ASME DRIVN 2026

ASME'S GLOBAL TRANSPORTATION AND POWER SYSTEMS SUMMIT

SEPTEMBER 14-16, 2026

THE WESTIN SOUTHFIELD DETROIT | DETROIT, MICHIGAN, USA

The American Society of Mechanical Engineers®
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SETTING THE STANDARD

CONTENTS

	Page
Welcome Letters	2
Transportation Systems Division Executive Committee	6
2026 ASME DRIVN Conference Organizing Committee	7
Transportation Advisory Board	8
Conference Information	9
Schedule At A Glance	11
Industry Tours	13
Student and Early Career Opportunities	14
Student Posters	15
ElevateME: Students & Early Career Workshop	16
Keynote Speakers	18
Panel Sessions	20
ICE Distinguished Lecture	22
Award Committee Members	23
Call for Nominations	24
Award Winners	25
Conference Meals & Networking Events	28
WICE MoVE	29
Networking Reception, Hosted by WICE MoVE	30
Formula Hybrid + Electric (FH+E)	31
EcoCAR	32
Sponsors & Exhibitors	33
Track Chairs	35
Track Listing and Special Symposia	36
Author Index	39
Hotel Floor Plan	45

WELCOME LETTER

Dear Colleagues,

Welcome to the inaugural ASME DRIVN Conference, and thank you for being part of this historic moment for the ASME Transportation Systems Division.

The past several months have marked a period of significant change and growth. We are proud of the legacy built by the Internal Combustion Engine Division and equally enthusiastic about the mission driving the new Transportation Systems Division (TSD). TSD serves as a unified home for the full spectrum of transportation and power systems technologies, bringing our capabilities together under one forward-looking vision. While our foundation in engines remains as strong as ever, our community now brings together expertise spanning electrification, alternative fuels, batteries, fuel cells, autonomy, infrastructure, sustainability, and the many innovations that will shape the future of mobility.

ASME DRIVN was created to reflect this broader vision. Our goal is simple: bring together the world's leading researchers, engineers, students, and industry professionals to share ideas, challenge assumptions, and build collaborations across disciplines. The enthusiastic response from our community has exceeded our expectations and is a testament to the strength and relevance of this expanded vision.

This conference would not be possible without the extraordinary efforts of our Executive Committee, Advisory Board, Conference Organizing Committee, track chairs, reviewers, session organizers, authors, sponsors, volunteers, and of course, the ASME staff and the TEC Sector Council. Their dedication has transformed an ambitious idea into reality. We are also deeply grateful to our keynote speakers and panelists for generously lending their time and expertise.

Most importantly, thank you to every attendee for making ASME DRIVN what it is. Your presentations, discussions, questions, and conversations are what give this conference its value. This year's conference is packed with exciting engagement opportunities—from the ElevateME mentoring session for early-career engineers to the WICE MoVE women in transportation networking mixer to the tours at General Motors, the University of Michigan, and the UL Battery Lab. There's truly something for everyone. We encourage you to explore new topics, connect across disciplines, and help shape the future of our division.

We hope you find ASME DRIVN to be technically rewarding, professionally valuable, and personally enjoyable. We look forward to building this tradition together for many years to come.

Sincerely,

Kelly Senecal
Chair, ASME Transportation Systems Division

Ronald Grover
Events Lead, ASME Transportation Systems Division

On behalf of the ASME Transportation Systems Division Executive Committee

WELCOME LETTER

We are delighted to welcome you to Detroit, Michigan, for the first ASME Transportation Systems Division's ASME DRIVN 2026, ASME's Global Transportation and Power Systems Summit. ASME DRIVN (pronounced "driven") brings together engineers and researchers working across land- and sea-based transportation systems. The conference spans a broad range of propulsion and mobility technologies - including electrification, internal combustion engines (ICE), hybrid systems, autonomy, connected vehicles, safety, and sustainability. ASME DRIVN is a technology-focused forum featuring cutting-edge research papers, high-impact presentations, and engaging panel discussions with influential leaders, along with recognition of innovators shaping the future of transportation and energy systems. The Westin Southfield Detroit will serve as our conference hub. We would also like to thank our current sponsors: Convergent Science, Cummins, UL Solutions, Cambustion, Coordinating Research Council (CRC), and USCAR.

The conference begins on Monday evening with a welcome reception and an interactive technical poster session. Over the following two days, technical sessions will highlight cutting-edge research and developments shaping the future of transportation technologies. The program for this inaugural version of the Transportation System Division's ASME DRIVN Conference features a wide range of topics, and includes many highlights:

- Tuesday Opening Keynote by Mike Anderson, Vice President, Propulsion Engineering, General Motors
- ICE Distinguished Lecture by Prof. Dennis Assanis, Chancellor, University of California, Santa Barbara, in conjunction with the Monday lunch event
- Panel Session on Challenges Facing Future Powertrain Development (Tuesday afternoon)
- WICE MoVE Mentoring & Networking Event (Tuesday evening, for registered participants)
- Wednesday Keynote by Peter Tadros, Regional President, Power Solutions, Bosch in North America
- Panel Session on Scaling ADAS and Autonomous Mobility (Wednesday afternoon)
- Honors and Awards Banquet (Wednesday evening)

The conference also includes an ElevateME Student and Early Career Program on Monday, a ticketed event in the afternoon, and concludes on Thursday with tours of MCity and EVC, of General Motors Performance and Racing Center, and of UL Solutions: North America Advanced Battery Laboratory, for registered participants.

This conference reflects ASME's mission to advance transportation technologies. It is made possible through the dedication of our volunteers, reviewers, authors, speakers, ASME staff, and sponsors — whom we encourage you to connect with throughout the event. We are honored to chair this year's conference and are committed to ensuring an outstanding experience for every attendee. Thank you for joining us—we look forward to a productive and enjoyable conference together.

Giorgio Rizzoni
The Ohio State University

ASME DRIVN Conference Chair

Lily Elefteriadou
University of Florida

ASME DRIVN Conference Co-Chair

WELCOME LETTER

Welcome to the inaugural ASME DRIVN Conference, and welcome as well to Southeast Michigan for all our visiting guests. We are delighted to have you here and hope you enjoy your stay in this region, which has long stood at the center of automotive engineering, manufacturing, and innovation.

I am proud to welcome you to a conference that reflects the spirit of technical excellence and forward-thinking collaboration. For more than a century, GM has helped shape the automotive industry through a legacy of bold design, engineering achievement, and continuous innovation. From advancing vehicle performance and safety to reimagining mobility for future generations, GM has always believed that progress is driven by the talent, curiosity, and determination of people who are committed to solving meaningful challenges.

That same spirit guides our corporate vision today: Zero Crashes, Zero Emissions, and Zero Congestion. These goals represent our commitment to creating a safer, cleaner, and more connected future for transportation. The content and purpose of ASME DRIVN align strongly with this vision. This conference brings together engineers, researchers, industry leaders, and students to exchange ideas, develop solutions, and inspire the next wave of progress across mobility and vehicle technology.

During the conference, you will have the opportunity to experience many GM highlights, including the opening keynote by Mike Anderson, GM Vice President of Propulsion Engineering, as well as technical presentations, expert panelists, mentors, and a tour of the GM Racing facility in Pontiac. We hope these experiences provide valuable insight, spark new conversations, and deepen your appreciation for the innovation taking place across our industry.

Thank you for being part of this important inaugural event. We hope you find the conference engaging, informative, and inspiring, and that you enjoy your time here in Southeast Michigan.

Prabjot Nanua

Executive Director of Global Advanced
Electrified Propulsion

ASME DRIVN Executive Conference Chair

ASME DRIVN 2026

TRANSPORTATION SYSTEMS DIVISION EXECUTIVE COMMITTEE

Kelly Senecal
Convergent Science
Chair

Marc Sens
IAV GmbH
Vice Chair

Felix Leach
University of Oxford
Secretary

Ali Borhan
Cummins
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Simona Onori
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Meghna Dhanji
Exponent Inc.
Student & Early Career Lead

Ross Wang
Oak Ridge National Lab.
Honors & Awards Lead

Terry Alger
UL Solutions
Industry Lead

Graham Conway
Pickering Energy Partners
Membership Lead

ASME DRIVN 2026

2026 ASME DRIVN CONFERENCE ORGANIZING COMMITTEE

Giorgio Rizzoni, Ph.D.
The Ohio State University
Conference Chair

Prabjot Nanua, Ph.D.
General Motors
Executive Conference Chair

Lily Elefteriadou, Ph.D.
University of Florida
Conference Co-Chair

Tim Shipp
Cummins Inc.
Technical Program Chair

Ameya Joshi, Ph.D.
Mobility Notes
Review Chair

Noah Van Dam, Ph.D.
University of Massachusetts Lowell
Student & Early Career Chair

Simona Gurri, Ph.D.
Politecnico di Torino
Global Engagement Chair

Jinming Liu, Ph.D.
General Motors
Local Liaison Committee Chair

TRANSPORTATION ADVISORY BOARD

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Convergent Science
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Conference Co-Chair

Tim Frazier
VP, Global Research and Technology
Cummins Inc.

Marc Sens
Senior Vice President Research & Technology
IAV

Josh Pihl
Dir. of Buildings and Transportation Science
Oak Ridge National Lab

Ardalan Vahidi
Professor of Mechanical Engineering
Clemson University

CONFERENCE INFORMATION

REGISTRATION INFORMATION

Algonquin Foyer, First Floor

MONDAY, SEPTEMBER 14:	1:00 PM–6:00 PM
TUESDAY, SEPTEMBER 15:	7:00 AM–6:00 PM
WEDNESDAY, SEPTEMBER 16:	7:30 AM–6:00 PM

EXHIBIT INFORMATION

Algonquin Foyer, First Floor

(SET UP) MONDAY, SEPTEMBER 14:	1:00 PM–6:00 PM
TUESDAY, SEPTEMBER 15:	7:00 AM–6:00 PM
WEDNESDAY, SEPTEMBER 16:	7:30 AM–5:00 PM

BADGE REQUIRED FOR ADMISSION

All conference attendees must wear the official ASME DRIVN badge at all times to gain admission to technical sessions, keynotes, panels, meals, and other conference events. Without a badge, you will not be granted admission to conference activities.

SESSION ROOM EQUIPMENT

Each session room is equipped with a screen, LCD projector, and laptop. Speakers should arrive to their session room 10–15 minutes prior to the session start time. Bring a copy of your presentation on a USB/thumb-drive to be loaded onto the show computer or make arrangements in advance with your session organizer.

ASME CONFERENCES APP

ASME DRIVN will utilize a mobile event app in place of a printed program to enhance the conference experience for attendees, speakers, and sponsors. Download the ASME Conference App and hold the entire program in the palm of your hand!

The App allows you to easily look up sessions, search for papers or people, message with other attendees, and create your own schedule. Be sure to download the app for the latest information.

CONFERENCE INFORMATION

INTERNET ACCESS IN THE HOTEL

Wi-Fi is included in your guest room and in the meeting space.

Please visit the registration desk or reference the ASME Conferences App for details.

CONFERENCE PROCEEDINGS

Each attendee will receive an email with a unique code to access digital copies of all the papers accepted for presentation at the conference. The official conference archival proceedings will be published after the conference and will not include accepted papers that were not presented at the conference. The official conference proceedings are registered with the Library of Congress and are submitted for abstracting and indexing. The proceedings are published on the ASME Digital Library. You will be provided with an individual link to the online papers via email. In the event you do not receive the email, send a request to conferencepubs@asme.org.

PRESENTER ATTENDANCE POLICY

According to ASME's Presenter Attendance Policy, if a paper is not presented at the conference, the paper will not be published in the official Archival Proceedings, which are registered with the Library of Congress and are abstracted and indexed. The paper also will not be published in the ASME Digital Collection and may not be cited as a published paper.

PHOTOGRAPHS/VIDEO/AUDIO RECORDINGS

Unless otherwise agreed to in a separate document, participants are reminded that material presented at ASME conferences is under copyright of ASME. As a result, any recording of the presentations is prohibited.

LIMITATION OF LIABILITY

You agree to release and hold harmless ASME from all claims, demands, and causes of action arising out of or relating to your participation in this event.

SCHEDULE AT A GLANCE

MONDAY, SEPTEMBER 14

1:00 PM-6:00 PM Algonquin Foyer	**Registration**
8:00 AM-12:00 PM TCs Room	**TSD Executive Committee Meeting**
12:00 PM-4:00 PM Windover	**ElevateMe Student and Early Career Program**
1:00 PM-4:00 PM TCs Room	**ICE TC LT Meeting**
4:30 PM-5:30 PM Auditorium	**TSD Member Meeting**
5:30 PM-7:00 PM Windover	**Welcome Reception and Technical Poster Session**

TUESDAY, SEPTEMBER 15

7:00 AM-6:00 PM Algonquin Foyer	**Registration**
8:00 AM-9:00 AM Algonquin Ballroom	**Keynote** Mike Anderson General Motors
9:00 AM-9:20 AM Algonquin Foyer	**Coffee Break**
9:20 AM-11:20 AM Reference App	**Technical Sessions**
11:20 AM-12:40 PM Algonquin Ballroom	**Lunch** **ICE Distinguished Lecturer** Dennis Assanis UC Santa Barbara
12:50 PM-2:30 PM Reference App	**Technical Sessions**
2:30 PM-2:50 PM Algonquin Foyer	**Coffee Break**
2:50 PM-3:50 PM Algonquin Ballroom	**Panel** Challenges Facing Future Powertrain Development
4:00 PM-5:20 PM Reference App	**Technical Sessions**
5:30 PM-6:00 PM Algonquin Ballroom	**Technical Community Track Meetings**
6:00 PM-7:30 PM Windover	**WICE MoVE Networking Reception**

SCHEDULE AT A GLANCE

WEDNESDAY, SEPTEMBER 16

7:30 AM-6:00 PM Algonquin Foyer	**Registration**
8:00 AM-9:00 AM Algonquin Ballroom	**Keynote** Peter Tadros Bosch in North America
9:00 AM-9:20 AM Algonquin Foyer	**Coffee Break**
9:20 AM-11:20 AM Reference App	**Technical Sessions**
11:20 AM-12:40 PM Algonquin Ballroom	**Lunch & Student Competition Presentations**
12:50 PM-2:30 PM Reference App	**Technical Sessions**
2:30 PM-2:50 PM Algonquin Foyer	**Coffee Break**
2:50 PM-3:50 PM Algonquin Ballroom	**Panel** Scaling ADAS and Autonomous Mobility
4:00 PM-5:20 PM Reference App	**Technical Sessions**
5:30 PM-7:00 PM Algonquin Ballroom	**Honors & Awards Banquet**

THURSDAY, SEPTEMBER 17

TECHNICAL TOURS (Register here!)

8:00 AM-11:00 AM	**University of Michigan, Mcity**
9:00 AM-10:30 AM	**GM Pontiac Performance and Racing Center**
10:00 AM-2:45 PM	**Ul Solutions**

INDUSTRY TOURS

On Thursday, September 17, attendees can go behind the scenes at the region's premier automotive and energy testing facilities. Transportation is provided by the tour providers. **Attendees must present their conference badge to board transportation.**

SPACE IS LIMITED. REGISTER HERE!

MCITY & EVC TECH TOUR, RIDE AND DRIVE

Start Time: 8:00 AM (tour length, including travel time: 3 hours)
Location: Building 18, 2800 Plymouth Rd, Ann Arbor, MI 48109

Tour the University of Michigan EV Center and Mcity facility, followed by an exciting ride-and-drive event on the Mcity track featuring hybrid and electric vehicles. Get a first-hand look at world-class mobility research and advanced testing for connected, automated, and electrified vehicles.

GM PERFORMANCE AND RACING CENTER

Start Time: 9:00 AM (tour length, including travel time: 1.5 hours)
Location: 900 N Glenwood Ave, Pontiac, MI 48340

Join our exclusive technical tour of GM's Pontiac Performance and Racing Center for a rare, behind-the-scenes look at GM's high-performance propulsion systems. Guests will tour three featured facilities: the engine build, dyno labs, and the machine shop to see advanced powertrain engineering and validation in action.

UL SOLUTIONS NORTH AMERICAN ADVANCED BATTERY LAB

Start Time: 10:00 AM (tour length, including travel time: 4 hours)
Location: 4322 New Energy Wy, Auburn Hills, MI 48326

Discover how UL Solutions is shaping the future of battery innovation through cutting-edge certification and research. Our North America Advanced Battery Laboratory is purpose-built to support the evolving needs of the electric mobility and energy storage industries, offering comprehensive services for lithium-ion batteries and beyond.

STUDENT AND EARLY CAREER ENGINEER OPPORTUNITIES

ASME ICED UNDERGRADUATE STUDENT RESEARCH COMPETITION

The ASME ICED Undergraduate Student Research Competition is a prestigious annual event that showcases outstanding undergraduate research in internal combustion engines, emissions systems, fuels and sprays, and carbon management.

Up to two top submissions will be selected to present their research to an audience of leading experts at the ASME ICE Forward Conference. Selected students will receive complimentary conference registration and up to $1,500 in travel reimbursement.

In addition to gaining valuable presentation experience, participants often build lasting professional connections. The connections made through this opportunity have helped past students advance their careers and pursue graduate studies.

TECHNICAL POSTERS

The ASME Internal Combustion Engine Division welcomes submissions for the Technical Poster Session - an excellent opportunity for researchers to present their work to a broad audience within the internal combustion engine community.

Participants will have the chance to share their research, engage in meaningful discussions with industry leaders and academic experts and receive valuable feedback from seasoned professionals in the field. All poster presenters will be considered for the Best Poster Award, which recognizes outstanding contributions to internal combustion engine research.

INTERNAL COMBUSTION ENGINE DIVISION EARLY CAREER AWARD

The ASME Internal Combustion Engine Division proudly presents the Early Career Engineer Award to recognize outstanding contributions to research and development in internal combustion engines and aftertreatment systems.

This award honors early career professionals from academia, national laboratories, and industry who have demonstrated exceptional promise and made a significant impact within the ICE community.
While membership in the ICE Division is not a requirement, recipients are encouraged to engage with the division and contribute to its vibrant technical community.

STUDENT POSTERS

AUTHOR INSTRUCTIONS

Each presenter is responsible for **printing and bringing a physical poster** to the conference.

Posters must not exceed the dimensions of **45" H x 36" W**.

Poster boards and thumbtacks will be available onsite.

Arrive by 4:30 PM on Monday, September 14th to mount and display your poster.

JUDGING CRITERIA

Posters will be evaluated by a panel of judges using a **5-point Likert scale** based on the following criteria:

- **T. Technical Quality**
- **V. Visual Clarity**
- **O. Oral Presentation**
- **D. Discussion & Q&A**

Final award decisions will be based on the compiled scores. Winners will be announced at the **Awards Banquet on Wednesday, September 16, between 5:30 – 7:00 PM**.

AWARDS

TSD Executive Committee will present four awards:

- **Best Overall Poster Award**
- **Best Student Poster Award**
- **Most Innovative Concept Award**
- **Largest Real-World Impact Award**

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UL Solutions

Powering the future of mobility:

Comprehensive EV battery testing for safety, performance and reliability

UL Solutions' new North America Advanced Battery Laboratory in Auburn Hills, Mich., offers comprehensive testing services to help original equipment manufacturers (OEMs), battery manufacturers and suppliers comply with global safety, performance and quality standards, mitigate risks and accelerate market entry.

With over 40 years of battery testing experience, we do more than test batteries – we help shape the future of battery safety and performance.

Key benefits for OEMs and suppliers

- End-to-end testing services
- Regulatory compliance
- Risk mitigation
- Customized testing to OEM-specific requirements
- Streamlined certification process

Learn more at:
UL.com/AuburnHills

ELEVATEME: STUDENTS & EARLY CAREER WORKSHOP

Kick start your engineering career with a dynamic, high value workshop designed specifically for students and early career engineers. Whether you are preparing to enter the workforce or looking to strengthen essential professional skills, this event will help you learn from experts, build your network, and take your next career step with confidence.

SCHEDULE:

12:00 – 12:45pm: Lunch & Networking
12:45 – 1:00pm: Welcome
1:00 – 2:00pm: Breakout Sessions
2:00 – 2:30pm: Refreshment Break
2:30 – 3:30pm: Breakout Sessions
3:30 – 4:00pm: Prize Drawing & Closing Remarks

BREAKOUT SESSIONS

Communicate with Impact: A Presentation Skills Workshop

Learn to structure compelling presentations and effectively visualize technical data.
Master body language, verbal cues, and how to tailor your message to any audience.

Build Your Professional Network

Discover proven strategies for effective networking at conferences and outreach events.
Learn how to build strong collaborations and contribute to professional committees.

Mastering Professional Communication

Develop essential non-presentation skills, including technical report writing and proposals.
Learn to navigate team deadlines, professional email etiquette, and the role of social media.

The Engineering Bridge: From College to Industry

Gain an insider's look at the types of problems solved in industry and the key skills employers value.
Discuss how to align your education with your long-term career goals and the importance of intellectual property.

Land Your Dream Job: Resumes & Interviewing

Get tips on crafting an AI-proof resume and leveraging recruiters.
Learn techniques to prepare for and ace technical and behavioral interviews.

Charting Your Course: Exploring Diverse Engineering Career Paths

Gain an insider's perspective on the unique opportunities and challenges in industry, government, academia, and entrepreneurship to help you find the right fit.

ASME DRIVN 2026

ElevateME: MEET THE MENTORS

Robert Wagner, Ph.D.
Associate Laboratory Director
ORNL Energy Science and Technology Directorate

Margaret Wooldridge, Ph.D.
Professor, Mechanical Engineering
University of Michigan

Cathy Choi, Ph.D.
Chairperson of the Board & CEO
Advanced Machine and Vehicle Innovation Center

Lou Hector, Jr., Ph.D.
Senior Research Fellow
General Motors

Anna Stefanopoulou, Ph.D.
Professor, Mechanical Engineering
University of Michigan

Scott Hotz
Founder & CEO
Simplify Tech

Josh Pihl
Director of Buildings and Transportation Science
Oak Ridge National Lab

Megan McGovern
Staff Researcher and Technical Assistant to Head of R&D
General Motors

Jamie Parnell
Principal Product Engineer
Cambustion

Andrew Baur
Research Center Director
Aramco Americas

Scott E. Parrish, Ph.D.
Technical Fellow and Lab Group Manager
Research & Development

Christopher Chadwell
General Manager
Element Materials Technology

KEYNOTE

Mike Anderson
Vice President, Propulsion Engineering
General Motors

BIOGRAPHY: Mike Anderson is Vice President of Propulsion Engineering at General Motors, where he leads all aspects of electric and internal combustion propulsion technology development and execution.

During his 35-year career at GM, Mike has held numerous senior engineering leadership roles, including Executive Director of Global Virtual Design, Development & Validation; Executive Director of Global Transmission & Electrification Hardware; Executive Director of Global Engine Hardware; Global Chief Engineer and Program Manager for four-cylinder gasoline engines; and Director of Engine Development & Validation. He has also served as President of FISITA, a global association of automotive engineering societies, representing more than 200,000 engineers across 35 countries.

Mike has authored technical papers on the Miller Cycle, lean stratified direct injection, and continuously variable transmissions. He holds a patent for a methodology to determine instantaneous optimum valve lift in variable valve actuation systems. He has also served as an instructor in the SAE Spark Ignition Engine Technology Engineering Academy and at the University of Michigan in the Integrated Vehicle System Design program.

Mike's contributions have been recognized with multiple honors, including the SAE Award for Automotive Innovation Honoring Edward N. Cole, the SAE Max Bentele Award for Engine Technology Innovation, the William Mirsky Memorial Award for outstanding graduate-level research at the University of Michigan, and most recently, the SAE International Franz Pischinger Award for Propulsion Innovation.

Mike holds a Bachelor of Science in Mechanical Engineering from Purdue University and a Master of Science in Mechanical Engineering from the University of Michigan.

KEYNOTE: The Multi-Lane Highway: The Bosch Vision for Future Mobility

Peter Tadros
Regional President, Power Solutions
Bosch in North America

ABSTRACT: As the automotive industry navigates shifting consumer preferences, evolving regulations, and increasing cost pressures, a single powertrain strategy is not sufficient. This keynote introduces the Bosch Vision for Future Mobility, highlighting how internal combustion, hybrid, battery electric, and hydrogen technologies each play a role in meeting diverse customer and market needs across North America. Attendees will gain insights into key mobility trends, the challenges of balancing affordability, performance, and emissions, and the systems-level innovations enabling scalable multi-energy platforms.

BIOGRAPHY: Peter Tadros is the regional president of Power Solutions for Bosch in North America. In this role, Tadros leads an organization with a broad portfolio of propulsion-related products and services supporting the passenger vehicle, commercial vehicle and off-road market segments. These include internal combustion and hydrogen-based propulsion systems, sensors and controls, as well as thermal management, hydrogen electrolysis systems and connected services.

Tadros' scope of responsibility includes manufacturing, engineering, finance and sales across the North American region. Prior to his current role, Tadros was global president of Port Fuel Injection for Bosch in Stuttgart, Germany and previously served as regional business unit leader for Port Fuel and Gasoline Direct Injection in North America. Since joining Bosch in 2001, Tadros has held leadership roles in program management, business development, marketing and executive business unit management in the U.S. and Germany.

Tadros earned a bachelor's degree in electrical engineering from Grand Valley State University located in Michigan. Tadros currently serves on the board of directors for The Fuel Cell and Hydrogen Energy Association. He is also part of the executive leadership team for the North American International Propulsion Conference.

ASME DRIVN 2026

TUESDAY, SEPTEMBER 15
2:50 PM – 3:50 PM

PANEL: The Challenges Facing Future Powertrain Development – Why is This So Difficult?

The U.S. automotive industry has spent the past five decades striving for energy independence, an achievement that has now been realized. However, this success is threatened by recent surges in global oil prices with energy price volatility placing further pressure on the industry, struggling under these shifting global dynamics. Heeding customer preferences is essential for any industry's success, yet these voices are often overlooked, to the detriment of the automotive industry.

Looking ahead, powertrain development in the United States will be marked by several key concerns with strategic decisions needing to be made by OEMs, suppliers, regulators and customers alike:

- Considering a return to the internal combustion engine, while remaining cautious about the potential for rising energy costs;
- Exploring hybrid and electrification technologies but facing challenges related to sourcing critical materials;
- Monitoring the rise of China as a formidable manufacturing competitor, with a focus on maintaining the U.S. market as a stronghold;
- Addressing the escalating costs associated with software-defined vehicle (SDV) development, including microprocessors, memory, and software; and
- Recognizing the growing competition for resources—components, power, capital, and talent—from the expanding fields of artificial intelligence and data centers.

MODERATOR

Chris Atkinson
Director of the Advanced Mobility Initiative
The Ohio State University

PANELISTS

Ameya Joshi
Founder
Mobility Notes

Jack Dolan
VP & Managing Director
JD Power

Graham Conway
Director - Sustainability
UL Solutions

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WEDNESDAY, SEPTEMBER 16
2:50 PM – 3:50 PM

PANEL: Scaling ADAS and Autonomous Mobility: A Conversation with Industry and the Public Sector

MODERATOR

Michael Hunter, Ph.D.
Professor of Civil Engineering
Georgia Tech

PANELISTS

Alan Davis, PE, PTOE
Director of Operations
GA Dept. of Transportation

Caitlin Mackay
Connected & Automated Vehicles Engineer
MI Dept. of Transportation

Priyantha (Pri) Mudalige
R&D
General Motors

Jeff Varick
Founder and CEO
Brandmotion

As advanced driver assistance systems (ADAS) and autonomous vehicle technologies move to large-scale deployment, collaboration between industry and government is critical to ensure improved safety and mobility for the traveling public. This panel brings together leaders from the public sector and the automotive and automated driving industries to discuss how emerging technologies can be safely integrated into the nation's transportation system.

Panelists will explore the role of digital and physical infrastructure, policy, and safety in widespread deployment, as well as how agencies and companies can work together to address challenges such as mixed traffic environments, public trust, usability, and evolving regulatory frameworks. The discussion will highlight practical solutions for collaboratively leveraging advanced technologies across the public and private sector to achieve the shared goals of safer roads, improved mobility, and a more resilient transportation system.

ASME DRIVN 2026

TUESDAY, SEPTEMBER 15
11:20 AM – 12:40 PM

INTERNAL COMBUSTION ENGINE DISTINGUISHED LECTURE

Dennis Assanis
Chancellor
University of California, Santa Barbara

BIOGRAPHY: Dennis Assanis is the sixth chancellor of UC Santa Barbara. He previously served as the president of the University of Delaware from 2016 to 2025.

Chancellor Assanis, an elected member of the National Academy of Engineering, Fellow of ASME, Fellow of SAE, and Fellow of the American Association for Advancement of Science. He is a distinguished educator with a wide range of academic leadership experience and a worldwide reputation as a scholar and expert in clean energy and power systems. His scientific contributions have led to significant fuel economy improvements and emission reductions in transportation. Among other prestigious honors, he has received the ASME Internal Combustion Engine Award. Dr. Assanis has served on the President's Council of Advisors on Science and Technology and on the National Commission on Innovation and Competitiveness Frontiers.

Dr. Assanis served as provost and senior vice president for academic affairs at Stony Brook University, and also as vice president for Brookhaven National Laboratory Affairs. Previously, he taught and conducted research at the University of Michigan, where he also served as Chair of Mechanical Engineering, Director of the Automotive Research Center, and Director of the campus-wide Energy Institute. He started his academic career at the University of Illinois at Urbana-Champaign.

Born and raised in Athens, Greece, Dr. Assanis earned his bachelor's degree in marine engineering from Newcastle University in England. At the Massachusetts Institute of Technology, he earned three master's degrees in naval architecture and marine engineering, mechanical engineering, and management; and a Ph.D. in power and propulsion. He has received an Honorary Doctor of Humane Letters from the University of Delaware.

HONORS AND AWARDS COMMITTEE MEMBERS

Andrew Baur
Research Center Director
Aramco Americas

Lisa Farrell
Director, Connected and Intelligent Systems
Cummins Inc.

Michael Mosburger
Chief Engineer
Robert Bosch LLC

Josh Pihl
Buildings and Transportation Science Division Director
Oak Ridge National Laboratory

Robert Prucka
Kulwicki Professor of Motorsports Engineering, Department Chair
Clemson University

Konstantina Vogiatzaki
Associate Professor, Engineering Science
University of Oxford

Thomas Wallner
Director, Transportation and Power Systems Division
Argonne National Laboratory

Ross Wang
Oak Ridge National Lab.
Honors & Awards Lead

ASME
TRANSPORTATION SYSTEMS DIVISION

Call for Award Nominations

ASME Society Awards

ASME Fellow

March 1, June 1,
September 1, December 1

Soichiro Honda Medal

October 1

ASME Dedicated Service Award

November 1

Internal Combustion Engine Award

February 1

Transportation Systems Division (TSD) - Nominate by March 15

TSD Early Career Award

TSD Outstanding Mentor Award

ICE TC Early Career Award

Engine Impact Award

Meritorious Service Award

AWARDS

ASME SOCIETY AWARDS

Margaret Wooldridge, Ph.D.
Professor, Mechanical Engineering
University of Michigan

ASME INTERNAL COMBUSTION ENGINE AWARD

The Internal Combustion Engine Award (ICE) recognizes eminent achievement or distinguished contribution over a substantial period of time, which may result from research, innovation, or education in advancing the art of engineering in the field of internal combustion engines; or in directing the efforts and accomplishments of those engaged in engineering practice in the design, development, application, and operation of internal combustion engines. In 1966, by bequest, the Diesel and Gas Engine Power Division established this award.

Robert Wagner, Ph.D.
Associate Laboratory Director
Oak Ridge National Laboratory

ASME DEDICATED SERVICE AWARD

The ASME Dedicated Service Award honors unusual dedicated voluntary service to the Society marked by outstanding performance, demonstrated effective leadership, prolonged, and committed service, devotion, enthusiasm, and faithfulness.

Dustin Osborne
Staff Engineer
Southwest Research Institute

ASME FELLOWS

The ASME Committee of Past Presidents confers the Fellow grade of membership on worthy candidates to recognize their outstanding engineering achievements.

AWARDS

TRANSPORTATION SYSTEMS DIVISION AWARDS (TSD)

Junmin Wang
Fletcher Stuckey Pratt Chair Professor in **Engineering**
University of Texas at Austin

TSD OUTSTANDING MENTOR AWARD

The TSD Outstanding Mentor Award recognizes exceptional mentorship and sustained contributions to the professional development of students, early career researchers, and/or professionals in transportation systems.

Le (Emma) Zhao
Senior Research Engineer
Aramco Americas: Aramco Research Center – Detroit

TSD EARLY CAREER AWARD

The TSD Early Career Award recognizes early career research excellence in all areas of transportation.

Thomas McCarthy
Director - Energy, Propulsion and Sustainability - Research & Advanced Engineering
Ford Motor Company

Jordan R. Lee
Former Chief Engineer
General Motors - Small Block Engines

ENGINE IMPACT AWARD

The Engine Impact award was created to honor internal combustion engine related research and development that has been put into practice towards a commercial product developed by industry. This award is specifically created to recognize researchers in industry who have made tremendous contributions to the ICE community.

AWARDS

TRANSPORTATION SYSTEMS DIVISION AWARDS (TSD)

Dimitris Assanis, Ph.D.
Associate Professor, Mechanical Engineering
Stony Brook University

ICE EARLY CAREER AWARD

This award honors internal combustion engine and aftertreatment related research and development for early career engineers. This award is specifically created to recognize early career researchers in academia, national labs, and industry who have made tremendous contributions to the ICE community.

MERITORIOUS SERVICE AWARD

This award was created to honor loyal service, guidance, leadership, and worthy contributions to the progress of the ICE community.

Poonam Gosar
Mechanical Development Engineer
INNIO - Waukesha Gas Engines

Vittorio Ravaglioli
Professor
University of Bologna

Noah Van Dam
Associate Professor
University of Massachusetts Lowell

Siqi Dai
Computer Science Student
University of Wisconsin, Madison

Michael Lemmon
Mechanical Engineering Student
University of Alabama

UNDERGRADUATE COMPETITION WINNERS

In recognition of excellence in undergraduate engineering research and outstanding technical achievement and presentation in the 2026 Undergraduate Engineering Student Competition.

CONFERENCE MEALS & NETWORKING EVENTS

WELCOME RECEPTION & TECHNICAL POSTER SESSION

MONDAY, SEPTEMBER 14
5:30 PM–7:00 PM

LUNCH & ICE DIVISION DISTINGUISHED LECTURE

TUESDAY, SEPTEMBER 15

11:20 AM–12:40 PM

LUNCH & STUDENT COMPETITION

WEDNESDAY, SEPTEMBER 16
11:20 AM–12:40 PM

WICE MoVE NETWORKING EVENT

TUESDAY, SEPTEMBER 15
6:00 PM–7:30 PM

NETWORKING BREAKS

TUESDAY, SEPTEMBER 15
9:00 AM–9:20 AM

2:30 PM–2:50 PM

WEDNESDAY, SEPTEMBER 16
9:00 AM–9:20 AM

2:30 PM–2:50 PM

HONORS & AWARDS BANQUET

WEDNESDAY, SEPTEMBER 16
5:30 PM–7:00 PM

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ASME DRIVN 2026

Women in Internal Combustion Engines, Mobility, Vehicles, and Energy (WICE MoVE)

ASME WICE MoVE
WOMEN IN INTERNAL COMBUSTION ENGINES, MOBILITY, VEHICLES, & ENERGY

WICE MoVE is an organization that aims to increase the recognition and representation of engineers within the energy to power field by championing the inclusion of women and all technical individuals from a wide range of backgrounds, experiences, and perspectives.

Cathy Choi, Chair
Advanced Machine and Vehicle Innovation Center and Knoxville Locomotive Works

Emily Bierman, Secretary
John Deere

Stefania Esposito, Outreach Leader & Webinar Lead
University of Bath

Poonam Gosar, Events & Sponsorship
INNIO Group

Meghna Dhanji, TSD EC Liaison
Exponent Inc.

Laura Herrera, Sr. TEC Operations Manager
ASME

Networking Reception, Hosted by WICE MoVE

TUESDAY, SEPTEMBER 15
6:00 PM – 7:30 PM

The Networking Reception sponsored by WICE MoVE is an informal and fun opportunity for all DRIVN attendees to meet new people and build connections across companies, career stages, and technical backgrounds. Whether you're early in your career and looking to expand your network, mid-career and interested in building new industry connections, or an experienced professional looking to meet emerging talent and exchange perspectives, there's something to gain from the evening.

Connect in whatever way feels right to you. Dive into our optional speed networking session for short, ice-breaker-guided chats, or unwind with refreshments and casual conversation at the open reception. This is a relaxed space to meet new people, share ideas, and walk away with meaningful connections across the energy-to-power technical community.

This event is available as an add-on when you register for ASME DRIVN.

For your information, the following provides the Networking Reception schedule.

6:00 - 6:10 PM	**Networking Reception Check-in**	
6:10 - 6:20 PM	**Welcome, WICE MoVE Introduction, Event Objectives**	
6:20 - 7:25 PM	**Open Networking Reception With Refreshments**	**Optional: Speed Networking** Format: 6 rounds × 7 minutes each 6-minute conversation, 1- minute rotation
7:25 - 7:30 PM	**Closing Remarks**	

FORMULA HYBRID + ELECTRIC (FH+E)

Formula Hybrid + Electric (FH+E) is bringing a piece of the competition to ASME DRIVN 2026, with Western University's student-designed and built vehicle on display throughout the event.

The car competed at the 2026 Formula Hybrid + Electric competition at New Hampshire Motor Speedway, where Western University placed 4th out of 22 teams in the Electric Class. University teams put their engineering, project management, and teamwork skills to the test through the design and development of high-performance electric and hybrid vehicles.

Attendees can see Western University's FH+E car up close and get a closer look at the engineering behind it.

EcoCAR

ASME DRIVN 2026 will feature EcoCAR programming that highlights student-led innovation in electric vehicles, battery systems, accessibility, and future mobility.

EcoCAR SESSIONS

Session 12-14:

Advanced Vehicle Technology Competitions

Features technical highlights from the EcoCAR EV Challenge and Battery Workforce Challenge.

Session 12-15:

Technology-Based Solutions for Accessibility Challenges

Highlights EcoCAR solutions that address mobility and accessibility needs.

Together, these sessions will connect DRIVN attendees with emerging engineers and practical work in electrification, battery design, connected and automated vehicle technologies, and inclusive mobility.

Attendees can also view The Ohio State University's Cadillac LYRIQ-based EcoCAR vehicle on display at the conference.

ASME and EcoCAR are also exploring long-term collaboration opportunities to strengthen student engagement and technical programming within the transportation community.

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UNIVERSITY OF FLORIDA

FORMULA HYBRID + ELECTRIC 20 YEARS

KYOWA

GAMMA TECHNOLOGIES

THE OHIO STATE UNIVERSITY
COLLEGE OF ENGINEERING

TRACK CHAIRS

Track 1: Off-Road, Rail, and Marine Engine Systems
Chair: Christopher Stoos, Southwest Research Institute
Co-Chair: Munidhar (Muni) Biruduganti, Argonne National Laboratory

Track 2: Fuels, Lubricants, and Carbon Management
Chair: Hunter Mack, University of Massachusetts – Lowell
Co-Chair: Dimitris Assanis, Stony Brook University

Track 3: Advanced Combustion, Flows, and Sprays
Chair: Cosmin Dumitrescu, West Virginia University
Co-Chair: Adam Klingbeil, Wabtec Corporation

Track 4: Powertrains, Hybridization, Engine Controls, and Engine Design
Chair: Vittorio Ravaglioli, University of Bologna
Co-Chair: Michael Bunce, Dumarey USA
Ambikapathy Naganathan, Cummins Inc.

Track 5: Emissions Control
Chair: Vitaly Prikhodko, Oak Ridge National Laboratory
Co-Chair: Mi-Young Kim, Cummins Inc.

Track 6: Modeling and Simulation
Chair: Muhsin Ameen, Argonne National Laboratory

Track 7: Small Engine Systems
Chair: Scott Curran, Oak Ridge National Laboratory
Co-Chair: Andrea Strzelec, USCAR

Track 8: Light-Duty Engine Systems
Chair: Scott Curran, Oak Ridge National Laboratory
Co-Chair: Andrea Strzelec, USCAR

Track 9: Medium- and Heavy-Duty On-Road Engine Systems
Chair: Scott Curran, Oak Ridge National Laboratory
Co-Chair: Andrea Strzelec, USCAR

Track 10: Rail Transportation
Chair: Sena Kizildemir, Thornton Tomasetti/Lehigh University

Track 11: Technical Poster
Chair: Emma Zhao, Aramco

Track 12: Special Sessions and Symposia
Chair: Kelly Senecal, Convergent Science

TRACK LISTING AND SPECIAL SYMPOSIA

Track 1: Off-Road, Rail, and Marine Engine Systems

This track spotlights innovations shaping the next generation of non-road propulsion. Authors are invited to showcase breakthroughs that push performance, durability, and emissions boundaries in off-highway, rail, marine, agricultural, power-generation, mining, and other heavy-duty applications.

Topics include:

- Advanced ignition, combustion, diagnostics, and emissions-control technologies
- Prototype, field-testing, and real-world demonstrations
- Engine architectures for demanding duty cycles and sustainability goals

Track 2: Fuels, Lubricants, and Carbon Management

This track invites cutting-edge research advancing sustainable fuels, next-generation lubricants, and carbon-mitigation strategies.

Topics include:

- Alternative fuels (e-fuels, synthetic fuels, biofuels)
- Lubricant impacts on durability, friction, and efficiency
- Carbon capture, onboard conversion, and low-carbon pathways
- Life-cycle analysis (cradle-to-grave, WTW, TTW)

Track 3: Advanced Combustion, Flows, and Sprays

This track seeks papers pushing the frontier of combustion and fluid-dynamics understanding.

Topics include:

- IC engine fundamentals: thermodynamics, extreme compression, in-cylinder flows
- Advanced concepts: RCCI, GCI, LTC, dual-fuel
- Optical, laser-based, pressure-based diagnostics
- Spray physics, droplet behavior, injection strategies

Track 4: Powertrains, Hybridization, Engine Controls, and Engine Design

Ambikapathy (Ambi) Naganathan, Cummins Inc.

This track showcases innovations in integrated engine–powertrain systems.

Topics include:

- Controls modeling (combustion, subsystem, HiL, sensors)
- HiL testing, rapid prototyping, novel test rigs
- Calibration and transient control strategies
- Next-generation sensors and actuators
- Hybrid-powertrain engine design and control
- Mechanical design and thermal management

Track 5: Emissions Control

This track features advances in emissions-control science aimed at meeting aggressive global standards.

Topics include:

- Catalyst materials and system architectures
- Aftertreatment thermal management and durability
- Effects of alternative fuels
- Reductant delivery innovations
- Real-world and drive-cycle emissions

Track 6: Modeling and Simulation

This track highlights advances in numerical modeling, high-fidelity simulation, and AI-enabled frameworks.

Topics include:

- Tool and workflow development
- Multiphase, turbulence, reacting-flow modeling
- Chemical kinetics
- System-level modeling
- AI/ML for model acceleration and hybrid modeling

TRACK LISTING AND SPECIAL SYMPOSIA

Track 7: Small Engine Systems

Chair: Andrea Strzelec, USCAR
Co-Chair: Scott Curran, Oak Ridge National Laboratory
This track features developments in small-engine research for handheld equipment, recreational vehicles, and compact industrial systems.
Topics include:

- Advanced ignition, combustion, and diagnostics
- Prototype and field demonstrations
- Emissions and fuel-variability challenges

Track 8: Light-Duty Engine Systems

Chair: Andrea Strzelec, USCAR
Co-Chair: Scott Curran, Oak Ridge National Laboratory
This track explores next-generation propulsion for passenger vehicles.
Topics include:

- Downsized/boosted SI engine advances
- Cold-start performance and emissions
- Advanced combustion, ignition, and diagnostics
- Prototype and drive-cycle demonstrations

Track 9: Medium- and Heavy-Duty On-Road Engine Systems

Chair: Andrea Strzelec, USCAR
Co-Chair: Scott Curran, Oak Ridge National Laboratory
This track focuses on innovations for commercial-vehicle engines.
Topics include:

- Alternative-fuel–enabled engine systems
- Ultra-low NOx strategies
- Advanced combustion, diagnostics, and emissions-control
- Drive-cycle and field demonstrations

Track 10: Rail Transportation

The Rail Transportation Symposium highlights advances in freight and passenger rail.
Topics include:

- Track and infrastructure technologies
- Rolling stock and propulsion
- Operations improvement and optimization
- Vehicle–track systems

Track 11: Technical Poster

The Technical Poster Session provides a dedicated forum for sharing emerging ideas, ongoing research, and practical case studies across all topics covered by the TSD conference. This track welcomes contributions from industry, academia, and national laboratories, including both completed studies and work in progress. Posters may address experimental methods and results, modeling and simulations, controls and optimization, diagnostics, advanced propulsion and powertrain concepts, alternative and low-carbon fuels, as well as tools and methodologies that support design and development.
The goal of Track 11 is to enable interactive, one-on-one technical discussions in a flexible format that encourages engagement from students, early-career engineers, and experienced practitioners alike, complementing the oral sessions and broadening the overall technical exchange at the conference.

TRACK LISTING AND SPECIAL SYMPOSIA

Track 12a: Electrification

Topics Include:

- Battery degradation and thermal management
- Battery safety and thermal runaway mechanisms
- Electric and hybrid heavy-duty trucks
- Electric and hybrid buses and transit systems
- Electric and hybrid non-road vehicles (agriculture, construction, and rail)
- EcoCAR EV Challenge and Battery Workforce Challenge

Track 12b: Connected & Autonomous Systems

Topics Include:

- Cooperative driving
- Software defined vehicles (SDVs)
- Connected AI platforms
- Vehicle Intelligence

Track 12c: Artificial Intelligence

Topics Include:

- AI and ML for next-generation vehicle systems
- AI-enabled energy optimization

Track 12d: Sustainability & Policy

Topics Include:

- Life cycle analysis (LCA) for the passenger car market
- LCA for medium and heavy-duty vehicles
- LCA for non-road vehicles
- Low carbon fuels

AUTHOR INDEX

AUTHOR LAST NAME	AUTHOR FIRST NAME	PAPER #	SESSION
Abououf	Hend	191219	04-01: Hybrid Powertrains and Sustainable Propulsion Systems
Ahmed	Qadeer	197377	12-01: AI/ML for Next-Generation Vehicle Systems
Ahmed	Qadeer	197495	12-02: Heavy-Duty Electric Trucks, Buses, and Transit Systems
Alley	Jesse	198388	12-15: EcoCAR EV Challenge: Technology-Based Solutions for Accessibility Challenges
Ambast	Mugdha	196650	05-03: Natural Gas Engines and Methane Emissions Control
Assanis	Dimitris	191449	02-01: Hydrogen Energy Systems, Ammonia/Methane Combustion, and Water Management
Assanis	Dimitris	191459	06-05 Alternative Fuel Combustion Modeling
Avedisov	Sergei	197072	12-10: AI-Enabled Predictive Energy Optimization and Cooperative Driving
Avedisov	Sergei	197134	12-11: Software-Defined Vehicles, Digital Twins, and Connected AI Platforms
Baek	Seungmin	197286	12-03: Electrification in Agriculture, Construction, and Rail
Bajwa	Abdullah	191318	06-06 Abnormal Combustion Modeling
Bale	Carlton	197554	12-11: Software-Defined Vehicles, Digital Twins, and Connected AI Platforms
balogun	fatimoh	196874	11-01: Technical Poster
BEATRICE	CARLO	191721	03-02 Spark Ignition and Emerging Ignition Concepts
Belgiorno	Giacomo	191288	04-01: Hybrid Powertrains and Sustainable Propulsion Systems
Belgiorno	Giacomo	197417	04-02: Engine Design, Controls, Testing, and Sensing Technologies
Biju	Nikhil	196897	12-06: Scaling Battery Safety
Boddapati	Venkatesh	191775	02-04: Biofuels, Low-Carbon Fuel Pathways, Calibration, and Deployment
Boi	Klaus	198137	01-02 Low-Carbon Fuels in Marine Transportation
Bonfochi Vinhaes	Vinicius	191366	02-01: Hydrogen Energy Systems, Ammonia/Methane Combustion, and Water Management
Bosoni	Pietro	197388	12-04: Battery Degradation and Thermal Management
Bourg	Cyrus	191113	03-03 Advanced Compression Ignition Combustion Strategies
Brophy	James	197994	12-14: Advanced Vehicle Technology Competitions: Technical Highlights from the EcoCAR EV Challenge and Battery Workforce Challenge
Burke	George	195995	12-03: Electrification in Agriculture, Construction, and Rail
Campbell	Cliff	198390	12-16: Commercial Vehicle Technology in Transition: Electrification, Automation, and Deployment Readiness
Chandrakesan	Shanmugasundaram	191364	06-01 Multiphase Flow Modeling in IC Engines
chaudhari	vasudev	191623	01-03 Advanced Engine Components and Future Propulsion Systems
chaudhari	vasudev	192731	11-01: Technical Poster
Chen	Yunzhu	197466	12-07 Life Cycle-Based Considerations for the Passenger Vehicle Market
Chitta	Varun	197479	12-01: AI/ML for Next-Generation Vehicle Systems
Cobb	Anna	197491	12-08: Beyond Passenger Vehicles: Life Cycle Assessment of Medium-, Heavy-, and Non-Road Vehicles, and Batteries
Cong	Binghao	191196	09-01: Alternative Fuels, Combustion, and Emissions in Medium and Heavy-Duty Engines
Conway	Graham	187088	12-07 Life Cycle-Based Considerations for the Passenger Vehicle Market
Cook	Adian	192637	12-12: Connected and Automated Vehicle Intelligence: Perception, Learning, and Deployment
Cowart	Jim	191451	02-03: Fuel Formulation, Additives, Properties, and Durability
Cung	Khanh	191475	02-02: Alternative CI Fuels, Ignition, and Combustion Strategy
Dankano	Abubakar	194916	06-04 AI/ML Models for IC Engines
Das	Shubhra Kanti	191423	02-01: Hydrogen Energy Systems, Ammonia/Methane Combustion, and Water Management
DAS	SUSHANTA	196907	12-10: AI-Enabled Predictive Energy Optimization and Cooperative Driving

AUTHOR INDEX

AUTHOR LAST NAME	AUTHOR FIRST NAME	PAPER #	SESSION
DAS	SUSHANTA	197032	12-12: Connected and Automated Vehicle Intelligence: Perception, Learning, and Deployment
Davy	Martin	191295	02-03: Fuel Formulation, Additives, Properties, and Durability
DeBusk	Melanie	196922	05-02: Hydrogen Internal Combustion Engines and NOx Emissions Control
Dempsey	Adam	191229	01-01 Off-Road Dual Fuel and SI Engines
Dev	Shouvik	197363	01-02 Low-Carbon Fuels in Marine Transportation
Douglas	Ryan	197368	12-14: Advanced Vehicle Technology Competitions: Technical Highlights from the EcoCAR EV Challenge and Battery Workforce Challenge
Dumitrescu	Cosmin	191319	06-05 Alternative Fuel Combustion Modeling
Dumitrescu	Cosmin	191323	06-02 Chemical Kinetics in IC Engines
Dumitrescu	Cosmin	191864	02-01: Hydrogen Energy Systems, Ammonia/Methane Combustion, and Water Management
Duronio	Francesco	197226	03-01 Fuel Injection, Diagnostics, and Modeling Methods
Gadiyar	Nishanth	197621	12-03: Electrification in Agriculture, Construction, and Rail
Gainey	Brian	191356	03-03 Advanced Compression Ignition Combustion Strategies
Gao	Suya	197445	06-04 AI/ML Models for IC Engines
Ghadiri	Shahrzad	197364	03-02 Spark Ignition and Emerging Ignition Concepts
GHOSH	SUBHADIP	197003	12-16: Commercial Vehicle Technology in Transition: Electrification, Automation, and Deployment Readiness
Gingrich	Eric	196686	01-03 Advanced Engine Components and Future Propulsion Systems
Grover	Ronald	191767	08-01: Light-Duty Propulsion Systems
Grover	Ronald	197499	08-01: Light-Duty Propulsion Systems
gunugunuri	krishna	191328	05-01: Renewable Liquid Fuels and Diesel Emissions Control
Guo	Hongsheng	190759	09-01: Alternative Fuels, Combustion, and Emissions in Medium and Heavy-Duty Engines
Gupta	Saurabh	191320	03-03 Advanced Compression Ignition Combustion Strategies
Gupta	Saurabh	197014	12-05: Battery Thermal Runaway Mechanisms
Gupta	Shobhit	197974	12-11: Software-Defined Vehicles, Digital Twins, and Connected AI Platforms
Gurri	Simona	197351	06-03 Heat Transfer Modeling in IC Engines
Hampson	Greg	191373	02-01: Hydrogen Energy Systems, Ammonia/Methane Combustion, and Water Management
Hara	Takahiro	197208	04-02: Engine Design, Controls, Testing, and Sensing Technologies
Hegde	Bharatkumar	197283	12-10: AI-Enabled Predictive Energy Optimization and Cooperative Driving
Hossain	Md Rashed	197993	12-14: Advanced Vehicle Technology Competitions: Technical Highlights from the EcoCAR EV Challenge and Battery Workforce Challenge
Hoth	Alexander	191329	04-01: Hybrid Powertrains and Sustainable Propulsion Systems
Jankovic	Mrdjan	197151	12-12: Connected and Automated Vehicle Intelligence: Perception, Learning, and Deployment
Jiang	Chuankai	191324	05-03: Natural Gas Engines and Methane Emissions Control
Jin	Bei	197416	06-04 AI/ML Models for IC Engines
Johnson	Elliot	197436	03-02 Spark Ignition and Emerging Ignition Concepts
Johnston	Tyler	191389	02-02: Alternative CI Fuels, Ignition, and Combustion Strategy
Joshi	Satyum	187913	09-02: Advanced Concepts for Engine Efficiency and Decarbonization
Joshi	Satyum	187915	01-01 Off-Road Dual Fuel and SI Engines
Kabil	Islam	191230	06-03 Heat Transfer Modeling in IC Engines

AUTHOR INDEX

AUTHOR LAST NAME	AUTHOR FIRST NAME	PAPER #	SESSION
Kakitahi Kwesiga	Dickens	191391	12-12: Connected and Automated Vehicle Intelligence: Perception, Learning, and Deployment
Kandlagunta	Ankababu	191085	09-01: Alternative Fuels, Combustion, and Emissions in Medium and Heavy-Duty Engines
Kapelanski	Timothy	197461	05-02: Hydrogen Internal Combustion Engines and NOx Emissions Control
Karami	Ghodrat	191379	06-04 AI/ML Models for IC Engines
Karmakar	Avijit	197311	12-04: Battery Degradation and Thermal Management
Kaul	Brian	197463	02-04: Biofuels, Low-Carbon Fuel Pathways, Calibration, and Deployment
Kelly	Jarod	197471	12-08: Beyond Passenger Vehicles: Life Cycle Assessment of Medium-, Heavy-, and Non-Road Vehicles, and Batteries
Kim	Mi-Young	189140	05-03: Natural Gas Engines and Methane Emissions Control
Kim	Namdoo	197652	12-03: Electrification in Agriculture, Construction, and Rail
Klingbeil	Adam	190945	02-02: Alternative CI Fuels, Ignition, and Combustion Strategy
Klingbeil	Adam	191394	01-01 Off-Road Dual Fuel and SI Engines
Krishnan	Sundar Rajan	197293	03-02 Spark Ignition and Emerging Ignition Concepts
Krishnan	Sundar Rajan	197306	02-02: Alternative CI Fuels, Ignition, and Combustion Strategy
Krishnan	Sundar Rajan	197493	02-02: Alternative CI Fuels, Ignition, and Combustion Strategy
Kumar	Dhananjay	197299	12-05: Battery Thermal Runaway Mechanisms
Lago Sari	Rafael	191465	04-01: Hybrid Powertrains and Sustainable Propulsion Systems
Lago Sari	Rafael	196952	09-02: Advanced Concepts for Engine Efficiency and Decarbonization
Lanzer	Theodor	191005	09-01: Alternative Fuels, Combustion, and Emissions in Medium and Heavy-Duty Engines
Lawler	Benjamin	197422	01-03 Advanced Engine Components and Future Propulsion Systems
Leach	Felix	191021	03-01 Fuel Injection, Diagnostics, and Modeling Methods
Leach	Felix	191023	03-01 Fuel Injection, Diagnostics, and Modeling Methods
Lee	Garam	197034	05-03: Natural Gas Engines and Methane Emissions Control
Lee	Garam	197457	11-01: Technical Poster
Leone	Thomas	188143	02-03: Fuel Formulation, Additives, Properties, and Durability
Li	Dalong	197489	12-11: Software-Defined Vehicles, Digital Twins, and Connected AI Platforms
Li	Hailin	197476	09-02: Advanced Concepts for Engine Efficiency and Decarbonization
Liang	Mingyi	190646	06-02 Chemical Kinetics in IC Engines
Lien	Paul	191221	06-01 Multiphase Flow Modeling in IC Engines
Lin	James	197258	12-04: Battery Degradation and Thermal Management
Link	Allison	197486	03-02 Spark Ignition and Emerging Ignition Concepts
Littera	Daniele	197444	08-01: Light-Duty Propulsion Systems
Liu	Jinming	197946	08-01: Light-Duty Propulsion Systems
Liu	Zheng	191429	12-12: Connected and Automated Vehicle Intelligence: Perception, Learning, and Deployment
Liu	Zheng	191681	04-02: Engine Design, Controls, Testing, and Sensing Technologies
Luo	Zhaoyu	190770	06-02 Chemical Kinetics in IC Engines
Martinez Boggio	Santiago	196999	12-04: Battery Degradation and Thermal Management
Middleton	Robert	191549	02-03: Fuel Formulation, Additives, Properties, and Durability
Middleton	Robert	191749	05-01: Renewable Liquid Fuels and Diesel Emissions Control

AUTHOR INDEX

AUTHOR LAST NAME	AUTHOR FIRST NAME	PAPER #	SESSION
Miganakallu	Niranjan	197487	03-03 Advanced Compression Ignition Combustion Strategies
Moawad	Ayman	197940	12-01: AI/ML for Next-Generation Vehicle Systems
Moreno	Kevin	197478	06-01 Multiphase Flow Modeling in IC Engines
Moreno	Kevin	197482	01-01 Off-Road Dual Fuel and SI Engines
Murray	Joshua	191408	03-02 Spark Ignition and Emerging Ignition Concepts
Nalim	Raz	198389	12-16: Commercial Vehicle Technology in Transition: Electrification, Automation, and Deployment Readiness
Narayanan	Abhinandan	191116	08-01: Light-Duty Propulsion Systems
NASRAT	MD IRTESAM	191234	01-01 Off-Road Dual Fuel and SI Engines
nicolas	romain	191714	04-01: Hybrid Powertrains and Sustainable Propulsion Systems
Noffke	Deborah	191017	01-02 Low-Carbon Fuels in Marine Transportation
Onyishi	Sandra	197501	12-15: EcoCAR EV Challenge: Technology-Based Solutions for Accessibility Challenges
Orosz	Gabor	197374	12-10: AI-Enabled Predictive Energy Optimization and Cooperative Driving
Oruganti	Surya Kaundinya	197007	06-06 Abnormal Combustion Modeling
Park	Ji-Woong	197480	06-06 Abnormal Combustion Modeling
Park	Yensil	197355	05-01: Renewable Liquid Fuels and Diesel Emissions Control
Patil	Shubham	195120	01-03 Advanced Engine Components and Future Propulsion Systems
Peters	Diane	197159	11-01: Technical Poster
Pickett	Lyle	191894	12-08: Beyond Passenger Vehicles: Life Cycle Assessment of Medium-, Heavy-, and Non-Road Vehicles, and Batteries
Poredos	Andrej	191305	01-02 Low-Carbon Fuels in Marine Transportation
Prikhodko	Vitaly	197232	05-03: Natural Gas Engines and Methane Emissions Control
Prikhodko	Vitaly	197339	05-02: Hydrogen Internal Combustion Engines and NOx Emissions Control
Probst	Daniel	190198	06-04 AI/ML Models for IC Engines
Rahman	Md Hafizur	197950	11-01: Technical Poster
Rahman	Mustafizur	197381	12-02: Heavy-Duty Electric Trucks, Buses, and Transit Systems
Rana	Shailendra	191463	06-05 Alternative Fuel Combustion Modeling
Raul	Vishal	196923	12-01: AI/ML for Next-Generation Vehicle Systems
Ravaglioli	Vittorio	191750	01-03 Advanced Engine Components and Future Propulsion Systems
Ravaglioli	Vittorio	197440	04-01: Hybrid Powertrains and Sustainable Propulsion Systems
Ravikumar	Avinash	197425	06-03 Heat Transfer Modeling in IC Engines
Ravindran	Arun	197472	06-06 Abnormal Combustion Modeling
Ro	Jin Wook	190850	02-04: Biofuels, Low-Carbon Fuel Pathways, Calibration, and Deployment
Roeth	Mike	198606	12-16: Commercial Vehicle Technology in Transition: Electrification, Automation, and Deployment Readiness
Ruecker	Kinjal	197071	09-02: Advanced Concepts for Engine Efficiency and Decarbonization
Samaras	Zisis	197116	12-07 Life Cycle-Based Considerations for the Passenger Vehicle Market
Sapra	Harsh	191231	01-02 Low-Carbon Fuels in Marine Transportation
Sapra	Harsh	193599	12-05: Battery Thermal Runaway Mechanisms
Saptoka	Pradeep	191099	06-02 Chemical Kinetics in IC Engines

AUTHOR INDEX

AUTHOR LAST NAME	AUTHOR FIRST NAME	PAPER #	SESSION
Sarode	Shanmukh	197884	12-03: Electrification in Agriculture, Construction, and Rail
Saroj	Abhilasha	197455	12-02: Heavy-Duty Electric Trucks, Buses, and Transit Systems
Sauer	Nathaniel	197435	12-06: Scaling Battery Safety
Seifer	Ethan	197410	12-10: AI-Enabled Predictive Energy Optimization and Cooperative Driving
Senecal	Kelly	197971	12-07 Life Cycle-Based Considerations for the Passenger Vehicle Market
Senecal	Kelly	197972	12-07 Life Cycle-Based Considerations for the Passenger Vehicle Market
Senecal	Kelly	198385	12-14: Advanced Vehicle Technology Competitions: Technical Highlights from the EcoCAR EV Challenge and Battery Workforce Challenge
Shah	Krishna	197447	12-14: Advanced Vehicle Technology Competitions: Technical Highlights from the EcoCAR EV Challenge and Battery Workforce Challenge
Shanker	Anirudh	197372	12-02: Heavy-Duty Electric Trucks, Buses, and Transit Systems
Sharma	Vansh	197342	12-01: AI/ML for Next-Generation Vehicle Systems
Shen	Yuxi	197290	11-01: Technical Poster
Shin	Jisoo	197348	06-02 Chemical Kinetics in IC Engines
Shroff	Farhaan	197496	12-15: EcoCAR EV Challenge: Technology-Based Solutions for Accessibility Challenges
Silva	Mickael	197429	06-03 Heat Transfer Modeling in IC Engines
Smith	Ian	197240	12-06: Scaling Battery Safety
Smith	Ian	197241	12-06: Scaling Battery Safety
Soloiu	Valentin	191399	02-03: Fuel Formulation, Additives, Properties, and Durability
Solooki	David	197354	12-11: Software-Defined Vehicles, Digital Twins, and Connected AI Platforms
Srivastava	Kislaya	197212	12-06: Scaling Battery Safety
Srna	Aleš	197375	03-03 Advanced Compression Ignition Combustion Strategies
Stanchina	Zachary	191076	09-01: Alternative Fuels, Combustion, and Emissions in Medium and Heavy-Duty Engines
Strzelec	Andrea	198968	12-17: Focus on Hybrid Mobility, Opening Session
Strzelec	Andrea	198974	12-17: Focus on Hybrid Mobility, Opening Session
Strzelec	Andrea	198976	12-18: Focus on Hybrid Mobility: Light Duty Vehicles
Strzelec	Andrea	198979	12-19: Focus on Hybrid Mobility: Heavy Duty & Off-Road
Sukumaran	Sujith	197002	06-03 Heat Transfer Modeling in IC Engines
Suresh Kumar	Gopikrishnan Nair	197475	12-01: AI/ML for Next-Generation Vehicle Systems
Svingos	Demetrios	197500	12-15: EcoCAR EV Challenge: Technology-Based Solutions for Accessibility Challenges
Szurek	Daniel	198014	12-14: Advanced Vehicle Technology Competitions: Technical Highlights from the EcoCAR EV Challenge and Battery Workforce Challenge
Tennant	Christopher	191520	06-05 Alternative Fuel Combustion Modeling
Tennant	Christopher	197481	12-13: Transportation Research From the Coordinating Research Council
Tennant	Christopher	197879	12-13: Transportation Research From the Coordinating Research Council
Tennant	Christopher	197882	12-13: Transportation Research From the Coordinating Research Council
Tennant	Christopher	197885	12-13: Transportation Research From the Coordinating Research Council
Thatipamula	Venkata Saicharan	197073	05-02: Hydrogen Internal Combustion Engines and NOx Emissions Control
Thomas	Daisy	188953	05-01: Renewable Liquid Fuels and Diesel Emissions Control

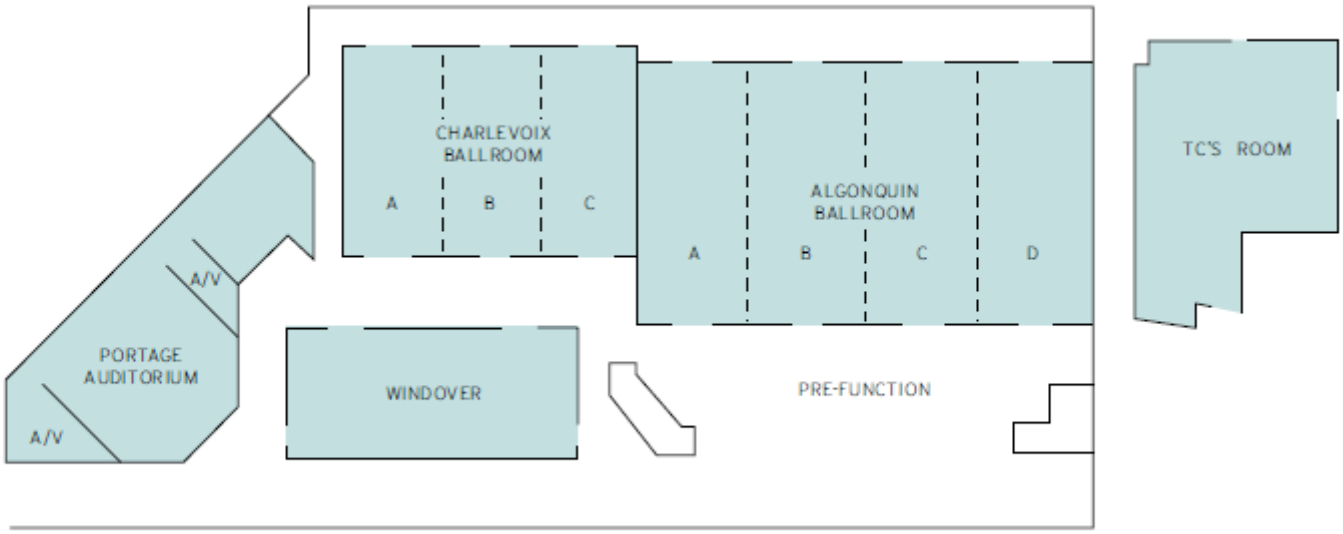
AUTHOR INDEX

AUTHOR LAST NAME	AUTHOR FIRST NAME	PAPER #	SESSION
Trinidad	Damian	197155	11-01: Technical Poster
Tsuchiya	Miki	196766	12-02: Heavy-Duty Electric Trucks, Buses, and Transit Systems
Tyrewala	Daanish	191383	01-01 Off-Road Dual Fuel and SI Engines
Uzun Ayvaz	Burcu	197698	12-08: Beyond Passenger Vehicles: Life Cycle Assessment of Medium-, Heavy-, and Non-Road Vehicles, and Batteries
Videchak	Courtney	197146	02-04: Biofuels, Low-Carbon Fuel Pathways, Calibration, and Deployment
Vishwanathan	Gokul	195628	12-09: Low Carbon Fuels - Status Quo and Future Outlook
Wallington	Tim	196924	12-07 Life Cycle-Based Considerations for the Passenger Vehicle Market
Wang-Alho	Huaying	190757	01-02 Low-Carbon Fuels in Marine Transportation
Wenyu	Han	188477	03-01 Fuel Injection, Diagnostics, and Modeling Methods
Xu	Chao	191267	06-05 Alternative Fuel Combustion Modeling
Xu	Hai	191344	08-01: Light-Duty Propulsion Systems
Xu	Jun	197228	12-05: Battery Thermal Runaway Mechanisms
You	Chen	197430	12-04: Battery Degradation and Thermal Management
ZHAO	LE	197362	06-01 Multiphase Flow Modeling in IC Engines
Zhao	Peng	197484	12-05: Battery Thermal Runaway Mechanisms

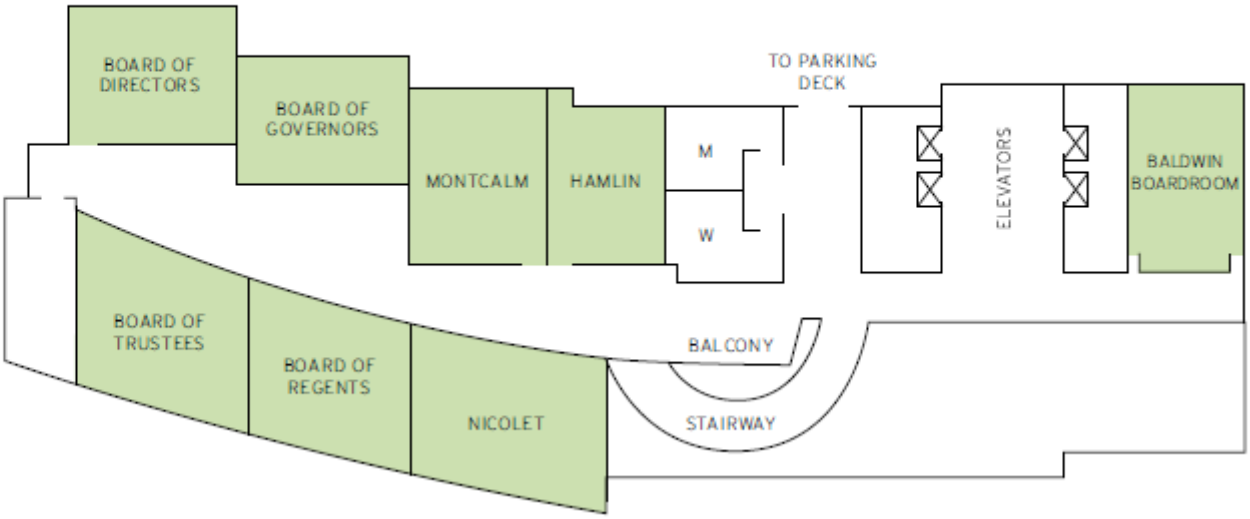
HOTEL FLOOR PLAN

floor plans

FIRST FLOOR MEETING SPACE



SECOND FLOOR MEETING SPACE



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