

# ASME ICE DIVISION NEWS

SUMMER 2024



INTERNAL  
COMBUSTION ENGINE  
DIVISION

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## Message from the Division Chair

*Kelly Senecal*



As Chair of the ASME Internal Combustion Engine Division, I am happy to address you in this edition of our newsletter. I am thrilled to share updates on our division's activities, ongoing projects, and future directions.

First and foremost, I want to express my deepest gratitude to each member of our community. Your dedication to advancing the field of internal combustion engines is what drives our division's success. Whether through research, development, or education, your contributions are invaluable and highly appreciated.

Recent years have been particularly dynamic for our division. We have seen significant advancements in ICE technology, especially in the areas of efficiency and emissions reduction. Innovations in alternative fuels and hybrid powertrains have been at the forefront of our research discussions. These technologies are not only pushing the boundaries of what internal combustion engines can achieve but are also pivotal in meeting stringent environmental regulations and sustainability goals.

One of our major highlights each year is our increasingly successful ICE Forward conference. The event brings together industry experts, researchers, and students from around the world. The exchange of ideas and presentation of cutting-edge research foster a vibrant and collaborative atmosphere. I am particularly proud of the high-quality technical papers, keynote presentations, and panel discussions that have showcased the latest trends and breakthroughs in our field.

In addition to our conference, our division has been actively involved in various outreach and educational initiatives. Our webinars have seen increased participation, indicating a strong interest in continued professional development within our community.

Looking ahead, our division is committed to addressing the challenges and opportunities presented by the evolving landscape of the transportation industry. With the shift towards alternative fuels, electrification, and sustainable mobility solutions, our goal is to ensure that the ICE continues to play a vital role by innovating and adapting to these new paradigms.

I encourage all members to stay engaged and participate in our upcoming events, webinars, and conferences. Your involvement is crucial to the vitality and progress of our division. Together, we can continue to drive innovation and excellence in internal combustion engine technology.

Thank you for your continued support and dedication. I look forward to our collective achievements in the months ahead.

## ICED Webinar Series

The ASME ICE Division has been conducting free webinars under the banner of "Future of the Internal Combustion Engine". This series has been successfully running for three years and is still expanding. It has covered significant technical topics and showcased some of the industry's most brilliant researchers.

In March, a webinar titled "The IC Engine Saga: Continuous Improvement in Power and Emissions Reduction with Alternative Fuels" was held. This event, which coincided with Women's History Month, featured prominent experts. The discussion was led by Dr. **Andrea Strzelec** (USCAR; ICED Executive Committee). Dr. **Cathy Choi** (ClearFlame) and Dr. **Stefania Esposito** (University of Bath) were the keynote speakers. Dr. Choi offered her insights on the evolution and future of R&D for heavy-duty compression ignition engine systems. Dr. Esposito then discussed how simulation tools can enhance our understanding of the potential emissions impacts of renewable fuels, such as methanol.

The most recent webinar entitled "Future Engines and Fuels for Sustainable Shipping Toward 2030 and Beyond: LNG, Biofuels or E-Fuels?" took place on July 9. The session included keynote speakers Dr. **Hyunchun Park** (HD Hyundai Heavy Industries) and Dr. **Jim Szybist** (Oak Ridge National Laboratory), with Dr. **Tiegang Fang** (North Carolina State University) organizing and leading the panel discussion.

Free registration for upcoming webinars along with on-demand recordings of past sessions can be found with this [link](#). Do not hesitate to contact anyone on the [ICED Webinar Committee](#) with questions or to propose any future topics!





## 2024 ICE Forward — San Antonio

*Dustin Osborne  
Conference Chair*



*Scott Curran  
Conference Co-Chair*



Dear ICE Division Members,

We hope this message finds you enjoying a wonderful and productive summer. As these long summer days will sadly begin getting shorter soon, we can take solace in the fact that this also means the arrival of fall is near, bringing with it our division's premier annual event, the ASME ICE Forward Conference. Expect this year's conference to be a highlight of the season. Taking place October 20–23 in the vibrant city of San Antonio, Texas USA, ASME ICE Forward 2024 will be held at the world-famous Riverwalk, with the Westin Riverwalk, San Antonio serving as the conference hotel and venue, and with Southwest Research Institute (SwRI) serving as the local host organization.

ASME ICE Forward 2024 will be an exciting and engaging four-day event you won't want to miss. The agenda kicks off Sunday evening with a welcome reception and technical poster session. Monday's general sessions include a morning keynote address by Dr. **Charles Roberts** of SwRI, lunchtime presentations from the winners of this year's Undergraduate Student Research Competition, an afternoon expert panel session exploring innovative solutions for reducing life-cycle carbon emissions in transportation, and the Honors and Awards Banquet Monday evening. Scheduled for Tuesday morning is the Career Networking and Complimentary Headshot Event. The general session lineup for Tuesday includes the ICE Division Distinguished Lecture by **Roy J. Primus**, GE Research retired, an afternoon expert panel session on The Future of IC Engines in the North American Rail Industry, and final-

ly the ICE Division Associates Meeting and Technical Committee meetings. All this and we still managed to include what might be a record-breaking number of presentations within the technical program scheduled throughout Monday and Tuesday. No activities are scheduled for Tuesday evening, so this will be a great time to explore the San Antonio Riverwalk and connect with other colleagues for dinner at one of the many wonderful restaurants within walking distance of the conference hotel. The conference wraps up on Wednesday with technical tours of SwRI for pre-registered attendees. For those interested in further professional development, concurrent with the technical tour will be an optional ASME ICE Division Short Course: A Pragmatic Approach to Low Greenhouse Gas (GHG) IC Engines. The inaugural short course of a new learning series offered at ICEF will be instructed by Dr. **David E. Foster** and **Kevin Hoag**, and requires pre-registration.

In case you have not done so already, please be sure and register for the conference soon and book your room at the conference hotel. We encourage you to take advantage of the early registration discount available until September 30. Please visit the conference website at [event.asme.org/ICEF](https://event.asme.org/ICEF) for more program information, to book your room, and to register for the conference and ASME ICE Division Short Course.

As the keystone activity of the ASME ICE Division, the annual ASME ICE Forward Conference is central to the Division's mission of recognizing and promoting advancements in the art, science, and practice of engineering in the field of internal combustion engines. The conference is a product of the entire Division and the culmination of efforts from the many volunteer organizers, reviewers, authors, speakers, attendees, sponsors, and ASME staff who contribute their time, energy, and resources to this endeavor. We are extremely grateful for everyone's contributions to help make this the premier conference focused on internal combustion engine systems. Scott and I are honored and thrilled to be chairing this year's conference and will continue working diligently to do our part in helping bring forward another excellent conference. We hope you will join us at ASME ICE Forward 2024 as we focus on driving internal combustion engine technologies forward.







# ICEF 2024

## The ICE Forward Conference

San Antonio, Texas USA

October 20-23, 2024

*ASME ICE Forward 2024 will be held October 20–23 in the vibrant city of San Antonio, Texas, at the world-famous Riverwalk, with the Westin Riverwalk, San Antonio serving as the conference hotel and venue. Register today and reserve your room to join us in helping guide the future of internal combustion engines with leading experts from industry, academia, and the national labs.*

**Register by September 30 to receive a discounted registration rate.**

Register for ICEF  
2024 Today!

The Westin Riverwalk, San Antonio  
ICEF 2024 Conference Venue





## ICE Division Short Course

### A Pragmatic Approach to Low Greenhouse Gas (GHG) IC Engines

Wednesday, October 23, 2024 | 8:00am – 12:00pm • The Westin Riverwalk, San Antonio (ICEF 2024 Conference Venue)

Registration fee: \$350 USD • Registration for the short course is separate from the ICEF conference registration.

The media is littered with a myriad of opinions on how global markets should achieve improved energy efficiency in the transportation sector. Don't miss the chance to learn from distinguished lecturers who will analyze the energy challenge based on fundamental science.

The short course will consist of three modules:

1. The first module focuses on the thermodynamic upper bounds of IC engines based on first principles. First and second law concepts will be used to reinforce approaches underway to improve efficiency and performance.
2. Market and societal based constraints faced by today's engine manufacturers and researchers will be discussed. It will be argued that a rational approach to achieving sustainable mobility systems must consider the likely timelines for new resource extraction and processing, implementing new infrastructure, and the transition of the manufacturing base which currently supplies the global demand for mobility propulsion systems.
3. Promising enabling technologies which are consistent with constraints of fundamental physics and market and societal issues, and how these technologies mesh with changes in a propulsion system's energy carrier.

#### Instructors



**David E. Foster, Ph.D.**  
**Phil and Jean Myers Professor Emeritus**  
**Engine Research Center**  
**University of Wisconsin – Madison (ret.)**

David E. Foster is the Phil and Jean Myers Professor Emeritus of Mechanical Engineering of the University of Wisconsin - Madison. He received his Ph.D. in Mechanical Engineering in 1979 from MIT. He was a founding member of the Engine Research Center (ERC) and served as its Director from 1994 through 1999, and from September 2008 through December 2011. He was also the Founding Co-Director of the General Motors – ERC - Collaborative Research Laboratory, from its inception in 2002 until his retirement in 2012. He has served on numerous NRC and National Academy review and assessment committees; he is an SAE Fellow and is the recipient of the Academic Contribution Award from the Japanese Society of Automotive Engineers, the UW College of Engineering Byron Bird Excellence in Research Publication Award, the ASME Honda Gold Medal, the SAE Horning Award, and the SAE John Johnson Award.



**Kevin Hoag**  
**Technical Fellow**  
**Southwest Research Institute (SwRI)**

Kevin Hoag is currently an Institute Engineer in Powertrain Engineering at the Southwest Research Institute and is now Professor Emeritus from the University of Wisconsin–Madison where he taught Engine Design and Engine Performance and Combustion since 2007. Kevin holds bachelor's and master's degrees in mechanical engineering from the University of Wisconsin. Before returning to the university, he held a variety of roles in engine combustion and thermodynamics for over 16 years at Cummins, Inc.

Subject to cancellation if the minimum number of registrations is not achieved by August 23rd. [Contact Dr. Andrea Strzelec with any questions.](#)



## TEC Sector News and ICED Updates



### Tom Lavertu, Wabtec

TEC Sector Council Senior Vice President-Elect and Vice Chair  
*ICE Division Executive Committee, Past Member*

As the TEC Sector Senior Vice President-Elect and Vice Chair, Tom will continue to serve as Council Vice Chair and work with the current Senior VP of the TEC Sector Council to lead major business and product development

initiatives to advance ASME's mission.



### Akin Keskin, Rolls-Royce

TEC Sector Council Member at Large  
*IGTI Division Executive Committee, Past Chair*

As the TEC Sector Council Member-at-Large, Akin will lead task forces or committees to align ASME directives with member needs, and other projects assigned by the Senior Vice President.

Learn more about the [ASME Technical and Engineering Communities \(TEC\) Sector](#) or [contact the TEC Sector](#).

### Conference Webtool Task Force

The webtool taskforce, led by **Vicki Risinger**, ExxonMobil (TEC Sector Council Vice Chair), will review and update the RFP and business requirements documents, and compile a list of paper management vendors. Task Force members can offer input on the conference webtool needs and suggest vendors. If a new system is selected, implementation is planned for July 2026. **Matthew Hart**, Wabtec Corporation, represents the ICE Division on the taskforce.

### Webtool Feedback

Submitted requests and status can be viewed at: <https://asmetraining.wpengine.com/feedback-and-feature-requests-received/>

### Webtool Feedback Submission Form

All webtool users are encouraged to provide feedback through the webtool feedback submission form, where you can also view submitted requests.

[Webtool Help for ICEF 2024](#) or Contact the [ICEF 2024 webtool staff](#).

### Author Registration Guidelines Task Force

The Author Registration Guidelines Task Force, led by Prof. **Damian Vogt**, University of Stuttgart (TEC Sector Council Member at Large), has been established to assess and enhance the existing conference registration guidelines for authors. It offers a platform for volunteer leaders from various divisions to collaborate, exchange insights, and progress collectively towards a shared objective. The goal is to develop updated author registration guidelines that are equitable across all TEC Conferences, while also safeguarding the financial stability of each event. Prof. **Noah Van Dam**, University of Massachusetts Lowell, represents the ICE Division on the taskforce.

### Welcome to the ICED Executive Committee

#### Dr. Yuanjiang Pei, Aramco Americas' Detroit



Dr. Yuanjiang Pei is a Team Leader at the Aramco Americas' Detroit Research Center. His team focuses on innovating and developing sustainable transport technologies using state-of-the-art simulation tools. He recently initiated an industry-focused consortium, IMPACT (Initiative for Modeling Propulsion And Carbon-neutral Transportation), to develop accelerated virtual

methods for sustainable transport technologies. Pei is actively involved in the organization of several international conferences, serving both ASME and the Society of Automotive Engineers (SAE). He was presented with numerous prestigious awards, including the HPCwire Award four years in a row and 2019 ASME Chairman's Distinguished Service Award.

### Code of Conduct

Review the ASME code of conduct/anti-harassment [here](#).

### DEI Toolkit

ASME seeks to ensure all members feel welcomed and included in the ASME community, to include ASME members of all backgrounds in all volunteer roles, and to provide a culture of respect and courtesy. We encourage ongoing dialogue that will inspire all members to bring these values to their personal and professional interactions. Review the ASME DEI Toolkit [here](#).

### Rules of Engagement for Meetings

This slide suggests some ground rules for inclusive meetings. If you would like the PowerPoint slide, please contact [Laura Herrera](#), ASME Senior TEC Operations Manager.

[ASME ICED Operations Guide](#)—Revision 1 approved June 4, 2024



## Congrats to the following award winners from ICED!

### ASME Fellow



**Scott Curran**  
Oak Ridge National Laboratory



**Tiegang Fang**  
North Carolina State University



**Will Northrop**  
University of Minnesota



**Yuanjiang Pei**  
Aramco Americas



**Sreenath Gupta**  
Argonne National Laboratory

### ASME Dedicated Service Award



**Kelly Senecal**  
Convergent Science



**Ronald Grover**  
General Motors

### ASME George Westinghouse Gold Medal



**Robert Wagner**  
Oak Ridge National Laboratory

### ASME Internal Combustion Engine Award



**Zoran Filipi**  
Clemson University

### ASME Soichiro Honda Medal



**Hongtei Tseng**  
University of Texas

## Upcoming Award Nomination Deadlines

Award Name	Nomination Deadline
Soichiro Honda Medal	October 1, 2024
Richard J. Goldstein Energy Lecture Award	October 1, 2024
Dedicated Service Award	November 1, 2024
George Westinghouse Medal	February 1, 2025
James Harry Potter Gold Medal	February 1, 2025
Calvin W. Rice Lecture Award	February 1, 2025
Internal Combustion Engine	February 1, 2025
Robert Henry Thurston Lecture Award	February 15, 2025
Meritorious Service Award	May 1, 2025
Engine Impact Award	August 1, 2025



## Upcoming ASME Events

### MNHMT 2024

*International Conference on Micro/Nanoscale Heat and Mass Transfer*  
August 5–7, 2024  
Nottingham, United Kingdom

### IDETC-CIE

*International Design Engineering & Computers and Information in Engineering Conference*  
August 25–28, 2024  
Washington D.C., USA

### SP<sup>3</sup>

*Space Propulsion & Power Platform*  
August 26–29, 2024  
Cambridge, MA USA

### SMASIS 2024

*Smart Materials, Adaptive Structures, and Intelligent Systems*  
September 9–11, 2024  
Atlanta, GA USA

### POWER 2024

*ASME Power Division Conference*  
September 15–18, 2024  
Washington D.C., USA

### IPC 2024

*International Pipeline Conference*  
September 23–27, 2024  
Calgary, Canada

### ICEF 2024

*The ICE Forward Conference*  
October 20–23, 2024  
San Antonio, TX USA

### BJRS 2024

*Bolted Joint Reliability Symposium*  
October 21–24, 2024  
Houston, TX USA

### DTOG 2024

*Digital Horizons: Energizing Transformation in Oil and Gas*  
November 11–13, 2024  
Houston, TX USA

### IMECE 2024

*International Mechanical Engineering Congress & Expo*  
November 17–21, 2024  
Portland, OR USA

### HyRRAC 2025

*Hydrogen Risk and Reliability Analysis Conference*  
February 3–5, 2025  
Glendale, CA USA

### VVUQ 2025

*Verification, Validation, and Uncertainty Symposium*  
April 9–11, 2025  
College Station, TX USA

### SSDM 2025

*Aerospace Structures, Dynamics, and Materials Conference*  
May 5–7, 2025  
Houston, TX USA

### OMAE 2025

*International Conference on Ocean, Offshore and Arctic Engineering*  
Jun 22–27, 2025  
Vancouver, Canada







# ICEF 2025

## ICE Forward Conference

Fall 2025  
Knoxville, TN USA



VISIT  
KNOXVILLE  
TENNESSEE







# ICED Webinar Series

## The Future of the Internal Combustion Engine

The ASME Internal Combustion Engine (ICE) Division Executive Committee has been holding a complimentary webinar series titled “The Future of the Internal Combustion Engine”. The goal of this series is to communicate the role of the ICE in our decarbonized society.

### Topics include

- Light Duty
- Heavy Duty
- Combustion
- Electrification
- Alternative Fuels
- Computer Simulations
- AI, and much more!



**Watch the on-demand webinars!**



## From the Archives

*Charles Finney*

### The genesis of the topical technical conference

As shown in previous *From the Archives* editions, the Division was founded in 1908 with a singular focus on the exchange of information to move ICE science and technology forward. Now, ever as much as then, the principal means of such exchange is the congregation of persons with mutual interests into technical conferences. This is somewhat fitting, given that the Division was founded as a result of an exciting focused technical session at the 1907 ASME Annual Meeting. Here, I'll briefly outline the evolution of technical meetings from irregularly held sessions at national meetings to the focused, regular topical meeting system that we have now.

In the early days of the Gas Power Section, special sessions were hosted within ASME national meetings, either during the Annual Meeting, usually held in December, or during the Spring Meeting. The early activities of the GPS were constant and fervent, with multiple active committees producing work, and the frequency of these sessions were regular until the original GPS's dissolution.<sup>1</sup>

After the GPS was involuntarily reorganized by ASME in 1915, work continued as a subcommittee through the end of World War I, during which general activities in multiple topics were either depressed or retasked; there were only sporadic papers.<sup>2</sup> [During the war, all of the mechanical engineering faculty at Columbia University trained military staff in maintaining the new gas engines used in naval vessels and other applications, running the Navy's Gas Engine School<sup>3</sup>.]

Following the war, interest in oil (diesel) and gas power resumed, and this coincided with a renewed interest within ASME regarding technical divisions, as the memory of the successful Gas Power Section was still fresh among members. Starting in 1920, the technical division system was revived, and the Gas Power Section, soon Division, was reorganized in 1921. The GPD was able to resume activities as well as host sessions in the national meetings, as before.<sup>4</sup>

In 1924, the GPD was renamed to the Oil and Gas Power Division, a name which it retained until 1964. This renaming reflected a general mood of excitement regarding reciprocating ICEs, which interest was shared among the public. In 1925, multiple government and technical organizations initiated a series of local events across the nation during a designated Oil and Gas Power Week (OGPW). Typically, local events would include lectures and sometimes demonstrations. OGPW persisted for several years in the 1920s. The Division awarded a prize for the best paper presented during OGPW.

Pennsylvania State University went a bit further with Oil and Gas Power Week: in 1927, Penn State organized and hosted the First Annual Oil Power Conference. This was a three-day event with a variety of talks related to diesel engines, and while speakers were predominantly from Penn State, participants ranged from other institutions.

This topical technical conference generated interest among members of the OGPW, and the next year saw a joint meeting of the Second Annual Oil Power Conference and the First National Meeting of the Oil and Gas Power Division; there were 206 registrants. The first page of the proceedings program is reproduced above. This inaugural meeting started a very successful series of annual meetings which continued through 1978, whereafter it was supplanted by the fall—

**PROGRAM**

**PART II**

**FIRST NATIONAL MEETING**  
of the  
**OIL AND GAS POWER DIVISION**  
**A. S. M. E.**

and

**SECOND ANNUAL OIL POWER CONFERENCE**  
of  
**THE PENNSYLVANIA STATE COLLEGE**  
**June 14-16, 1928**

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**GENERAL SESSION**  
**Thursday, June 14, 10:30 A. M.**  
CHAIRMAN—**F. G. HECHLER**  
*Professor of Engineering Research*  
*The Pennsylvania State College*

Address of Welcome,  
By **DR. RALPH D. HETZEL**, President of The Pennsylvania State College  
**PRESIDING OFFICER—FRED R. LOW**  
*Past President A. S. M. E.*

European Diesel Engine Development,  
By **OLIVER F. ALLEN**, International General Electric Company,  
Schenectady, N. Y.

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**ECONOMICS SESSION**  
**Thursday, June 14, 2:15 P. M.**  
**PRESIDING OFFICER—R. L. SACKETT**  
*Dean, School of Engineering*

The Economic Field for Small and Medium Size Diesel Engines,  
By **H. A. PRATT**, Manager Oil Engine Department, Ingersoll-Rand Company,  
New York, N. Y.

The Economic Field for Large Diesel Engines,  
By **E. B. POLLISTER**, General Manager, Busch-Sulzer Bros., Diesel Engine  
Company, St. Louis, Missouri

The Diesel Engine and the Public Utilities,  
By **ROSWELL H. WARD**, Managing Editor, Motorship, New York, N. Y.

Discussion led by,  
**EDGAR J. KATES**, Consulting Engineer, New York City and Chairman of  
the Oil and Gas Power Division

General Discussion.

**CONFERENCE ON DIESEL FUEL OIL SPECIFICATIONS**  
**Friday, June 15, 9:00 A. M.**  
**PRESIDING OFFICER—G. L. WENDT**  
*Dean, School of Chemistry and Physics*

Diesel Fuel-Oil Specifications,  
By **G. H. MICHLER**, Standard Oil Company of New Jersey, New York, N. Y.

and later also spring—technical conference series which led to the present-day ICE Forward Conference series. There was also a conference series 1977–1994 co-hosted with the Petroleum Energy Division.

A unique feature of the annual national meetings was the exhibits by vendors of engines and related subsystems. Another innovation in later years (1947) was the offering of in-depth lectures for participants who wanted a more thorough study of a given topic<sup>5</sup>; compare this with short course at the 2024 ICE Forward Conference. The Division meetings also continued the practice from the ASME national meetings of local site tours.

While the Division's conference format has evolved over the years, even today some practices are in place which were established almost a century ago. These persist because on a fundamental level, topical information exchange has certain invariant features, and this provides a guide for the constants and variables of ICE Forward.

<sup>1</sup>1907 AM (4 papers); '08 AM (2); '09 SM (4), AM (2); '10 SM (4), AM (2); '11 SM (multiple), AM (4); '12 SM (2), AM (1); '13 SM (1). <sup>2</sup>1915 AM (2 papers); '16 AM (4). <sup>3</sup>New York Times, 1919-07-20. <sup>4</sup>1921 AM (2 papers); '23 AM (2); '24 AM (3); '25 AM (4); '26 SM (3), AM (5); '27 SM (4), AM (2). <sup>5</sup>Brown JC (1951). The History of the Oil and Gas Power Division, *Proceedings 23rd Oil & Gas Power Conference*.



## 2024 Executive Committee

### Chair



Dr. **Kelly Senecal**  
Convergent Science, Inc

### Vice-Chair



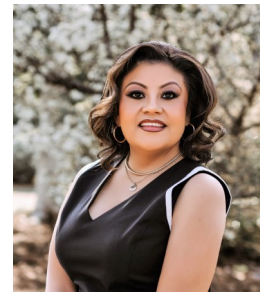
Dr. **Sundar Krishnan**  
University of Alabama

### Past Chair



Dr. **Sibendu Som**  
Argonne National Laboratory

### Sr. TEC Operations Mgr.



**Laura Herrera**  
ASME

### Conference Chair



**Dustin Osborne**  
Southwest Research Institute

### Conference Co-Chair



Dr. **Scott Curran**  
Oak Ridge National Laboratory

### Industry Advisor



Dr. **Ronald Grover**  
General Motors

### Events Management



**Colleen Seaver**  
ASME

### Member



Dr. **Andrea Strzelec**  
USCAR

### New Incoming Member



Dr. **Yuanjiang Pei**  
Aramco

### Treasurer



Vacant

### Secretary



Dr. **Thomas Lavertu**  
Wabtec Corporation

Associates Nominating Chair:

**William Northrop**

Honors and Awards Chair:

**Riccardo Scarcelli**

Best Paper Award Chair:

**Jim Cowart**

Best Presentation Award Chair:

**Dustin Osborne**

ICE Award Chair:

**Kelly Senecal**

Honda Medal Committee Rep: **David Foster & Ron Grover**

Westinghouse Medal Committee Rep: **Kalyan Srinivasan**

Long Range Planning:

History and Heritage Liaison:

Ops Guide:

Student Activities Chair:

Women in ICE Chair:

ICED Newsletter Editors:

**William Northrop**

**Charles Finney**

**Scott Curran**

**Noah Van Dam**

**Cathy Choi**

**Chris Stoos & Charles Finney**





## ICE Forward Ambassadors

The [ICE Forward Ambassadors](#) are a global group of prominent researchers who help promote the ICE Division and the ICE Forward Conference.



**Avinash K Agarwal**  
Professor  
Indian Institute of Technology  
Kanpur



**Carlo Beatrice**  
Research Director  
CNR-STEMS



**Martin H. Davy**  
Associate Professor  
University of Oxford



**Shouvik Dev**  
Research Officer and Program  
Technical Lead  
National Research Council of  
Canada



**Stefania Esposito**  
Lecturer (Assistant Professor)  
IAAPS – University of Bath



**Antonio García**  
Full Professor  
CMT Clean Mobility and Thermofluids  
Universitat Politècnica de València



**André Casal Kulzer**  
Prof. Dr.-Ing.  
University of Stuttgart, IFS/FKFS



**Olivier Laget**  
Doctor/Phd.  
IFP Energies nouvelles



**Felix Leach**  
Associate Professor  
University of Oxford



**Federico Millo**  
Professor  
Politecnico di Torino



**Ricardo Novella**  
Full Professor  
CMT Clean Mobility and Thermofluids  
Universitat Politècnica de València



**Christine Roussele**  
Professor  
University of Orléans, France



**Marc Sens**  
Senior VP Research & Technology  
IAV



**Ratnak Sok**  
Associate Professor  
Waseda University

