Studies	15-Jun	1300 hrs	Balboa A
ACD-18	Novel Propulsion Systems	15-Jun	1300 hrs	Balboa B
ACD-19	Aerodynamic Design Tools and Processes	15-Jun	1530 hrs	Virtual

# TECHNICAL SESSIONS AT A GLANCE

ABBR.	TITLE	DATE	START TIME	ROOM
<b>APPLIED AERODYNAMICS</b>				
APA-01	<b>Aerodynamic Design I</b>	12-Jun	0930 hrs	Hillcrest B
APA-02/ INPSI-02	<b>Aerodynamics of Inlet and Exhaust Systems</b>	12-Jun	0930 hrs	Pier
APA-03	<b>Applied Computational Fluid Dynamics I</b>	12-Jun	0930 hrs	Hillcrest C
APA-04	<b>Low Speed, Low Reynolds Number Aerodynamics</b>	12-Jun	0930 hrs	Torrey Hills B
APA-05	<b>Rotorcraft and Propeller Aerodynamic I</b>	12-Jun	0930 hrs	Hillcrest A
APA-06	<b>Special Session: 7th AIAA CFD Drag Prediction Workshop I</b>	12-Jun	0930 hrs	Harbor C
APA-07	<b>Aerodynamic Design II</b>	12-Jun	1300 hrs	Hillcrest B
APA-08	<b>Aero-Propulsive Interactions I</b>	12-Jun	1300 hrs	Old Town B
APA-09	<b>Applied Computational Fluid Dynamics II</b>	12-Jun	1300 hrs	Hillcrest C
APA-10	<b>Rotorcraft and Propeller Aerodynamic II</b>	12-Jun	1300 hrs	Hillcrest A
APA-11	<b>Special Session: 7th AIAA CFD Drag Prediction Workshop II</b>	12-Jun	1300 hrs	Harbor C
APA-12	<b>Unsteady Aerodynamics</b>	12-Jun	1300 hrs	Hillcrest D
GT-03/APA-13/ CFD2030-01	<b>Integration of Computations and Experimentation: Mutual Accountability and Validation Dialog</b>	12-Jun	1600 hrs	Harbor I
APA-14	<b>Special Session: 7th AIAA CFD Drag Prediction Workshop III</b>	12-Jun	1600 hrs	Harbor C
APA-15	<b>Aerodynamics Award Lecture I</b>	13-Jun	0930 hrs	Harbor I
APA-16	<b>Aerodynamic Testing I</b>	13-Jun	0930 hrs	Hillcrest B
APA-17	<b>Aero-Propulsive Interactions II</b>	13-Jun	0930 hrs	Hillcrest D
APA-18	<b>Boundary-Layer Transition for Aerodynamic Applications I</b>	13-Jun	0930 hrs	Torrey Hills B
APA-19	<b>Wind Turbine Aerodynamics</b>	13-Jun	0930 hrs	Hillcrest A
APA-20	<b>Aerodynamics Award Lecture II</b>	13-Jun	1030 hrs	Harbor I
APA-21	<b>Aerodynamic Testing II</b>	13-Jun	1300 hrs	Hillcrest B
APA-22	<b>Boundary-Layer Transition for Aerodynamic Applications II</b>	13-Jun	1300 hrs	Torrey Hills B
APA-23	<b>Rotorcraft and Propeller Aerodynamic III</b>	13-Jun	1300 hrs	Hillcrest A
SPSN-02/ APA-24	<b>Supersonic Method Developments</b>	13-Jun	1300 hrs	Gaslamp C
APA-25	<b>Aerodynamic Flow Control I</b>	13-Jun	1530 hrs	Virtual
APA-26	<b>Airfoil/Wing/Configuration Aerodynamics</b>	13-Jun	1530 hrs	Virtual
APA-27	<b>Applied Aeroelasticity and Aerodynamic-Structural Dynamics Interaction I</b>	14-Jun	0930 hrs	Torrey Hills B
APA-28	<b>Hypersonic Aerodynamics I</b>	14-Jun	0930 hrs	Hillcrest C
APA-29	<b>Reduced Order Aerodynamics I</b>	14-Jun	0930 hrs	Hillcrest A
APA-30	<b>Aerodynamic Flow Control II</b>	14-Jun	1300 hrs	Hillcrest B
APA-31	<b>Applied Aeroelasticity and Aerodynamic-Structural Dynamics Interaction II</b>	14-Jun	1300 hrs	Torrey Hills B
APA-32	<b>Reduced Order Aerodynamics II</b>	14-Jun	1300 hrs	Hillcrest A
APA-33	<b>Aerodynamic Design &amp; Testing</b>	14-Jun	1530 hrs	Virtual
APA-34	<b>Applied Computational Fluid Dynamics III</b>	14-Jun	1530 hrs	Virtual
APA-35/INP- SI-09	<b>Design and Analysis of Inlet and Exhaust Systems</b>	14-Jun	1530 hrs	Virtual
APA-36	<b>Topics in Applied Aerodynamics</b>	14-Jun	1530 hrs	Virtual
APA-37	<b>Aerodynamic Flow Control III</b>	15-Jun	0930 hrs	Hillcrest B

# TECHNICAL SESSIONS AT A GLANCE

ABBR.	TITLE	DATE	START TIME	ROOM
APA-38	Hypersonic Aerodynamics II	15-Jun	0930 hrs	Hillcrest C
APA-39	Special Session: North Atlantic Treaty Organization	15-Jun	0930 hrs	Hillcrest D
APA-40	Aerodynamic Flow Control IV	15-Jun	1300 hrs	Hillcrest B
APA-41	Airfoil/Wing/Configuration Aerodynamics I	15-Jun	1300 hrs	Hillcrest C
APA-42/ SPSN-03	Special Session: CFD Predictions & Validation for X-59 Wind Tunnel Model	15-Jun	1300 hrs	Hillcrest D
APA-43	Applied Computational Fluid Dynamics IV	15-Jun	1530 hrs	Virtual
APA-44	Special Session: Stability & Control Prediction Workshop Interim 1.5 (S&CPW 1.5): 2D CRM Wing and Tail Section	15-Jun	1530 hrs	Virtual
APA-45	Missile/Projectile/Munition Aerodynamics	16-Jun	0930 hrs	Torrey Hills B
APA-46	Special Session: X-59 Probe Calibration	16-Jun	0930 hrs	Hillcrest D
APA-47	Airfoil/Wing/Configuration Aerodynamics II	16-Jun	1300 hrs	Hillcrest C
<b>ATMOSPHERIC AND SPACE ENVIRONMENTS</b>				
ASE-01	Observations and Modeling of the Atmospheric Environment	13-Jun	0930 hrs	Cove
ASE-02	Wake Turbulence and Other Atmospheric Hazard to Aviation Operations	13-Jun	1300 hrs	Cove
ASE-03	Atmospheric and Space Environments Virtual Session	14-Jun	1530 hrs	Virtual
TF-18/PDL-07/ ASE-04/SR-03/ SPSN-04	General Topics in Aviation II Virtual Session	15-Jun	1530 hrs	Virtual
<b>AEROSPACE TRAFFIC MANAGEMENT</b>				
ATM-01	Innovative Systems Approaches to Aerospace Traffic Management	12-Jun	1300 hrs	Balboa C
ATM-02	Enabling Improved Separation Assurance and Self-Separation	13-Jun	1300 hrs	Balboa C
ATM-03	Enabling Growth Within Aerospace Traffic Management Operations	13-Jun	1530 hrs	Virtual
ATM-04	Overcoming Barriers Plus International Approaches to New Entrants into the Aerospace Traffic Management System	14-Jun	1300 hrs	Balboa C
ATM-05	Scientific and Technical Advancements in UAP Understanding (Virtual)	14-Jun	1530 hrs	Virtual
ATM-06	Scientific and Technical Advancements in UAP Understanding	15-Jun	1300 hrs	Balboa C
<b>AIR TRANSPORTATION SYSTEMS</b>				
ATS-01	AAM and UAM I	12-Jun	0930 hrs	Harbor D
ATS-02	Advanced ConOps	12-Jun	0930 hrs	Harbor I
ATS-03	AAM and UAM II	12-Jun	1300 hrs	Harbor D
ATS-04	Airlines and Airports	12-Jun	1300 hrs	Harbor I
ATS-05	AAM and UAM III	13-Jun	0930 hrs	Harbor D
ATS-06	Safety and Reliability	13-Jun	0930 hrs	Balboa C
ATS-07	AAM and UAM IV	13-Jun	1300 hrs	Harbor D
ATS-08	AAM and UAM V	14-Jun	0930 hrs	Harbor D
ATS-09	NASA SWS	14-Jun	1300 hrs	Balboa B
ATS-10	Simulation, Modeling and Analysis	14-Jun	1300 hrs	Harbor D
ATS-11	Topics in Air Transportation Systems I	14-Jun	1530 hrs	Virtual
ATS-12	Air Transportation Systems Virtual Session	14-Jun	1530 hrs	Virtual
ATS-13	Aviation Economics, Policy and Social	15-Jun	0930 hrs	Balboa C
ATS-14	Machine Learning and AI I	15-Jun	0930 hrs	Harbor D

# TECHNICAL SESSIONS AT A GLANCE

ABBR.	TITLE	DATE	START TIME	ROOM
ATS-15	<b>Sustainable Aviation I</b>	15-Jun	0930 hrs	Harbor C
ATS-16	<b>Machine Learning and AI II</b>	15-Jun	1300 hrs	Harbor D
ATS-17	<b>Sustainable Aviation II</b>	15-Jun	1300 hrs	Harbor C
ATS-18	<b>Topics in Air Transportation Systems II</b>	15-Jun	1530 hrs	Virtual
ATS-19	<b>Machine Learning and AI III</b>	16-Jun	0930 hrs	Harbor D
ATS-20	<b>Machine Learning and AI IV</b>	16-Jun	1300 hrs	Harbor D
<b>COMPUTATIONAL FLUID DYNAMICS</b>				
CFD-01	<b>Algorithms and Applications of Reduced Order Modeling I</b>	12-Jun	0930 hrs	Solana Beach A
CFD-02	<b>Boundary Layer Transition I</b>	12-Jun	0930 hrs	Ocean Beach
CFD-03	<b>Verification, Validation, and Uncertainty Quantification</b>	12-Jun	0930 hrs	Solana Beach B
CFD-04	<b>Algorithms and Applications of Reduced Order Modeling II</b>	12-Jun	1300 hrs	Solana Beach A
CFD-05	<b>Boundary Layer Transition II</b>	12-Jun	1300 hrs	Ocean Beach
CFD-06	<b>Hybrid RANS/LES</b>	12-Jun	1300 hrs	Torrey Hills B
CFD-07	<b>Numerical Algorithms and Analysis</b>	12-Jun	1300 hrs	Pier
CFD-08	<b>Parallel Algorithm</b>	12-Jun	1300 hrs	Cove
CFD-09	<b>Boundary Layer Transition III</b>	13-Jun	0930 hrs	Ocean Beach
CFD-10	<b>CFD-APA I</b>	13-Jun	1300 hrs	Solana Beach A
CFD-11	<b>High-Order Numerical Methods I</b>	13-Jun	1300 hrs	Ocean Beach
CFD-12	<b>Large Eddy Simulations I</b>	13-Jun	1530 hrs	Virtual
CFD-13	<b>Numerical Algorithms I</b>	13-Jun	1530 hrs	Virtual
CFD-14	<b>High-Order Numerical Methods II</b>	14-Jun	0930 hrs	Ocean Beach
FVS-01	<b>Flow Visualization Showcase</b>	14-Jun	0930 hrs	Harbor G
CFD-15	<b>CFD-APA II</b>	14-Jun	1300 hrs	Solana Beach A
CFD-16	<b>Large-Eddy Simulations II</b>	14-Jun	1300 hrs	Ocean Beach
CFD-17	<b>Modeling, Verification, and Application Studies I</b>	14-Jun	1530 hrs	Virtual
CFD-18	<b>Adaptive Meshing</b>	15-Jun	1300 hrs	Solana Beach A
CFD-19	<b>Large-Eddy Simulations III</b>	15-Jun	1300 hrs	Ocean Beach
CFD-20	<b>Modeling, Verification and Application Studies II</b>	15-Jun	1530 hrs	Virtual
CFD-21	<b>Numerical Algorithms II</b>	15-Jun	1530 hrs	Virtual
<b>CFD VISION 2030</b>				
GT-03/APA-13/ CFD2030-01	<b>Integration of Computations and Experimentation: Mutual Accountability and Validation Dialog</b>	12-Jun	1600 hrs	Harbor I
CFD2030-02	<b>CFD Simulation of the Smooth Body Separation Experiment</b>	14-Jun	1300 hrs	Cove
<b>DESIGN ENGINEERING</b>				
DGE-01/DE-01	<b>Digital Modeling &amp; Simulation with ML/AI and/or HPC</b>	12-Jun	1300 hrs	Gaslamp A
DGE-02/DE-02	<b>Digital Ecosystem, Digital Thread and Digital Twin</b>	13-Jun	0930 hrs	Gaslamp A
DE-03	<b>Innovative &amp; Creative Designs in Aerospace and Other Areas</b>	13-Jun	1300 hrs	Gaslamp A
DE-04	<b>Design Engineering</b>	14-Jun	0930 hrs	Gaslamp A
DE-05	<b>Design Engineering Virtual Session</b>	14-Jun	1530 hrs	Virtual
<b>DIGITAL ENGINEERING</b>				
DGE-01/DE-01	<b>Digital Modeling &amp; Simulation with ML/AI and/or HPC</b>	12-Jun	1300 hrs	Gaslamp A



# TECHNICAL SESSIONS AT A GLANCE

ABBR.	TITLE	DATE	START TIME	ROOM
DGE-02/DE-02	<b>Digital Ecosystem, Digital Thread and Digital Twin</b>	13-Jun	0930 hrs	Gaslamp A
DGE-03	<b>Digital Engineering Virtual Session</b>	13-Jun	1530 hrs	Virtual
DGE-04	<b>Digital Airworthiness and Certification (DAC)</b>	15-Jun	1300 hrs	Gaslamp A
<b>ELECTRIFIED AIRCRAFT TECHNOLOGY</b>				
EATS-01	<b>Rolling Recap I</b>	12-Jun	1300 hrs	Gaslamp B
EATS-02	<b>Spotlight on Sustainable Aviation Research at the National Research Council of Canada</b>	13-Jun	0930 hrs	La Jolla B
EATS-03	<b>Electrified Aircraft Design &amp; Mission Operation I</b>	14-Jun	0930 hrs	Gaslamp B
EATS-04	<b>Electrified Aircraft Propulsion, Architectures &amp; Systems Integration I</b>	14-Jun	0930 hrs	Gaslamp C
VSTOL-02/ EATS-05	<b>International Powered Lift Conference (IPLC): Enabling Electric V/STOL Technologies</b>	14-Jun	0930 hrs	Harbor I
EATS-06	<b>Thermal Management</b>	14-Jun	0930 hrs	Harbor E
EATS-07	<b>Aircraft Electrification: Benefitting from the Automotive Experience</b>	14-Jun	1300 hrs	Golden Hill A
EATS-08	<b>Electrical Energy Generation, Storage, &amp; Management I</b>	14-Jun	1300 hrs	Gaslamp B
EATS-09	<b>NASA Spotlight Session on Electrified Powertrain Flight Demonstrations with Industry</b>	14-Jun	1300 hrs	Gaslamp C
EATS-10	<b>Testing, Validation, Safety, &amp; Certification</b>	14-Jun	1300 hrs	Gaslamp A
TF-11/EATS-11/ GA-06	<b>X-57 Maxwell Lessons Learned</b>	14-Jun	1300 hrs	Harbor E
EATS-12	<b>EATS Virtual Session I</b>	14-Jun	1530 hrs	Virtual
EATSWATCH1	<b>EATS Virtual Session I Watch Room</b>	14-Jun	1530 hrs	Gaslamp A
EATS-13	<b>Electrified Aircraft Design &amp; Mission Operation II</b>	14-Jun	1530 hrs	Gaslamp B
EATS-14	<b>Failure/Fault Mode Protection, Solid State Control, Diagnostics &amp; Modeling</b>	14-Jun	1530 hrs	Gaslamp C
EATS-15	<b>Special Session - Massachusetts Institute of Technology Megawatt Machine</b>	14-Jun	1530 hrs	Harbor E
EATS-16	<b>EATS Student Design Competition</b>	14-Jun	1700 hrs	Gaslamp A
EATS-17	<b>Electrified Aircraft Design &amp; Mission Operation III</b>	15-Jun	0930 hrs	Gaslamp B
EATS-18	<b>Electromagnetic Compatibility (EMC) Panel</b>	15-Jun	0930 hrs	La Jolla A
EATS-19	<b>Special Session - NASA Electrified Aircraft Propulsion Hardware-in-the-Loop Testing</b>	15-Jun	0930 hrs	Gaslamp D
EATS-20	<b>Superconducting, Cryogenic Components, and Systems I</b>	15-Jun	0930 hrs	Gaslamp C
TF-14/EATS-21/ GA-07	<b>X-57 Maxwell Propulsion System</b>	15-Jun	0930 hrs	Harbor F
EATS-22	<b>Best Practices and Lessons from Ground-Testing EAP Systems</b>	15-Jun	1300 hrs	Harbor E
EATS-23	<b>Power Electronics, Electric Machines and Drives I</b>	15-Jun	1300 hrs	Gaslamp C
EATS-24	<b>Special Session - Center for High-Efficiency Electrical Technologies for Aircraft I</b>	15-Jun	1300 hrs	Gaslamp B
EATS-25	<b>EATS Virtual Session II</b>	15-Jun	1530 hrs	Virtual
EATSWATCH2	<b>EATS Virtual Session II Watch Room</b>	15-Jun	1530 hrs	Gaslamp A
EATS-26	<b>Power Management, Distribution &amp; High Voltage Considerations</b>	15-Jun	1530 hrs	Gaslamp C
EATS-27	<b>Special Session - Center for High-Efficiency Electrical Technologies for Aircraft II</b>	15-Jun	1530 hrs	Gaslamp D
EATS-28	<b>System Dynamics, Modeling, &amp; Control I</b>	15-Jun	1530 hrs	Gaslamp B
EATS-29	<b>Electrified Aircraft Propulsion, Architectures &amp; Systems Integration II</b>	16-Jun	0930 hrs	Gaslamp C
EATS-30	<b>Power Electronics, Electric Machines and Drives II</b>	16-Jun	0930 hrs	Gaslamp D
EATS-31	<b>System Dynamics, Modeling, &amp; Control II</b>	16-Jun	0930 hrs	Golden Hill A

# TECHNICAL SESSIONS AT A GLANCE

ABBR.	TITLE	DATE	START TIME	ROOM
EATS-32	Electrical Energy Generation, Storage, & Management II	16-Jun	1300 hrs	Gaslamp B
EATS-33	Rolling Recap II	16-Jun	1300 hrs	Harbor E
EATS-34	Superconducting, Cryogenic Components, and Systems II	16-Jun	1300 hrs	Gaslamp D
EATS-35	Electrified Aircraft Propulsion, Architectures & Systems Integration III	16-Jun	1530 hrs	Gaslamp C
EATS-36	Power Electronics, Electric Machines and Drives III	16-Jun	1530 hrs	Gaslamp D
EATS-KN1	EATS Keynote Presentation: The Electric Aircraft EcoSystem: Performance Potential, Economics and Societal Impact in the Age of Sustainable Air Travel	14-Jun	1115 hrs	Harbor E
EATS-KN2	EATS Keynote Presentation: Beyond battery-range: How does electric propulsion change how we travel?	15-Jun	1115 hrs	Harbor E
EATS-KN3	EATS Keynote Presentation: ASCEND Main Results and Perspectives	16-Jun	1115 hrs	Harbor E
<b>FLUID DYNAMICS</b>				
FD-01	Flow Control Devices and Applications: Separation Control	12-Jun	0930 hrs	Mission Beach A
FD-02	Shock-Boundary Layer Interactions: Computational Approaches	12-Jun	0930 hrs	Mission Beach B
FD-03	Special Session: Prof. Anatoli Tumin Memorial Session I	12-Jun	0930 hrs	Cove
FD-04	Stability and Transition: Numerical Studies	12-Jun	0930 hrs	Mission Beach C
FD-05	Flow Control Devices and Applications: Characterization	12-Jun	1300 hrs	Mission Beach A
FD-06	Stability and Transition: BOLT, Delta Wing, and Roughness	12-Jun	1300 hrs	Mission Beach C
FD-07	Flow Control Devices and Applications: Devices	13-Jun	0930 hrs	Mission Beach A
FD-08	Shock-Boundary Layer Interactions: Experimental Studies II	13-Jun	0930 hrs	Mission Beach B
FD-09	Stability and Transition: Stability and Resolvent Analyses	13-Jun	0930 hrs	Mission Beach C
FD-10	Supersonic and Hypersonic Flows: Boundary Layers	13-Jun	0930 hrs	Solana Beach B
FD-11	Shock-Boundary Layer Interactions: Instabilities/Unsteadiness	13-Jun	1300 hrs	Mission Beach B
FD-12	Special Session: Prof. Anatoli Tumin Memorial Session II	13-Jun	1300 hrs	Promenade B
FD-13	Stability and Transition: Experimental Studies	13-Jun	1300 hrs	Mission Beach C
FD-14	Supersonic and Hypersonic Flows: Maneuverability, Control, and Stability	13-Jun	1300 hrs	Solana Beach B
FD-15	Multiphase Flows	13-Jun	1530 hrs	Virtual
FD-16	Transition Open Forum	13-Jun	1530 hrs	Harbor D
FD-17	Fluid Dynamics Award Lecture	13-Jun	1900 hrs	Harbor B
FD-18	Shock-Boundary Layer Interactions: Structural and Thermal Response	14-Jun	0930 hrs	Hillcrest D
FD-19	Turbulent Flows: Modification and Control	14-Jun	0930 hrs	Mission Beach B
FD-20	Vortex Dynamics and Rotating Flows I	14-Jun	0930 hrs	Pier
FVS-01	Flow Visualization Showcase	14-Jun	0930 hrs	Harbor G
FD-21	Special Session: Advances in Aerodynamics from AIAA-KSAS	14-Jun	1300 hrs	Mission Beach A
FD-22	Stability and Transition: Roughness	14-Jun	1300 hrs	Mission Beach C
FD-23	Turbulent Flows: Complex Geometry	14-Jun	1300 hrs	Mission Beach B
FD-24	Unsteady Aerodynamics and Massively Separated Flows: Compressible Flows and Swept Wings	14-Jun	1300 hrs	Solana Beach B
FD-25	Vortex Dynamics and Rotating Flows II	14-Jun	1300 hrs	Pier
FD-26	Flow Control Open Forum	14-Jun	1530 hrs	Harbor D
FD-27	Supersonic and Hypersonic Flows	14-Jun	1530 hrs	Virtual
FD-28	Flow Control Devices and Applications: Supersonic	15-Jun	0930 hrs	Mission Beach A

# TECHNICAL SESSIONS AT A GLANCE

ABBR.	TITLE	DATE	START TIME	ROOM
FD-29	Instrumentation and Diagnostic Techniques: High Speed and Multi-Physics Systems	15-Jun	0930 hrs	Hillcrest A
FD-30	Low-Reynolds-Number and Bio-Inspired Flows: Bio-Inspired Flows	15-Jun	0930 hrs	Pier
FD-31	Multiphase Flows: Applications	15-Jun	0930 hrs	Mission Beach B
FD-32	Reduced-Complexity Modeling and Machine Learning I	15-Jun	0930 hrs	Bankers Hill
FD-33	Unsteady Aerodynamics and Massively Separated Flows: Fluid-Structure Interactions and Control	15-Jun	0930 hrs	Solana Beach B
FD-35	Flow Control Devices and Applications: Wings and Airfoils	15-Jun	1300 hrs	Mission Beach A
FD-36	Instrumentation and Diagnostic Techniques: Optical Methods	15-Jun	1300 hrs	Hillcrest A
FD-37	Low-Reynolds-Number and Bio-Inspired Flows: Low-Reynolds-Number Flows	15-Jun	1300 hrs	Pier
FD-38	Reduced-Complexity Modeling and Machine Learning II	15-Jun	1300 hrs	Solana Beach B
FD-39	Reduced-Complexity Modeling and Machine Learning III	15-Jun	1300 hrs	Bankers Hill
FD-40	Flow Control Devices and Applications	15-Jun	1530 hrs	Virtual
FD-41	Wings and Airfoils	15-Jun	1530 hrs	Virtual
<b>FLIGHT TESTING</b>				
FT-01	2022 RVLTVMS Experiment to Study Impact of the Powertrain on Handling/ Flying Qualities	12-Jun	0930 hrs	Gaslamp C
FT-02	Rotorcraft and Fixed-Wing Flight Testing	12-Jun	0930 hrs	La Jolla B
FT-03	Flight Test Data Modeling and Review	12-Jun	1300 hrs	La Jolla B
FT-04	2022 RVLTVMS Degraded/Failed Powertrain Effect on Handling/Flying Qualities of the Lift + Cruise	13-Jun	1300 hrs	Harbor C
FT-05	Other Topics in Flight Testing	13-Jun	1530 hrs	Virtual
FT-06	Advanced Air Mobility Operations & Automation Part I	14-Jun	0930 hrs	Harbor C
FT-07	Advanced Air Mobility Operations & Automation Part II	14-Jun	1300 hrs	Harbor C
FT-08	ePowertrain the Right Ground Test Apparatus for the Right Job	15-Jun	1300 hrs	Golden Hill A
FT-09	Flight Test Lessons Learned	15-Jun	1300 hrs	Cortez Hill C
FT-10	Chanute Flight Test Award Lecture	15-Jun	1730 hrs	Harbor B
<b>GENERAL AVIATION</b>				
GA-01/TF-01	Advanced Regional Air Mobility	12-Jun	0930 hrs	Harbor E
GA-02/TF-04	Concepts for Advanced Regional Air Mobility	12-Jun	1300 hrs	Harbor E
GA-03/TF-07	Advanced Air Mobility Operations	13-Jun	0930 hrs	Harbor E
TF-06/GA-04	Improved Certification and Safety Assurance Approaches for Existing or New Concepts	13-Jun	0930 hrs	Harbor F
GA-05	Analyses for Increased Aviation Safety and/or Throughput	13-Jun	1530 hrs	Virtual
TF-11/EATS-11/ GA-06	X-57 Maxwell Lessons Learned	14-Jun	1300 hrs	Harbor E
TF-14/EATS- 21/GA-07	X-57 Maxwell Propulsion System	15-Jun	0930 hrs	Harbor F
<b>GROUND TESTING</b>				
GT-01	Hypersonic Wind Tunnel Measurements and Characterization	12-Jun	0930 hrs	Promenade A
GT-02	Miscellaneous Topics In Ground Testing	12-Jun	1300 hrs	Promenade A

# TECHNICAL SESSIONS AT A GLANCE

ABBR.	TITLE	DATE	START TIME	ROOM
GT-03/APA-13/ CFD2030-01	<b>Integration of Computations and Experimentation: Mutual Accountability and Validation Dialog</b>	12-Jun	1600 hrs	Harbor I
GT-04	<b>Novel Sensors for Testing: Characterization and Measurements</b>	13-Jun	0930 hrs	Promenade A
GT-05	<b>Optical Diagnostics and Measurements in Hypersonic Flows</b>	13-Jun	1300 hrs	Promenade A
GT-06	<b>NPAT Wind Tunnel Community Forum – “Mid-Size Facilities and their role in supporting the Mission”</b>	14-Jun	0930 hrs	Solana Beach B
GT-07	<b>Special Session: 65 Years of TASK Wind Tunnel Balances - Past, Present, Future (Part 1)</b>	14-Jun	0930 hrs	Promenade A
GT-08	<b>Special Session: 65 Years of TASK Wind Tunnel Balances - Past, Present, Future (Part 2)</b>	14-Jun	1300 hrs	Promenade A
GT-09	<b>Wind Tunnel Characterization and Improvements</b>	15-Jun	1300 hrs	Promenade A
<b>GAS TURBINE ENGINES</b>				
GTE-01/ INPSI-06/ HSABP-03	<b>AIAA Engine Design Competition for Undergraduate Teams: Round 2</b>	13-Jun	1300 hrs	Harbor F
INPSI-05/ACD- 07/TF-08/ GTE-02/PC-01	<b>Spotlight Session on Electrified Aircraft Technology: Hybrid-Electric and Hydrogen Activities at DLR</b>	13-Jun	0930 hrs	Harbor C
<b>HIGH-SPEED AIR BREATHING PROPULSION</b>				
HSABP-01	<b>High-Speed Cavity Flameholders</b>	12-Jun	0930 hrs	Gaslamp D
HSABP-02	<b>High-Speed Combustion Modeling, Simulation, and Experimentation</b>	12-Jun	1300 hrs	Gaslamp D
GTE-01/ INPSI-06/ HSABP-03	<b>AIAA Engine Design Competition for Undergraduate Teams: Round 2</b>	13-Jun	1300 hrs	Harbor F
HSABP-04	<b>High-Speed Combustion Experimentation and Modeling</b>	13-Jun	1530 hrs	Virtual
PGC-01/ HSABP-05	<b>Applications of Rotating Detonation Combustion for Propulsion and Power</b>	14-Jun	0930 hrs	Balboa A
HSABP-06/ INPSI-07	<b>High-Speed Inlets, Isolators, and Nozzles I</b>	14-Jun	0930 hrs	Gaslamp D
HSABP-07/ INPSI-08	<b>High-Speed Inlets, Isolators, and Nozzles II</b>	14-Jun	1300 hrs	Gaslamp D
PGC-02/ HSABP-08	<b>Progress on Operability and Performance Evaluation of RDEs/RDREs</b>	14-Jun	1300 hrs	La Jolla A
HSABP-09	<b>Topics in High-Speed Air-Breathing Propulsion</b>	14-Jun	1530 hrs	Virtual
HSABP-10/ INPSI-10	<b>High-Speed Inlets, Isolators, and Nozzles III</b>	15-Jun	1530 hrs	Virtual
<b>INLETS, NOZZLES &amp; PROPULSION SYSTEMS INTEGRATION</b>				
INPSI-01	<b>Aerodynamics of Complex Inlet and Nozzle Configurations</b>	12-Jun	0930 hrs	Bankers Hill
APA-02/ INPSI-02	<b>Aerodynamics of Inlet and Exhaust Systems</b>	12-Jun	0930 hrs	Pier
INPSI-03	<b>Performance and Assessment of Unique Inlets, Nozzles, and Propulsion Systems</b>	12-Jun	1300 hrs	Bankers Hill
INPSI-04	<b>Topics in Inlets, Nozzles, and Propulsion System Integration</b>	13-Jun	0930 hrs	Bankers Hill
INPSI-05/ACD- 07/TF-08/ GTE-02/PC-01	<b>Spotlight Session on Electrified Aircraft Technology: Hybrid-Electric and Hydrogen Activities at DLR</b>	13-Jun	0930 hrs	Harbor C
GTE-01/ INPSI-06/ HSABP-03	<b>AIAA Engine Design Competition for Undergraduate Teams: Round 2</b>	13-Jun	1300 hrs	Harbor F

# TECHNICAL SESSIONS AT A GLANCE

ABBR.	TITLE	DATE	START TIME	ROOM
HSABP-06/ INPSI-07	<b>High-Speed Inlets, Isolators, and Nozzles I</b>	14-Jun	0930 hrs	Gaslamp D
HSABP-07/ INPSI-08	<b>High-Speed Inlets, Isolators, and Nozzles II</b>	14-Jun	1300 hrs	Gaslamp D
APA-35/INP- SI-09	<b>Design and Analysis of Inlet and Exhaust Systems</b>	14-Jun	1530 hrs	Virtual
HSABP-10/ INPSI-10	<b>High-Speed Inlets, Isolators, and Nozzles III</b>	15-Jun	1530 hrs	Virtual
<b>LIGHTER-THAN-AIR-SYSTEMS</b>				
LTA-01	<b>Lighter-Than-Air-Systems II: Winged Hybrids Virtual Session</b>	13-Jun	1530 hrs	Virtual
LTA-02	<b>Lighter-Than-Air-Systems I</b>	14-Jun	0930 hrs	Promenade B
LTA-03	<b>Lighter-Than-Air-Systems III: Airships Aerostats Hot Air Balloon Virtual Session</b>	14-Jun	1530 hrs	Virtual
<b>MULTIDISCIPLINARY DESIGN OPTIMIZATION</b>				
MDO-01	<b>Aerodynamic Design and Shape Optimization I</b>	12-Jun	0930 hrs	Old Town A
MDO-02	<b>Aeroelastic and Aero-Structures Optimization</b>	12-Jun	0930 hrs	Old Town B
MDO-03	<b>Aerodynamic Design and Shape Optimization II</b>	12-Jun	1300 hrs	Old Town A
MDO-04	<b>Aerodynamic Design and Shape Optimization III</b>	13-Jun	0930 hrs	Old Town A
MDO-05	<b>Metamodeling, Reduced-Order Models, and Approximation Methods I</b>	13-Jun	0930 hrs	Old Town B
MDO-06	<b>Metamodeling, Reduced-Order Models, and Approximation Methods II</b>	13-Jun	1300 hrs	Old Town B
MDO-07	<b>NASA ULI: Urban air mobility vehicle design using large-scale MDAO</b>	13-Jun	1300 hrs	Old Town A
MDO-08	<b>Multidisciplinary Design Optimization Virtual Session</b>	13-Jun	1530 hrs	Virtual
MDO-09	<b>Aircraft Design Optimization I</b>	14-Jun	0930 hrs	Old Town B
MDO-10	<b>Model Based Systems Engineering Integration with MDO</b>	14-Jun	0930 hrs	Old Town A
ACD-11/MDO-11	<b>MDO Applications for Aircraft Design</b>	14-Jun	1300 hrs	Balboa A
MDO-12	<b>Aircraft Design Optimization II</b>	14-Jun	1300 hrs	Old Town B
MDO-13	<b>Multi-Fidelity Methods for Vehicle Applications</b>	14-Jun	1300 hrs	Old Town A
MDO-14	<b>Emerging Methods, Algorithms and Software Development in MAO</b>	15-Jun	0930 hrs	Old Town A
MDO-15	<b>Non-deterministic Design Methods and Applications</b>	15-Jun	0930 hrs	Old Town B
MDO-16	<b>Physics-informed Machine Learning</b>	15-Jun	1300 hrs	Old Town A
MDO-17	<b>Topology Optimization for High-Performance Structures</b>	15-Jun	1300 hrs	Old Town B
MDO-18	<b>Topics in Multidisciplinary Design Optimization</b>	15-Jun	1530 hrs	Virtual
<b>MODELING AND SIMULATION TECHNOLOGIES</b>				
MST-01	<b>Motion-Based Simulation</b>	12-Jun	0930 hrs	La Jolla A
MST-02	<b>Human Factors Analysis using Flight Simulation</b>	12-Jun	1300 hrs	La Jolla A
MST-03	<b>System Reliability and Certification</b>	13-Jun	0930 hrs	La Jolla A
MST-04	<b>Modeling and Simulation of Dynamic Systems</b>	13-Jun	1300 hrs	La Jolla A
MST-05	<b>Estimation, Control, and Optimization</b>	13-Jun	1530 hrs	Virtual
MST-06	<b>Control System Design and Simulation</b>	14-Jun	0930 hrs	La Jolla A
MST-07	<b>Modeling and Simulation, Reliability, and Certification</b>	15-Jun	1530 hrs	Virtual
<b>MESHING, VISUALIZATION, AND COMPUTATIONAL ENVIRONMENTS</b>				
MVCE-01	<b>Geometry, Meshing, and Computational Environments</b>	13-Jun	0930 hrs	Pier

# TECHNICAL SESSIONS AT A GLANCE

ABBR.	TITLE	DATE	START TIME	ROOM
MVCE-02/ UAS-08	<b>General Topics in Aviation I Virtual Session</b>	14-Jun	1530 hrs	Virtual
<b>PLASMA DYNAMICS AND LASERS</b>				
PDL-01	<b>Laser, Plasma, Radiation, and Optical Physics</b>	12-Jun	1300 hrs	Promenade B
PDL-02	<b>Plasma-Assisted Combustion and Ignition</b>	13-Jun	0930 hrs	Promenade B
PDL-03	<b>Plasma Flow Control</b>	14-Jun	1300 hrs	Promenade B
PDL-04	<b>Plasma and Laser Diagnostics I</b>	15-Jun	0930 hrs	Promenade B
PDL-05	<b>Plasma Kinetics Discussion Group</b>	15-Jun	0930 hrs	Mission Beach C
PDL-06	<b>Plasma and Laser Diagnostics II</b>	15-Jun	1300 hrs	Promenade B
TF-18/PDL-07/ ASE-04/SR-03/SPSN-04	<b>General Topics in Aviation II Virtual Session</b>	15-Jun	1530 hrs	Virtual
<b>PRESSURE GAIN COMBUSTION</b>				
PGC-01/ HSABP-05	<b>Applications of Rotating Detonation Combustion for Propulsion and Power</b>	14-Jun	0930 hrs	Balboa A
PGC-02/ HSABP-08	<b>Progress on Operability and Performance Evaluation of RDEs/RDREs</b>	14-Jun	1300 hrs	La Jolla A
PGC-03/SR-02	<b>Solid Rocket and Pressure Gain Propulsion</b>	14-Jun	1530 hrs	Virtual
PGC-04	<b>Experimental evaluation of RDEs</b>	15-Jun	1300 hrs	Cove
<b>PROPELLANTS AND COMBUSTION</b>				
INPSI-05/ACD-07/TF-08/ GTE-02/PC-01	<b>Spotlight Session on Electrified Aircraft Technology: Hybrid-Electric and Hydrogen Activities at DLR</b>	13-Jun	0930 hrs	Harbor C
<b>SUPERSONICS</b>				
SPSN-01	<b>Supersonic Experimental Studies and Technologies</b>	13-Jun	0930 hrs	Gaslamp C
SPSN-02/ APA-24	<b>Supersonic Method Developments</b>	13-Jun	1300 hrs	Gaslamp C
APA-42/ SPSN-03	<b>Special Session: CFD Predictions &amp; Validation for X-59 Wind Tunnel Model</b>	15-Jun	1300 hrs	Hillcrest D
TF-18/PDL-07/ ASE-04/SR-03/SPSN-04	<b>General Topics in Aviation II Virtual Session</b>	15-Jun	1530 hrs	Virtual
<b>SOLID ROCKETS</b>				
SR-01	<b>Topics in Solid Rockets</b>	14-Jun	1300 hrs	Bankers Hill
PGC-03/SR-02	<b>Solid Rocket and Pressure Gain Propulsion</b>	14-Jun	1530 hrs	Virtual
TF-18/PDL-07/ ASE-04/SR-03/SPSN-04	<b>General Topics in Aviation II Virtual Session</b>	15-Jun	1530 hrs	Virtual
<b>TERRESTRIAL ENERGY SYSTEMS</b>				
TES-01	<b>Topics in Terrestrial Energy Systems Virtual Session</b>	13-Jun	1530 hrs	Virtual
<b>TRANSFORMATIONAL FLIGHT SYSTEMS</b>				
GA-01/TF-01	<b>Advanced Regional Air Mobility</b>	12-Jun	0930 hrs	Harbor E
AA-01/TF-02	<b>Advanced Air Mobility Noise I (joint AA/TF) - Modeling</b>	12-Jun	0930 hrs	Cortez Hill A
TF-03	<b>Transformational Aircraft Systems and Concepts</b>	12-Jun	1300 hrs	Harbor F

# TECHNICAL SESSIONS AT A GLANCE

ABBR.	TITLE	DATE	START TIME	ROOM
GA-02/TF-04	<b>Concepts for Advanced Regional Air Mobility</b>	12-Jun	1300 hrs	Harbor E
AA-08/TF-05	<b>Advanced Air Mobility Noise II (joint AA/TF) - Community Noise</b>	12-Jun	1300 hrs	Cortez Hill A
TF-06/GA-04	<b>Improved Certification and Safety Assurance Approaches for Existing or New Concepts</b>	13-Jun	0930 hrs	Harbor F
GA-03/TF-07	<b>Advanced Air Mobility Operations</b>	13-Jun	0930 hrs	Harbor E
INPSI-05/ACD-07/TF-08/ GTE-02/PC-01	<b>Spotlight Session on Electrified Aircraft Technology: Hybrid-Electric and Hydrogen Activities at DLR</b>	13-Jun	0930 hrs	Harbor C
ACD-10/TF-09	<b>eVTOL Technologies</b>	14-Jun	0930 hrs	Balboa B
VSTOL-03/ TF-10	<b>International Powered Lift Conference (IPLC): Distributed Propulsion Architectures</b>	14-Jun	1300 hrs	Harbor I
TF-11/EATS-11/ GA-06	<b>X-57 Maxwell Lessons Learned</b>	14-Jun	1300 hrs	Harbor E
TF-12	<b>Collaborative AAM Design and Operations</b>	15-Jun	0930 hrs	Golden Hill A
VSTOL-04/ TF-13	<b>International Powered Lift Conference (IPLC): V/STOL Design and Aerodynamics</b>	15-Jun	0930 hrs	Harbor I
TF-14/EATS-21/ GA-07	<b>X-57 Maxwell Propulsion System</b>	15-Jun	0930 hrs	Harbor F
VSTOL-05/ TF-15	<b>International Powered Lift Conference (IPLC): V/STOL Control Authority and Safety</b>	15-Jun	1300 hrs	Harbor I
AA-50/TF-16	<b>Propeller, Rotorcraft and V/STOL Noise VIII: Multirotor (joint AA/TF)</b>	15-Jun	1300 hrs	Harbor A
TF-17	<b>Transformational Flight Towards Zero Emission, An Impact Assessment Framework</b>	15-Jun	1300 hrs	Golden Hill B
TF-18/PDL-07/ ASE-04/SR-03/ SPSN-04	<b>General Topics in Aviation II Virtual Session</b>	15-Jun	1530 hrs	Virtual
AA-56/TF-19	<b>Propeller, Rotorcraft and V/STOL Noise IX: Multirotor (joint AA/TF)</b>	16-Jun	0930 hrs	Harbor A
AA-59/TF-20	<b>Propeller, Rotorcraft and V/STOL Noise X: UAM/AAM (joint AA/TF)</b>	16-Jun	1300 hrs	Harbor A
<b>THERMOPHYSICS</b>				
TP-01	<b>Ablation: Modeling, Experiments, and Applications I</b>	12-Jun	0930 hrs	Golden Hill A
TP-02	<b>Nonequilibrium Flow Physics (joint FD/TP) I</b>	12-Jun	0930 hrs	Golden Hill B
TP-03	<b>Nonequilibrium Flow Physics (joint FD/TP) II</b>	12-Jun	1300 hrs	Golden Hill B
TP-04	<b>Ablation: Modeling, Experiments, and Applications II</b>	13-Jun	0930 hrs	Golden Hill A
TP-05	<b>Nonequilibrium Flow Physics (joint FD/TP) III</b>	13-Jun	0930 hrs	Golden Hill B
TP-06	<b>Aerothermodynamics and Thermal Protection Systems I</b>	13-Jun	1300 hrs	Golden Hill A
TP-07	<b>CFD of Nonequilibrium Flow Physics (joint FD/TP)</b>	13-Jun	1300 hrs	Golden Hill B
TP-08	<b>Thermophysics General -Virtual</b>	13-Jun	1530 hrs	Virtual
TP-09	<b>General Thermophysics I</b>	14-Jun	0930 hrs	Golden Hill B
TP-10	<b>Thermal Properties Measurements and Computations</b>	14-Jun	1300 hrs	Golden Hill B
TP-11	<b>Thermophysics Award Lecture</b>	14-Jun	1730 hrs	Harbor B
TP-12	<b>Fundamentals of Ice Formation and Advanced Thermal Management Technology</b>	15-Jun	0930 hrs	Golden Hill B
<b>UNMANNED SYSTEMS</b>				
UAS-01	<b>Autonomous Mission Management Concepts &amp; Technologies I</b>	12-Jun	0930 hrs	Gaslamp B
UAS-02	<b>Autonomy for Advanced Air Mobility Systems</b>	13-Jun	0930 hrs	Gaslamp B
UAS-03	<b>Autonomous Mission Management Concepts &amp; Technologies II</b>	13-Jun	1530 hrs	Virtual

# TECHNICAL SESSIONS AT A GLANCE

ABBR.	TITLE	DATE	START TIME	ROOM
UAS-04	<b>Systems Design and Optimization for Unmanned/Autonomous Systems I</b>	14-Jun	0930 hrs	La Jolla B
UAS-05	<b>Machine Intelligence and SW defined HW &amp; Systems Design</b>	14-Jun	1300 hrs	Cortez Hill C
UAS-06	<b>Systems Design and Optimization for Unmanned/Autonomous Systems II</b>	14-Jun	1300 hrs	La Jolla B
UAS-07	<b>Autonomous Tasks/System Integration; Systems and Capabilities for Unmanned, Deep Space Missions II</b>	14-Jun	1530 hrs	Virtual
MVCE-02/ UAS-08	<b>General Topics in Aviation I Virtual Session</b>	14-Jun	1530 hrs	Virtual
UAS-09	<b>Autonomy for Advanced Air Mobility Systems &amp; Systems Design</b>	15-Jun	1530 hrs	Virtual

## VERTICAL/SHORT TAKE-OFF AND LANDING (V/STOL) AIRCRAFT SYSTEMS

VSTOL-01	<b>International Powered Lift Conference (IPLC): Looking Back to the Future: V/STOL Evolution and Its Current Revolution</b>	13-Jun	1300 hrs	Harbor I
VSTOL-02/ EATS-05	<b>International Powered Lift Conference (IPLC): Enabling Electric V/STOL Technologies</b>	14-Jun	0930 hrs	Harbor I
VSTOL-03/ TF-10	<b>International Powered Lift Conference (IPLC): Distributed Propulsion Architectures</b>	14-Jun	1300 hrs	Harbor I
VSTOL-04/ TF-13	<b>International Powered Lift Conference (IPLC): V/STOL Design and Aerodynamics</b>	15-Jun	0930 hrs	Harbor I
VSTOL-05/ TF-15	<b>International Powered Lift Conference (IPLC): V/STOL Control Authority and Safety</b>	15-Jun	1300 hrs	Harbor I
VSTOL-06	<b>V/STOL Virtual Session</b>	15-Jun	1530 hrs	Virtual

## VIRTUAL SESSIONS WATCH ROOMS

Please visit the following rooms if you would like to utilize space to watch virtual technical paper sessions.

This space will be open to anyone who would like to use it. You will need your own computer and headphones to watch the session of your choice. Rooms: Balboa A, Balboa B, Balboa C, La Jolla A, La Jolla B, Old Town A, Old Town B

WATCH1	<b>Tuesday Virtual Session Watch Rooms</b>	13-Jun	1530 hrs	
WATCH2	<b>Wednesday Virtual Session Watch Rooms</b>	14-Jun	1530 hrs	
WATCH3	<b>Thursday Virtual Session Watch Rooms</b>	15-Jun	1530 hrs	



# GENERAL INFORMATION

## AIAA Registration Hours

Registration is located on the Second Level in the Palm Foyer of the Manchester Grand Hyatt San Diego.

<b>SUN, 11 JUNE</b> 1500-1900 hrs	<b>MON, 12 JUNE</b> 0700-1730 hrs	<b>TUES, 13 JUNE</b> 0700-1730 hrs
<b>WED, 14 JUNE</b> 0700-1730 hrs	<b>THUR, 15 JUNE</b> 0700-1730 hrs	<b>FRI, 16 JUNE</b> 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.

Network Name: **@Hyatt\_Meeting**

Password: **AVIATION23**

## Social Media at #AIAAaviation

Follow us on Twitter **@aiaa** and Instagram **@aiaaerospace** throughout the event for more news and event details, and use the hashtags **#AIAAaviation** to join the conversation!

## 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 on 12 June 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.
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## 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.

## 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 AVIATION 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.

## Anti-Harassment Policy

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**

## Restrictions

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

## AIAA Photography and Video Notice

Attendance at, or participation in, this American Institute of Aeronautics and Astronautics (hereinafter “AIAA”) event constitutes consent to the use and distribution by AIAA, its employees, agents, and assignees of the attendee’s image and/or voice for purposes related to the mission of AIAA, including but not limited to publicity, marketing, other electronic forms of media, and promotion of AIAA and its various programs and events. Please contact AIAA Communications Senior Manager Rebecca Gray at **rebeccag@aiaa.org** with requests or questions.

## Outside Food & Beverage

Please note that outside food is **NOT PERMITTED** in the Hyatt Meeting Space or Meeting Rooms. Should you wish to order food for a meeting room, please see AIAA staff at the registration desk for assistance.

# AUTHOR & SESSION CHAIR INFORMATION

## Technical Papers Session Prep

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, **12-16 June: 0730 hrs**

## Speaker Ready Room

Speakers who wish to practice their presentations may do so in room **Show Office 3, located on the Second Level of the Hyatt**. 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, June 28**.

## 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

TIME		COMMITTEE AND ANCILLARY MEETINGS/EVENTS	ROOM
<b>SUNDAY, 11 JUNE</b>			
1400 hrs	1500 hrs	<b>APATC New Member Orientation</b>	Cortez Hill A
1500 hrs	1600 hrs	<b>APATC Education Subcommittee</b>	Cortez Hill B
1500 hrs	1600 hrs	<b>APATC Honors &amp; Awards Subcommittee</b>	Hillcrest A
1500 hrs	1600 hrs	<b>APATC Membership Subcommittee</b>	Cortez Hill C
1500 hrs	1600 hrs	<b>APATC Planning Subcommittee</b>	Hillcrest B
1500 hrs	1600 hrs	<b>APATC Publicity &amp; Publications Subcommittee</b>	Cortez Hill A
1530 hrs	1630 hrs	<b>APATC Liaisons Subcommittee</b>	Hillcrest C
1530 hrs	2100 hrs	<b>Ground Test Technical Committee (GTTC) Subcommittee Meetings</b>	Regatta ABC
1600 hrs	1700 hrs	<b>APATC Technical Activities</b>	Cortez Hill A
1700 hrs	1800 hrs	<b>APATC Steering Committee</b>	Cortez B
1700 hrs	1800 hrs	<b>Diversity Scholars Orientation</b>	Promenade AB
1730 hrs	1830 hrs	<b>PEGASAS Sponsor Meeting</b>	Hillcrest C
1800 hrs	1900 hrs	<b>PEG Leadership Meeting</b>	Cortez Hill C
1800 hrs	2000 hrs	<b>Aircraft Technology, Integration, and Operations Group</b>	Mission Beach AB
1800 hrs	2100 hrs	<b>Applied Aerodynamics Technical Committee Meeting</b>	Coronado AB
1830 hrs	1930 hrs	<b>Student Welcome Mixer @ Marriott Marquis</b>	South Poolside
<b>MONDAY, 12 JUNE</b>			
0900 hrs	1100 hrs	<b>GTTC Axis Nomenclature and Axis Systems FG</b>	Americas Cup A
1130 hrs	1300 hrs	<b>Diversity Scholars Sponsor Meet and Greet Session</b>	Grand D
1130 hrs	1300 hrs	<b>GTTC Model Deformation WG</b>	Americas Cup A
1200 hrs	1300 hrs	<b>FDTC Computational Methods for Multi-Phase Flows</b>	Coronado E
1200 hrs	1330 hrs	<b>Leading with Influence: A Volunteer Leadership Session with AIAA President Laura McGill</b>	Coronado AB
1300 hrs	1630 hrs	<b>AIAA Honors and Awards Committee</b>	Regatta AB
1300 hrs	1630 hrs	<b>PEGASAS Annual Meeting</b>	Regatta C
1400 hrs	1600 hrs	<b>Publications Committee Journals Reviewer Training</b>	Coronado D
1530 hrs	1700 hrs	<b>FDTC High-Fidelity CFD Verification DG</b>	Americas Cup C
1530 hrs	1730 hrs	<b>Meet the Employers Event</b>	Grand D
1600 hrs	1700 hrs	<b>AAM Multi-Modal Integration Steering Committee</b>	Coronado E
1600 hrs	1800 hrs	<b>Digital Engineering Integration Committee Face-to-Face</b>	Coronado AB
1630 hrs	1800 hrs	<b>PEGASAS Sponsor Meeting</b>	Americas Cup B
1700 hrs	1800 hrs	<b>FDTC Large-Eddy Simulation DG</b>	Coronado E
1730 hrs	2000 hrs	<b>Cadence Design Systems Reception (ICW)</b>	Harbor G
1800 hrs	1900 hrs	<b>APATC Aero-Propulsive Interactions DG</b>	Golden Hill B
1800 hrs	1900 hrs	<b>FDTC Laminar Flow Control DG</b>	Solena Beach A
1800 hrs	1900 hrs	<b>FDTC Reduced-Complexity Modeling and Analysis of Fluid Flows DG</b>	Mission Beach A
1800 hrs	1900 hrs	<b>FDTC Turbulence Model Benchmarking DG</b>	Solena Beach B
1800 hrs	1900 hrs	<b>Steering Committee Meeting for HyTASP TC</b>	Coronado D
1830 hrs	2100 hrs	<b>Transformational Flight Integration and Outreach Committee</b>	Regatta AB

# COMMITTEE MEETINGS

TIME		COMMITTEE AND ANCILLARY MEETINGS/EVENTS	ROOM
1900 hrs	2000 hrs	<b>FDTC Massively Separated Flows DG</b>	Mission Beach B
1900 hrs	2000 hrs	<b>FDTC Uncertainty Quantification in Fluid Dynamics DG</b>	Mission Beach C
1900 hrs	2030 hrs	<b>Inlets, Nozzles, and Propulsion System Integration (INPSI) TC Meeting</b>	Coronado E
1900 hrs	2100 hrs	<b>FDTC Transition DG</b>	Harbor D
1900 hrs	2200 hrs	<b>Aircraft Design Technical Committee Meeting</b>	Coronado AB
1900 hrs	2200 hrs	<b>HyTASP Technical Committee Meeting</b>	Coronado D
2000 hrs	2200 hrs	<b>FDTC High Speed FSI DG</b>	Bankers Hill
2000 hrs	2200 hrs	<b>FDTC Swept Wing Leading Edge Vortex Flow Physics DG</b>	Ocean Beach
2000 hrs	2200 hrs	<b>MVCE Geometry and Mesh Generation Workshop Working Group Meeting</b>	Americas Cup A
<b>TUESDAY, 13 JUNE</b>			
0800 hrs	0930 hrs	<b>GTTC RDT&amp;E Risk Management Process Sufficiency</b>	Regatta A
0800 hrs	1200 hrs	<b>GTTC Model Attitude Measurement WG</b>	Americas Cup D
0900 hrs	1100 hrs	<b>GTTC High Speed WT Calibration WG</b>	Regatta C
0930 hrs	1130 hrs	<b>Solid Rockets Technical Committee Meeting</b>	Americas Cup C
0930 hrs	1430 hrs	<b>PEGASAS Annual Meeting</b>	Regatta B
1100 hrs	1300 hrs	<b>Autonomy, Artificial Intelligence, and Machine Learning Task Force Design Sprint</b>	Coronado B
1130 hrs	1300 hrs	<b>Unmanned Systems Integration and Outreach Committee Meeting</b>	Regatta A
1130 hrs	1430 hrs	<b>PEGASAS Advisory Committee</b>	Regatta C
1230 hrs	1330 hrs	<b>Aerospace Sciences Group</b>	Coronado E
1300 hrs	1500 hrs	<b>Emissions &amp; Sustainability Task Force Wrap Presentation</b>	Harbor E
1300 hrs	1500 hrs	<b>Public Policy Committee (PPC)</b>	Americas Cup AB
1400 hrs	1600 hrs	<b>Rising Leaders in Aerospace Speed Mentoring</b>	Grand D
1500 hrs	1700 hrs	<b>International Activities Group</b>	Americas Cup D
1500 hrs	1800 hrs	<b>Vertical / Short Takeoff and Landing (V/STOL) Technical Committee Meeting</b>	Coronado B
1600 hrs	1700 hrs	<b>Thermophysics Nominations Subcommittee</b>	Bankers Hill
1700 hrs	1900 hrs	<b>Computational Fluid Dynamics (CFD) CoS</b>	Coronado E
1800 hrs	1900 hrs	<b>EATS Reception</b>	Bayview, 32nd Floor
1800 hrs	1900 hrs	<b>Thermophysics Awards Subcommittee Meeting</b>	Americas Cup B
1800 hrs	2000 hrs	<b>APATC CFD Transition Modeling DG</b>	Hillcrest A
1800 hrs	2000 hrs	<b>APATC Rotorcraft DG</b>	Hillcrest B
1830 hrs	2030 hrs	<b>Air Transportation Systems TC Meeting</b>	Regatta BC
1900 hrs	2000 hrs	<b>APATC Collaborative Experiments and Computations DG</b>	Hillcrest C
1900 hrs	2000 hrs	<b>MVCE Mesh Suitability Working Group Meeting</b>	Regatta A
1900 hrs	2100 hrs	<b>Aircraft Operations Technical Committee Annual Meeting</b>	Americas Cup C
1900 hrs	2100 hrs	<b>FDTC CFD Subcommittee</b>	Mission Beach A
1900 hrs	2100 hrs	<b>FDTC FAC Subcommittee</b>	Mission Beach C
1900 hrs	2100 hrs	<b>FDTC FFP Subcommittee</b>	Mission Beach B
1900 hrs	2100 hrs	<b>Thermophysics Technical Committee Meeting</b>	Coronado B
1900 hrs	2200 hrs	<b>Aeroacoustics Technical Committee Meeting</b>	Americas Cup AB
2000 hrs	2100 hrs	<b>MVCE Meshing Subcommittee Meeting</b>	Regatta A

# COMMITTEE MEETINGS

TIME		COMMITTEE AND ANCILLARY MEETINGS/EVENTS	ROOM
<b>WEDNESDAY, 14 JUNE</b>			
0900 hrs	1030 hrs	<b>Unmanned Systems Integration Committee</b>	Regatta AB
0930 hrs	1130 hrs	<b>General Aviation Technical Committee Meeting</b>	Coronado E
0930 hrs	1130 hrs	<b>GTTC Measurement Uncertainty WG</b>	Coronado D
1000 hrs	1100 hrs	<b>AIAA 2024 AVIATION Forum Technical Program Planning</b>	Grand D
1130 hrs	1300 hrs	<b>CFD 2030 Integration and Outreach Committee Meeting</b>	Americas Cup CD
1130 hrs	1330 hrs	<b>Human Machine Teaming TC Meeting</b>	Regatta C
1200 hrs	1330 hrs	<b>Lighter than Air Systems TC Meeting</b>	Coronado D
1200 hrs	1330 hrs	<b>Rising Leaders in Aerospace Lunch Panel</b>	Grand D
1300 hrs	1500 hrs	<b>GTTC/APATC Focus Group: Integration of RDT&amp;E Computations and Experimentation</b>	Regatta AB
1400 hrs	1530 hrs	<b>GTTC Writing Quality FG</b>	Coronado E
1500 hrs	1800 hrs	<b>IOD</b>	Americas Cup CD
1530 hrs	1700 hrs	<b>AIAA Corporate Member Happy Hour</b>	Seaport Ballroom
1530 hrs	1730 hrs	<b>DBF Committee Meeting</b>	Regatta AB
1800 hrs	1900 hrs	<b>APATC NATO/STO Discussion Group</b>	Hillcrest A
1800 hrs	1900 hrs	<b>APATC Sailplane Aerodynamics DG</b>	Hillcrest B
1800 hrs	2000 hrs	<b>APATC Applied Surrogate Modeling DG</b>	Hillcrest C
1800 hrs	2000 hrs	<b>Electrified Aircraft Technology Technical Committee Meeting</b>	Americas Cup AB
1800 hrs	2000 hrs	<b>JHTO/UCAH Hypersonic Community Career and Networking Social</b>	Grand D
1800 hrs	2000 hrs	<b>Meshing, Visualization, and Computational Environments Technical Committee Meeting</b>	Coronado D
1830 hrs	2030 hrs	<b>Design Engineering Technical Committee</b>	Solana Beach A
1830 hrs	2030 hrs	<b>MDO TC meeting</b>	Americas Cup CD
1900 hrs	2000 hrs	<b>APATC Workshop Collaboration WG</b>	Hillcrest D
1900 hrs	2000 hrs	<b>Supersonics Integration and Outreach Committee Meeting</b>	Ocean Beach
1900 hrs	2100 hrs	<b>FDTC Plenary Meeting</b>	Harbor C
1900 hrs	2100 hrs	<b>HSABP Technical Committee Meeting</b>	Regatta AB
1900 hrs	2100 hrs	<b>Modeling and Simulation Technical Committee Meeting</b>	Regatta C
1900 hrs	2100 hrs	<b>Pressure Gain Combustion TC Meeting</b>	Coronado E
<b>THURSDAY, 15 JUNE</b>			
0800 hrs	1000 hrs	<b>Certification Task Force Working Meeting</b>	Coronado AB
0900 hrs	1030 hrs	<b>GTTC Focus Group: Identify and Address RDT&amp;E Workforce Challenges</b>	Coronado CD
1300 hrs	1500 hrs	<b>Statistically Defensible Test Methods FG</b>	Americas Cup AB
1330 hrs	1430 hrs	<b>Diversity Scholars Wrap Up Session</b>	Coronado AB
1630 hrs	1730 hrs	<b>Certification Task Force Mid-Point Presentation</b>	Harbor D
1730 hrs	2030 hrs	<b>Ground Test Technical Committee (GTTC) Closeout Meeting</b>	Coronado DE
1800 hrs	2000 hrs	<b>Digital Engineering &amp; Model Based Systems Engineering DG Meeting</b>	Americas Cup AB
1800 hrs	2000 hrs	<b>Electric Power Management and Distribution DG Meeting</b>	Regatta AB
1800 hrs	2000 hrs	<b>Hydrogen Technologies DG Meeting</b>	Americas Cup CD



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