ASME INTERNATIONAL GAS TURBINE INSTITUTE

Turbo Expo 2026

Final Program

JUNE 15-19, 2026

MILAN, ITALY

The American Society of Mechanical Engineers®
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ASME
SETTING THE STANDARD

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KEYNOTE

Welcome Letter

WITH IMMENSE PRIDE AND GREAT ENTHUSIASM,

On behalf of the entire Organizing Committee, I am delighted to welcome you to Milan for the 71st ASME Turbo Expo—marking the first time this distinguished event is being held in Italy.

Perhaps never in its long history has the conference taken place during a period of such uncertainty and volatility as the one we are currently experiencing. All sectors represented at ASME Turbo Expo—power generation, energy, and propulsion—are increasingly called upon to respond to complex and rapidly evolving conditions with resilience and flexibility, while also addressing the urgent demand for sustainable solutions. Yet the past five years of continuous and rapid global change suggest that our systems and technologies must do more than respond quickly. They should be capable of leveraging the variability itself as an opportunity for growth and advancement.

ASME Turbo Expo 2026 invites the turbomachinery community to move beyond resilience and embrace the concept of antifragility: “the property of systems that increase their capacity to thrive as a result of stressors, shocks, volatility, noise, mistakes, faults, attacks, or failures.” This concept forms the central theme of the conference and will be explored in both the Keynote and Plenary Sessions.

The opening moderated keynote will feature executives from two prominent research organizations—EPRI and Clean Aviation—who will share their long-term visions on how the energy and propulsion sectors can evolve into powerhouses that thrive under uncertainty. Further insights into the technologies, strategies, and methodologies enabling this next generation of systems will be presented during Tuesday’s moderated plenary session. Leaders from Ansaldo Energia, Baker Hughes, Avio Aereo (GE Aerospace), and Rolls-Royce will discuss how the power generation and propulsion industries can leverage advanced materials, high-fidelity diagnostics and predictive tools, adaptive control systems, AI-driven digital twins, modular architectures, and innovative lifecycle strategies. The final goal is to develop products and solutions that are adaptive and evolutionary by design. These discussions will set the stage for the technical exchanges that follow throughout the week. The Plenary Sessions will also host the Turbo Expo Awards Ceremony, during which ASME and ASME IGTI awardees will be honoured.

CONTINUED

KEYNOTE WELCOME LETTER - CONTINUED

I would like to sincerely thank the entire Italian academic and industrial turbomachinery community for the enthusiasm and dedication with which they have supported and promoted this event, confirming their active participation and commitment within the conference organizing committees. The strong presence at the Expo—with more than 130 exhibitors—the record number of student posters (over 80), and, above all, the outstanding support of our sponsors are clear evidence of the excitement generated by this edition.

My personal appreciation goes to Paolo Noccioni, Executive Conference Chair, and to the entire Baker Hughes team. I would also like to warmly acknowledge all members of the ASME Turbo Expo Organizing Committee: Technical Program Chair Ward de Paepe; Review Chair Shahrokh Shahpar; Vice Review Chairs Sascha Gierlings, Ben Emerson, and Bronwyn Power; Tutorial Chair Ioanna Aslanidou; Honors and Awards Chair Doug Nagy; and Student Advisory Committee Chair Jana Thiyagarajan. Special thanks go to Eric Ruggiero, our representative on the IGTI Executive Committee and Past Conference Chair, as well as to the entire Local Liaison Committee, beginning with its Chair, Paolo Gaetani, a true focal point in coordinating with local institutions.

Finally, let me emphasize that the success of ASME Turbo Expo—its unique networking opportunities and the exceptional quality of the technical program—is, first and foremost, the result of the collective efforts of our volunteers: authors, reviewers, session chairs, and committee leaders. Their commitment, together with the extraordinary professionalism and support of the ASME staff, makes Turbo Expo the world's premier turbomachinery event.

I hope you will take full advantage of your participation in ASME Turbo Expo and enjoy a truly complete Italian experience—beginning with Milan, a European capital of innovation, fashion, and design, and extending to the many historical and cultural destinations across our country, a unique crossroads of tradition and innovation.

Kind regards,

Antonio Andreini

University of Florence / Conference Chair

Welcome to ASME Turbo Expo

DEAR COLLEAGUES,

Welcome to ASME Turbo Expo 2026, hosted in Italy for the first time in more than 70 years. We are pleased to convene this year's conference in Milano, a long-standing center of industry, engineering, and innovation, and an appropriate setting for the global turbomachinery community to gather and exchange knowledge.

Turbo Expo has consistently provided a leading forum where research, engineering practice, and system-level thinking intersect. Reflecting today's volatile energy, mobility, and geopolitical environment, the 2026 Keynote and Plenary theme focuses on resilient and antifragile energy and propulsion systems—designed to operate reliably under uncertainty and to improve through disruption.

Italy provides a relevant context for these discussions. As one of Europe's major manufacturing economies, the country has a long tradition of industrial innovation, adaptation and collaboration between industry, academia, and institutions. Italian universities and research centers continue to contribute significantly to turbomachinery research across energy conversion and propulsion, supported by strong experimental capabilities, computational expertise, and close industrial engagement. Participants will encounter several examples of this ecosystem throughout the technical program and exhibition.

The scope of energy and propulsion applications continues to broaden, driven by increasing demand for reliable, sustainable, affordable, and safer solutions. Turbomachinery technologies today support a wide range of applications, including hydrogen, small modular nuclear reactors, flexible power solutions for data centers, and advanced aviation propulsion. Addressing these developments requires holistic system perspectives that reflect both technical complexity and evolving societal expectations.

Turbo Expo remains a central platform for examining these challenges and opportunities through technical sessions, panels, tutorials, and professional exchange. The conference's quality and continuity are made possible by the sustained contributions of authors, reviewers, committee members, and speakers. Their commitment underpins the technical rigor and relevance of this event, further demonstrated by an exceptional participation of sponsors and exhibitors, particularly from the Italian ecosystem.

I encourage you to engage fully with the program, participate actively in discussions, and take advantage of the opportunities for professional exchange during your time in Milano.

I look forward to the discussions and insights that will emerge during ASME Turbo Expo 2026.

Kind regards,

Paolo Noccioni

Executive Conference Chair, ASME Turbo Expo / President of Nuovo Pignone, Baker Hughes

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Welcome Reception

The City of Milan

Milan is a major global city in northern Italy, renowned for its fashion, design, finance, and art. It's the capital of the Lombardy region and the second-most populous city in Italy, after Rome. Milan is a hub for business, fashion, and culture, boasting iconic landmarks like the Duomo, the Castello Sforzesco, La Scala opera house, the Last Supper by Leonardo da Vinci, Sant'Ambrogio, Santa Maria delle Grazie, Il Bosco Verticale ("the Vertical Forest:), the BAM (Biblioteca degli Alberi di Milano, a contemporary botanical garden), Piazza Gae Aulenti, the Leonardo da Vinci National Museum of Science and Technology and the Brera Art Museum and its surrounding city district.

CITY MAPS

Download the map of Milan that features its landmarks and attractions, the airports' location and more.

You can also download the map of the services available within walking distance of the venue.

WEATHER

June in Milan offers warm, sunny days with long hours of daylight perfect for enjoying outdoor activities and sightseeing. While rain is possible, it's typically light and infrequent. Humidity levels are high, so be sure to dress in light, breathable clothing, stay hydrated, and plan your activities to avoid the warmest parts of the day if you're sensitive to heat.

GETTING AROUND THE CITY

Milan has a modern public transportation system that connects almost all areas of the city, as well as its airports, via a combination of subway lines, trams, and buses. The city has five main train stations, five Metro (subway) lines, and an extensive tram network. There's also a suburban rail system that reaches the bedroom cities of Milan. Buses also ply the city, but are most useful for connecting areas outside the city center.

A travel pass is recommended if you plan on taking public transport. A weekly pass is 18.50€. Details on that can be found here.

PLUG, SOCKET AND VOLTAGE IN ITALY

The standard voltage is 230V with a frequency of 50Hz. The most common plug types are C, F, and L. Type C has two round pins, Type F has two round pins with earth clips, and Type L has three round pins in a line. You will likely need a travel adapter to use your US devices, which typically use Type A or B plugs, as they are not compatible with the Italian sockets.

GETTING AROUND THE REGION

Thanks to its geographical position, Milan is an effective hub for cultural and leisure activities. You can visit cultural towns like Bergamo, Pavia, Piacenza, Parma, Florence, Venice in a single-day or two-day trip.

World-wide renowned lakes, like Como, Garda or Maggiore ones, are close to Milan (less than 2 hours by train) and offer wonderful sights, cultural visits and leisure time. Sea locations like Cinque Terre are also not that far.

The use of trains is warmly suggested; thanks to modern railways, some of them at high speed, you can reach all the locations quite easily.

CURRENCY

The official currency in Italy is the euro, symbolized by € and abbreviated as EUR.

For more information on the City of Milan, ***YesMilano*** *is a good resource.*

Grand Opening & Awards Information

SUNDAY June 14	MONDAY June 15	TUESDAY June 16	WEDNESDAY June 17	THURSDAY June 18	FRIDAY June 19
	Registration 7:00 am - 5:30 pm (South Registration)	**Registration** 7:00 am - 6:00 pm (South Registration)	**Registration** 7:30 am - 6:00 pm (South Registration)	**Registration** 7:30 am - 5:00 pm (South Registration)	**Registration** 7:30 am - 11:30 am (South Registration)
	Speaker Ready Room 7:00 am - 5:30 pm (South Wing: Suite 1)	**Speaker Ready Room** 7:00 am - 5:30 pm (South Wing: Suite 1)	**Speaker Ready Room** 7:00 am - 5:30 pm (South Wing: Suite 1)	**Speaker Ready Room** 7:00 am - 5:30 pm (South Wing: Suite 1)	**Speaker Ready Room** 7:00 am - 12:00 pm (South Wing: Suite 1)
IGTI Executive Committee Meeting 1 10:00 am - 3:00 pm	**Conference Sessions** 8:00 am - 10:00 am (Reference Conference App)	**Conference Sessions** 8:00 am - 10:00 am (Reference Conference App)	**Conference Sessions** 8:00 am - 10:00 am (Reference Conference App)	**Conference Sessions** 8:00 am - 10:00 am (Reference Conference App)	**Conference Sessions** 8:00 am - 10:00 am (Reference Conference App)
	Networking Coffee Break 10:00 am - 10:30 am (North Wing: Blue Area South Wing: Gold Foyer)	**Networking Coffee Break** 10:00 am - 10:30 am (North Wing: Blue Area South Wing: Gold Foyer)	**Networking Coffee Break** 10:00 am - 10:30 am (North Wing: Blue Area South Wing: Gold Foyer)	**Networking Coffee Break** 10:00 am - 10:30 am (Central Hall C: Exhibit Hall)	**Networking Coffee Break** 10:00 am - 10:30 am (North Wing: Blue Area South Wing: Gold Foyer)
	Opening Ceremony & Keynote 10:30 am – 12:00 pm (South Wing: Gold Room)	**Plenary Session** 10:30 am – 12:00 pm (South Wing: Gold Room)	**Conference Sessions** 10:30 am - 12:00 pm (Reference Conference App)	**Conference Sessions** 10:30 am - 12:00 pm (Reference Conference App)	**Conference Sessions** 10:30 am - 12:30 pm (Reference Conference App)
	Opening Lunch 12:00 pm - 1:30 pm (Central Hall D)	**Expo Open** 12:00 pm - 6:30 pm (Central Hall C: Exhibit Hall) **Networking Lunch** 12:00 pm - 1:30 pm (Central Hall D) **Poster Session** 12:00 pm - 1:30 pm (Central Hall C: Exhibit Hall)	**Expo Open** 12:00 pm - 6:30 pm (Central Hall C: Exhibit Hall) **Networking Lunch** 12:00 pm - 1:30 pm (Central Hall D)	**Expo Open** 10:00 am - 2:00 pm (Central Hall C: Exhibit Hall) **Networking Lunch** 12:00 pm - 1:30 pm (Central Hall D) **Closing Ceremony** 1:30 pm - 2:00 pm (Central Hall C: Exhibitor Theater)	
Registration 3:00 pm - 6:30 pm (South Registration)	**Conference Sessions** 1:30 pm - 3:30 pm (Reference Conference App)	**Conference Sessions** 1:30 pm - 3:30 pm (Reference Conference App)	**Conference Sessions** 1:30 pm - 3:30 pm (Reference Conference App)	**Conference Sessions** 1:30 pm - 3:30 pm (Reference Conference App)	**IGTI Committee Meeting** 1:00 pm - 5:00 pm (Suite 5)
Speaker Ready Room 3:00 pm - 6:00 pm (South Wing: Suite 1)	**Networking Coffee Break** 3:30 pm - 4:00 pm (North Wing: Blue Area South Wing: Gold Foyer)	**Networking Coffee Break** 3:30 pm - 4:00 pm (Central Hall C: Exhibit Hall)	**Networking Coffee Break** 3:30 pm - 4:00 pm (Central Hall C: Exhibit Hall)	**Networking Coffee Break** 3:30 pm - 4:00 pm (North Wing: Blue Area South Wing: Gold Foyer)	
	Conference Sessions 4:00 pm - 5:30 pm (Reference Conference App)	**Conference Sessions** 4:00 pm - 5:30 pm (Reference Conference App)	**Conference Sessions** 4:00 pm - 5:30 pm (Reference Conference App)	**Conference Sessions** 4:00 pm - 5:30 pm (Reference Conference App)	
	Scholar Lecture 5:45 pm – 6:45 pm (South Wing: Gold Room)	**Expo Hall Networking Reception** 5:00 pm - 6:30 pm (Central Hall C: Exhibit Hall)	**Expo Hall Networking Reception** 5:00 pm - 6:30 pm (Central Hall C: Exhibit Hall)		
Council of Chairs Meeting 4:00 pm - 5:30 pm (Amber 1)	**Welome Reception** 6:30 pm - 8:00 pm (South Square: Outside)	**Technical Committee Meetings** 6:00 pm - 7:30 pm (Reference Conference App)	**Technical Committee Meetings** 6:00 pm - 7:30 pm (Reference Conference App)	**Technical Committee Meetings** 6:00 pm - 7:30 pm (Reference Conference App)	
Early Career & Student Networking Mixer 6:00 pm - 8:00 pm (South Wing: Spaces Foyer)			**Celebrating Women in Turbomachinery Event/Dinner (Ticketed Event)** 7:30 pm - 10:15 pm		

Keynote Theme: Beyond Resilience - Power and Propulsion Systems for a Fast-Changing World

MONDAY, JUNE 15, 2026
10:30 A.M. – 12:00 P.M.

The ASME 2026 Turbo Expo in Milan will address a critical evolution for the turbomachinery community: moving beyond traditional resilience to design systems that actively thrive in a fast-changing world, acting as a catalyst for leadership, safety, and innovation.

Today's global power, energy, and propulsion sectors are operating in an unprecedented era defined by volatility, uncertainty, complexity, and ambiguity, which, together with the urgency of sustainability actions, mandates the development of resilient and flexible systems. The goal is not only to simply endure disorder, but to learn, adapt, grow stronger, become more efficient, and robust when exposed to stressors, volatility, and the unknown.

This conference invites the global engineering community to showcase the technologies, strategies, and methodologies defining this next generation of systems.

We seek contributions on how deep domain knowledge expertise, combined with advanced materials, high-fidelity diagnostics and predictions, adaptive control, AI-driven digital twins, modular architectures, and innovative lifecycle strategies can converge to create systems that are adaptive and evolutionary by design.

PANELISTS

Neva Espinoza

Senior VP, Energy Supply and Low-Carbon Resources

Chief Generation Officer

EPRI

Sébastien Dubois

Head of Unit – Programme Development and Communications

Clean Aviation Joint Undertaking

MODERATORS

Tamy Guimaraes

Assistant Professor

Department of Mechanical Engineering

The Pennsylvania State University

Antonio Andreini

University of Florence

Chair of ASME TE 2026

SPEAKER

Neva Espinoza

Senior Vice President

Energy Supply and Low-Carbon Resources and Chief Generation Officer

Neva Espinoza is Senior Vice President, Energy Supply and Low-Carbon Resources and Chief Generation Officer at EPRI.

In this role, she leads a global team conducting EPRI research and development related to energy supply – including generation, nuclear, and low-carbon fuels – as electricity use continues growing through the energy transition. This includes conventional and advanced nuclear, the existing fossil fleet, large-scale renewable generation assets, long duration energy storage, and the production and use of low-carbon energy carriers.

Previous leadership roles included serving as EPRI's Vice President of Energy Supply and Low-Carbon Resources and Director of R&D for the institute's Generation Sector. She joined EPRI in January 2012 with more than 10 years of operational and engineering experience in the power industry, across a diverse set of assets and technologies. Prior to EPRI, Espinoza served in technical and leadership positions at NRG's Arthur Kill Power Station, Exelon's Oyster Creek Power Station and Knolls Atomic Power Laboratory.

Espinoza received a Bachelor of Science degree in mechanical engineering from Rutgers University and Master of Business Administration degree from Wake Forest University. She is a graduate of the U.S. Navy's Officer Nuclear Power Program and held a senior reactor operator license from the Nuclear Regulatory Commission.

Espinoza sits on the National Petroleum Council and the Georgia Institute of Technology Strategic Energy Institute Executive Advisory Board.

CONTINUED

SPEAKER

Sébastien Dubois

Head of Unit – Programme Development and Communications

Clean Aviation Joint Undertaking

Sébastien Dubois is the Head of Programme Development for the Clean Aviation Joint Undertaking, a Public-Private Partnership and the European Union's leading research and innovation programme for steering aviation towards a sustainable and climate-neutral future.

Sébastien is responsible for defining, in coordination with members of Clean Aviation, the programming of the strategic content of the Joint Undertaking, for developing robust programme content in order to deliver expected impact and benefits by 2035, and to establishing synergies with other European and international organisations. He is also tasked with overseeing all communications activities.

Prior to taking on his current role, Sébastien held a number of positions such as Head of Programmes (2019-2023), and Project Officer (2010-2019), for Clean Aviation's predecessor, the Clean Sky Joint Undertaking. Since 2010, he specialised in a wide range of fields from helicopters to short medium range aircraft, on top of the programmatic aspects.

Previously, he spent 13 years working in French industry, notably for the Thales Group, in various positions, including Head of Research and Innovation for commercial aircraft (2006-2010), Programme Manager for Radar and Electronic Warfare Systems for Combat Aircraft (2002-2006) and Radar Product Line Manager (1997-2002).

Sébastien holds a Master of Science in Electronics from Ecole Centrale de Marseille, France.

Connect with Sébastien on **LinkedIn**.

CONTINUED

MODERATOR

Tamy Guimaraes

Assistant Professor

Department of Mechanical Engineering

The Pennsylvania State University

Tamy Guimarães is an Assistant Professor of Mechanical Engineering at Penn State, specializing in turbomachinery aerodynamics, inlet distortion, and advanced flow diagnostics. Her work combines experiments and data-driven methods to better understand and control complex flow behavior in propulsion systems. She earned her Ph.D. from Virginia Tech and has experience in both academia and industry. Dr. Guimarães is actively involved in ASME and currently serves as the Vanguard Chair of the Controls, Diagnostics, and Instrumentation Technical Committee and Chair of the Global Gas Turbine News Editorial Committee.

MODERATOR

Antonio Andreini

University of Florence

Chair of ASME TE 2026

Professor Antonio Andreini is an Associate Professor in Mechanical Engineering at the Department of Industrial Engineering (DIEF) at the University of Florence (Italy). His main areas of research are heat transfer and combustion in fluid machinery, using high-fidelity CFD modelling and experimental studies. Over the last 15 years, he has participated in more than 15 major EU research programmes and several industry-funded R&D programmes. Since 2008, he has supervised or co-supervised more than 20 PhD theses. He currently coordinates two major Horizon Europe projects focusing on innovative combustion technologies for hydrogen powered gas turbines and aircraft engines. He was appointed as an ASME Fellow in January 2025.

ASME TURBO EXPO LECTURES

Scholar Award Lecture

Turbomachinery Simulation Impact on Design, Understanding, and Optimization

Dr. Mark Turner
Retired | Previously
Senior Technologist
NASA Glenn Research Center

MONDAY, JUNE 15, 2026 / 5:45 P.M.

This paper presents the impact of Turbomachinery Simulation from simple analytical simulation to high fidelity CFD and Finite Element Analysis on the design of turbomachinery and the understanding of flow physics that is then used to improve design approaches. The impact of Optimization is also presented. The best approach for the tool development is to work with a compressor, fan, or turbine designer or to work on the design process directly. The paper represents the work and impact of the author over his 45-year career and provides insight for both new and experienced engineers. The paper explores applications of distortion from a downstream fan frame, the first uses of 3D CFD for fan, compressor and turbine design, heat transfer, biomimicry, and approaches to optimization for performance and structures.

BIOGRAPHY

Dr. Turner's background is in industry, academia, and the US Federal Government. From 1979-2000, Mark worked for GE Aerospace in both Cincinnati, OH, and Lynn, MA. From 2000- 2001, Dr. Turner worked for a small company in Cleveland, AP Solutions. He was a Professor and Associate Department Chair from 2001-2020 in Aerospace Engineering at the University of Cincinnati. For just over five years, Mark was at NASA, where he just retired at the end of April 2026.

Most of the work that Mark has done has been related to simulation of turbomachinery with emphasis on design and understanding which is the subject of his scholar paper. Mark Turner has published 36 journal articles, 52 peer reviewed conference papers, 7 technical reports, 65 non- refereed conference papers and 2 book chapters. In addition, he has given 25 invited presentations. He has advised and graduated 10 PhD students, 25 master's students, hired 42 undergraduate coop students, and advised 25 students with Undergraduate Research. In addition, he has taught 62 separate classes at the University of Cincinnati. At NASA, Mark has guided 5 interns.

Mark is a Fellow of ASME, is active in IGTI, was the Conference Chair for Turbo Expo in 2017, and has received five best paper awards. He is an Associate Fellow in AIAA.

Mark has three patents. Outside of his professional work, Mark is interested in education. In 2003 he received the Building Excellence Award of Service from Cincinnati Public Schools for volunteer work on passing the $480-million bond issue to be used for the $985-million renovation and rebuilding of all the schools in Cincinnati Public Schools.

Dr. Mark G. Turner received his BS degree in Mechanical Engineering from Virginia Tech in 1979, his MS in Aerospace Engineering from the University of Cincinnati in 1986, and his Doctor of Science (ScD) in Aeronautics and Astronautics from MIT in 1990.

Dr. Mark Turner keeps an electric boat on the Ohio River, is married and has two grown sons.

ASME IGTI INDUSTRIAL GAS TURBINE TECHNOLOGY AWARD LECTURE

Root Cause Analysis (RCA) in Laboratories and/or the Field

For Outstanding Contributions to the Electric Power and Mechanical Drive Industries Through His Leadership, Research and Development, and Advocacy on Behalf of Industrial Gas Turbines.

Carlos E. Koeneke, PhD
Chief Engineer, Project Engineering
Mitsubishi Power Americas

TUESDAY, JUNE 16, 2026 / 1:30 – 3:30 P.M.

Rotating equipment like gas turbines, steam turbines, and generators can experience operational malfunctions during commissioning or commercial operations causing short/long-term forced shutdown of the plant.

These types of issues require a fast response. Delays in understanding and addressing the problem can lead to significant financial losses for all parties involved, including insurance companies.

Root Cause Analysis (RCA) is a fundamental approach used to determine the causes of the equipment disruption and quickly implement countermeasures to restore its operation. Specific RCAs might involve changes to component designs, adjustments to control settings, or other modifications that may take more time to resolve.

Power Generation Equipment Manufacturers often deploy multidisciplinary teams to the site to implement RCAs effectively. These teams may include instrumentation and control experts, metallurgists, and other specialists with field experience and knowledge of the specific equipment. Members that have long-term exposure to field issues and have completed graduate studies on the technology associated with those issues can be key to quickly getting equipment back online.

BIOGRAPHY

Carlos has over four decades of turbomachinery experience, he started a Rotating Equipment position at a major petroleumcompany after completing his undergraduate program in 1982. He pursued his master's degree in rotor-dynamics and vibration analysis while working and was awarded a Japanese Ministry of Education scholarship to pursue his Ph.D. at the University of Tokyo. He completed a thesis related to high-speed supercharger bearings under the effect of centrifugal force. In 1993, he joined Mitsubishi Heavy Industries in Japan and was transferred to Mitsubishi Power Americas in 2001. Carlos has written over 35 technical articles addressing GT topics.

He is a long-term member of the Electric Power and Industrial & Cogeneration technical Committees and has actively participated in ASME conferences since 2003, reviewing paper, chairing or co-chairing sessions and participating in panels and technical sessions. Since 2003, Carlos established a relationship with the insurance community and has conducted Insurance Forums in London, Singapore and the U.S. In 2022, Carlos became the Gas Turbine Association vice-chair/ treasurer and is currently the Chair. He cooperates with academia by participating as UCF Faculty Scholar and Engineering Advisory Board Member at EmbryRiddle University. He also participates in the GUIde Research program led by Duke/Purdue Universities.

ASME IGTI AIRCRAFT ENGINE TECHNOLOGY AWARD LECTURE

On the Reduction of Unsteady Forcing in a Transonic Turbine

For Outstanding Contribution to Air Breathing Propulsion Through Inspiring Leadership, Education, and Research Having Major Impacts on Aircraft Engine Operational Capability, Performance, and Design.

Dr. John P. Clark
Aerodynamics Engineering Discipline Lead
KRATOS, Florida Turbine Technologies

THURSDAY, JUNE 18, 2026 / 8:00 – 10:00 A.M.

BIOGRAPHY

Dr. John Clark is the Discipline Lead for Aerodynamics at Kratos, Florida Turbine Technologies. He joined Kratos in September of 2025 after more than 23 years with the Air Force Research Laboratory at Wright-Patterson Air Force Base, Dayton, OH. At AFRL he led the in-house research program in turbines for the Turbine Engine Division of the Aerospace Systems Directorate. He retired from the USAF as an AFRL Fellow, and he is a Fellow of the ASME. While at AFRL he was also named the AIAA Engineer of the Year in 2012. Prior to joining AFRL, he worked in the Turbine Aerodynamics group at Pratt & Whitney. He received his doctorate in Engineering Science from the University of Oxford where he was a student of the late Prof. Terry Jones.

The ability to predict accurately the levels of unsteady forcing on turbine blades is critical to avoid high-cycle fatigue failures. Further, a demonstrated ability to make accurate predictions leads to the possibility of controlling levels of unsteadiness through aerodynamic design. There are several desiderata to achieve designs that experience reduced forcing functions. First, and quite simply, any such design is by definition grounded in the basic physics of the flow. Second, confidence in the fidelity of the design-level analyses used to predict the relevant flow physics is critical. This in turns means that design analyses are as well validated as possible and that both the viscous and geometric modeling of the turbine is appropriate to the problem. Additionally, it is critical that proper periodicity of the predicted flowfield is achieved during design-level analyses. An ability to judge this is in turn dependent on an understanding of basic concepts in digital signal processing that are also essential to the accurate calculation of unsteady forces on airfoils. Here, a method to assess the convergence of periodic flowfields is presented with reference to an experimental turbine designed at the Air Force Research Laboratory. Then, the physics of the flowfield in this turbine that gives rise to unsteady interactions is discussed with reference to available code-validation data. Then, several design techniques are considered either to reduce the magnitude or alter the phase of unsteady interactions within the turbine to mitigate forcing. These include the shaping of both the rotating and stationary airfoil profiles as well as a novel flow-control method that involves steady blowing from the pressure side of the downstream stationary airfoil row. In addition, the effects of downstream vane asymmetric spacing, vane-to-vane clocking, and downstream airfoil re-stagger are assessed. It is also shown that rapid-turnaround unsteady analysis is a useful tool for guiding the assembly of a turbine blade row to minimize forcing on a target airfoil. Finally, the efficacy of many of these methods to reduce unsteadiness is demonstrated through rotating turbine experiments.

TURBO EXPO 2026 PLENARY PANEL

The Industry Voice Advancing Antifragile Power and Propulsion Systems

TUESDAY, JUNE 16, 2026 / 10:30 AM – 12:00 PM

This session examines how the turbomachinery industry is moving beyond traditional concepts of resilience toward truly antifragile power and propulsion systems— designed not only to withstand disruption, but to improve and adapt because of it. As energy, mobility, and geopolitical landscapes become increasingly volatile, the ability to operate reliably under highly dynamic and uncertain conditions is becoming a defining requirement.

Industry leaders will share perspectives on how emerging technologies, digitalization, and new design philosophies are reshaping power and propulsion solutions to meet these challenges. The session will highlight how collaboration across the value chain is enabling systems that can respond to variability in demand, operating environments, and energy pathways, while maintaining performance, safety, and sustainability.

By framing antifragility as a strategic imperative, this panel offers attendees a forward-looking industry perspective on how turbomachinery can play a central role in delivering robust, adaptable, and future-ready power and propulsion systems.

PANELISTS

Federico Bonzani
Chief Technology Officer
Ansaldo Energia

Chris Pin Harry
Vice President Technology
Industrial & Energy Technology
Baker Hughes

Luca Bedon
Executive - Advanced Technologies
Avio Aero, a GE Aerospace company

Hervé Morvan
Chief of Future Platforms
Rolls-Royce

MODERATORS

Paolo Noccioni
President of Nuovo Pignone
Industrial & Energy Technology
Baker Hughes

Annalisa Muccioli
Head of Research & Technological Innovation
Eni

PANELISTS

Federico Bonzani

Chief Technology Officer

Ansaldo Energia

Federico Bonzani brings 30+ years of experience in power generation and joined Ansaldo Energia in 1995, initially focusing on Combustion Technology. After holding various engineering leadership roles in the Company, since 2020 he has served as Director of the Product and Technology leading the R&D unit located in Genoa and Baden. In 2024 he has been nominated Chief Technology Officer of the Company, leading the governance of the corporate engineering community over the different business units. His current scope oversees gas turbine, steam turbine and generator development and R&D budget management across Ansaldo Energia portfolio.

In addition to his corporate responsibilities, he supports ASME IGTI as a member of the Combustion, Fuels and Emissions Committee since 2006, participating in initiatives aimed at advancing low emission technologies and the future of turbomachinery.

Chris Pin Harry

Vice President Technology

Industrial & Energy Technology

Baker Hughes

Chris is the Vice President of Technology for Industrial & Energy Technology (IET) at Baker Hughes. IET comprises 4 businesses: Energy Equipment, Gas Technology Services, Industrial Solutions & Industrial Products. His responsibilities span across, leading the technology portfolio throughout the lifecycle of our products and solutions.

Prior to joining Baker Hughes, Chris spent 21 years in Engineering and Technology across various sectors; namely Energy and Aerospace, for Rolls-Royce and Railways, for Alstom.

During his multinational career Chris has lived in Canada, United States, United Kingdom, Germany and now based in Italy Born in Mauritius, Chris graduated from Concordia university specializing in Aerospace Engineering and Vehicle Systems and furthered his learnings in technology leadership at the Massachusetts Institute of Technology.

PANELISTS

Luca Bedon

Executive - Advanced Technologies

Avio Aero, a GE Aerospace company

Luca Bedon is an executive engineering manager with more than 25 years' experience in the aerospace business in the field of advanced technology and new product introduction. Currently, as Avio Aero's research and technology leader, he coordinates the company's advanced technology development activities in Europe and serves on the governing board of Clean Aviation and ASD Environment Commission and Civil Aviation Research Committee. Avio Aero is a business of GE Aerospace, a world-leading provider of jet and turboprop engines.

Linkedin profile here.

Hervé Morvan

Chief of Future Platforms

Rolls-Royce

Prof. Hervé Morvan leads the company advanced concepts team at Rolls-Royce, working for the Group Engineering, Technology & Safety (ETS) directorate and reporting to the Group Director for R&T, on issues in the 'beyond business as usual' and specifically on future energy and future power (from a technical and from an economic/market perspective). He also feeds into activities led by the Group Chief Strategy Officer and Chief Transformation Officer, on topics pertaining to the future such as energy transition, long-term planning and future markets. Herve led the inception of the Rolls-Royce hydrogen strategy and programme from 2020 onwards and until its formal standing up as a demonstration activity. Prior to joining Rolls-Royce, Hervé spent 15 years at the University of Nottingham where he led the Institute for Aerospace Technology (IAT), receiving a personal chair in 2014 and being elected a Fellow of the Royal Aeronautical Society (RAeS) back in 2016.

MODERATORS

Annalisa Muccioli

Head of Research &

Technological Innovation

Eni

Annalisa Muccioli is Head of Research & Technological Innovation at Eni, she is responsible for a network of Research Centers focused on advanced renewable energy technologies, low-carbon fuels, carbon capture, utilization and storage (CCUS), and the sustainable development of natural resources.

From 2021 to 2024, she served as CEO of EniProgetti, Eni's engineering company, leading the design of industrial plants across the group's different businesses.

A management engineer by training, Annalisa joined Eni in 2010 after completing the MEDEA Master's program, an MBA promoted by the company. She began her career in the Gas & Power division, where she coordinated international subsidiaries, managed long-term gas contract renegotiations, and contributed to the development of the LNG portfolio.

In 2016, she joined the CEO's Office, where she worked for five years, serving as Head for the last three. This experience provided her with a comprehensive strategic vision across Eni's ecosystem and enabled her to take on roles of increasing responsibility within the company.

She also serves on the Boards of several Eni companies (including Plenitude and Enilive) as well as external institutions, in representation of Eni.

Paolo Noccioni

President of Nuovo Pignone

Industrial & Energy Technology

Baker Hughes

Paolo is the President of Nuovo Pignone, within the IET business of Baker Hughes.

Paolo is a veteran of the turbomachinery industry, with significant experience in Turbines, Compression and Pump systems and their application to multiple processes in the Energy and Industrial sectors.

Prior to his current role he led the Innovation organization for the turbomachinery business, with focus on new competences and emerging technologies.

During his thirty years career in the Company, he also covered several leadership roles in Engineering and Technology, contributing to the development of key large scale LNG projects and to several new products and technology launches.

Paolo holds a master's degree in Nuclear Engineering from the University of Pisa, Italy.

TURBO EXPO 2026 AWARD SCHEDULE

Keynote Ceremony

MONDAY, JUNE 15, 2026 / 10:30AM – 12:00PM

Award Title	Award Winner
2024 ASME Gas Turbine Award	Marco Batisti Lorenzo Pinelli Lorenzo Toni Alberto Guglielmo Michele Marconcini Andrea Arnone
2026 ASME R. Tom Sawyer Award	Dr. Kenichiro Takeishi
2026 ASME Soichiro Honda Medal	Dr. Massimo Guiggiani
2026 ASME Dedicated Service Award	Douglas Hofer Dr. Marina Braun-Unkhoff

Scholar Award

MONDAY, JUNE 15, 2026 /5:45PM – 6:45PM

Award Title	Award Winner
2025 ASME IGTI Scholar Award	Mark G. Turner

Plenary Panel

TUESDAY, JUNE 16, 2026 / 10:30AM – 12:00PM

Award Title	Award Winner
2026 ASME Aircraft Engine Technology Award	Dr. John P. Clark
2026 ASME Industrial Gas Turbine Technology Award	Carlos E. Koeneke
2024 ASME John P. Davis Award	Dr. Joseph Ramsay Indi Tristanto Professor Shahrokh Shahpar Alistair John
2026 ASME IGTI Dilip R. Ballal ECE Award	Veeraraghava Raju Hasti

AWARDS AND SCHOLARSHIP INFORMATION

ASME Turbo Expo Early Career Engineer (TEECE) Travel Award

The Turbo Expo Early Career Engineer Travel Award is intended for graduate early career engineers working in industry, in government or in academia to supplement their travel funding to attend ASME Turbo Expo to present a paper which they have authored or co-authored. The purpose is to help young engineers maintain active and fruitful participation with the Turbo Expo community.

What's included in the travel award?

- One Complimentary ASME Turbo Expo Technical Conference Registration
- Complimentary hotel accommodation (Sunday to Friday)
- Up to $1,000 toward approved travel expenses

CONGRATULATIONS TO THE 2026 AWARD WINNERS:

Achinie Nataliya Warusevitane
Coventry University

Alessandro D'Aguanno
von Karman Institute for Fluid Dynamics

Ananth Srinivas Nayak
CERFACS

Aravind Chandh
Georgia Institute of Technology

Dimitrios Vitlaris
Evolito Ltd

Hangkong Wu
Xi'an Jiaotong University

Islam Kabil
Argonne National Laboratory

Jinhong Wang
Imperial College London

Kyuman Kim
LG Electronics

Navin Kumar Mahto
Argonne National Laboratory

Pavlos Rompokos
Cranfield University

Richard Hollenbach III
Exponent Scientific and Engineering Consulting

Ritesh Ghorpade
University of Central Florida

Sharan Sreedeep
GE VERNOVA

Shreyas Hegde
Pratt & Whitney

Spyros Tsentis
Cranfield University

Troy Krizak
Hyphen Innovations

Tarik Yahou
Safran Aircraft Engines

Yiming Liu
Trinity College Dublin

Yoga Hutomo Putra
ExxonMobil Indonesia

Application for Turbo Expo 2027 opening in Fall 2026.

CALGARY ASME TURBO EXPO DEADLINE : FEBRUARY 1, 2027

Check the Turbo Expo website for more details.

Student Advisory Committee Travel Award (SACTA)

SAC is pleased to announce that up to 20 Student Advisory Committee Travel Awards (SACTA) have been made available for students, with priority given to individuals participating in the ASME Turbo Expo 2026 and actively contributing to the growth of the SAC. The winners will receive reimbursement awards that cover up to $2,000 of approved travel expenses (including accommodation, transportation, conference registration, etc.). Applicants for these awards must be seeking a degree. Communication with the SAC leadership team may be requested prior to, during, and following Turbo Expo.

ELIGIBILITY/EXPECTATIONS

Preference will be given to students who are or have been involved in SAC initiatives at Turbo Expo 2026 or earlier.

- Applicants must commit to active participation in the SAC Annual Meeting at the in-person Turbo Expo 2026 in Milan.
- Additionally, they must be prepared to support the SAC leadership team during the poster session, if requested. Consistent communication with the SAC leadership team before, during, and after the ASME Turbo Expo 2026 is essential.

Please note that to be eligible for the SACTA, candidates must have at least one paper or poster submitted and accepted for publication at Turbo Expo 2026. The candidate may be asked to verify the acceptance of their paper (as lead author or co-author) in order to be awarded the SACTA.

NOMINATION REQUIREMENTS

The following items must be included in the application for the SAC Travel Award:

a. Application form

b. Current resume or CV of the applicant

c. Motivational letter from the applicant

d. Support letter from the applicant's research advisor confirming applicant's degree-seeking status

CONGRATULATIONS TO THE 2026 AWARD WINNERS:

Abhilash Prasad
University of Central Florida, Orlando, USA

Alexandre Halby
Von Karman Institute for Fluid Dynamics, Belgium

Al-Muthanna Al-Ani
University of Central Florida, Orlando, USA

Anastasia Gaitanidou
Aristotle University of Thessaloniki, Greece

Arnab Kumar Das
Indian Institute of Technology, Guwahati, India

Augusto Delavald Marques
University of Central Florida, Orlando, USA

Dimitrios Ivanoudis
Aristotle University of Thessaloniki, Greece

Endino Gieske
TU Delft, Netherlands

Ethan Taylor
University of Central Florida, Orlando, USA

Georgios S. Arvithis
Aristotle University of Thessaloniki, Greece

Giovanni Ciprian
University of Padova, Italy

Ignacio Lasala
Purdue University, USA

Kiriakos Toulgaridis
Aristotle University of Thessaloniki, Greece

Lorenzo Da Valle
Von Karman Institute for Fluid Dynamics, Belgium

Mairah Ahmed
University of Central Florida, Orlando, USA

Panagiotis Antoniadis
Aristotle University of Thessaloniki, Greece

Salvatore Carusotto
Politecnico di Torino, Italy

Saurabh Deorao Lanjewar
Indian Institute of Science, Bengaluru, India

Shrey Sahai Gupta
Indian Institute of Science, Bengaluru, India

Venkata Y.T. Chennuru
Universidad Politechnica de Madrid, Spain

TURBO EXPO

Award Recipients

Congratulations to all award recipients and thank you to all ASME IGTI committee award representatives whose work assists the awards and honors chair and the awards committee in the recognition of important gas turbine technological achievements. Thank you to Douglas Nagy for serving as the IGTI Honors and Awards Committee Chair, John Gülen as Industrial Gas Turbine Technology Award Committee Chair, and Konstantinos Kyprianidis as the Aircraft Engine Technology Award Committee Chair.

2024 ASME Gas Turbine Award

Awarded to...

Marco Batisti
Lorenzo Pinelli
Lorenzo Toni
Alberto Guglielmo
Michele Marconcini
Andrea Arnone

2024 John P. Davis Award

Awarded to...

Joseph Ramsay
Indi Tristanto
Shahrokh Shahpar
Alistair John

2025 Scholar Award

Awarded to...

Mark Turner

2026 R. Tom Sawyer Award

Awarded to...

Kenichiro Takeishi

2026 ASME Dedicated Service Award

Awarded to...

Marina Braun Unkhoff
Douglas Hofer

2026 Aircraft Engine Technology Award

Awarded to...

John P. Clark

2026 Industrial Gas Turbine Technology Award

Awarded to...

Carlos Koeneke

2025 Scholar Award

Awarded to...

Mark Turner

2026 Dilip R. Ballal Early Career Engineer Award

Awarded to...

Veeraraghava Raju Hasti

FOR DETAILS ON THE AWARD WINNERS, PLEASE REFER TO THE 2026 AWARDS PROGRAM. THE PROGRAM IS AVAILABLE ON THE TURBO EXPO WEBSITE.

AWARDS INFORMATION

Upcoming Award Opportunities

2027 Dilip R. Ballal Early Career Engineer Award

NOMINATE TODAY →

by August 1, 2026

2027 Industrial Gas Turbine Technology Award

NOMINATE TODAY →

by October 15, 2026

2027 ASME R. Tom Sawyer Award

NOMINATE TODAY →

by September 15, 2026

2027 ASME Dedicated Service Award

NOMINATE TODAY →

by November 1, 2026

2027 Aircraft Engine Technology Award

NOMINATE TODAY →

by October 15, 2026

2029 Scholar Award

NOMINATE TODAY →

by September 1, 2027

*For more information on how to submit a nomination for an award, **click here**!*

QUESTIONS CAN BE SENT TO IGTIAWARDS@ASME.ORG.

Turbo Expo Organizing Committee

Antonio Andreini
University of Florence
Conference Chair

Paolo Noccioni
Baker Hughes
Executive Conference Chair

Shahrokh Shahpar
Rolls-Royce
Review Chair

Ward De Paepe
University of Mons
Technical Program Chair

Sascha Gierlings
Fraunhofer
Vice Review Chair

Ben Emerson
Georgia Institute of Technology
Vice Review Chair

Bronwyn Power
Pratt & Whitney
Vice Review Chair

Ioanna Aslanidou
Mälardalen University
Tutorials Chair

Paolo Gaetani
Politecnico di Milano
Local Liaison Chair

Local Liaison Committee

Paolo Gaetani

Chair

Politecnico Di Milano

Giovanna Barigozzi

University of Bergamo

Luca Bedon

Avio Aero

Francesco Bertini

Avio Aero

Federico Bonzani

Ansaldo Energia

Alessandro Corsini

University of Roma

Marco Guarnone

ENI

Nicola Marcucci

UCT

Michele Pinelli

University of Ferrara

Martina Ricci

Baker Hughes

Angela Serra

Baker Hughes

Alberto Traverso

University of Genova

IGTI International Gas Turbine Institute Executive Committee

Natalie Smith
Southwest Research Institute
Chair

Jacqueline O'Connor
The Pennsylvania State University
Vice Chair

Caroline Marchmont
Ansaldo Energia
Past Chair

Eric Ruggiero
GE Aerospace
Turbo Expo Liaison

Vassilios Pachidis
Cranfield University
Turbo Expo Operations

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Finance & Performance

Doug Nagy
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Honors and Awards

Dimitra Eirini Diamantidou
Rolls-Royce
Career Development

Cis De Maesschalck
Rolls-Royce
Marketing & Publicity

Mike Koenig
Siemens-Energy
Strategy

Meet the GGTN Editorial Committee:

The **Global Gas Turbine News (GGTN)** is published inside ASME's Mechanical Engineering magazine. The GGTN provides technical content as well as updates on happenings within the IGTI Community. If you are an ASME member, you automatically receive Mechanical Engineering as part of your membership. Keep up with Gas Turbine News by visiting our website.

Tamy Guimarães, *Chair*
Assistant Professor of
Mechanical Engineering
The Pennsylvania State University

Lorenzo Mazzei, PhD, *Member*
R&D Program Manager
Ergon Research, Italy

Uma Maheshwar, *Member*
Chief Consulting Engineer
GE Aerospace
Engineering-India

Angela Serra, *Member*
Senior Technical
Emissions Advisor
Baker Hughes

Keun Ryu, Ph.D, *Member*
Professor
Hanyang University,
South Korea

Lance L. Smith, *Member*
Senior Technical Fellow
RTS Technology Research
Center (RTRC)

Manfred Klein, *Member*
Energy Consultant
MA Klein & Assoc.

Jamesa L. Stokes, *Member*
Materials Research Engineer
NASA Glenn Research Center

Rakesh Bhargava, *Member*
Founder and President
Innovative Turbomachinery
Technologies

Hafsa Ahmed, *IGTI Liaison*
Coordinator, Conferences
& Exhibitions
ASME

Networking Events

Networking Events

EARLY CAREER ENGINEER & STUDENT NETWORKING MIXER

Sunday, June 14
6:00 p.m. - 8:00 p.m.

GE VERNOVA

Looking to kickstart your networking for the conference week ahead? Join the ASME IGTI and SAC's networking and student mixer event, taking place on Sunday, June 14th. This event provides an excellent opportunity for students to connect with experienced professionals and peers from around the world and expand their professional network. Complimentary refreshments will be provided.

Sponsored by GE Vernova.

WELCOME RECEPTION

Monday, June 15
6:30 p.m. - 8:00 p.m.

EPRI

All Conference registrants are invited to join their colleagues for complimentary light refreshments during the Monday evening event. In a casual atmosphere, greet friends, and meet the thinkers from around the world who are shaping the future of turbomachinery.

Sponsored by EPRI.

EXPO HALL RECEPTIONS

Tuesday & Wednesday, June 16 & 17
5:00 p.m. - 6:30 p.m.

All registered delegates are invited to the Exhibit Hall for complimentary drinks and networking with industry colleagues while viewing the exhibits of the industry's leading companies.

CELEBRATING WOMEN IN TURBOMACHINERY EVENT

Wednesday, June 17
7:30 p.m. – 10:15 p.m.

This is a ticketed event. Attendees are invited to join colleagues for a networking event that will feature motivating talks. Attendees will have the opportunity to network with women in the industry and learn about the career paths of some successful women in the industry.

LUNCH: MONDAY - THURSDAY

All Technical Conference delegate badges as well as exhibit booth staff badges include lunch. Additional lunches for guests can be purchased onsite during registration. Take the time during lunch to walk the exhibit floor and visit the many exhibitors from around the world showcasing their products and services.

2026

Publication Schedule

2026

October 15

Abstract Submission

2026

November 5

Notification of Abstract Acceptance

2026

December 21

Submission of Full-Length Paper for Review

2027

January 25

Paper Review Complete

2027

February 1

Paper Acceptance Notification

2027

February 15

Submission of Revised Paper for Review

2027

March 8

Notification of Acceptance of Revised Paper

2027

March 18

Copyright Submission Deadline

2027

March 22

Final Paper Submission & Author Registration Deadline

Student News

Student Advisory Committee

The **Student Advisory Committee (SAC)** is a group of students who work to foster student engagement in the IGTI community and improve the Turbo Expo conference every year. Towards this goal, the SAC organizes various sessions and events during the conference, provides opportunities for students to work behind the scenes with leaders in their technical area, and awards travel funds to eligible degree seeking individuals.

THIS YEAR'S ACTIVITIES INCLUDE

Student & Early Career Engineer Networking Mixer
Sunday 6:00 - 8:00 p.m.

Student Poster Competition
Tuesday 12:00- 1:30 p.m.

Transitioning from Student to Professional and Turbo Career Talks
Wednesday 10:30 am - 12:00 pm

SACTA Awardee Recognition at the Closing Ceremony
Thursday 1:30 - 2:00 p.m.

SAC Meeting
Thursday 4:00 - 5:30 p.m.

EARLY CAREER ENGINEER & STUDENT NETWORKING MIXER

Sunday, June 14, 6:00 p.m. – 8:00 p.m.

GE VERNOVA

The Student & Early Career Engineer Networking Mixer is open to all conference participants and allows for both junior and senior attendees to socialize, network and discuss matters relevant to the turbomachinery field. Hors d'oeuvres and drinks will be available to all attendees. Attendees are encouraged to meet up with old friends, make new contacts and kick-off the conference week.

Sponsored by GE Vernova.

Poster Session

TUESDAY, JUNE 16, 12:00 P.M. – 1:30 P.M.

The Student Advisory Committee is once again sponsoring a student poster session at ASME Turbo Expo. Be sure to stop by the poster session to see the results of their work and encourage them to become active in the ASME IGTI community.

STUDENT POSTERS DISPLAYED:

Main Exposition Floor
Tuesday, June 16th
12:00 p.m. – 1:30 p.m.

POSTER WINNERS ANNOUNCED:

Expo Hall Closing Ceremony
Thursday, June 18th
1:30 p.m. – 2:00 p.m.

CASH PRIZES FOR POSTER WINNERS

FIRST PLACE:

€500

SECOND PLACE:

€250

PEOPLE'S CHOICE

€100

*Student Poster Judges listed on next page.

Poster Session

STUDENT POSTER JUDGES

Tittu Varghese Mathew
Siemens Energy

Rafael Guedez
KTH - Royal Institute of Technology

Martina Ricci
Baker Hughes

Clement Joly
Softinway

Venkata Y.T. Chennuru
Universidad Politécnica de Madrid, Spain

Shreyas Hegde
Pratt&Whitney

Mahendra Prabhu Subramani
Chartered Engineer and Member in IMechE

Abhilash M. Prasad
University of Central Florida

Dingxi Wang
Northwestern Polytechnical University

Achinie Warusevitane
Coventry University

Matthew Meier
The Pennsylvania State University

Filippo Merli
Von Karman Institute for Fluid Dynamics, Belgium

Dheepa Srinivasan
Baker Hughes

Marcel Otto
University of Central Florida

Anand Darji
Caterpillar Inc.

Eric Monson
Solar Turbines

Tim Allison
Southwest Research Institute

Sergio Lavagnoli
Von Karman Institute for Fluid Dynamics, Belgium

Salvatore Carusotto
Politecnico di Torino

Mavroudis Kavvalos
German Aerospace Center (DLR)

Alessandro Corsini
Sapienza University of Rome

Jonathan Wade
Southwest Research Institute

Scott Keller
Doosan Turbomachinery Services

Jens Fridh
KTH - Royal Institute of Technology

Ramees Khaleel Rahman
University of Central Florida

Tamy Guimarães
Pennsylvania State University

Stefania Zunino
GE Aerospace

Randall Mathison
The Ohio State University

Tommaso Bacci
University of Florence

Anestis Kalfas
Aristotle University of Thessaloniki, Greece

Michael Hughes
GE Vernova

Salvador Rodríguez
Universidad Politécnica de Madrid, Spain

Ethan Taylor
University of Central Florida

Pawel Przytarski
University of Sydney

Christian Aalburg
GE Aerospace

Stavros Vouros
MDU

Alexander Görtz
German Aerospace Center (DLR)

Kurt Rouser
Oklahoma State University

Craig Davison
National Research Council Canada

Davide Laera
Politecnico di Bari

Francesco Di Sabatino
Southwest Research Institute

Giuseppe Tilocca
ETN Global

Ioannis Roumeliotis
Cranfield University

Piotr Wisniewski
GE Aerospace

Richard Sandberg
University of Melbourne

POWERGEN 2027 CALL FOR CONTENT IS

NOW OPEN

SUBMIT YOUR PROPOSED SESSION

DEADLINE: MAY 18, 2026

POWERGEN™

JANUARY 18-21, 2027

SALT PALACE CONVENTION CENTER | SALT LAKE CITY, UTAH

Student Poster Presenters

TUESDAY, JUNE 16, 2026 / 12:00 PM – 1:30 PM

Gabriel Paganini, *University of Sao Paulo*

GT2026-176439: Reduced-Order Kinetic Calculations of Water-Diluted Hydrogen Combustion at Aeroengine Conditions

Longyi Liu, *Beihang University*

GT2026-177140: Geometric Effects of Hole Angles on the Similarity of Film Cooling Effectiveness Under Thermal Variations

Xin Tian, *Tsinghua University*

GT2026-183807: Experimentally Calibrated Porous-Media Modeling of Brush Seals for Coupled Leakage and Frictional Heating Prediction

Ahmed Gaber H. Saif, *King Fahd University of Petroleum & Minerals (KFUPM)*

GT2026-184709: Impact of Low-Carbon Fuels on Flame Dynamics in a Gas-Turbine Relevant Combustion Systems

Yifeng Wang, *Shanghai Jiao Tong University*

GT2026-185055: Gpu-Accelerated Density-Based Flamelet Combustion Solver for Compressible Reacting Flows

Jisu Park, *Jeonbuk National University*

GT2026-185365: Numerical Study and Data-Driven Modeling of Flat-Plate Transpiration Cooling

Hannah Petersen, *Virginia Polytechnic Institute and State University*

GT2026-185522: The Influence of Jet-a to Hefa-Spk Fuel Switching on Young's Modulus, Dimensional Change, and Degradation Behavior in Fluorocarbon Elastomer O-Rings

Yurong Wang, *Tianjin University*

GT2026-185533: Case Study on Small-Scale Supercritical Co2 Axial-Flow Turbine

Zhiyong Zhang, *Tianjin University*

GT2026-185564: Novel Method for Optimizing Tco_2 Centrifugal Pump Blade Profiles: An Inverse Problem Framework Driven by Forward Problem Geometric Features

Jayshankar Ray, *Indian Institute of Science*

GT2026-185586: Centrifugal Compressor Design for Mechanical Vapor Recompression (Mvr)

Kai Hubbard, *North Carolina A & T State University*

GT2026-185605: Reproducibility and Human Error in Hardness Measurements: A Comparative Study of Independent User Data

Panagiotis Antoniadis, *Aristotle University of Thessaloniki*

GT2026-185662: How Semi-Empirical Methods Stack-Up Against Surrogate Models - the Case of Nox Prediction

Matthias Geissmann, *University of Applied Sciences and Arts Northwestern Switzerland*

GT2026-185711: Torsional Vibration Damping Using a Modular Control Scheme With Preview

Sidharath Madaan, *Chair of Turbomachinery and Flight Propulsion,Technical University Dresden*

GT2026-185961: Impact of Inlet Swirl on an Aft Centrifugal Compressor Stage Design for an Axial-Centrifugal Compressor in Aero Engines

Giovanny Lopez Muñoz, *University of Seville*

GT2026-185974: Cost-Efficiency Trade-Off in Allam Cycle Recuperator Performance: A Practical Assessment of Effectiveness.

Bright Katey, *University of Central Florida*

GT2026-186354: Multispecies Measurements and Chemical Kinetic Modeling of Ammonia–natural Gas Fuel Blends at Gas Turbine Operating Conditions

Shengwei Yang, *Beihang University*

GT2026-186437: A General Framework for Enhancing Film Cooling Predictions via Data Assimilation and Turbulence Model Correction

Student Poster Presenters

Afaf Karrouk, *CORIA CNRS UMR 6614 - SAFRAN HELICOPTER ENGINES*

GT2026-186529: Experimental Study by Advanced Optical Diagnostics of a High-Pressure Rich Burn – Quick Mix – Lean Burn Lab-Scale Combustion Chamber

Taehyeon Kim, *Jeonbuk National University*

GT2026-186780: Numerical Study of Film Cooling Performance and Flow Structures With Surface Roughness

Xiang Lu, *ShangHai Jiaotong University*

GT2026-186788: Numerical Study on the Influence of Swirl Intensity on the Effusion Cooling Characteristics Under Lean-Premixed Swirl-Stabilized Flame

Elisabetta Leoncino, *German Aerospace Center (DLR)*

GT2026-186816: Experimental Investigation of a Fuel-Staged Jet-Stabilized Burner Operating With 100% Hydrogen

Jonas H. Ruesch, *Helmut-Schmidt-University*

GT2026-186873: Experimental Investigation on the Influence of Surface Roughness on Thin Shear-Driven Water Films

Leonard Muke, *University of Seville*

GT2026-186879: Dynamic Modelling and Control of a Supercritical Co2 Power Cycle for Waste Heat Recovery

Andrea Magrini, *Università Degli Studi di Padova*

GT2026-186885: A Hierarchy of Computational Methods for Aerodynamic Analysis and Optimization of Aeronautical Propellers

Connor Wall, *University of Central Florida*

GT2026-186891: Design and Creation of a High-Pressure Ammonia Boiling Rig

Sanjeeth Sureshbabu, *University of Florence*

GT2026-186894: Extrapolation Capabilities of Neural Networks and Symbolic Regression Methods for Combustion Les

Kangana Patel, *University of Central Florida*

GT2026-186897: System-Level Performance of an Integrated Ammonia-Fueled Engine

Dimitrios Ivanoudis, *Aristotle University of Thessaloniki*

GT2026-186905: Impact of Thermodynamic Property Modeling on Aero-Engine Mean-Line Design

Yong Hyeon Kwon, *Inha University*

GT2026-186918: Influence of Dynamic Modeling on Start-Up Simulation of Industrial Gas Turbines

Kiriakos Toulgaridis, *Aristotle University of Thessaloniki*

GT2026-186965: Thermal Management System Optimization and Safety Assessment Analysis for Hydrogen Propulsion Systems

Aleksandra Woźniak, *Lodz University of Technology, Institute of Turbomachinery*

GT2026-186970: Thermodynamic Analysis of the Operating Cycle of the Trs-18 Micro Jet Engine Powered by Conventional Fuel With the Addition of Hydrogen

Ginevra Romagnoli, *University of Rome Tor Vergata*

GT2026-186972: Comparative Assessment of Co2 Compression Systems for Decarbonized Fossil Fuel Power Plants

Jesse Chotiner, *University of Central Florida*

GT2026-186987: Optimization of Honeycomb Seal Clearance Ratios for High-Pressure/temperature Supercritical Carbon Dioxide Within Labyrinth Seals

Noah Santiago-Walsh, *University of Central Florida (CATER)*

GT2026-186995: Nusselt Correlations for Microchannel Molten Salt Co2 Stairstep Heat Exchangers in Real Gas Conditions

Zuhayr Pasha Mohammed, *University of Central Florida*

GT2026-186998: High-Pressure Speciation and Chemical Kinetic Modeling of Dme-Propane Blends at High Pressure Turbine Conditions

Jaewoo Jang, *Gangneung-Wonju National University*

GT2026-187002: Prediction of Combustion Instability in Hydrogen–methane Gas Turbine Combustors Using Flamelet-Based Framework and One-Dimensional Network Model

Jin Seo Kim, *Inha University*

GT2026-187007: A Model-Derived Control Strategy for Hydrogen Co-Firing Gas Turbines Under Transient Co-Firing Ratio Variations

Student Poster Presenters

Ming Jin, *Shanghai Jiao Tong University*

GT2026-187016: Study on Acoustic Mode Prediction Based on Non-Uniform Distribution of Flame Transfer Function in a Multi-Nozzle Combustor

Carlos Ávila Catalán, *Universidad Rey Juan Carlos*

GT2026-187020: Combined Thermodynamic and Weight Optimization of Advanced Gas Turbine Designs Under Multi-Point On- and Off-Design Operating Constraints

Junwoo Jung, *Gangneung-Wonju National University*

GT2026-187032: Effect of Hydrogen Enrichment on Flame Structure and Thermoacoustic Instability in a Single Nozzle Combustor

Xinxiang He, *Zhejiang University*

GT2026-187038: Dynamic Mechanism of Energy Loss in Centrifugal Pumps Under Off-Design Conditions

Sangeon Park, *Hanyang University*

GT2026-187046: Performance Comparison of Cryogenic Floating Ring Seals and Annular Seals

Mario Lucas Jerez, *Universidad Rey Juan Carlos*

GT2026-187063: Coupled Cfd–bem and Structural Load Analysis for Optimal Integration of Active Fluid Gurney Flaps in Wind Energy Systems

Christian Gossrau, *RWTH Aachen University*

GT2026-187064: Nox Conversion Performance of a Medium-Temperature Scr for Ch4/h2/nh3 Gas Turbines

Tatum Seaquist, *University of Central Florida*

GT2026-187069: Study of an Ammonia Cracker for a Carbon-Free Turbofan

Noah Broski, *The Ohio State University*

GT2026-187078: Reduction Methodology for Bladed Disk With Transient Cyclically Asymmetric Forcing Cases

Qian Lou, *Hanyang University*

GT2026-187093: Experimental Measurement and Prediction of Cryogenic Hydrostatic Thrust Bearing Performance Under High-Speed Rotation

Caleb Commisso, *University of California, Irvine*

GT2026-187095: Rapid Prototyping of a Constant-Velocity Acrylic Test Section for High-Subsonic Wet Wind Tunnels

Hee Jae Lee, *Yonsei Univeristy*

GT2026-187096: Infrared Thermography Evaluation of Overall Cooling Effectiveness and Uniformity for an Industrial Gas Turbine Blade With Baseline and Modified Geometries

John Zhang, *Massachusetts Institute of Technology*

GT2026-187098: Design, Build, Ignite: Lessons Learned From a Student-Led, Hands-on Turbomachinery Project

Francesco Porta, *von Karman Institute for Fluid Dynamics*

GT2026-187127: Methodology for Replicating Rotating Detonation Combustor Outflow Conditions in a Linear Subsonic Turbine Cascade

Adonis Constantinidis, *University of Seville*

GT2026-187134: Expected Designs for Hp Steam and Supercritical Co2 Turbines Across Different Applications

Ho Seop Song, *Yonsei University*

GT2026-187139: Cooling Characteristics of Combined Slot and Full Coverage Film Cooling on a Combustor Liner

Gyeongryun Kim, *Yonsei University*

GT2026-187143: Heat Transfer Characteristics of Additively Manufactured Pin-Fins With Flow-Guiding Structures for Enhanced Turbine Vane Trailing-Edge Cooling

Daksh Gupta, *Indian Institute of Technology Kharagpur*

GT2026-187145: Vki Ls89 Vane Leading Edge Film Cooling Using Sweeping Jet

Nikolaos Satrazanis, *Aristotle University of Thessaloniki*

GT2026-187151: Performance Modelling of a Hydrogen-Fuelled Aircraft Auxiliary Power Unit

Margaret Nunn, *The Pennsylvania State University*

GT2026-187156: Evaluating Blade Platform Overall Effectiveness in a High-Speed Research Turbine With Engine-Representative Cooling Flows

Student Poster Presenters

Matthew Krull, *Penn State*

GT2026-187167: Determination of Pressure From Velocimetry Data for Incompressible and Compressible Flows

Kristina Siiman, *Liburdi Engineering Limited*

GT2026-187174: Evaluating the Metallurgical Effects of Rejuvenation Repair of Service Run Single Crystal Turbine Blades

Aaron Guenther, *University of Cental Florida*

GT2026-187177: Design and Validation of an Emissions Analyzer for an Ammonia-Fueled Aircraft Engine

Farshid Yousefzad Farrokhi, *UMONS-ULB*

GT2026-187181: Study of Exhaust Gas Recirculation and Humidification Mitigating Effects on Adverse Effects of Hydrogen Combustion in a Micro Gas Turbine

Kyuman Kim, *Hanyang University*

GT2026-187186: Measurements of Static Load Characteristics of Floating Sleeve Hybrid Journal Bearings Under High-Speed Rotation

Yueun Jeon, *Hanyang University*

GT2026-187188: Experimental Identification of Dynamic Force Coefficients in Compliant Foil Bearings Lubricated With Liquid Nitrogen

Homin Lim, *Hanyang University*

GT2026-187189: Performance Measurements of a Hybrid Taper-Land Thrust Bearing in Air, Water, and Liquid Nitrogen

Carl Parsons, *University of Cambridge*

GT2026-187283: Towards Full-Surface Thermal Mapping With Imaging-Based Thermal History Coatings

Davide Marino, *Center for Advanced Turbomachinery and Energy Research, University of Central Florida*

GT2026-187496: Analysis of High Temperature Heat Pipes for Integration in High-Tit Sco2 Power Cycles for Advanced Nuclear Systems

Session Organizer & Participant Information

ASME Conferences App

The conference application contains all the information you need to run your session: Session Chair and Co-Session Chair guidelines, digital evaluation forms and speaker bios. Please be sure to download the app before the start of the conference. An email to download the app will be sent to all registrants prior to the start of the conference.

Certificates

Session Organizer certificates and PDH certificates will be emailed once month after the conference ends.

Presentation Uploads

Presenters (authors, panelists, tutorial instructors, lecturers) should plan to upload their presentations only on the computer in their session room. Please arrive 15 to 30 minutes prior to your session to upload your presentation. Presentations may be uploaded from a USB flash drive. There will not be a central network server for the sessions. **It is recommended that presentations be removed from the computer as soon as the presentation has ended.

Audiovisual Equipment Provided

Standard AV equipment provided in meeting rooms: LCD Projector, Laptop Computer, Projection Screen, Microphone(s), and a Wireless Remote/Laser Pointer.
Aspect Ratio is 16:9.

Speaker Ready Room

Sunday:	*3:00 pm – 6:00 pm*
Monday:	*7:00 am – 5:30 pm*
Tuesday:	*7:00 am – 5:30 pm*
Wednesday:	*7:00 am – 5:30 pm*
Thursday:	*7:00 am – 5:30 pm*
Friday:	*7:00 am – 12:00 pm*

Registration

As a non-profit organization, ASME requires all presenters to register for the conference and pay an appropriate fee.

Badge Ribbons

Role and attendance ribbons are available on the ribbon wall in the Registration area. See the display for available options.

Need Assistance?

Use the ASME Conferences App to request AV assistance by sending a message to “AV Help.” Please see the Information Desk located by registration for immediate assistance..

Explore the Exhibition

Turbo Expo 2027 offers value-added activities designed to drive traffic to your booth. Exhibit booth staff registration includes daily lunches and afternoon open-bar receptions held in the exhibit hall—creating prime opportunities for networking and engagement with attendees. This is your chance to:

Attract new clients & visit current ones

Learn more about the changing needs of industry

Increase your sales

DON'T MISS THE CHANCE TO CONNECT WITH OUR EXHIBITORS!

- 2026 Milan Floorplan
- 2026 Exhibitor Directory to discover the companies and organizations joining us in Milan

ASME TURBO EXPO 2027

EXHIBITION INFORMATION

Secure your booth now for prime space availability and see how Turbo Expo 2027 can generate bottom-line results for your marketing dollars.

BOOTH SPACE

$3900 USD
per 10x10 (100 square feet)

Contact exhibits@asme.org for more information or stop by the ASME Sales booth (booth B70) to chat with the team and secure your space or sponsorship.

The space will be an 8' black draped backdrop, 3' side dividers with a standard name board sign.

1 Technical Conference Badge
Per 100sf of space including access to the technical conference papers.

3 Booth Personnel Badges
Each including the Monday Welcome Reception, Monday morning Keynote and Opening Luncheon and lunch in the Hall on Tuesday, Wednesday and Thursday.

Complimentary Exhibit Hall Passes
To share with customers and prospects to drive awareness of your company's booth.

Complimentary Lead Retrieval
(Savings of over $400).

Discounted Technical Conference Registration
For company employees.

40-Word Company Listing
In the digital Conference Program (Upgrade available to include logo and/or 100-word description).

Product Category & Company Description
In the online exhibitor directory with press releases, logo, videos, brochures and more.

Opportunity to Present
On the exhibitor stage in the Hall.

Questions? exhibits@asme.org

Amplify Your Visibility with Sponsorships

Increase your impact before, during and after Turbo Expo with a sponsorship package designed to elevate your brand across every touchpoint.

SPONSORSHIP LEVELS

PLATINUM	GOLD	SILVER	BRONZE
$21,000	$16,000	$11,000	$6,000

MAXIMIZE BRAND IMPACT

Sponsorship unlocks premier brand exposure through signage, digital visibility, speaking opportunities, onsite branding, and targeted engagement with top-tier attendees.

TAKE THE NEXT STEP

Position your company at the forefront of the global turbomachinery community.

Reserve your exhibit booth and sponsorship today: exhibits@asme.org.

LET'S GET SOCIAL!

Share with your friends and colleagues that you plan to attend the conference, author a technical paper, exhibit, or sponsor! Contact IGTI if you would like to use the Conference logo.

ASME LINKEDIN

CLOSING CEREMONY AND PEOPLE'S CHOICE AWARDS

Closing Ceremony & Kick-Off to Calgary 2027

EXHIBITION HALL
THURSDAY, 1:30PM – 2:00PM

The Closing Ceremony recognizes several of Turbo Expo's volunteers and award recipients.

JOIN US IN CELEBRATING THE FOLLOWING INDIVIDUALS:

IGTI's Outgoing Committee Chairs

Turbo Expo Early Career Engineer Travel Award Recipients (TEECE)

Student Advisory Committee Travel Award Recipients (SACTA)

Student Poster Session Winners (including People's Choice!)

Turbo Expo 2027's Incoming Conference Committee

Be present at the closing ceremony for your chance to win one of the people's choice prizes. To be eligible for a prize, vote for the exhibition's best large and small displays and the people's choice student poster. Voting can be found on the conference app and is open until Wednesday at 6:30pm.

PRIZES ARE VALUED AT: €100 €250 €500

CAST YOUR BALLOT FOR:

- Most Creative Display Design
- Best Display Of Technology
- Best Overall Exhibit
- Best Method Of Crowd Attraction

*One vote per attendee. Entrants must be present to win at the Closing Ceremony. To qualify for the prize drawings, votes must be cast by **6:30pm on Wednesday**.*

This year, there will also be a special drawing, courtesy of Tourism Calgary. The Blue Sky City Urban Escape includes:

- Welcome basket with delightful local treats
- $200 Concorde Gift Card
- $100 Uber Voucher
- Admission for 2 guests to Studio Bell, home of the National Music Centre, Calgary Tower and SAM Centre

Turbo Expo Exhibit Advisory Committee Roster

MISSION

To assist in the growth and expansion of the Turbo Expo exhibit with continued support to exhibiting companies and ASME expositions staff. Representatives serve as experts for fielding questions and providing resources and initiatives for continued success of the exposition.

If you are interested in joining this committee, contact exhibits@asme.org.

EXHIBIT ADVISORY COMMITTEE

Michael A. Brokordt
MMP Technology/BINC
MicroTek Finishing

10008 International Blvd
Cincinnati, Ohio 45246 USA
Term: 2026-2030

Kate Guerrina
Concepts NREC

217 Billings Rd
White River, Junction, Vermont 05001 USA
Term: 2020-2029

Dr. Jakob Hermann
IfTA Systems GmbH

Junkersstrasse 8
D-82178 Puchheim, Germany
Term: 2018-2026

Kimberly Squilliante
SoftInWay Inc.

15 New England Executive Park
Burlington, Massachusetts 01803 USA
Term: 2024-2028

Exhibitor Listings

We look forward to seeing you in the exhibition hall. Be sure to stop by and visit with the exhibitors and sponsors. For more information on the exhibitors, download the Conference app today. Exhibitor full listings and an interactive floor map are available. You can also plan your visit in advance with marking favorites and must-see companies.

BOOTH A69

4D Technology, an Onto Innovation subsidiary

4dtechnology.com

4D Technology provides optical surface gauges for accurate 3D, non-contact, high-resolution measurement of precision surfaces right at the part. Measure blades, fir-tree roots, and other critical components of rotary- and fixed-wing aircrafts in < 1 second with one-button operation that can be used anywhere in the factory, lab or even in the field - either handheld or combined with collaborative robots for high-volume automation.

BOOTH A71

ACTE - Heat Exchangers

acte-sa.com

ACTE offers unique patented solutions for microturbines and small gas turbine heat recovery, as well as industrial waste-heat recovery applications.Leveraging 20+ years of highly specialized research and development with industrial partners, ACTE has designed, developed and manufactured high performance heat exchangers from a few kWh to a few MWh.Our COMPACT and GAP line of products are recognized for performing where tight constraints and challenging parameters dominate.

BOOTH B39

ADS CFD Inc.

adscfd.com

Aerospace CFD you can count on.

BOOTH B68

Advanced Atomization Technologies

advancedatomization.com

Advanced Atomization Technologies (AA TECH) is a joint venture between Parker Aerospace and GE Aerospace, created to produce and support advanced fuel nozzles and related products for current and future commercial engine platforms, including aerospace and aero-derivative engines.

BOOTH A33

Advanced Design Technology Ltd.

turbo designsuite by Advanced Design Technology

adtechnology.com

Advanced Design Technology (ADT) is a global leader in the development of advanced turbomachinery design methods, which help shorten development time and improve performance of turbomachinery components. Our aim is to put designers in direct control of the aerodynamic design and to considerably shorten the design time and time to market for a range of turbomachinery products.

BOOTH C48

Aerodyn Ltd

aerodyn-global.com

Providers of turbomachinery instrumentation services and products.

BOOTH C56

AIKOKU ALPHA Corporation

aikoku.co.jp/en/

AIKOKU ALPHA is one of the world's most sought-after manufacturers of the structural aerospace components, engine parts, and impellers that require this sophisticated technology.

PUB BINS

AIM - Italian Association for Metallurgy

ASSOCIAZIONE ITALIANA DI METALLURGIA

aimnet.it/eng/

The purpose of the association is to encourage, through its activities, the exchange of ideas and experiences among all those who are interested in the development and deepening of knowledge in the field of metallic materials with particular regard to the promotion of meetings and exchanges between producers, users and researchers.

BOOTH A30

AIMSEA

aimnet.it/eng/

AIMSEA is an Italian nonprofit association devoted to promoting scientific research, educational, regulatory and applied activities in the field of Fluid Machinery and Energy and Environmental Systems, identifying strategic directions consistent with Italy's technical, scientific, economic, and social development goals.

BOOTH E52

AM Turbines GmbH

am-turbines.com/

We develop and industrialize 3D-printed large-crystal superalloys to unlock a new era of high-performance turbine components.

BOOTH D55

AneCom AeroTest GmbH

anecom.de

AneCom AeroTest supports international turbomachinery OEMs in validating technologies, modules, and complete products, offering testing, instrumented test vehicles, and comprehensive measurement solutions.

BOOTH B66

ANIMA Confindustria

ANIMA CONFINDUSTRIA MECCANICA VARIA

en.anima.it/

We protect and promote the Italian mechanical engineering industry.

BOOTH D66

Ansaldo Energia

ansaldoenergia.com

Ansaldo Energia, based in Genoa with over 3,500 employees and 30+ offices worldwide, is a global leader in power generation. It designs, manufactures, and services gas/steam turbines and generators/ synchronous condensers. Its gas turbines can burn 100% HVO and up to 70% hydrogen, targeting 100% by 2030. Ansaldo Nucleare subsidiary works on SMRs, Gen IV, decommissioning, and waste management. Ansaldo Green Tech pruduces 100 KWe microturbines and AEM electrolysers.

BOOTH A36

Ansys, part of Synopsys

Ansys part of SYNOPSYS

ansys.com

Synopsys, Inc. (Nasdaq: SNPS) is the leader in engineering solutions from silicon to systems, enabling customers to rapidly innovate AI-powered products. We deliver industry-leading silicon design, IP, simulation and analysis solutions, and design services. Ansys, now part of Synopsys, extends the portfolio with world-class simulation capabilities, enabling deeper, multiphysics insights across every stage of product development.

BOOTH C38

APEX Turbine Testing Technologies

apexturbine.com

APEX Turbine Testing Technologies is a supplier of turbomachinery test and analysis solutions with a proven record of delivering integrated, reliable, industry-leading software applications world-wide for over 20 years.

BOOTH B22

ASME Professional Sections

ASME SETTING THE STANDARD

PROFESSIONAL SECTION

sections.asme.org/

ASME's professional sections allow you to network with other like-minded individuals in your community. They also provide you an opportunity to engage professionally through courses, activities, networking, and meetings. We have over 150 professional sec tions in over 20 countries.

BOOTH B60

ASME Recharge and Relax Station

turboexpo.org

Chill in the lounge and refresh both your body and your electronics.

BOOTH B70

ASME Sales and Exhibitor Lounge

turboexpo.org

Stop in to reserve your space for Calgary or to secure your sponsorship.

BOOTH E38

ASME Turbo Expo 2027 - Calgary

ASME TURBO EXPO 2027
TURBOMACHINERY TECHNICAL CONFERENCE & EXPOSITION

turboexpo.org

Beyond its Western image, Calgary is described as a modern, vibrant urban center with museums, live music venues, theaters, and public art. Attractions frequently highlighted include the Calgary Tower, Studio Bell (National Music Centre), Heritage Park, and TELUS Spark, offering experiences that range from history and science to music and innovation.

BOOTH C61

ATE Antr. GmbH & Co. KG

ate-system.de/en/

ATE ist your experienced partner for special electric drives. We evelop and produce customized motor components and electric motors to meet your requirements.ines, CHP, compressors, and others.

BOOTH B36

Avio Aero

Avio Aero
a GE Aerospace company

avioaero.com/

Avio Aero is a GE Aerospace company that designs, manufactures and maintains components and propulsion systems for civil and military aviation.

BOOTH A56

Axiometrix Solutions

axiometrixsolutions.com

Axiometrix Solutions is a leading provider in the test and measurement space. Our customers span the world and can be found in most technology-intensive industries including electronics, aerospace, automotive and audiology.

BOOTH E70

Baker Hughes

Baker Hughes
Rewriting The Energy Equation™

bakerhughes.com/

Baker Hughes is an energy technology company that provides solutions to energy and industrial customers worldwide. Built on a century of experience and conducting business in over 120 countries, our innovative technologies and services are taking energyforward ‘ making it safer, cleaner and more efficient for people and the planet. Visit us at bakerhughes.com

BOOTH D52

BeCOVER

www.becover.eu

BeCOVER is a test center designed for low and high pressure compressors for civil and military applications. With a power of 20MW, closed loop capability and dual / triple flow configurations, BeCOVER is capable of testing the future compressor configurations.

BOOTH B66

Beijing DM-CUT Machine Tool Co., Ltd.

en.dmcut.com

Beijing DM-CUT Machine Tool Co., Ltd. is a company specializing in R&D and manufacturing of CNC electric machining and gold cutting machine tools.

BOOTH A57

BOOSTER Precision Components Holding GmbH

booster-precision.com/en/

With a strong mindset and one common goal, we are shaping the future of new mobility and beyond - with the power to precision. We think big and even bigger, knowing that new mobility & energy solutions will revolutionize the way we move and live.

BOOTH D71

Bosch Thin Metal Technologies

bosch-mobility.com/en/solutions/powertrain/fuel-cell-electric/gas-foil-bearing/

Bosch Thin Metal Technologies, a tradename of Bosch Transmission Technology B.V., specializes in high-tech thin metal components for (electro)mobility and hydrogen applications. We offer series production of gas foil bearings for high-speed, lubrication-free use in industries from e-mobility and aviation to industrial and marine systems. With resistance to heat, contamination, and corrosion, our bearings are ideal for turbo compressors, blowers, HVAC, refrigeration and aviation air cycle machines.

BOOTH B40

Cadence Design Systems

cadence®

cadence.com/

Cadence is a market leader in AI and digital twins, pioneering the application of computational software to accelerate innovation in the engineering design of silicon to systems. Our design solutions are essential for leading semiconductor and systems companies to build their next-generation products from chips to full electromechanical systems that serve a wide range of markets, including hyperscale computing, mobile communications, automotive, aerospace, industrial, life sciences and robotics.

BOOTH D28

Cambustion

cambustion.com/industries/automotive

Cambustion's range of gaseous engine emissions analyzers offer fast response data (with gas measurements as fast as 1kHz) allowing resolution of cycle-by-cycle gaseous emissions for engine and after-treatment development.Class leading particle size, mass and number measurement from a single instrument enables development of engines and combustion processes for a wide range of different legislations, and accessories support measurement of particulate filter performance.

BOOTH D37

CBMM Technology Suisse SA

cbmm.com/en

World leader in the production and commercialization of Niobium products, CBMM will celebrate its 70th anniversary in 2025, serving more than 500 customers in 50 countries. Headquartered in Brazil, with regional offices in China, the Netherlands, Singapore, Switzerland, and the United States, CBMM provides technology for sectors such as infrastructure, mobility, aerospace, healthcare, and energy. To support its growth plans, the Company is aligned with global trends in electrification, urbanization, and sustainability, driving research, development, and the adoption of Niobium across various industries. CBMM has established partnerships and made strategic investments in companies such as Echion Technologies and Battery Streak, aiming for new developments in Niobium based materials for lithium-ion batteries.

BOOTH A68

Celeroton AG

celeroton.com/home/

Fast, faster, Celeroton: we develop, manufacture and sell ultra-high-speed electric drive systems and turbo compressors, achieving speeds of up to 1 million revolutions per minute (rpm). We replace volume and weight with speed.

BOOTH D23

CEROBEAR GmbH

cerobear.com/

CEROBEAR manufactures next-level technology, hybrid-ceramic ball and roller bearings for the Aerospace and Tech Industry. CEROBEAR serves applications like Aero-Engines, Aeroderivative Gas Turbines, Turbo-Chargers, -Pumps, -Compressors, -Expanders, Auxiliary Bearings (to AMB). CEROBEARs technology cuts cost, minimizes friction, increases reliability and safety.

BOOTH B26

CFD FEA SERVICE SRL UNIPERSONALE

cloudhpc.cloud

Cloudhpc.cloud is an on-demand High Performance Computing (HPC) platform by CFD FEA Service, tailored for Computer Aided Engineering (CAE) simulations. It offers a scalable, pay-per-use cloud environment pre-configured with open-source tools like OpenFOAM, CalculiX, and Code_Aster. Engineers can seamlessly execute intensive CFD, FEM, and multiphysics analyses while managing pre- and post-processing in the browser.

BOOTH B31

CFturbo GmbH

cfturbo.com

We are a Turbomachinery Software and Engineering company. Develop and sell Turbomachinery Software. Provide CAE Engineering Services.

BOOTH C31

Chell Instruments

chell.co.uk/

Chell Instruments produces pressure, vacuum & gas flow measurement & control solutions designed by engineers for engineers.

BOOTH B57

Chubu Electric Power Co., Inc.

chuden.co.jp/english/

Crystal Orientation. Analysis See Degradation. Extend Life. Add Value. We visualize material microstructures to clearly understand how degradation progresses. Our technology supports safe life-extension decisions and helps reduce power generation costs. With long-term operational insights, we detect degradation others may miss. And we're ready to bring this value to your company.

PUB BINS

Clarion Events

clarionevents.com/

Founded in 1947, Clarion Events has a rich heritage that extends even further back, with parts of our business tracing their origins to the 1800s with roots in trade publications, particularly those connected to our Fire and Rescue events in North America. Additionally, we are proud to continue running the original International Horse Show in London, a testament to the enduring legacy of the brands we have nurtured over the decades.

BOOTH E42

Combustion Bay One

CBOne.at

CBOne specialises in R&D for gas turbine combustion. Visit our booth and discuss with us your needs in combustion. Expertise, design of special parts performing under high thermal and mechanical strain, full combustor solutions, modelling, instrumentation and testing. Discover our unique technologies, such as the ultra-compact and low emission MOeBIUS combustor (paper with TUGraz), and our advanced AI-supported combustion monitoring (paper with FH Joanneum).

BOOTH E66

Combustion Science & Engineering, Inc.

csefire.com

For more than 25 years, Combustion Science & Engineering, Inc. has been dedicated to the study, advancement, and application of combustion and fire sciences. Combining a wealth of knowledge and experience, from the private to public sector, from academia to industry, CSE's team offers exceptional technical leadership, and intelligent solutions. Areas of expertise include: Combustion and Fire Protection Engineering Consulting and R&D; Combustor Design; Fire Protection Hazard Analysis

BOOTH D27

COMSOL Srl

comsol.com

COMSOL is a global provider of simulation software for product design, engineering, and research in technical enterprises, labs, and universities. COMSOL Multiphysics® is an integrated environment for creating physics-based models and simulation applications.

BOOTH A40

Concepts NREC

Concepts NREC
Experts in Turbomachinery

conceptsnrec.com

Concepts NREC is the only independent company in the world with end-to-end capabilities to take turbomachinery products from concept to reality. For more than 65 years, Concepts NREC has been at the forefront of turbomachinery design and innovation, providing engineering services, design software, CAM software, precision manufacturing, assembly, testing, training, and installation. Our mission is to provide the cutting-edge turbomachinery products, tools, and solutions the world needs for a sustainable future.

BOOTH A42

Convergent Science GmbH

convergecfd.com/

An innovative, rapidly expanding computational fluid dynamics (CFD) company. Our flagship product, CONVERGE, is a revolutionary CFD software with truly autonomous meshing capabilities that eliminate the grid generation bottleneck from the simulation.

BOOTH D41

Cross Manufacturing

crossmanufacturing.com/

Specializing in the design and manufacture of wrought alloy products, combining technology with innovation to achieve the highest quality. Producing advanced high performance seals, retaining rings, brush seals and other products.

BOOTH D47

Dalian Windtuner Technology Co., Ltd

WINDTUNER
— 温特纳 —

windtunermeasure.com/index.html

Dalian Windtuner Technology Co., Ltd. is focusing on the research and application of flow field measurement and control systems, serving as a provider of comprehensive flow field measurement and control solutions for multiple fields.

BOOTH C38

datatel Telemetry

datatel-telemetry.de

datatel provides a wide range of wireless telemetry solutions for testing of rotor components, eg. in aero engines and industrial turbomachinery, gas and steam turbines, turbo pumps, CF compressors and turbochargers, bearing and seal test rigs etc.

BOOTH C51

e+a Elektromaschinen und Antriebe AG

eunda.ch

Swiss-quality motor components (stators and rotors) for your direct-driven compressor or expander applications. With over 45 years of experience in high-speed motor technology, we offer a broad portfolio of proven designs across diverse applications and operating environments—including pressurized systems, liquid immersion, and other harsh conditions.

BOOTH D75

Energy & Turbomachinery Network

etn.global/

Energy & Turbomachinery Network (abbrev. ETN Global) is a non-profit membership association bringing together the entire value chain of the gas turbine technology. Through cooperative efforts and by initiating common activities and projects, ETN Global encourages and facilitates information exchange and cooperation to accelerate research, development, demonstration, and deployment of safe, secure, affordable and dispatchable carbon-neutral energy solutions.

BOOTH A75

ENOGIA

enogia.com

ENOGIA is a French deep-tech company pioneering micro-turbomachinery solutions for the energy transition. Our patented technologies combine compactness, light weight, and high performance to unlock new possibilities in renewable energy, hydrogen mobility, and aerospace. We help industry players improve efficiency, reduce emissions, and accelerate the shift toward sustainable energy systems.

BOOTH E68

Ergon Research

ergonresearch.it/

Ergon Research is a consulting and research firm operating in the mechanical, energy and informatics engineering fields. The mission of the company is the supply of specialized services for the development and design of innovative products. Our skilld experience in aero-thermodynamics permit to offer fast and cost effective solutions to many of our customers' needs.

BOOTH D33

ErTeMes GmbH

ertemes.com

ErTeMes GmbH is a measurement technology systems provider. We view measurement technology not as individual components, but as an integrated system. We develop measurement solutions that include integration with your existing system. We are also happy to integrate your existing, proven measurement technology.

BOOTH E30

FINEWORK HUNAN NEW ENERGY TECHNOLOGY CO,ltd

shfinework.com

Finework, a global leading supplier of wind turbine fastener solutions and other harsh application solution in aero engines, gas turbine, O&G Etc, public listed, with 2,500 employees, 200,000 square meters across multiple locations, including a 45,000-square-meter site in Vietnam.

BOOTH D53

Flame Spray SpA

flamespray.org

Established in 1969, Flame Spray was the first Italian job shop to actively promote Thermal Spray coatings, and many innovations since. Today, the company is an international benchmark for applications in these markets

BOOTH A32

Flownex Global Ltd.

flownex.com

Flownex® SE is a state of the art 1D network tool used by turbomachinery engineers for combustion chamber, SAS and lubrication system design and analysis.

BOOTH B27

FlowThermoLab

flowthermolab.com

Flowthermolab is a computational engineering platform enabling advanced simulation for turbomachinery and propulsion systems. We support startups and enterprises with scalable cloud HPC infrastructure, specialized CFD software solutions, and expert training to accelerate innovation, optimize performance, and streamline engineering workflows.

BOOTH D38

FOGALE Sensors

fogale.com/turbomachinery/

Fogale Sensors is a world leader in the procurement, installation and maintenance of clearance and vibration measurement systems for gas turbine blades and shaft monitoring for aerospace and power applications.

BOOTH C59

Franke Industrie AG

frankeindustries.com

WHEN PERFORMANCE MATTERS - When it comes to fabricated and machined components, Franke Industries is your reliable partner within the Energy, Aerospace, Space and other specialized industries. With experience since 1950, we inventively support your projects from the very first concept to the engine-ready component. We are the expert for hot gas path parts, components and subassemblies in stainless steel, heat-resistant nickel and cobalt based alloys, titanium in partnership with market leaders.

BOOTH D32

Fraunhofer IPT

ipt.fraunhofer.de/en/industries/aviation

The Fraunhofer IPT combines expertise from all areas of production technology to tackle challenges in aerospace and stationary turbomachinery. Our R&D services range from process design and prototype manufacturing of individual components to comprehensive manufacturing concepts. We develop processes, products, and concepts up to high Technology Readiness Levels (TRL), leveraging a state-of-the-art machine park to deliver innovative solutions tailored to industry needs.

BOOTH D62

Fraunhofer IWS

iws.fraunhofer.de

Fraunhofer IWS develops complex system solutions in laser and materials technology. At Fraunhofer IWS, we see ourselves as drivers of innovation, developing solutions with laser applications, functionalized surfaces, and material and process innovations – from easily integrated individual solutions and cost-efficient solutions for medium-sized businesses to industrially viable complete solutions.

BOOTH B28

FRIENDSHIP SYSTEMS AG

CAESES.com

FRIENDSHIP SYSTEMS is a leading software provider in simulation- and data-driven shape optimization of turbomachinery. Our product CAESES is an integration and automation platform that includes simulation-ready variable CAD, optimization algorithms, and post-processing. Customers use CAESES together with their simulation tool (most often CFD) to design and develop better products, faster, and at lower cost.

BOOTH D29

G+L innotec GmbH

gl-innotec.com

G+L innotec, an R&D service provider, focuses on Media Gap Motors (MGM) for various high-speed applications - perfectly suited for aerodynamic bearings. Starting with the electrification of turbochargers, G+L innotec now also develops applications for fuel cells and heating/cooling systems.

BOOTH D40

GadCap Technical Solutions Ltd.

capacisense.com

To prevent premature gas turbine failure, by blade crack or blade rubbing, and to optimise efficiency in operation, the CapaciSense system combines blade tip clearance and blade vibration monitoring using non-contact long-life captive capacitive probes able to withstand temperatures up to 1400°C/2550°F, the highest in the market. #Paybacks-at-the-tip

BOOTH D54

Gas Turbine Society of Japan

gtsj.or.jp/english/

GTSJ aims to promote science, technology and social development through information exchange, publication, technology research and other activities in the fields of all types of gas turbines, and energy conversion systems.

BOOTH D63

GasTurb GmbH

gasturb.com

GasTurb is a powerful and flexible program for calculating design and off-design performance of gas turbines. It simulates the most common types of both aircraft and power generation turbines with a user-friendly graphical interface.

BOOTH B36

GE Aerospace

geaerospace.com/

GE Aerospace is a world-leading provider o jet engines, components and integrated systems for commercial and military aircraft. GE Aerospace has a global service network to support these offerings. GE Aerospace will build upon our established 100+s of expertise, extensive partnerships, and commitment to customers. Together we will mobilize a new era of growth in aerospace and defense - one that balances the current needs of our industry with those of future generations, surpassing what is expected.

BOOTH E28

GE Vernova

gevernova.com/

Addressing the climate crisis is an urgent global priority and we take our responsibility seriously. Building on over 130 years of experience tackling the world's challenges, GE Vernova is uniquely positioned to help lead the energy transition by continuing to electrify the world while simultaneously working to decarbonize it. GE Vernova helps customers power economies and deliver electricity that is vital to health, safety, security, and improved quality of life. GE Vernova is headquartered in Cambridge, Massachusetts, U.S., with 85,000 employees across 140+ countries around the world. Together, we have The Energy to Change the World.

BOOTH D45

GEMINIS LATHES, S.A.

geminislathes.com/

GEMINIS is part of the MAHER HOLDING group, an industrial group formed by companies specialized in machine tools, which provides a portfolio of machining solutions oriented to the complex needs of the industry. Solutions based on robust and tested technology, designed with the user in mind for ease of use and flexibility.

BOOTH B29

GridPro

gridpro.com

GridPro has reinvented traditional structured grid generation, with automation in its veins. For 25 years, we have set standards on mesh quality by focusing on orthogonality, smoothness and precise control.

BOOTH A50

GROB Italy

grobgroup.com

GROB is a global, family-owned company with 100 years of experience in high-technology machine tools and production systems. A trusted partner to major automotive manufacturers and other industries, GROB operates production plants in Germany, the USA, Brazil, China, Italy, and India. Its portfolio includes 4- and 5-axis machining centers, automated production systems, assembly solutions, and technologies for e-motors, batteries, fuel cells, and digital manufacturing.

BOOTH A52

HarcoSemco LLC

https://harcosemco.com/

HarcoSemco leverages 65+ years of aerospace expertise to deliver custom sensors, thermocouples, cable harnesses, and certified MRO services. With a unique Engineer-to-Engineer collaboration model, we streamline project timelines and engineer tailored solutions for commercial, military, and space applications. Partner with us and experience the HarcoSemco difference.

BOOTH B48

Haynes International

haynesintl.com/

For more than 112 years, Haynes International has been a leading developer, manufacturer, and distributor of HAYNES(R) and HASTELLOY(R) high-performance alloys for high-temperature and corrosion applications. We own and operate worldwide service centersthat stock material and perform value-added services.

BOOTH E22

Hebei Guoyuan Electric Co., Ltd.

goinepower.com

Hebei Guoyuan Electric Co., Ltd (GOINE) was founded in 1998, which is a high-tech enterprise and specialized on the research & development and electrical maintenance services of the turbine core components for the energy industry, such as gas turbine, concentrated solar power, nuclear power and thermal power steam turbine, etc.

BOOTH D59

HEBEI XIN DYNAMIC TECH CO., LTD

hebeigrande.com

Manufacturer of precision casting and machining for aerospace and energy industries, specializing in turbojet engine components such as turbine wheels, impellers and guide vanes, using high-temperature alloys, vacuum casting and 5-axis machining.

BOOTH E40

Hengshi Honeycomb

hihoneycomb.com

HiHoneycomb is a digital marketing platform that helps businesses connect with their target audience through personalized campaigns and data-driven insights. With a user-friendly interface and advanced targeting options, businesses can effectively reach and engage potential customers, leading to increased brand awareness and sales.

BOOTH C50

Honeywell Aerospace

Honeywell

aerospace.honeywell.com

For more than a century, Honeywell Aerospace has designed and delivered the mechanical, electrical, and digital technologies that power safer, more efficient, and more sustainable aviation. From propulsion and power to avionics and control systems, our innovations operate across nearly every aircraft-advancing the future of flight through engineering excellence.

BOOTH A72

Huzhou Jiuli Yongxing High Performance Metals Co.

en.jiuli.com

Huzhou Jiuli Yongxing High Performance Metals Co., Ltd. is a joint venture subsidiary of Jiuli Hi-Tech Metals based in Huzhou, China, specializing in the R&D and production of high-performance materials

BOOTH C49

IFTA Ingenieurbuero fuer Thermoakustik

IFTA

ifta.com/en/

Since the foundation in 1996, IFTA has been an agile and innovative partner of worldwide companies from industry, medium-sized businesses and research institutions. The main focus is on the measurement and di-agnosis of complex, dangerous vibrations in combustion systems and rotating machinery from engines to gas and steam turbines.

BOOTH D50

IHI Bernex AG

ihi-bernex.com/en/

Since their introduction in the 1970s, Bernex CVD systems have proven their reliability in hundreds of installations, providing hard, wear-resistant coatings for customers worldwide.

BOOTH B33

ILT Tecnologie

ilttecnologie.eu/

ILT Tecnologie manufactures combustion chambers, transition pieces, and hot components for turbomachinery, specializing in superalloy sheet metal. We collaborate with partners to develop high-fidelity prototypes for energy markets and support global testing of gas turbine parts. Our in-house team provides full repair services for hot components. ILT meets OEM specifications and also applies its expertise to turbine engines in the aviation industry, ensuring high-performance solutions.

BOOTH D30

Institute of Turbomachinery and Fluid Dynamics TFD

tfd.uni-hannover.de/de/

The Institute of Turbomachinery and Fluid Dynamics at Leibniz Universität Hannover is a prestigious research and educational institution focused onthe study and development of advanced technologies in the field of fluid dynamics and turbomachinery. Theinstitute's primary research areas include the analysis and optimization of turbomachinery components such as compressors, turbines, and pumps, as well as the exploration of fluid mechanics principles in various industrial applications.

BOOTH B23

IPETRONIK GmbH & Co. KG

ipetronik.com/en/

IPETRONIK's highly precise measurement technology, rugged DAQ and recorders are used for engine test cells, flight tests and new propulsion system tests under extreme climate conditions. For hybrid-electric engines, jet engines, gas turbines, flight test instrumentation (FTI), thermal vacuum test.

BOOTH B50

Kingsbury, Inc.

kingsbury.com/

At Kingsbury, we specialize in manufacturing advanced hydrodynamic, and fluid-film thrust and journal bearings designed to optimize performance in the most demanding environments. From power generation and marine propulsion systems to industrial manufacturing and beyond, our solutions are trusted to deliver unmatched durability, efficiency, and reliability.

BOOTH D73

Kistler Instrumente AG

kistler.com

Kistler is the global market leader for dynamic pressure, force, torque and acceleration measurement technology. Cutting-edge technologies provide the basis for Kistler's modular solutions. Customers in industry and scientific research benefit from Kistler's experience as a development partner and its unique sensor technology, enabling them to optimize their products and processes so as to secure sustainable competitive edge.

BOOTH C60

Kulite Semiconductor Products, Inc.

kulite.com

Globally recognized as the leading name in transducer technology, Kulite Semiconductor Products, Inc. maintains its edge with vigilant research, ingenious designs and forward-thinking minds. With over 400 patents, Kulite has developed high-performance, state-of-the-art custom and stock products, including transducers for extreme and harsh environmental conditions in myriad fields and industries around the world including aerospace, automotive, military, marine, process control and more.

BOOTH D31

Laser Thermal Analysis

laserthermal.com

Laser Thermal is a precision instrumentation company. Our thermal analysis tools (TOPS and FASTR) address longstanding gaps in the market: accurate, high-throughput, and user-friendly measurements of thermal conductivity, thermal resistance, and volumetric heat capacity. We've eliminated the technical and operational barriers of legacy techniques, providing precise measurements over a wide range of length scales. We also offer contract testing laboratory services.

BOOTH A43

LG Tech-Link Global, LLC

lgtechlinkglobal.com

Accurate, cost effective, leadless, micro-sized temperature measurement technique for validation and verification activities in rig or real engine conditions. Flexible capability supports dedicated, cyclical or long duration testing. Max metal temperature and gradient temperature measurements.

BOOTH E50

Main-Metall International AG

main-metall.com

"On the move for 100 years Main-Metall is a developer, producer and supplier of a wide range of plain bearings and guiding elements for the mechanical engineering and plant manufacturing industries. Internally developed products and manufacturing processes based on research and technical know-how have made us an eagerly sought after business partner in the global market. Expert advice, customised business solutions and unique design, complement our comprehensive service package."

BOOTH D26

MANNER Sensortelemetrie GmbH

sensortelemetrie.de/

The core competencies of MANNER Sensortelemetrie GmbH are customer and application-specific measurement solutions as well as series applications on rotating and moving parts, especially when high requirements are placed on process engineering and meament data quality. Our patented sensor telemetry method guarantees reliable transmission of precise measurement data via non-contact induction and radio technology, even under the most difficult environmental conditions.

BOOTH D36

MATinspired B.V.

matinspired.com

MATinspired B.V. develops and supplies test kits that allow companies to carry out their own material testing. Our MATinspired TK11® Chromium'6 Detection Test Kits are very useful for industries where metals are exposed to high temperatures, such as turbo-engine parts. Afterwards our TK20 Chromium-6 Neutralizer can be used to neutralize and remove chromium-6 in surface contaminations on metals. Our products provide fast, reliable, and user-friendly on-site results to ensure a safe working environment.

PUB BINS

Mechanical Engineering Magazine

asme.org/membership/mechanical-engineering-magazine

Mechanical Engineering® is the award-winning flagship publication of ASME.

BOOTH B52

Mee Industries Inc.

meefog.com

MeeFog systems are high-pressure water atomizers that produce a fog of very small droplets which quickly evaporate to cool gas turbine inlet air. MeeFog systems can produce a power boost of 20% or more. Mee Industries has more than 30-years' experience with more than 1,100 system in operation today.

BOOTH D35

Metalvar New SRL

metalvarnew.com

Metalvar New Srl offers its customers over 30 years of experience, research and studies in metal surface treatment.

BOOTH B59

Miba Industrial Bearings Germany

miba.com/en/product-areas/industrial-bearings

Miba Industrial Bearings produces hydrodynamic bearings and labyrinth seals for use in critical rotating equipment, such as turbines, compressors, generators, motors, and industrial pumps. Our fluid film bearings are used in power generation as well as in the oil and gas industry and the petrochemical industry.

BOOTH E36

Micromach GmbH

micromach.de/

At MICROMACH, we are pioneers in the field of ultrafast laser micromachining, offering cutting-edge solutions for high-precision drilling, etching, and microstructuring of advanced materials. With over a decade of experience and continuous technologicalinnovation, we deliver unparalleled accuracy, reliability, and flexibility for the most demanding applications across aerospace, electronics, medical devices, and more.

BOOTH B30

MIT Gas Turbine Laboratory

gas-turbine-lab.mit.edu

The mission of the MIT Gas Turbine Laboratory is to advance the state-of-the art in aerospace power and propulsion by creating impactful solutions important to society with emphasis on innovative, novel, and transformative approaches.

BOOTH B69

MITIS

mitis.be

MITIS develops advanced turbomachinery solutions for methane abatement, energy efficiency, and distributed power generation — from concept and simulation to prototyping, testing, and industrial deployment.

BOOTH C40

MMP Technology/ BINC Industries SAS

mmptechnology.com

MicroTek Finishing's Micro-Machining Process (MMP) is the only surface finishing technology of its kind in the world. Whether your goal is a specific reduction in surface roughness (i.e., an engineered surface) or a highly consistent aesthetic result (i.e., a mirror-like finish), MMP produces perfectly controlled surface states through an industrial process that is both repeatable and traceable across a wide range of materials. MicroTek Finishing's MMP is unique in its ability to selectively remove specific components of roughness evenly across the entire surface of the part. Please feel free to contact us to discuss your Advanced Superfinishing needs.

BOOTH E20

MTL Precision

mtlprecision.com

MTL Precision reduces cycle times and increases yield for turbine blade manufacturers. Our high-speed metrology systems inspect turbine blades as fast as 60-seconds, while our robotic automation cells grind, polish, and inspect turbine blade airfoils and edges in 25-minutes - all at 7µm accuracy.The fully automated reporting, simple user interfaces, and zero programming requirements of MTL Precision systems have saved turbine manufacturers $1.2MM in annual savings.

BOOTH D58

MTU Aero Engines AG

mtu.de/engines/services/brush-seals/

Thanks to their unique manufacturing process MTU brush seals are highly efficient and very easy to install. They clearly outperform conventional sealing systems, such as labyrinth seals: MTU brush seals reduce leakages by up to 90 percent thus enhancingthe efficiency of engines or gas turbines and help markedly lower operating costs.

BOOTH B38

National Aeronautics and Space Administration

nasa.gov/

NASA Aeronautics is engaging with industry, academia, and other agencies to advance turbine engine technologies to meet the extreme challenge of aviation decarbonization.

BOOTH D49

Non-Contact Technologies, LLC

noncontact-tech.com

Our ownership group contains internationally recognized leaders in tip timing, data acquisition, vibration analysis, and system integration. With a combined 75 years experience, we have a proven track record of providing complete tip timing systems and services to a variety of customers, including the United States Air Force. We look forward to sharing our experience with you.

BOOTH D42

North Wind Systems

north-wind.com

North Wind is an industry leader in designing, manufacturing, and testing complex aerospace hardware for ground and flight test applications. We leverage our vertically integrated capabilities to provide RDT&E support to the flight community. As an organization, our team collaborates closely with our customers to provide top-tier service through every stage of technology development and testing.

BOOTH E62

Northwestern Polytechnical University

nwpu.edu.cn

Northwestern Polytechnical University is a comprehensive university featuring education and research in the area of aerospace and marine science and technology. The university is located in the historic city of Xi'an, which is at the geographic center of China.

BOOTH D44

Notre Dame Power and Propulsion

powerpropulsion.nd.edu/

A research and development organization focused on large-scale, high-energy, high-complexity testing and leading-edge computational and analysis capabilities to develop advanced technologies for conventional and high Mach air-breathing propulsion, energy generation, advanced thermal management, and energy storage solutions.

BOOTH D51

nTop and nTopology Inc, dba as nTop

ntop.com/

Engineering teams face an impossible reality: deliver more complex products faster, with fewer experts, and zero tolerance for failure. nTop changes how engineering gets done. Our technology collapses months of iteration into hours, letting teams explore thousands of variants instead of settling for the first option.

BOOTH A53

Oklahoma State University

oaire.okstate.edu

The Oklahoma Aerospace Institute for Research and Education leads global aerospace innovation, testing cutting-edge technology and advancing exploration. Driven by visionary engineers and researchers, it propels us into not just a golden age of aerospace but an orange one.

BOOTH E48

Optomet GmbH

optomet.com

Optomet manufactures fully digital laser vibrometry systems and integrated solutions for vibration, acoustics, and NVH analysis. As the only provider combining non-contact laser Doppler vibrometry with traditional sensor technology, Optomet creates scalable, modular measurement systems from single-channel to multi-channel, 3D, or full-body setups. SMART-LAB 3D provides a unified platform for data acquisition, analysis, and simulation or digital twin validation.

BOOTH C30

OROS Digital

oros.com/

OROS designs and manufactures noise and vibration testing systems (instruments and software) for more than 35 years, meeting the requirements and expectations of automotive, aerospace, marine energy & process, manufacturing and automation industries.

BOOTH C68

PBS GROUP

www.pbs.cz

PBS GROUP, a manufacturer of aerospace technology, is synonymous with innovation in the field of high-precision engineering. PBS is a renowned producer of jet engines. With its main production facility located in Velka Bites, and growing manufacturing capacities in the United States, the company has become a major global player in both defence and civil technologies.

BOOTH B32

PCA Engineers Limited

pcaeng.co.uk

PCA Engineers Limited is a UK consultancy specialist in aero-mechanical design of turbomachinery and the supply of engineering software. Experienced in radial and axial flow technologies, PCA has supported many of the world's leading manufacturers for over 30 years.

BOOTH D56

Piezocryst Advanced Sensorics GmbH

piezocryst.com/

Piezocryst is a leading specialist in piezoelectric sensors for direct measurements in gas turbine combustion chambers, eliminating the need for infinite tubes, stand-off tubes, or other mitigation concepts. Our high-temperature pressure sensors operate reliably inside combustors, enabling accurate, real-time measurement of dynamic pressure and combustion phenomena.

BOOTH E26

Polytec GmbH

polytec.com/en/vibrometry

The innovative high-tech company Polytec has been developing and producing optical metrology solutions for research and industry for more than 50 years. This includes systems for vibration measurement, surface characterization, length and velocity measurement, process analytics and optical systems.

BOOTH D34

Präwest Präzisionswerkstätten GmbH & Co. KG.

praewest.com

24 hours a day, 365 days a year, we are meeting the challenges of our customers in our workshop with its ultra-modern machine park. A relationship of mutual trust has grown between ourselves and our customers based on decades of successful cooperation.

BOOTH E46

Proterial Europe GmbH

proterial.com/e/

PROTERIAL provides advanced material & forging solutions for aerospace & energy turbomachinery. From nickel-based superalloy billets to critical forged components, as turbine wheels, shafts, disks & compressor cases, our technologies support high-efficiency systems & reduced environmental impact. With major production bases in Japan - Yasugi Works, Okegawa Works and Japan Aeroforge - and forging capacities up to 50,000 tons, we enable reliable solutions for next-generation turbine applications.

BOOTH C29

RH Technologies, LLC

r-h-t.com/

RH Technologies (RHT) develops advanced measurement diagnostics for aerodynamic testing. Our flagship Self-Aligned Focusing Schlieren (SAFS) system delivers near-planar density-gradient imaging with fast setup, vibration resistance, and full customization. We support wind tunnel, propulsion, and combustion research with systems, consulting, and training.

BOOTH B53

Rigaku Corporation

rigaku.com

Rigaku offers a diverse range of products, leveraging over 70 years of experience to enhance scientific and engineering capabilities. They provide X-ray metrology tools for semiconductor R&D and manufacturing, solutions for crystallography, and XRF spectrometers for elemental analysis in industries like mining and metallurgy.

BOOTH E32

Saint-Gobain Coating Solutions

coatingsolutions.saint-gobain.com/

Saint'Gobain Coating Solutions is a global leader in advanced ceramic materials for industrial gas turbines and aircraft engines, trusted by OEMs worldwide. We supply YSZ thermal'spray powders in all key morphologies (A&S, F&C, HOSP) as well as EB'PVD ingots for high'performance TBCs. As these materials become increasingly difficult to source, we strive to ensure reliability and availability.

BOOTH D46

Scanivalve

scanivalve.com

Scanivalve's line of Ethernet pressure and temperature measurement equipment serve applications in aerospace, power generation, turbomachinery, automation, process control, wind turbines, wind tunnels and more. Let us use our years of experience and innovation to meet your physical measurement requirements.

BOOTH A31

Score Energy Ltd

score-group.com

Score is a global provider of future-focused advanced engineering technology services aligned to key global markets
We combine our solutions, state-of-the-art facilities, cutting-edge equipment and a proactive approach to maintenance and servicing to ensure your operations run smoothly, minimising disruption and maximising efficiency. Our commitment to integrity and excellence means with Score you're in safe hands.

BOOTH D61

Sensor Coating Systems Limited

sensorcoatings.com

Advanced heat transfer diagnostic: SCS provides advanced thermal mapping, digitizing thousands of temperature data points on mission-critical components. The thermal history technology measures a range of 150°C - 1,600°C +/ 300°F -2,900°F+, with increased capabilities enabling faster product delivery.

BOOTH D60

Sensorade

SENSORADE

sensorade.eu/

SENSORADE is specialized in ultra-miniaturized pressure sensors for harsh environments. This unique technology served the Wind Tunnel and Testing Engineering community. SENSORADE is the only OEM offering the smallest (1.2mm) sensor with the highest performance in the world.

BOOTH C52

Sentek Instrument LLC

sentekinstrument.com

NovaPTTM-E is the world's highest temperature pressure sensor (1500° C or 2732° F). This passively operated sensor permits remote fiber optic signal transmission. The breakthrough product provides an ideal solution for monitoring of gas turbines, nuclear reactors and chemical processing systems.

BOOTH C28

SENTES-BIR

sentes-bir.com

Sentes-BIR is manufacturer of Brazing Alloys, Fluxes, Brazing Pastes, Thermal Spray Powders and Additive Manufacturing Powders.

BOOTH A46

Sesta Lab

sestalab.com/

Sesta Lab is an industrial area to test combustion system for gas turbine. The test size is between 1MW to 100MW in particular conditions. Sesta Lab is leader in fuel flex thanks to syngas systems, hydrogen, and many others. One of our test cell has optical analysis instrumentations.

BOOTH A70

Shenzhen Wedge Aviation Technology Co., Ltd.

wedgehk.com.cn/?lang=en

Wedge Aviation Technology Co started in 2011, it's a leading R&D institute and manufacturer of gas turbine blade/vanes/ master super alloy/powder and service provider in Shenzhen, with multiple R&D centers and manufacturing sites, We are able to offer blades/vanes for 2MW, 6MW, 15WM, 16MW, 25MW, 30MW, 33MW,40MW,50MW, 300MW, material varies K452(CM104), K444(CM88),K452(CM104), N5,GTD111DS, K465, CMSX-4, MAR M247DS/ IN 792DS, can be SX, DS, Equiaxed.

BOOTH E56

Siemens Energy

siemens-energy.com

We support companies and countries to reduce emissions across the energy landscape – for a more reliable, affordable and sustainable energy system.

BOOTH D70

Siemens Digital Industries Software

siemens.com

Siemens Digital Industries Software helps organizations digitally transform using software, hardware and services from the Siemens Xcelerator business platform. Siemens' software and the comprehensive digital twin enable companies to optimize their design, engineering and manufacturing processes and accelerate transformation.

BOOTH B58

SimScale

simscale.com

SimScale is the world's first AI-native cloud platform for engineering simulation. Trusted by 800,000+ users, it enables engineers to explore thousands of design decisions in seconds. By combining Engineering AI with CFD, FEA, electromagnetic, and thermal simulation in one cloud-native platform, SimScale helps teams innovate faster and engineer the irreplaceable. Learn more at www.simscale.com

BOOTH A47

SoftInWay Inc.

softinway.com

SoftInWay is an international R&D engineering company specializing in the development of clean, efficient, reliable turbomachinery & propulsion systems. SoftInWay supports its customers through its integrated & automated software platform, AxSTREAM ® for all steps in the turbomachinery design, redesign, analysis, & optimization process. We also offer a number of engineering services & educational courses. SoftInWay is ISO 9001:2015 & AS9100:2016 certified and supporting over 750+ global customers.

BOOTH B55

SpinDrive

spindrive.fi

SpinDrive specializes in making Active Magnetic Bearing (AMB) technology easy and affordable, providing efficient, reliable, and oil-free solutions to advance industrial sustainability.

BOOTH A73

SPM Polishing System

SPM-POLISH.COM

SPM designs and manufactures advanced super-finishing machines that improve surface quality, reduce friction and enhance performance of high-precision components.

BOOTH C72

Swirl Screens

whittle.eng.cam.ac.uk/swirl-screens/

Swirl screens are complete flow conditioning devices for wind tunnel or rotating turbomachinery experiments. We design, stress and manufacture screens to match your target flow distributions, successfully replicating realistic flow distortions on ground tests.

BOOTH D22

Tecplot, Inc.

tecplot.com

Tecplot, Inc. is the leading post-processing software developer in CFD data visualization. Tecplot post-processing tools for CFD, other simulations and experimental data help you discover, analyze and communicate results. Tecplot software differs from other visualization tools in that it is easy to learn and use, offers broader capabilities, and produces better-quality images and output."

BOOTH B42

TEES - Turbomachinery Laboratory

tps.tamu.edu/

The Turbomachinery and Pump Symposia (TPS) serves as the premier training and networking opportunity for professionals in both pump and turbomachinery industries. TPS 2026 will be held at the George R. Brown Convention Center in Houston, Texas. The annual event combines a world-class program with an international exhibit hall. Each year the event attracts more than 4,500 people and 350 exhibiting companies from 48 countries.

BOOTH B54

TEK4

TEK4.co.uk

At TEK4, we design and manufacture advanced Fast Hole Drill (FHD) EDM machines for the accurate and efficient drilling of cooling holes in aerospace and industrial gas turbine (IGT) parts — including blades, vanes, and segments.

BOOTH C53

TEMA ENERGY srl

tema-energy.it

TEMA Energy is an Italian Company specialized in manufacturing BURNERS & COMBUSTORS for Gas Turbines.

BOOTH C73

Thermoflow Inc.

thermoflow.com/

Developer of a comprehensive line of software tools for the design, simulation and cost estimation of GT/GTCC plants (incl. GT-Database), and all types of thermal and renewable power systems, hybrid systems (renewables+thermal/GT/GTCC), energy storages, Power-to-X systems, H2-production, Carbon Capture and Storage, and much more.

BOOTH A48

Torquemeters Ltd.

torquemeters.com/

Pioneers in test driveline development, Torquemeters is a long-established company, specialising in the design and manufacture of high-performance power transmission and measurement systems, which are used by many of the world's leading aerospace & industrial turbomachinery companies and independent R&D organisations.

BOOTH D74

Total Materia AG

totalmateria.com

Total Materia AG provides a leading materials information platform with verified, referenced, and regularly updated data on over 500,000 metallic and non-metallic materials, supporting engineers with advanced tools for material selection, compliance assessment, and sustainability evaluation.

BOOTH A51

Turbocam International

turbocam.com

TURBOCAM specializes in manufacturing core turbomachinery flow path components for aviation, rocketry, automotive turbocharger, and power generation, offering bold and creative solutions to today's challenges.

BOOTH B46

Turbostream Ltd

turbostream-cfd.com

Ultra-fast multi-physics simulation suite.

BOOTH B49

Tutco SureHeat

tutcosureheat.com

TUTCO SureHeat electric heaters are engineered to meet the rigorous demands of high-temperature applications across industries. Trusted by leading OEMs and cutting-edge research facilities worldwide, our advanced heating solutions deliver precision, reliability, and performance where it matters most. From complex manufacturing processes to the most demanding laboratory environments, TUTCO SureHeat products set the standard for excellence.

BOOTH E60

Vectoflow, Inc

vectoflow.com

Vectoflow is a leading provider of high-precision, customized flow measurement solutions for turbomachinery applications. Utilizing advanced additive manufacturing techniques, we design and produce robust, aerodynamically optimized multi-hole probes andflow sensors tailored to the most demanding environments. Our innovative approach enables enhanced performance, rapid prototyping, and unmatched design flexibility. Visit us to explore how Vectoflow can optimize your flow measurement challenges.

BOOTH C70

VEM Sachsenwerk GmbH

vem-group.com/

The VEM companies are characterized by a culture of innovation, technical competence and a high level of engineering. Rich in experience in drive technology, we develop complete system solutions or individual components for you that ensure the added value of your systems and thus economic success.

BOOTH C71

Volcano Platforms Inc.

volcanoplatforms.com

Volcano Platforms Inc. is an early-stage startup developing breakthrough physics-based Computational Fluid Dynamics (CFD) technology. Our flagship software, Volcano ScaLES, enables the industrial use of Large Eddy Simulation (LES) in daily production byproviding automated, predictive, and cost-effective simulation tools. Key features include automated mesh generation, predictive algorithms, GPU acceleration, and rapid post-processing with integrated visualization and far-field acoustic propagation.

BOOTH C58

Wärtsilä The Bearing Centre

wartsila.com/

As world leaders in advanced white metal laser technology and with more than 50 years of experience, Wärtsilä can repair and upgrade any specifications of white metal bearings and pads for a vast range of industrial applications, using the most advanced technology in the industry. Our 100BOND technology is patented and registered.

BOOTH A49

Waukesha Bearings Corporation

waukbearing.com

Custom-Engineered Fluid Film & Magnetic Bearing Solutions for High-Performing Rotating Equipment.

BOOTH B56

WIKA Optical Sensing Ltd.

wika.com/en-gb/lp_oxsensis.WIKA

WIKA Optical Sensing has developed an optical solution for particularly harsh environments, where extremes of temperature or Electro-Magnetic Interference (EMI) may prevent the use of traditional electrical sensors. Our range of sensors offer solutionsacross various temperature ranges, both with dynamic and static pressure measurement capability, and the addition of temperature measurement within the same sensor head.

BOOTH D57

Winkelmann Elektromotoren GmbH Co. KG

w-winkelmann.com

WINKELMANN offers high-performance DC motors for industrial applications, featuring robust construction, flexible configurations, and long service life. Available in various protection classes, these motors are suitable for a wide range of uses, from standard operations to demanding industrial processes. Made in Germany Since 1921."

BOOTH C69

ZheJiang BHS Journal Bearing Co., LTD

bhsbearings.com

ZHEJIANG BHS JOURNAL BEARING CO., LTD. is a leading Chinese manufacturer of tilting pad journal and thrust bearings, specializing in the design, R&D, and production of hydrostatic and hydrodynamic slide bearings.

BOOTH C57

Zhejiang Sinmiao Power Technology Co.,Ltd

sinmiao.com

Sinmiao Power has a total construction area of approximately 56,000 square meters. We dedicated to the R&D, manufacturing, and service of critical precision parts for hot sections in global aerospace engines, gas turbines and large turbochargers. It strives to become a high-end manufacturing private enterprise in the field of superalloy precision casting, characterized by our rapidness, intelligence and digitization.

INDUSTRY TOUR

Avio Aero
a GE Aerospace company

Avio Aero

WEDNESDAY, JUNE 17 / 8:30 A.M. (4-4.5 HRS)

Via Gabrielli 3 Cameri 28062 (NO)

This will be an exclusive, high-value visit to a leading excellence center for additive manufacturing. Participants will have the opportunity to see cutting-edge additive technologies and industrial processes up close, understand their applications in the aerospace sector, and engage directly with site experts on technical challenges, operational solutions, and real case studies..

Capacity:

20

Transportation:

Transportation to and from the venue will be provided to registered attendees.

Registration:

Register by completing this form and submitting to the tour POC, Francesco Bertini, francesco.bertini@avioaero.com.

INDUSTRY TOUR

GVPM Politecnico

WEDNESDAY, JUNE 17, 2026 / 8:00 A.M. (2 HRS)

Via La Masa, 34 - 20156 Milano – Italy

The GVPM is a unique closed-circuit wind tunnel featuring a vertical layout with two test sections within the loop, one of which is among the largest boundary-layer wind tunnels in Europe. Following an introduction to the facility's layout and design, the tour will give attendees the opportunity to visit both test sections, where the main research activities conducted at the facility will be presented. An overview of the experimental research within the cross-disciplinary field of wind engineering will be provided, with particular emphasis on wind energy. Special focus will be placed on laboratory-scale testing of wind turbine models, considering both individual turbines and wind farm configurations, as well as fixed-bottom and floating systems. Further details about the facility and the associated research activities are available here.

Capacity:

40

Transportation:

Transportation to and from the venue will be provided to registered attendees.

Registration:

Register by completing this form and submitting it to the tour Point of Contact, Giacomo Persico (giacomo.persico@polimi.it).

*All forms must be completed and submitted no later than **Friday, May 29, 2026**.*

INDUSTRY TOUR

Ansaldo Energia

WEDNESDAY, JUNE 17, 2026 / 9:00 A.M. (4.75 HRS)

Via Emilia, 12/A, 26836 Montanaso Lombardo LO

The visit to the Tavazzano and Montanaso power plant will open with a welcome by EP and an introduction to the companies and the site. Highlights include the presentation of Ansaldo Energia's GT36 turbine, followed by a safety induction and distribution of PPE. The program will continue with a guided tour of the plant and conclude back in the meeting room for closing remarks.

For any questions or concerns, please contact Mrs. Priscilla Fiorentini (Ansaldo Energia, External Relation team) at priscilla.fiorentini@ansaldoenergia.com.

Capacity:

25

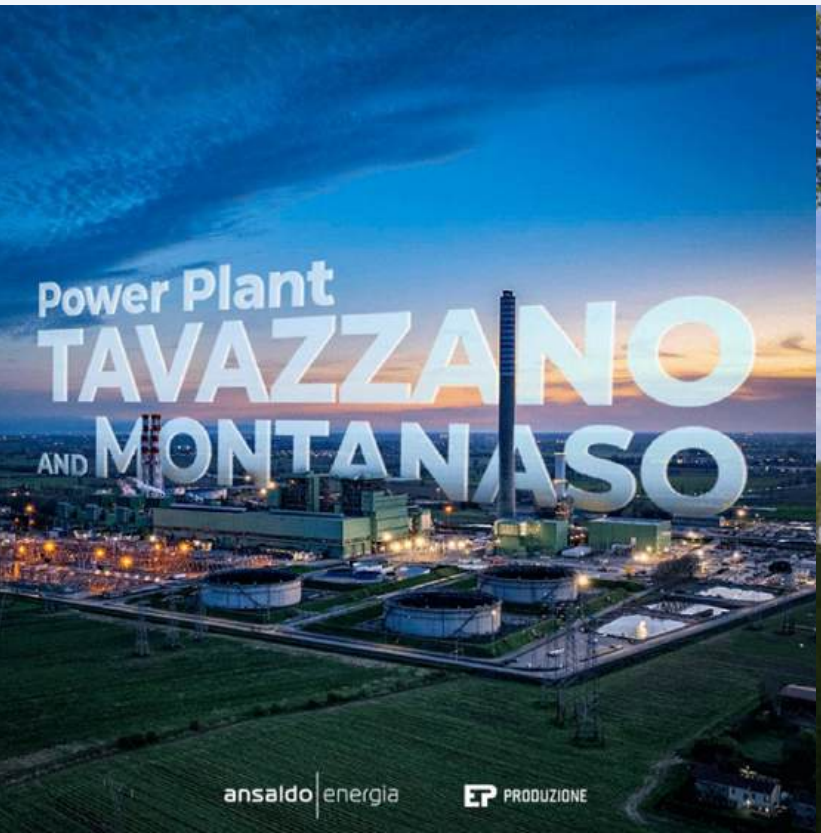
Transportation:

Transportation to and from the venue will be provided to registered attendees.

Note:

Mandatory safety induction must be performed via dedicated link available in the booking form.

A complimentary lunch will be offered at the end of the tour in the Power Plant Canteen, courtesy of EP Produzione.



Technical Committee Chairs

Aircraft Engine

Current Chair: Kurt Rouser
Current Vice Chair: K. Todd Lowe

Ceramics

Current Chair: Spencer Jeffs
Current Vice Chair: Jamesa Stokes

Coal, Biomass & Alternative Fuels

Current Chair: Angela Serra
Current Vice Chair: Marcel Otto
Incoming Chair: Marcel Otto
Incoming Vice Chair: Silvia Ravelli

Combustion, Fuels & Emissions

Current Chair: Jacqueline O'Connor
Current Vice Chair: Mirko Bothien

Controls, Diagnostics & Instrumentation

Current Chair: Dr. Lubomir A. Ribarov
Current Vice Chair: Craig R. Davison
Incoming Chair: Craig R. Davison
Incoming Vice Chair: Tamara (Tamy) Guimarães

Cycle Innovations

Current Chair: Alessandro Sorce
Current Vice Chair: Ioannis Roumeliotis

Education

Current Chair: Ioanna Aslanidou
Current Vice Chair: Prashant Khare
Incoming Chair: Prashant Khare
Incoming Vice Chair: David Gray

Electric Power

Current Chair: Richard Tomlinson
Current Vice Chair: Thomas Christiansen
Incoming Chair: Benjamin Emerson
Incoming Vice Chair: Bin Jou

Energy Storage Committee

Current Chair: David Sánchez
Current Vice Chair: Klaus Brun
Incoming Chair: Timothy Allison
Incoming Vice Chair: Marco Astolfi

Fans and Blowers

Current Chair: Massimo Masi
Current Vice Chair: Lorenzo Tieghi

Heat Transfer

Current Chair: Eric Ruggiero
Current Vice Chair: Stephen Lynch
Incoming Chair: Stephen Lynch
Incoming Vice Chair: James Rutledge

Industrial & Cogeneration

Current Chair: Rakesh Bhargava
Current Vice Chair: Mustapha Chaker

Manufacturing Materials & Metallurgy

Current Chair: Scott Keller
Current Vice Chair: Alex Bridges
Incoming Chair: Alex Bridges
Incoming Vice Chair: Yogiraj Pardhi

Microturbines, Turbochargers & Small Turbomachines

Current Chair: Mihai Mihaescu
Current Vice Chair: Jorge García Tíscar

Oil & Gas Applications

Current Chair: Michele Pinelli
Current Vice Chair: Anand Srinivasan

Steam Turbine

Current Chair: Kane Chandler
Current Vice Chair: Sebastian Schuster

Structures & Dynamics

Current Chair: Adolfo Delgado
Current Vice Chair: Theodore Brockett

Student Advisory

Current Chair: Janakiraman Thiyagarajan
Current Vice Chair: Michail Psaropoulos

Supercritical CO2

Current Chair: Renaud Le Pierres
Current Vice Chair: John Crane

Turbomachinery

Current Chair: Hamid Hazeby
Current Vice Chair: Lisa Brilliant

Wind Energy

Current Chair: Lorenzo Ferrari
Current Vice Chair: Stavros Vouros

Committee Meetings

Please refer to the ASME Conferences App for meeting room assignments.

Committee	Day	Time
Aircraft Engine	Thursday	6:00PM – 7:30PM
Ceramics	Wednesday	6:00PM – 7:30PM
Coal, Biomass & Alternative Fuels	Thursday	6:00PM – 7:30PM
Combustion, Fuels & Emissions	Tuesday	6:00PM – 7:30PM
Controls, Diagnostics & Instrumentation	Wednesday	6:00PM – 7:30PM
Cycle Innovations	Thursday	6:00PM – 7:30PM
Education	Wednesday	6:00PM – 7:00PM
Electric Power	Wednesday	6:00PM – 7:30PM
Energy Storage	Tuesday	6:00PM – 7:30PM
Fans and Blowers	Wednesday	6:00PM – 7:30PM
Heat Transfer	Wednesday	5:30PM – 7:00PM
Industrial & Cogeneration	Tuesday	6:00PM – 7:30PM
Manufacturing Materials & Metallurgy	Wednesday	6:00PM – 7:30PM
Microturbines, Turbochargers & Small Turbomachines	Wednesday	6:00PM – 7:30PM
Oil & Gas Applications	Thursday	6:00PM – 7:30PM
Steam Turbine	Wednesday	6:00PM – 7:30PM
Structures & Dynamics	Tuesday	6:00PM – 7:30PM
Student Advisory	Thursday	4:00PM – 5:30PM
Supercritical CO_2	Wednesday	6:00PM – 7:30PM
Turbomachinery	Tuesday	6:00PM – 7:30PM
Wind Energy	Thursday	6:00PM – 7:30PM

Track Organizers

Track 1: Aircraft Engine

Curtis Vedder, *Honeywell Aerospace*
Vasilis Gkoutzamanis, *Aristotle University of Thessaloniki*
Kurt Rouser, *Oklahoma State University*
Todd Lowe, *Virginia Tech University*

Track 2: Ceramics and Ceramic Composites

Spencer Jeffs, *Swansea University*
Jamesa Stokes, *NASA Glenn Research Center*

Track 3: Coal, Biomass, Hydrogen & Alternative Fuels

Angela Serra, *Baker Hughes*
Marcel Otto, *University of Central Florida*
Silvia Ravelli, *Università di Bergamo*

Track 4: Combustion, Fuels & Emissions

Bobby Noble, *EPRI*
Michael Duesing, *Ansaldo Energia*
Santosh Hemchandra, *IISc-Bangalore*
Jacqueline O'Connor, *The Pennsylvania State University*

Track 5: Controls, Diagnostics & Instrumentation

Lubomir Ribarov, *United States Merchant Marine Academy*
Craig Davison, *National Research Council, Canada*
Tamara Guimarães, *The Pennsylvania State University*

Track 6: Cycle Innovations

Alessandro Sorce, *University of Genoa*
Ioannis Roumeliotis, *Cranfield University*
James Braun, *North Carolina State University*

Track 7: Education

Ioanna Aslanidou, *Technical University of Denmark*
Prashant Khare, *University of Cincinnati*

Track 8: Electric Power

Ben Emerson, *Georgia Institute of Technology*
Bin Jou, *FM Global*
Rick Tomlinson, *Chevron*
Bobby Noble, *EPRI*
David Wu, *EPRI*
Tom Christiansen, *SPS*

Track 9: Energy Storage

David Sánchez, *University of Seville*
Klaus Brun, *Elliot Ebara Group*

Track 10: Fans and Blowers

Till Biedermann, *TH Nürnberg Georg Simon Ohm*
Massimo Masi, *University of Padova*
Zhiping Wang, *Morrison Products*

Track 11: Heat Transfer: Combustors

Robert Krewinkel, *TU Graz*
Cosimo Bianchini, *Ergon Research*
Carl Sangan, *University of Bath*
Lamyaa El-Gabry, *GE Aerospace*

Track 12: Heat Transfer: Film Cooling

Jay Rutledge, *AFIT*
Silvia Ravelli, *University of Bergamo*
Carl Sangan, *University of Bath*
Lamyaa El-Gabry, *GE Aerospace*

Track 13: Heat Transfer: General Interest/ Additive Manufacturing Impacts on Heat Transfer

Jeffrey Bons, *The Ohio State University*
Ardy Riahi, *Honeywell*
Carl Sangan, *University of Bath*
Lamyaa El-Gabry, *GE Aerospace*

Track 14: Heat Transfer: Internal Air Systems

Michael Barringer, *The Pennsylvania State University*
James Scobie, *University of Bath*
Carl Sangan, *University of Bath*
Lamyaa El-Gabry, *GE Aerospace*

Track 15: Heat Transfer: Internal Cooling

Sergio Lavagnoli, *von Karman Institute*
Hongzhou Xu, *Solar Turbines*
Carl Sangan, *University of Bath*
Lamyaa El-Gabry, *GE Aerospace*

Track 16: Heat Transfer: Tutorials

Drew Nix, *WVU*
Riccardo Da *Soghe, Solar Turbines*
Carl Sangan, *University of Bath*
Lamyaa El-Gabry, *GE Aerospace*

Track 17: Industrial & Cogeneration

Rakesh Bhargava, *Innovative Turbomachinery Technologies Corp*
Mustapha Chaker, *McDermott*

Track 18: Manufacturing Materials & Metallurgy

Scott Keller, *Doosan Turbomachinery Services*
Alex Bridges, *EPRI*

Track 19: Microturbines, Turbochargers & Small Turbomachines

Mihai Mihaescu, *KTH Royal Institute of Technology*
Jorge Garcia *Tiscar, Universitat Politècnica de València*

Track 20: Oil & Gas Applications

Michele Pinelli, *University of Ferrara*
Anand Srinivasan, *Solar Turbines*

Track 21: Steam Turbine

Kane Chandler, *Arabelle Solutions*
Sebastian Schuster, *Universität Duisburg-Essen*
Christian Siewert, *Siemens Energy*
Shigeki Senoo, *Mitsubishi Heavy Industries, LTD.*

Track 22: Structures and Dynamics: Aerodynamic Excitation & Damping

Yoon Choi, *GE Aerospace*

Track 23: Structures and Dynamics: Bearing & Seal Dynamics

Jürg Schiffman, *EPFL - Swiss Federal Technology Institute of Lausanne*

Track 24: Structures and Dynamics: Emerging Methods in Design, Engineering and Additive Manufacturing

Dipankar Dua, *Siemens-Energy, USA*

Track 25: Structures and Dynamics: Fatigue, Fracture & Life Prediction

Michael Krämer, *Technical University Darmstadt*

Track 26: Structures and Dynamics: Probabilistic Methods

Kai Kadau, *Siemens-Energy, USA*
Michael Enright, *SWR*
Liping Wang, *GE Aerospace, US*
Jeff Brown, *United States Air Force*

Track 27: Structures and Dynamics: Rotordynamics

Filippo Cangioli, *Waukesha Bearings, UK*

Track 28: Structures and Dynamics: Structural Mechanics, Vibration & Damping

Luigi Carassale, *University of Genova, Italy*

Track 29: Student Poster

Thiyagarajan Janakiraman, *KTH Royal Institute of Technology/Traton AB*
Marco Castaldi, *VKI, Belgium*

Track 30: Supercritical CO_2

Renaud Le *Pierres, Parker FES*
John Crane, *National Energy Technology Lab*

Track 31: Turbomachinery: Axial Flow Fan & Compressor Aerodynamics

Daniel Wilkin *II, GE Aerospace*

Track 32: Turbomachinery: Axial Flow Turbine Aerodynamics

Emil Göttlich, *Graz University of Technology*

Track 33: Turbomachinery: Deposition, Erosion, Fouling, and Icing

Sergio Lavagnoli, *von Karman Institute*

Track 34: Turbomachinery: Design Methods & CFD Modeling for Turbomachinery

Jeff Defoe, *University of Windsor*

Track 35: Turbomachinery: Ducts, Noise & Component Interactions

Amr Ali, *Pratt & Whitney*
Ricardo Blazquez, *Airbus SAS*
Mauro Carnevale, *Università di Bergamo*
Benjamin Darrenougue, *Airbus SAS*
Nicole Key, *University of Purdue*
Daniela Misul, *Politecnico di Torino*
Philippe Mogilka, *Airbus SAS*
Janos Vad, *Budapesti Műszaki és Gazdaságtudományi Egyetem*

Track 36: Turbomachinery: Multidisciplinary Design Approaches, Optimization, and Uncertainty Quantification

Marcus Meyer, *Rolls-Royce Deutschland*

Track 37: Turbomachinery: Radial Turbomachinery Aerodynamics

Bob Mischo, *MAN Energy Solutions*

Track 38: Turbomachinery: Turbomachinery General Interest

Lisa Brilliant, *Pratt & Whitney*

Track 39: Turbomachinery: Tutorials

Anna-Lisa Laufer, *GE Aerospace*

Track 40: Turbomachinery: Unsteady Flows in Turbomachinery

Alexander Hergt, *DLR*

Track 41: Wind Energy

Lorenzo Ferrari, *Università di Pisa*
Stavros Vouros, *Mälardalen University*
Valerio Francesco *Barnabei, Sapienza University of Rome*

Registration Information

Registration Information

Turbo Expo will be held at Allianz Mico, Milan, Italy June 15–19, 2026.

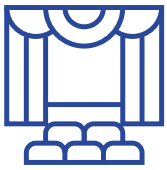
FULL CONFERENCE REGISTRATION INCLUDES:

Access to all conference sessions

including technical presentations, keynote sessions, panel discussions, tutorial of basics sessions, and award ceremonies

Admission to networking sessions

including the Welcome Reception, Student/Early Career Engineer Mixer & Exhibit Hall receptions



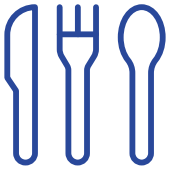
Admittance into the Turbo Expo exhibition hall

Tuesday, Wednesday and Thursday

Access to the Student Poster Session

Online access to all Turbo Expo 2026 final accepted papers

Opportunity to attend facility tours



Access to daily lunches (M-Thur)

Opportunity to register for the Celebrating Women in Turbomachinery Dinner

Conference Registration Pricing

MEMBER REGISTRATION

Registration Category	ADVANCE Until May 12	REGULAR May 13 - June 11	ONSITE June 12 - 19
Full Conference	€1,525	€1,725	€1,925
Full Conference-Student	€765	€865	€965
Life Member	€765	€865	€965
3 Day Conference	Not Offered	€1,260	€1,460

NON-MEMBER REGISTRATION

Registration Category	ADVANCE Until May 12	REGULAR May 13 - June 11	ONSITE June 12 - 19
Full Conference	€1,725	€1,925	€2,095
Full Conference-Student	€865	€965	€1,065
3 Day Conference	Not Offered	€1,360	€1,560

SPONSOR & EXHIBITOR REGISTRATION

Registration Category	ADVANCE Until May 12	REGULAR May 13 - June 11	ONSITE June 12 - 19
Exhibiting Company	€1,335	€1,535	€1,735
Platinum Sponsor Employee	€1,135	€1,335	€1,535
Additional Booth Personnel	€350	€350	€350

GROUP REGISTRATION

Registration Category	ADVANCE Until May 12	REGULAR May 13 - June 11	ONSITE June 12 - 19
Group 10-30	€1,410	Group Registrations not accepted after May 12	
Group 31-50	€1,350	Group Registrations not accepted after May 12	

Admittance

Full Payment is required to attend Turbo Expo. Badges will not be given to anyone with an outstanding payment..

Badge Pick-Up Information

Badges will not be mailed. All badges must be picked-up onsite. Photo identification is required for badge pick-up at the on-site registration desk. Full Payment is required to attend Turbo Expo. Badges will not be given to anyone with an outstanding payment.

Substitutions

Registrations may not be transferred or substituted at any time.

Complimentary Membership

Attendees who pay the Non-Member registration rate will be offered a complimentary 4-month ASME trial membership following the conference. ASME will be emailing eligible registrants and inviting them to join ASME within 90 days after the conference. For more information, visit the ASME Membership website.

How do I become a member of ASME?
asme.org/Membership/Join/

Cancellation/Refund Policy

- Cancellations received on or before May 15, 2026 will receive a full refund, less a €100 administrative fee.
- No refunds will be granted after May 15, 2026. **NO EXCEPTIONS**. No-shows will not be eligible for refunds.

CHILDCARE SERVICES

For those who need childcare services, ASME will reimburse up to a total of $250/per registered attendee for services incurred by a licensed service provider in Milan. This offering will be available from June 15 – 19, 2026, during the hours of days in which technical presentations are offered.

READ MORE ON THIS BENEFIT HERE

Additional Information

STUDENT REGISTRATION RATES

Student registration rates are only available to undergraduate and graduate students who are enrolled full-time and have not yet received their Ph.D. Post-docs may not register as students.

Persons who register at the Student Member or Student Non-Member rate will be required to submit current valid student identification to ASME. If the identification is not validated, the attendee will need to register in one of the non-student registration categories.

GROUP REGISTRATION

We are pleased to offer group registration options for organizations registering 10–30 or 31–50 participants. Group rates provide a streamlined registration process and cost savings for larger delegations.

Important: Group registrations must be arranged in advance and cannot be applied retroactively to individuals who have already registered independently. Please ensure your group is coordinated before any registrations are submitted, as we are unable to adjust or refund prior individual registrations to fit within a group package.

All group registrations must be paid in full by May 26, 2026 in order to be processed and confirmed.

COMPLIMENTARY MEMBERSHIP

Attendees who pay the Non-Member registration rate will be offered a complimentary 4-month ASME trial membership following the conference. ASME will contact eligible registrants and invite them to join ASME within 90 days after the conference. For more information, visit ASME Membership website.

LETTERS OF INVITATION

You will be able to request your Conference Letter of Invitation during the Registration process which will be sent as a PDF attachment via email. **Once your fee is paid in full, your letter will be sent**. If you require a hard copy invitation letter to be mailed to you, you may request and pay for a hard copy invitation letter during the registration process.

INSURANCE AND LIABILITY

Participation in Turbo Expo 2026 is at your own risk. Please make your own health and travel insurance arrangements.

PROFESSIONAL DEVELOPMENT HOURS (PDH)

A PDH Certificate will be emailed to you after the conference indicating the number of PDHs earned during the conference.

PHOTOS/VIDEOS/AUDIO RECORDINGS

Participants are reminded that material presented at ASME conferences is under the copyright of ASME. As a result, participants are prohibited from recording, screen-capturing, or photographing presentations in their entirety with the intent to distribute them to others.

Frequently Asked Questions

REGISTRATION

Why didn't I receive any tickets with my badge?

The tickets and/or products you purchased with your registration are encoded onto your badge. Please wear this badge to all Turbo Expo related events.

Registration Questions:

Refer to the registration desk onsite.

Do you have a list of registrants?

ASME does not share attendee lists.

Can I attend the Keynote Session?

The keynote session is open to all Turbo Expo badged registrants.

Can I pay cash onsite for the registration fees?

No. Payment must be made via credit card only. Cash and personal checks are not accepted.

Will I receive a receipt onsite for the fees paid?

You will recieve an email with your proof of puchase.

Can I visit the exposition?

Exposition entry is included for all attendees with a technical conference badge or an exhibitor badge. To purchase a badge on-site, visit the Registration Desk.

I lost my badge. What should I do?

Go to the registration counter and ask for another badge to be printed. Registrants must provide a proper ID.

TECHNICAL PROGRAM & AWARDS

Session and Schedule Details:

See complete session details in the Final Program or on the Conference App.

How can I access Conference Papers?

Conference papers are available online and can be viewed in the ASME Conferences App.

Where/when is my committee meeting?

Refer to the Conference App for the schedule.

What audiovisual equipment is in the meeting rooms?

Each room will have a laptop and microphone, and laser pointer. Authors must have their presentation on a flash drive.

Do I have to upload my presentation onto a central network before my session?

No. Presenters (authors, panelists, lecturers, tutorial instructors) should plan to use their flash drive presentations only on the laptop in the session room in which they will be presenting. Please arrive 15 to 30 minutes prior to your session to prepare your presentation.

Where do I pick up the Best Paper Awards?

If you are the designated leader of your committee or the technical committee chair, please pick up your committee's best paper awards at the Information Desk in Registration (be sure to sign them out). Best paper award winners should attend their technical committee meeting to receive their award. Awards MUST be picked up during Information Desk open hours. Please plan accordingly.

FREQUENTLY ASKED QUESTIONS

EXPOSITION

Can I take pictures in the exhibit hall?

If you are an exhibitor, you may take pictures of your own booth. Otherwise, there is no photography allowed in the hall without the permission of the exhibitor.

Where is my booth?

Refer to the Exhibit Directory in the Final Program.

When is the Expo open?

Exhibit Hall Hours are Tuesday and Wednesday from 12pm-6:30pm and Thursday from 10am-2:00pm.

Where are the Priority meetings for Turbo Expo 2027 exhibit space?

IGTI Exhibit Sales Office in the exhibit hall.

Where is the exhibitor service contractor desk?

GES is available in the exhibit hall.

CITY & VENUE

Is there parking at the Allianz MiCo?

Parking at Allianz MiCo in Milan is available via the on-site, paid Portello Parking Garage (located at Viale Scarampo/ Piazza Gino Valle). This garage is convenient, often accessible from highways A4/A8 without entering the ZTL C area. Limited paid street parking is available, but taking public transport is recommended due to limited spots during large events.

Is there a shuttle service between the Allianz MiCo and my hotel?

No. However, public transportation is readily available. Please visit https://event.asme.org/Turbo-Expo/Venue-Travel/Venue-Allianz-MiCo to learn more.

Is there any Wi-Fi access at the Allianz MiCo?

There is complimentary Wi-Fi at the Convention Center. The network name and password can be found in the ASME Conferences App.

Where can I purchase coffee or lunch?

There are scheduled coffee/tea breaks each morning and afternoon of the Conference. Lunch is included with all technical conference badges as well as exhibitor badges. There are also dining and drink options within and close to the Allianz MiCo. View a list of nearby services here: https://www.micomilano.it/Sites/MiCo/Download/AroundUs_en.pdf

What is a good resource for information on the city?

For more information on visiting the city, visit the YesMilano website. There are also some important details on the city available on the Turbo Expo website.

FREQUENTLY ASKED QUESTIONS

ATTENDEE SERVICES

Where are the first aid services?

For first aid assistance, contact an IGTI staff person or a security officer.

Is there a coat check/luggage check service available?

There is a complimentary luggage check available to conference attendees located in the registration area. No coat check service available. Please note that ASME is not responsible for lost or stolen property. Items left after conference hours will not be retrievable until the next open hours. Please visit the information desk for assistance.

Is there a dedicated space for nursing mothers?

Yes. The Mother's Room is located in the registration area. Please visit the information desk for assistance.

Is there a dedicated space for prayer?

Yes. The prayer room is located at Suite S8. There is a "Quiet Room" located on the Mezzanine level of the South Wing, just past registration.

How do I become a member of ASME?

http://www.asme.org/Membership/Join/

Will I be issued a PDH certificate?

Technical Conference delegates will receive an email by August with a certificate of their attendance (Professional Development Hours).

How do I get involved in an IGTI Committee?

If you are interested in getting involved with an IGTI Committee, attend the Technical Committee Meeting of your choice. IGTI Committee meetings are open to all.
The Technical Committee Meeting Schedule can be found in the Final Program, the Conference App, and the website.

Tutorials of Basics

Track 1: Aircraft Engine

The Basics of Aircraft Engine Thrust Management

Joachim Kurzke, Gas Turbine Performance Consultant

Basics of Turboshaft Engine Cycle Design and Optimization

Taylan Ercan, Kale Jet Engines

Using Open-Source Code for Gas Turbine Performance Modelling

Wilfried Visser, Delft University of Technology
Oscar Kogenhop, EPCOR B.V.

Track 1 / Track 39: Aircraft Engine/ Turbomachinery (joint tutorial)

Best Practices for Reactive Root Cause Analysis for Aircraft Engines and Turbines in the Context of a Potential Dispute

Richard Hollenbach, Exponent Scientific and Engineering Consulting
Joseph Tucker, Exponent
Adam Dershowitz, Exponenent
Daniel Getsinger, Exponent

Track 2: Ceramics and Ceramic Composites

SiC/SiC CMC Component Design: Conceptual Discussion of CMC Design & Integration

Jason Shapiro, GE Aerospace

Track 3: Coal, Biomass, Hydrogen & Alternative Fuels

Life Cycle Assessment (LCA) to Design Systems for Evolving Regulatory Framework

Angela Serra, Baker Hughes
Luca Lombardozzi, Baker Hughes
Luca Fantaccione, Baker Hughes
Rachele Orlandi, Baker Hughes

Introduction to Sustainable Aviation Fuel: Production, Testing, and Its Current and Future Perspectives from U.S.A., Europe, and Australasia

Francesco Di Sabatino, Southwest Research Institute
Gregor Gebel, Rolls-Royce
Alastair Hobday, Rolls-Royce

Challenges of Combustion Computational Fluid Dynamics for Industrial Gas Turbine Engines

Pierre Gauthier, Cranfield University

Hydrogen for Power Generation and Energy Storage

Alex Cho, Southwest Research Institute
Griffin Beck, Southwest Research Institute

Track 4: Combustion, Fuels & Emissions

Large Eddy Simulation for Reacting Flows

Santosh Hemchandra, Indian institute of science
Joseph Mathew, Indian institute of science

Tutorial of Basics: Combustion Dynamics Fundamentals

Benjamin Emerson, Georgia Tech
Vishal Acharya, Georgia Tech
Jacqueline O'Connor, Penn State University

Combustion Fundamentals

Michael Klassen, Combustion Science & Engineering, Inc.
Tim Lieuwen, Georgia Tech University

Combustion Dynamics in Gas Turbines – Phenomenon, Monitoring and Control

Thomas Steinbacher, IFTA

Track 5: Controls, Diagnostics & Instrumentation

Production Engines Flowpath Diagnosis

Syed J. Khalid, GE Aerospace

Empirical Methods of Modelling GTE Off-Design Operation, Control Mode Identification, and Event Analysis

Syed J. Khalid, GE Aerospace

Fundamentals of Gas Turbine Control System Architecture: From Maps to Full Dynamic Models

Hoang Nguyen Huy, Viettel Aerospace Institute
Hung Vu Xuan, Viettel Aerospace Institute
Lanh Chu Duy, Viettel Aerospace Institute
Minh Nguyen Phi, Viettel Aerospace Institute

Remote Monitoring Fundamentals for Turbomachinery Operations - From Sensors to Smart Analytics Across a Heterogenous Fleet

Francesco Gant, Everllence Schweiz, Hardstrasse
Filippo Guidi, Everllence Switzerland Ltd
Jérôme Leveque, Everllence Switzerland Ltd
Axel Fiedler, Everllence Switzerland Ltd

Turbomachinery Rotordynamic Vibration Analysis Data Presentation Formats to Gain Insight

Mel Maalouf, Baker Hughes

Track 6: Cycle Innovations

Rotating Detonation Combustion for Propulsion and Power Generation

Eric Bach, Purdue University
James Braun, North Carolina State University

Decarbonization Pathways for Power Plants: “Integration With Carbon Capture”

Majed Sammak, Carbon Capture System Integration Leader
Parag Kulkarni, Carbon Capture Solutions Technology Manager

Energy Storage Cycles at Power Plant Scale

Alberto Traverso, University of Genoa
John Gulen, Bechtel Corporation
Alessandro Ramaglia, Ansaldo Energia

Micro-Gas Turbine: Technological Advancements and Market Research

Antonio Escamilla Perejón, ETN Global
Giuseppe Tilocca, ETN Global

Track 7: Education

Effective Use of GenAI in the Classroom

David Gray, Virginia Tech
Ioanna Aslanidou, Technical University of Denmark

Creating a Pathway to Learning in Gas Turbine Engine Course Design

Kurt Rouser, Oklahoma State University

Track 8: Electric Power

“Numbers to Live By” or the Physics Behind the Energy Transition

Alessandro Ramaglia, Ansaldo Energia, Genova, Italy

Track 9: Energy Storage

Introduction to ASME PTC53-2022: Performance Test Code for Mechanical and Thermal Energy Storage Systems

William M. Conlon, Pintail Power LLC

Thermal Energy Storage for Industry and Power Generation: Mathematical Models for Simulation, Control and Optimization

Francesco Fornarelli, Dept. of Sciences of Agriculture, Food, Natural Resources and Engineering (DAFNE) University of Foggia
Francesco Rovense, Italian National Agency for New Technologies, Energy and Sustainable Economic Development (ENEA), Casaccia Research Centre
Adio Miliozzi, Italian National Agency for New Technologies, Energy and Sustainable Economic Development (ENEA), Casaccia Research Centre
Sergio Camporeale, Dept. of Mechanics, Mathematics and Management (DMMM) Polytechnic University of Bari

Overview of Long-Duration Energy Storage Technologies - Fundamentals to Demonstration

Natalie R. Smith, Southwest Research Institute
Joshua Schmitt, Southwest Research Institute
David Sanchez, Universidad de Sevilla

Track 10: Fans and Blowers

Industrial-AI in Fan Systems: State-of-the-Art, Trends, and the Path Forward

Lorenzo Tieghi, University of Trento
Giovanni Delibra, Sapienza University of Rome
Lorenzo Battisti, Universita Di Trento

Practical Aspects of Axial Flow Fan Engineering

SJ van der Spuy, Stellenbosch University
Janos Vad, Budapest University of Technology and Economics

Track 16: Heat Transfer: Tutorials

The Design and Methodology to Develop Clearance Control Systems for HPT & LPT Applications on Today's Modern Aircraft Engines

Robert Proctor, BPTF Consulting, LLC

Track 12: Heat Transfer: Film Cooling

Gas Turbine Film Cooling: Basic Concepts and Current Technology

David Bogard, University of Texas at Austin

Track 17: Industrial & Cogeneration

Closed-Cycle Gas Turbines for Emissions-Free Power Generation

Rakesh K. Bhargava, Innovative Turbomachinery Technologies

Combustion and Emissions

Manfred Klein, MA Klein and Associates
Mike Klassen, Combustion Science and Engineering
Len Angello, Electric Power Research Institute

Holistic Heat Pump Design Tutorial of Basics

Clement Joly, SoftInWay, Inc.
Andrii Khandrymailov, SoftInWay, Inc.
Vladislav Kotechenkov, SoftInWay, Inc.
Leonid Moroz, SoftInWay, Inc.

Maintenance and Operation of GT Intake Air Structure

Steve Ingistov, Consultant

Performance Enhancement of Gas Turbines Through Fogging and Wet Compression

Mustapha Chaker, McDermott International

Track 18: Manufacturing Materials & Metallurgy

Gas Turbine Coatings

Dheepa Srinivasan, Baker Hughes

Track 19: Microturbines, Turbochargers, & Small Turbomachines

Measuring and Simulating Flow, Performance and Noise in Centrifugal Compressors

Roberto Navarro, CMT - Clean Mobility & Thermofluids, Universitat Politecnica de Valencia
José Ramón Serrano, CMT-Clean Mobility & Thermofluids, Universitat Politècnica de València
Luis Miguel García-Cuevas, Jorge García-Tíscar, CMT-Clean Mobility & Thermofluids, Universitat Politècnica de València
Mihai Mihaescu, Department of Engineering Mechanics, KTH Royal Institute of Technology

Track 20: Oil & Gas Applications

Tutorial of Basics - Gas Compressors

Anand Srinivasan, Solar Turbines
Robert Pelton, Ebara Elliott Energy

Gas Turbines for LNG Production Processes

Manfred Klein, MA Klein and Associates
Matt Taher, Bechtel Energy

Latest updates on ASME PTC-10: Performance Testing of Axial and Centrifugal Compressors

Matt Taher, Bechtel

Valves and Actuators in Turbomachinery: Fundamentals, Sizing, and Integration

George N Khawly, P.E, Southwest Research Institute
Joshua Warren, Southwest Research Institute

Safety Design of Gas Turbine Package

Stefano Minotti, Baker Hughes
Eugenio Quartieri, Baker Hughes

Oil and Gas Applications for Turbomachinery

Rainer Kurz, RKSBenergy LLC
Klaus Brun, Ebara Elliott Energy

Industrial Gas Turbines

Rainer Kurz, RKSBenergy LLC
Klaus Brun, Ebara Elliott Energy

Root Cause Failure Analysis for Industrial Turbomachinery

Jason Wilkes, SwRI
David Ransom, Siemens Energy
John Macha, SwRI

Recommended Practices and Code Guidance on Creating Piping & Instrumentation Diagrams (P&IDs)

Nicholas Bishop, Southwest Research Institute
Zachary Brown, Southwest Research Institute

Track 21: Steam Turbine

Non-Destructive Tools & Methods for Inspecting Engine Components: Proactive Maintenance to Failure Analysis

Richard Hollenbach, Exponent Scientific and Engineering Consulting
Blake Whitley, Exponent
Joseph Tucker, Exponent
Kyle Spaulding, Arizona Public Service

Track 22: Structures and Dynamics: Aerodynamics Excitation & Damping

Turbomachinery Aeromechanics Explained With Movies Instead of Equations

Matthew Montgomery, Florida Turbine Technologies

Track 25: Structures and Dynamics: Fatigue, Fracture & Life Prediction

Fitness-For-Service Principles

Samuel Stephens, Quest Integrity
Vitor Garcia, Quest Integrity

Track 27: Structures and Dynamics: Rotordynamics

Introduction to Rotordynamic Fundamentals

Thomas Kerr, Southwest Research Institute
Aaron Rimpel, Southwest Research Institute

How to Apply API Standards to Turbomachinery Rotordynamics – An Introduction

Animesh Mishra, SoftInWay, Inc.
Clement Joly, SoftInWay, Inc.
Leonid Moroz, SoftInWay, Inc.

Track 30: Supercritical CO_2

Lessons Learned From Operating sCO_2 Cycles

Fernando Karg Bulnes, Southwest Research Institute
Jonathan Wade, SwRI

Heat Exchangers for Supercritical CO_2 Power Cycle Applications

Nicholas Bishop, SwRI
Mauricio Coelho, Parker
Vahid Vahdat, Thar Energy

Introduction to sCO_2 Power Cycles and Applications

Jason Wilkes, Southwest Research Institute

Materials for Supercritical Carbon Dioxide Applications

Henry Saari, Carleton University
Ganesan Subbaraman, GTI Energy
Steven Kung, Electric Power Research Institute

Oxy-Fuel Combustion for Direct-Fired Supercritical CO_2 Cycles

Alex Cho, Southwest Research Institute
Francesco Di Sabatino, Southwest Research Institute

Track 1 / Track 39: Aircraft Engine/ Turbomachinery (joint tutorial)

Best Practices for Reactive Root Cause Analysis for Turbines in the Context of a Potential Dispute

Richard Hoillenbach, Exponent Scientific and Engineering Consulting
Joseph Tucker, Exponent
Brett Davis, Exponent
Dan Getsinger, Exponent

Track 39: Turbomachinery: Tutorials

Cycle Modeling, Analysis and Best-Practices

George N Khawly, P.E, Southwest Research Institute
Melissa Gonzalez Montes, Southwest Research Institute
Francisco Anaya, GE Aerospace
Francisco Anaya, GE Aerospace

The Evolution of Scale Resolving CFD for Rotating Machinery Design and Its Impact on Machine Learning Aided Modeling

Richard Sandberg, The University of Melbourne, Melbourne, AU
Vittorio Michelassi, Baker Hughes, Florence, IT

Openfoam for Turbomachinery: Up to Date Capabilities, Best Practices, Lessons Learned, and Adding New Capabilities

Jeff Defoe, University of Windsor

Introduction to CFD for Turbomachinery

Robert Pelton, Ebara Elliott Energy

Track 41: Wind Energy

O&M in Wind Turbines with AI Methods

Valerio Francesco Barnabei, Sapienza University of Rome

Re-Thinking Wind Power: Lifecycle Sustainability in Spotlight

Stavros Vouros, Mälardalen University
Mohammed Taha, Mälardalen University
Konstantinos Kyprianidis, Mälardalen University

Technical Sessions

Aircraft Engine

Sessions within this track address issues of interest across a broad spectrum of aircraft engine technology subjects. Presenters will cover a range of topics including:

- Modeling, Simulation and Validation
- Whole Engine Performance and Novel Concepts
- Operability
- Inlets (incl. Boundary Layer Ingestion), Nacelles, Nozzles and Mixers
- Propellers and Open Rotors
- Propulsion System Integration in Conventional and Hybrid-Electric Aircraft
- Thermal Management Systems and Aero-Engine Oil Systems
- Aero-Engine Controls and Diagnostics

Ceramics and Ceramic Composites

Ceramics are important materials for consideration in the extreme environments found in the gas turbine engine hot sections due to their high temperature mechanical and physical properties as well as lower density than metals. The advantages of utilizing ceramic hot section components include weight reduction, improved efficiency as well as enhanced power output and lower emissions. In order to realize the potential of rotating and static ceramic components, some unique technical challenges are being overcome by the engineering community. Specific areas of research and development include:

- Design, development and processing of monolithic ceramic matrix composite (CMC) Materials
- Development, processing and characterization of Thermal and Environmental Barrier Coatings (TBCs/ EBCs)
- Modeling and validation of material performance
- Life Prediction
- NDE
- Test Methods and standards
- Design and fabrication of components
- Engine & laboratory testing of components

The technical and panel sessions sponsored by the ceramics committee cover breakthrough developments and demonstrations critical for the incorporation of ceramic hot section components for gas turbine engines.

- Ceramic Matrix Composites: Properties and Performance

- Ceramic Matrix Composites: Modeling and Life Prediction

Coal, Biomass, Hydrogen & Alternative Fuels

Sessions focus on high-interest topics in the area of alternative fuel systems for gas turbines, including Hydrogen fuel systems, steam turbines and other turbomachinery technologies. Alternative and renewable fuels including gaseous and liquid hydrocarbon fuels, alcohols and ethers; as well as pure hydrogen, or high hydrogen content fuels. Alternative liquid hydrocarbon fuels derived from coal or biomass feedstocks or other technologies. Technical, tutorial, and panel sessions will cover the fundamental physical and chemical properties of alternate and renewable fuels, important to their use in gas-turbine engines and other power systems, as well as their application in different power systems, including application of life-cycle assessment as a mean to evaluate solutions sustainability. Sessions will be of interest to researchers/technologists/computational methods involved in the generation and utilization of non-conventional fuels in gas-turbine-based energy systems and for those wishing to start a new activity in this field.

- Hydrogen Fuel delivery systems
- Hydrogen and hydrogen content fuels for Gas Turbine Applications
- Alternative Fuel Chemistry and Fundamentals
- Alternative Fuel Use in Gas-Turbine Engines
- Basics of Hydrogen and Alternative Fuels
- Liquid Fuel Atomization and Combustion
- Computational Methods for Hydrogen and other Alternate Fuels
- Basics of Combustion Computational Fluid Dynamics
- Gas turbine in coal-biomass integrated cycles
- Life cycle assessment of gas turbine cycles, engines and components

Combustion, Fuels & Emissions

Aero and Industrial Gas turbines with low specific fuel consumption and reduced CO_2 emissions require high combustor outlet temperatures with a continued emphasis on reducing emissions, without sacrificing operability or durability. In addition, Combustion systems are increasingly expected to operate with synthetic gaseous fuels or alternative liquid fuels, including novel fuels such as hydrogen or ammonia. The Combustion, Fuels & Emissions sessions will highlight new technology and design approaches, using both experimental and computational techniques, employed to achieve improved combustor performance including ultra-low pollutant emissions and enhanced operability such as turndown and transient response. Broad trends include a continued focus on combustion dynamics for lean-staged combustion systems, significant innovation in the development of combustion system such as Dry Low NOx or novel rotary detonation, maturation of large eddy simulation analyses, as well as continued research of fundamental and applied topics in automation, mixing, ignition, autoignition, blowout and chemical kinetics.

Technical sessions include:

- Ignition & Auto ignition
- Atomization & Sprays

- Fundamental Combustion
- Novel Combustion Concepts
- Flashback & Blowout
- Pollutant Emissions Formation & Control: Combustor Performance
- Combustor Design & Development
- Chemical Kinetics
- Combustion Noise
- Pollutant Emissions: Modeling, Soot and Particulates
- Combustion Dynamics: Basic Mechanisms, Flame Response to Perturbations, Instability, Analysis, Model Development and Damping & Control
- Combustion Modeling: Combustor Simulations and Large Eddy Simulations
- High Hydrogen Combustion
- Dry Low-NOx Combustor Development
- Micro Devices
- Jet-in-crossflow & Swirling Flows
- Combustor Diagnostics

Controls, Diagnostics & Instrumentation

The Controls, Diagnostics & Instrumentation Committee will host technical, panel and tutorial sessions that will closely examine the global challenges associated with Gas Turbine Engine Technology. These will include the latest developments in gas turbine engine control, prognostics, diagnostics and health management, artificial intelligence, and instrumentation technology, and the impact these technologies have in enabling more efficient and reliable engines, lowering engine emissions, and reducing engine operating costs. More precisely, the exchange of information between experts from Government, Academia and Industry is promoted on the following topics:

- Control System Technology
- Optimal and Intelligent Controls
- Active Component Control
- Distributed Engine Control
- Engine Health Management
- Gas Path Performance Diagnostics
- Structural and Mechanical Component Health Management
- On-Board Engine Monitoring and Diagnostics
- Prognostics for Gas Turbine Engines
- Modeling for Controls and Diagnostic Applications
- Life Usage Monitoring and Life Extending Control Algorithms and Sensors
- Optical and Non-intrusive Measurement Techniques

- Flow, Temperature, Pressure and Acoustic Instrumentation
- Advanced Data Reduction Methods
- Integrated Controls and Diagnostics
- Novel Sensors and Sensor Technologies
- Development of Standard and High Temperature Test Rigs and Probes

Cycle Innovations

The Cycle Innovations Committee is dedicated to the advancement of technology and innovation, with a particular focus on the thermodynamic cycles of gas turbine–based plants for power generation and propulsion. Special attention is also devoted to energy storage technology and management aspects. The Committee traditionally attracts paper submissions from a wide range of disciplines and scientific areas. Some of the thematic areas the Committee currently encompasses are listed below:

- Low or no emissions thermal cycles
- H2 production and utilization
- Polygeneration cycles and process integration (power, heat, cooling, fuels, chemicals) for centralized and distributed power generation
- Advanced steam and humid air cycles
- (Semi)-Closed cycle gas turbine technology
- Novel propulsion systems for aircraft, rotorcraft and marine
- Innovative low and high temperature heat recovery cycles
- Renewable and bio-energy concepts and innovative cycles
- Fuel cell driven cycles and hybrid systems
- Externally fired gas turbines and high temperature heat exchangers
- Thermo-economic and environmental impact analysis
- Cycle simulation and analysis for performance and health assessment
- Innovative control systems for power plants
- Optimization of traditional and innovative energy and propulsion systems

OBJECTIVES:

Authors and presenters are invited to participate in this event to expand international cooperation, understanding and promotion of efforts and disciplines in the area of Cycle Innovations. Dissemination of knowledge by presenting research results, new developments, and novel concepts in Cycle Innovations will serve as the foundation upon which the conference program of this area will be developed.

A variety of sessions are available for presentations as it allows flexibility to the authors. All sessions are quality driven.

Education

Sessions encompass gas turbine/ turbomachinery education both in the university and in industry. Specific teaching tools and techniques will be discussed, including web-based and large-scale remote education, along with industry opportunities for gas turbine engineers. Anyone interested in gas turbine/turbomachinery engineering education is welcome, from students to PhDs. Academics will be exposed to ideas and best practices being used at other institutions as well as innovative approaches for gas turbine/turbomachinery education. Industry will have an opportunity to interact with educators to discuss relevant topic areas and to express the expectations with regard to changing needs. Discussions here have the potential to influence engineering education for a positive impact on future engineers. The sessions provide an active and constructive dialogue about gas turbine/turbomachinery education among practitioners from the industry, students, educators and researchers.

Electric Power

The Electric Power Committee promotes the exchange of significant technical information about the application and operation of gas turbine power plant systems. This committee organizes panels and technical sessions that deal with the gas turbine as a major component of a power plant, its integration into the power plant and optimization of power plant components, as well as optimization of the overall plant. Paper sessions on these topics will be complemented by panel sessions to address current topics of the gas turbine industry. Presenters will include owner/operators, original equipment manufacturers and industry service providers.

- The EPC sessions will include the following:
- The Pathway Forward: Future Gas Turbine Products & Technologies– OEM Perspective
- Voice of the Customer: User Experience with Gas Turbine Technology
- Gas Turbine Industry Update
- Hydrogen-Fired Gas Turbines: Demonstrations & Outlook
- The Gas Turbine's Role in the Decarbonized Power Generation Portfolio
- Tutorial: Hydrogen Impacts 101: Are You Asking the Right Questions?
- Tutorial: Leveraging Operational Gas Turbine Data at Scale: Tips and Techniques

Energy Storage

The mission of the committee is to provide opportunities for knowledge dissemination and professional networking related to non-battery energy storage for industry, academia, and government. The focus of these activities is, specifically, on turbomachinery-based energy storage systems.

Technical and panel sessions and tutorials on the following topics are welcomed: General Energy Storage, Pumped Heat (Thermal) Energy Storage, Carnot/Brayton Batteries, Compressed Air Energy Storage, Liquid Air Energy Storage, Pumped Hydro Energy Storage, Power plants including thermochemical energy storage in the form of synthetic fuels (energy vectors), Flywheel Energy Storage, Hybrid Energy Storage combining different power generation and energy storage technologies (photovoltaics, gas/steam turbines, thermal energy storage...). Regarding this latter topic, even though the

focus of the committee is on non-battery energy storage, hybrid energy storage systems incorporating batteries are of interest for the community.

The Energy Storage Committee provides an excellent forum for industry, academic and governmental institutions to discuss and exchange ideas within the general scope of energy storage.

Fans and Blowers

Improvements in fans and blowers are means to address the global energy challenge, with manufacturers increasingly focusing on improvement in fan efficiency under legislative pressure and as a part of their response to global climate change.

The academia-industry collaboration and the up-front use of Computational Fluid Dynamics (CFD) and Experimental Fluid Dynamics (EFD) are the key ingredients to facilitate the advancement from traditional empirical design methodologies. In response to these challenges, the ASME-IGTI Fans and Blowers Technical Committee consider all technical aspects associated with fans and blowers, with a special emphasis on:

- Design and optimization
- CFD and Artificial Intelligence methods for unsteady aerodynamics
- Noise generation, prediction, innovative noise reduction design
- Experimental challenges in- and out-of-lab
- Structural mechanical aspects (vibration, fatigue and flutter)
- Operations and system effects and interactions
- Maintenance, repair & life-time management
- Standards, compliance with legislation & regulations
- Smart industrial applications of fans and blowers
- Fan solutions for improved indoor air quality

Heat Transfer: Combustors

This track is jointly sponsored by the Heat Transfer and Combustion, Fuels & Emissions committees and includes all research activities in the area of combustor related heat transfer and cooling as well as topics related to combustor-turbine interactions. Papers describing research and technical advances in this area are invited to be submitted to this track.

Relevant topic areas include:

- Experimental, analytical, and numerical studies of heat transfer in combustors, including combustor liners, dome/splash plate, injector tip, and backside cooling of combustor liners
- Studies on new cooling designs for low-NOx combustors, liners, and dome/splash plate
- Combustor simulators to study the impact of hot combustor exit flow on hot gas path components

Heat Transfer: Film Cooling

Papers describing research and technical advances in application of film cooling in turbomachinery are invited to be submitted to this track.

- Relevant topic areas include:
- Blade/Vane Leading Edge Film Cooling
- Blade/Vane Trailing Edge Film Cooling
- Vane End-Wall Film Cooling
- Blade Platform Film Cooling
- Blade Tip Film Cooling
- Novel Film Cooling Designs
- Film Cooling Design Optimization
- Unsteady Effects in Film Cooling
- Effusion Film Cooling
- Deposition Effects on Film Cooling

Heat Transfer: General Interest / Additive Manufacturing Impacts on Heat Transfer

Papers describing research and technical advances in the area of heat transfer in turbines which do not fit into blades/vanes internal and film cooling applications are invited to be submitted to this track.

Relevant topic areas include:

- Gas-path heat transfer
- Vane end-wall and blade tip/platform heat transfer
- Probabilistic methods in heat transfer analysis
- Experimental methods for heat transfer
- Numerical analysis of heat transfer
- Design tool development and validation
- Rotational effects on heat transfer
- Additive manufacturing impacts on heat transfer
- Radiation heat transfer
- Multimode heat transfer
- Heat exchangers and recuperators
- Innovative concepts relating to heat transfer

Heat Transfer: Internal Air Systems

This track is jointly sponsored by the Heat Transfer and Turbomachinery committees and includes both fluid dynamics and heat transfer aspects of turbomachinery internal air systems and seals. Papers describing research and technical advances in this area are invited to be submitted to this track.

Relevant topic areas include:

- Actively controlled sealing systems
- Internal air & seal, experimental, analytical, and numerical studies of flow and heat transfer phenomena in rotating cavities, rotor/stator systems and seals
- Heat transfer in rotor support and oil systems
- Secondary air systems analysis involving component interactions and system performance
- Two-phase flow phenomena in internal air systems involving oil jet and oil film disintegration, oil migration in secondary air systems and air/oil interaction including heat transfer, oil fires, film flows, bearing chamber and gearbox flows.

Heat Transfer: Internal Cooling

Papers describing research and technical advances in internal cooling schemes for turbomachinery components are invited to be submitted to this track.

Relevant topic areas include:

- Blade/vane internal cooling
- Internal cooling with impingement
- Internal cooling with heat transfer augmentation devices such as turbulators/pin-fins
- Internal cooling design optimization
- Innovative internal cooling designs
- Numerical studies of internal cooling
- Validation studies in internal cooling
- General internal cooling

Heat Transfer: Tutorials

Two heat transfer tutorials will be offered at Turbo Expo 2026. One will describe the techniques and intricacies of computing and measuring heat transfer coefficients in turbine relevant flows. Another tutorial will offer a review of advanced technology for internal cooling of turbine blades and vanes.

Industrial & Cogeneration

Representing gas turbine applications within the cogeneration and process industries, technical sessions in this track cover a wide range of topics on cogeneration/CHP (Combined Heat & power) systems, including but not limited to the following: thermoeconomic analysis, optimization and simulation methods, design, operation & maintenance aspect of Heat Recovery

Steam Generators, operation & maintenance issues of cogeneration plants, gas turbine power augmentation technologies (inlet chilling, high pressure fogging, and wet compression or overspray, dry/humid air inject, steam injection, etc.), compressor fouling, inlet air filtration systems, compressor washing, gas turbine upgrades and modifications, environmental and regulatory issues, and lessons learned from field experiences.

Other applications such as non-gas turbine-based cogeneration/ CHP systems (steam turbine and reciprocating engine based systems, solar energy based systems, etc.), cogeneration and cold energy recovery in LNG plants, hybrid cogeneration systems (combined with fuel cells), and organic Rankine cycle based systems are also included.

Panel/Tutorial sessions cover topics on cogeneration technologies, compressor washing technologies, inlet air filtration systems, gas turbine power augmentation technologies, dynamic modeling of cogeneration/CHP systems, gas turbine combustion processes and emissions issues, fuel related issues, and impact of Shale energy market.

- Design and Evaluation Considerations of Waste Heat Recovery TechnologiesThermo-Economic Analysis of CHP/ Cogeneration Systems
- Techno-Economic Analysis of CHP Systems
- Operational & Maintenance Aspects
- Gas Turbine Power Augmentation Technologies
- HRSG's Design & Operational Issues
- Inlet Air Filtration for Gas Turbines
- Combustion & Emissions
- Gas Turbine Applications Involving Heavy Fuel Oils and Crude Oils
- Dynamic Modeling of CHP Systems
- Condition monitoring and diagnostics for CHP Systems
- Integration of cogeneration systems with energy storage technologies, and Artificial intelligence for energy and economic optimization

Manufacturing Materials & Metallurgy

The field of materials and metallurgy associated with gas turbine manufacturing has traditionally been the source of numerous disruptive technologies such as the development of superalloys, precision single-crystal investment casting and ceramic coatings. These in turn have allowed an incredibly accelerated pace of innovation. Next generation materials and processes will allow even higher efficiency and reliability as well as greater flexibility operational mode. A major goal is to balance these with lower emissions and lower life-cycle cost of turbomachinery. Materials with higher strength, lighter weight and improved durability are required for these applications. The continuing development in metallurgy and materials science has resulted in newer materials, better surface protecting methods, and more reliable component life. Development in manufacturing technologies, including better process planning/optimization, advance machining operations, additive manufacturing, newer coating and repair methods, helps to reduce the manufacturing cost and decrease overall operating cost of gas turbines. Condition assessment of parts after service and advanced repairs are required to further reduce life cycle cost and impact to the environment. The MMM committee is organized to disseminate the latest developments and research results in the areas of manufacturing, materials and metallurgy to gas and steam turbine designers, manufacturers, users, repair and service vendors, researchers and consultants. In addition to technical paper sessions, panel sessions are planned where highly experienced panel members will discuss their latest experiences

and knowledge in manufacturing methods, repair/coating processes and component inspections. Tutorials and lectures will be given on gas turbine materials.

- Additive Manufacturing
- Advanced Manufacturing Technologies
- Thermal Barrier Coatings
- Gas Turbine Component Degradation and Life Prediction
- Advances in Gas Turbine Materials
- Advanced Repair Technologies
- Metallurgy for Non-Metallurgists
- Advanced Turbomachinery Manufacturing

Microturbines, Turbochargers & Small Turbomachines

- Microturbines & Small Turbomachines
- Alternate/Opportunity Fuels: Technical issues and economic viability (bio-fuels, landfill gas, etc.)
- Auxiliary systems (such as generators, power electronics and high speed alternators)
- Energy markets and the competitiveness of microturbines vs. recips in DG applications
- Heat exchangers (recuperators, regenerators, CHP) design and optimization (CFD, heat transfer, stress analysis) and associated materials and materials degradation
- Intelligent control/engine health monitoring/life evaluation
- Microturbine technologies for long life, fuel efficiency, high power density, wide operability and robust design
- Microturbines systems and concepts for Distributed Power
- Materials for microturbines and small turbomachines: materials issues including durability and high temperature capability (creep, oxidation, fatigue, etc.), and raw material cost (i.e., the need for lower cost materials)
- Microturbine and small turbomachines component design & optimization (compressors, turbines, rotordynamics, bearings, etc.)
- Turbochargers and Superchargers
- Aero, aerothermal, and aeroacoustical analysis of radial, axial, and mixed-flow compressors and turbines (effects of downscaling, heat transfer, map enhancement, surge, choke, etc.)
- Novel charging solutions for downsized and low-emission engines (regulated multi stage charging, turbo compound, electrically assisted charging, variable compressor and turbine geometries, exhaust gas recirculation, etc.)
- Interaction between turbocharger and SI / CI engines (Transient performance, e.g. ball/air/magnetic bearings,TiAl / ceramic turbine wheel, charging concepts, etc.)
- Optimization techniques for multidisciplinary design challenges (e.g. boost pressure vs. efficiency vs. map width vs. transience vs. mechanical constraints vs. packaging vs. etc.)
- Microturbines: Design and Testing of Microturbines
- Microturbines: Innovative Microturbine Design and Uses

- Microturbines: Innovative fuels and uses in microturbines. Recuperator materials
- Turbochargers: Heat transfer & Systems
- Turbochargers: Concepts & Performance
- Turbochargers: Turbines design, testing and modelling
- Turbochargers: Compressors
- Turbochargers & Small Turbomachinery: Bearing systems & NVH

Oil & Gas Applications

The Oil and Gas Industry is a large user of turbomachinery. The demand for oil and gas is consistently growing and changing market conditions require innovative solutions. Operation and optimization of turbomachinery in a variety of Oil & Gas applications is therefore of great interest. Moreover, potentially extreme operation environments require the consideration of innovative design and operational attributes. Sessions in the Oil & Gas Applications Committee address both theoretical and practical Oil & Gas industry perspectives. The technical sessions provide the latest information on gas turbines and compressors in pipeline and compression stations. Particular emphasis is given to design, operation and maintenance, management, dynamic behavior, diagnostics and vibration and noise, as well as to all engineering issues in Oil & Gas applications.

Wet gas compression and multi-phase pumping are also addressed, due to the increasing interest in many installations. The Oil & Gas Applications Committee brings industry experts together in panel and tutorial sessions jointly held by both academic educators and industry professionals. Both basics of Oil & Gas installations and off-design operation issues will be covered, aimed to ensure improved efficiency and safe and reliable operation. The latest information about environmental impact, product upgrade, risk assessment, standards and legislation of gas turbines and compressors in Oil & Gas applications is also provided.

- LNG Liquefaction Plants
- Wet Gas and Multiphase Compression
- Gas Turbine Degradation and Water Washing
- Partical Behavior and Degradation
- Turbomachinery Performance Testing
- Design Details
- Compressor Stations
- Machinery Issues
- Oil and Gas Applications
- Surge Control and System Dynamics
- Hydrodynamic Torque Converters for Oil & Gas Compression and Pumping Applications: Basic Principles, Performance Characteristics and Applications
- Natural Gas Pipelines: Equipment Technology
- Wet Gas Compression
- Compact Compression

- Subsea Compression
- Gas Turbine Upgrades and Uprates
- Turbomachinery Instrumentation Components, Practices, and Uncertainty

Steam Turbine

Turbo Expo 2026 includes a track dedicated to Steam Turbines. While many of the analyses, computational methods, and experimental techniques are common for steam turbines and gas turbines, there are some unique features on steam turbines that warrant special consideration. Separate, co-located, steam turbine sessions at Turbo Expo provide a natural way of sharing many of the cutting-edge technologies while giving the steam turbine community a dedicated forum for the unique technical challenges associated with wet steam, long last stage blades, industrial and co-generation steam turbines, the unique mechanical integrity challenges for steam and more.

Structures and Dynamics: Aerodynamics Excitation & Damping

Authors are invited to present and discuss the following topics:

- Aerodynamic Forcing in Axial Fan and Compressors
- Aeroelastic Stability in Axial Fans and Compressors
- Non-synchronous Vibrations
- Non-Synchronous Vibrations in Fans
- Methods for Aerodynamic Forcing and Damping Prediction
- Aerodynamic Forcing and Damping in Radial Turbomachinery
- Turbine Aerodynamic Forcing and Damping and Seal Aeroelastic Stability

Structures and Dynamics: Bearing & Seal Dynamics

The field of materials and metallurgy associated with gas turbine manufacturing has traditionally been the source of numerous disruptive technologies such as the development of superalloys, precision single-crystal investment casting and ceramic coatings. The type of bearings discussed in this track include but are not limited to gas bearings, tilting pad bearings, fluid film bearings, magnetic bearings as well as squeeze film bearings.

Structures and Dynamics: Emerging Methods in Design & Eng.

Authors and presenters are invited to share and promote efforts and methods in the area of Structures & Dynamics: Emerging Methods in Design & Engineering, also expanding on new design and analysis approaches for additive manufactured technology. Dissemination of knowledge by presenting research results, new developments, and novel concepts in Structures & Dynamics: Emerging Methods in Design & Engineering will serve as the foundation for the conference program on this area. A variety of sessions are available for presentations, as it allows flexibility to the authors.

Structures and Dynamics: Fatigue, Fracture & Life Prediction

Structures & Dynamics: Fatigue, Fracture & Life Prediction Committee creates a forum to discuss theoretical and empirical approaches to determine the lifetime and maintenance requirements of turbo machinery. This includes theoretical prediction approaches for damage mechanisms which govern component lifetime; observations on material or component behaviour which relate to component lifetime; experimental methods to generate data to support these topics; empirical approaches based on inspection and evaluation of part condition and damage during service and at end of life. Cyclic, time dependent and pseudo-static damage mechanisms are covered as well as operational history and environments, and material behavior at these conditions. This includes Low and High Cycle Fatigue (LCF & HCF); the combination of cyclic and time dependent mechanisms, Thermo-Mechanical Fatigue (TMF); creep and stress rupture; fracture mechanics and processes relating to fatigue crack initiation and crack growth; any other damage mechanisms which affect component life.

Structures & Dynamics: Probabilistic Methods

Authors are invited to present and discuss on various developments in the area of probabilistic analysis, post processing and process modelling.

Structures and Dynamics: Rotordynamics

Main topics of the Rotordynamics Track of the S&D Committee are related to:

- Dynamic Analysis and Stability
- Modeling and Experiments
- Field Balancing and Case Studies
- Active Components and Vibration Control
- Nonlinear Rotordynamics
- Rotordynamics of Micro-machinery
- Rotordynamics of Industrial Fans
- Condition Monitoring and Malfunctions
- Case Studies of Rotating Machinery, and other subjects dealing with dynamic behavior of the rotors

Structures and Dynamics: Structural Mechanics & Vibration

Authors are invited to present and discuss on various developments with regard to structural mechanical and vibrational analysis, prediction and experimental validation.

Student Advisory

The Student Advisory Committee organizes events at Turbo Expo aimed to engage all degree-seeking individuals in the conference. The Student Advisory Committee (SAC) sponsors a Student Poster Competition, Student and Early Career Engineer Mixer and tutorial sessions each year to promote the sharing of technical knowledge and encourage meaningful networking opportunities for students and professionals alike.

Student Poster

The Student Advisory Committee is once again sponsoring a student poster session at ASME Turbo Expo. Student posters will be on display on the main exposition floor.

Supercritical CO_2

Supercritical CO_2 based power cycles provide significant efficiency and cost of electricity benefits to waste heat, thermal solar, nuclear, ship-board propulsion and fossil fuel power generation applications. They also provide for separation, compression, transportation, and storage (geologic) of CO_2 from fossil fuel power plants. The approach to geologic storage of CO_2 benefits greatly from the existing technology and knowledge amassed around CO_2 utilization and management in the oil & gas industry. While the end goals of the CO_2 based power cycles and the CO_2 storage applications are different, the properties of the working fluid, thermodynamics, technology and machinery used for these applications are very similar. The confluence of interests related to the use and management of supercritical CO_2 has created an imperative to further the understanding of these applications. The Supercritical CO_2 Power Cycle committee organizes sessions that focus on the dissemination of machinery and cycle related technologies of sCO_2 power plant applications.

- Fundamentals of sCO_2 Power Cycles
- sCO_2 Heat Exchangers
- Turbomachinery for sCO_2 Cycles
- sCO_2 Cycle Analysis and Optimization
- sCO_2 Combustion and Heat Transfer
- Materials for sCO_2 Cycles
- sCO_2 Cycle Testing
- sCO_2 Cycle Modeling
- sCO_2 Cycle Components

Turbomachinery: Axial Flow Fan & Compressor Aerodynamics

The field of materials and metallurgy associated with gas turbine manufacturing has traditionally been the source of numerous disruptive technologies such as the development of superalloys, precision single-crystal investment casting and ceramic coatings.

- Compressor Design
- Compressor Experiments
- Transonic Compressor Design
- Fan Design
- Design Concepts
- Test Rig & Facility Design
- Stall & Inlet Distortion
- End-Wall Flows & Passage Contouring

- Water Ingestion, Fogging & Pre-Cooling
- Transition & Roughness Effects
- Manufacturing & Deterioration Effects
- Tip-Clearance Flows
- Seal & Leakage Flows
- Casing Treatment
- Tandem Airfoils
- Flow Control

Turbomachinery: Axial Flow Turbine Aerodynamics

- Aerodynamic Performances and Design
- Aerodynamic Losses
- Aerodynamic Studies
- Unsteady Flows and Transition
- Tip Leakage Flows
- End-wall Profiling
- Low Pressure Turbine Aerodynamics

Turbomachinery: Deposition, Erosion, Fouling, and Icing

- Multi-phase (Water/Ice) Deposition in Gas Turbines
- Modeling Deposition in Turbine Cooling Passages
- Erosion in Turbines
- Deposition Modeling

Turbomachinery: Design Methods & CFD Modeling for Turbomachinery

- Compressor Design Methods & Applications
- Fan Design Methods & Applications
- Turbine Design Methods & Applications
- Radial Turbomachinery Design Methods & Applications
- Cavity, Bearings & Seal Design Methods & Applications
- Methods & Application for Hydrodynamics
- Component Interaction & Multi-Physics Coupling
- Preliminary Design Methods

- LES & DNS Methods & Applications
- Optimization Methods & Applications
- Novel Methods for CFD
- Novel Solver & Simulation Frameworks
- Application & Methods for Unsteady Flow
- Geometry Design & Meshing
- Flow Separation, Loss & Boundary Layer Interaction Methods

Turbomachinery: Ducts, Noise & Component Interactions

- Compressor & Combustion Noise
- Fan & Engine Noise
- Gas Turbine Engine Intakes, Exhaust Diffusers, and Ejectors
- Gas Turbine Engine Transition Ducts and Flow Interactions

Turbomachinery: Multidisciplinary Design Approaches, Optimization, and Uncertainty Quantification

- Parameterization Approaches
- Manufacturing Tolerances and Uncertainties
- Surrogate-Assisted Approaches, including Sampling and Data Mining
- Axial Compressors, Propellers and Fans
- Turbine Design and Cooling
- Preliminary Design Systems and Approaches
- Adjoint Methods
- Multidisciplinary Optimization and Sensitivity Analysis (fluid, structure)
- Sensitivity Analysis and Design for AM

Turbomachinery: Radial Turbomachinery Aerodynamics

- Centrifugal Compressors
- Radial & Mixed Flow Turbines

Turbomachinery: Turbomachinery General Interest

Papers will cover topics of interest to the Turbomachinery Design & Maintenance community which may not be covered by the Turbomachinery primary topic tracks.

Turbomachinery: Tutorials

The tutorials will be of interest for all engineers & researchers concerned with understanding and improving the design process, testing and in-service performance of land and flight-based turbomachinery.

Turbomachinery: Unsteady Flows in Turbomachinery

- Unsteady Flows in Compressors
- Unsteady Flows in Turbines
- Stall & Surge
- Stall & Surge in Centrifugal Compressors
- Unsteady Flows in Centrifugal Compressors
- Analysis & Processing Techniques for Unsteady Flows

Wind Energy

Climate change, the rapid expansion of wind power, and the steady decrease in the cost of wind-generated electricity have made wind power an indispensable part of the global energy mix. Thus, the Wind Energy Technical Program will focus on innovations driving technological advances in the wind industry. The technical presentations cover aerodynamics, aeroelasticity, structures, condition monitoring of wind turbines, the interaction of wind turbines with other energy systems, wind farms, and floating offshore wind turbines. These topics are addressed for small and large machines and vertical and horizontal axis wind turbines. Special panel sessions highlight the industry's challenges, as well as research being undertaken in universities and research laboratories.

For experts and beginners, tutorial sessions and workshops will be presented to detail developments and tools employed in the rapidly growing wind industry.

- Measurements and Simulations
- Structures and Aeroelastic Behavior
- Design and Optimization
- Wind Energy Systems
- Modelling of Wind Turbine Flows
- Vertical Axis Wind Turbines
- Operation & Condition Monitoring
- Small Wind Turbines
- Noise
- Blade Aerodynamics
- Reliability and Risk Analysis
- Wind Farms
- Offshore wind turbines

Exhibitor Solutions Stage Schedule

Every visitor, delegate and exhibitor at the EXPO can attend any of the following presentations, FREE OF CHARGE. Each is delivered by one of the Exhibitors at the EXPO - all of them leading experts in their field.

Tuesday	Presenter(s)	From	Time
Leveraging GPU and AI For Faster Turbomachinery Design Cycle	John Stokes, Software Engineering, Vice President	*Ansys, part of Synopsys FTA Systems GmbH*	1:00PM – 1:30PM
Mesh Provenance for Physical AI: Quality Requirements for Turbomachinery Simulation Data When the Consumer is a Neural Network	Peter Eiseman	*GridPro*	1:45PM – 2:15PM
High Value Thermal Mapping for Widespread Turbine Applications	Logan Whalen, Industrial Lead & Elmira Parsa, Engineering Analyst	*Sensor Coating Systems Ltd*	2:30PM – 3:00PM
This presentation shows how Direct Energy Deposition (DED) enables faster and more cost-efficient supply chains for complex and high-performance components when integrated into hybrid manufacturing chains. Taking real examples from large impellers and repair workflows, it demonstrates how DED reduces material waste, lead times, and costs while improving flexibility in industrial production.	Francesco Bruzzo	*Fraunhofer IWS*	3:15PM - 3:45PM
Powering a Robust MDO Process with nTop for Turbine Blade Optimization	Behnam Nouri, AI/ ML - Tools Expert - Knowledge Based Engineering & Platform Design	*Siemens Energy*	4:00PM – 4:30PM
The Right Power Source for the Mission	James Hoare, VP of Engineering	*Honeywell Aerospace Technology*	4:45PM – 5:15PM
From Months to Minutes: Accelerating Compressor Design Exploration with Physics AI and CFD	Alex Graham, Senior Product Marketing Manager	*SimScale*	5:30PM – 6:00PM

Exhibitor Solutions Stage Schedule

Wednesday	Presenter(s)	From	Time
Introduction in the advantages of AMBs and give insights in the lessons learned during the design, manufacturing and commissioning of our first in-house AMB concept for a turbo compressor drive	Dr.-Ing. Robert Seifert	*VEM Sachsenwerk GmbH*	1:00PM – 1:30PM
Shaping the Future with Knowledge - Turbomachinery Research at TFD	Prof. Dr.-Ing. Joerg R. Seume, Executive Director	*Institute of Turbomachinery and Fluid Dynamics*	1:45PM – 2:15PM
Expanding application segments of active magnetic bearings with a new magnetic bearing controller Magma X100	Nikita Uzhegov	*SpinDrive*	2:30PM – 3:00PM
ML-Driven Optimization of Impeller Performance via Automated CFD workflow	Ruggero Poletto, CEO	*CFD FEA SERVICE SRL UNIPERSONALE*	3:15PM – 3:45PM
Powering the Clean Industrial Deal: The Role of Mechanical Industry in Energy Systems Transformation	Daniela Lionetti-Head of Energy, Innovation and Sustainability and Riccardo D'Alessandro-Energy Technical Officer	*ANIMA*	4:00PM – 4:30PM
Simulation of flexible operation of GT plants with THERMOFLOW software	Ignacio Martín and Karsten Huschka	*Thermoflow*	4:45PM – 5:15PM
A unified workflow for turbomachinery design, analysis, and optimization	Margarita Campos	*Cadence Design Systems*	5:30PM – 6:00PM
Thursday	**Presenter(s)**	**From**	**Time**
Turbomachinery Applications in COMSOL Multiphysics®	Jonas Helboe Jørgensen	*COMSOL*	12:30 – 1:00PM
Closing Ceremony and Kick-off to ASME Turbo Expo 2027 in CALGARY, CANADA			1:30 - 2:00PM

***The stage can be found at the top the exhibition hall.*