

ITEC2024

June 19 - 21, Chicago, Illinois



KEYNOTE SPEAKER

Ryan J. Kennedy, PE

Co-Founder & CEO of Atom Power, Inc

ITEC2024

ITEC is aimed at helping the industry in the transition from conventional vehicles to advanced electrified vehicles. The conference is focused on components, systems, standards, and grid interface technologies, related to efficient power conversion for all types of electrified transportation, including electric vehicles, hybrid electric vehicles, and plug-in hybrid electric vehicles (EVs, HEVs, and PHEVs) as well as heavy-duty, rail, and off-road vehicles and airplanes and ships.

SPEAKER BIO

Ryan is co-founder and CEO of Atom Power, Inc. He has been in the electrical design, project leadership, and engineering industries for over 28 years. A native of Charlotte, North Carolina, Ryan began his career as an electrician and worked with hardhat and tools on large commercial projects for 6 years before starting his study of electrical engineering at the University of North Carolina at Charlotte.

Once Ryan received his Bachelor of Science in Electrical Engineering Magna Cum Laude from UNCC in 2004, he continued full-time in his career as a Project Manager for a large electrical contracting and engineering firm. As Project Manager, Ryan negotiated and built some of the most high profile projects in the southeast for several large corporations, having managed and built over 4-million square-feet in electrical construction projects.

Ryan played a significant role in the design or construction of several notable Charlotte high-rise buildings, including Truist Tower, Fifth Third Center, Three Wells Fargo Center and Duke Energy Center. He is a licensed Professional Engineer in several US states and Board Member of UNCC Electrical and Computer Engineering.

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KEYNOTE SPEAKER

Jackie DiMarco

*Director - Product Line Management at
Ford Motor Company*

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SPEAKER BIO

Jackie Marshall DiMarco is Ford Motor Company's Vehicle Programs Director for F-Series and Commercial Trucks. In this role, she oversees strategy, planning, and product development of vehicle lines including F-150, Super Duty, E-Series, and Medium Trucks.

Ms. DiMarco has 27 years of experience at Ford, starting as a powertrain engineer and working her way to leading vehicle programs. She served as the Chief Engineer on several vehicle lines including F-150, Expedition, Navigator, and Transit Connect. She also led early development of the Fusion-based Autonomous Vehicle pilot, as Chief Engineer of Autonomous Vehicles.

A native of northeast Ohio, Ms. DiMarco holds a BS and MS in Mechanical Engineering from The Ohio State University, and an MBA from the University of Michigan Ross.

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KEYNOTE SPEAKER

Sanjaka G. Wirasingha

*R&D Director for Powertrain Electrified
Mobility at Valeo Americas*

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SPEAKER BIO

Sanjaka G. Wirasingha is R&D Director for Powertrain Electrified Mobility at Valeo Americas, leading the PEM R&D Teams in the US, Mexico & Brazil.

He is responsible for all Engineering topics for multiple OEMs and programs ranging from 12V Alternators, Re/Starters, iStars to 48V Motors & Inverters to 400V/800V Inverters, Motors, Chargers, Converters, eAxles and eDrives while supporting vehicle electrification in the region. Currently he supports technology development and system level integration of all powertrain components, working closely with OEMs, universities and national labs in addition to ensuring successful program launches.

Sanjaka received his Ph.D from the Illinois Institute of Technology under the guidance of Dr Ali Emadi. Sanjaka previously served as an Adjunct Assistant Professor at McMaster University where he worked with multiple M.S & Ph.D. Students. Before joining Valeo, he was a Systems and Release Engineer for Advanced Electrification Programs at Fiat Chrysler Automobiles working on the Fiat 500e, PHEV Minivan, and 48V BSG programs. He has over 16 publications, an US Patent, received the Chrysler Innovation Award for his efforts in developing electrification design; strategy and the Best Vehicular Electronics Paper Award by IEEE-VTS



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KEYNOTE SPEAKER

Kristen Wahl

Director of Energy Justice & Workforce Readiness for the Advanced Energy Technologies Directorate (AET)

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SPEAKER BIO

Kristen is the Director of Energy Justice & Workforce Readiness for the Advanced Energy Technologies Directorate (AET), where she works closely with Argonne senior leadership and staff as well as government and industry stakeholders, to plan and execute energy, equity, and environmental justice & workforce development activities, including efforts to expand the participation and benefits of Argonne's programs to reach underrepresented minorities, women, and individuals in underserved and overburdened communities and efforts to reskill/upskill and train workers for the transition to clean energy and electric mobility.

As the Department Director for Sustainable Transportation Education & Partnerships (STEP), Kristen also manages a portfolio of advanced mobility research, education, and workforce development programs and serves as the program director of DOE's Advanced Vehicle Technology Competition Program, North America's premier training ground for future automotive leaders. During her nearly 27-year career at the laboratory, Kristen has managed more than 35 automotive engineering competitions, including the recent EcoCAR Mobility Challenge with the U.S. Department of Energy and General Motors, building a clean mobility workforce of 30,000+ graduates who have been at the forefront of developing future advanced mobility solutions in industry spanning three decades.

Kristen recently launched the Battery Workforce Challenge, a new comprehensive workforce development program co-sponsored by DOE and Stellantis, that is helping to build a diverse, domestic battery workforce for in-demand positions across the battery supply chain, and re-shore manufacturing jobs in North America. Later this year, Kristen and her team will launch a Long Duration Energy Storage workforce program with Northern States Power Company (Xcel Energy) and Form Energy that places two multi-day storage systems at retiring coal plants at the Sherco Generating Station in Becker, Minnesota and the Comanche Generating Station in Pueblo, Colorado.



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KEYNOTE SPEAKER

Claus Daniel

Associate Laboratory Director for Advanced Energy Technologies (AET).

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SPEAKER BIO

Claus Daniel is Associate Laboratory Director for Advanced Energy Technologies (AET). He leads an organization of scientists, engineers, and analysts working to develop globally needed solutions to deeply decarbonize the economy. He also a joint appointment with the Pritzker School of Molecular Engineering at the University of Chicago.

AET solves the most pressing energy, mobility, materials, and manufacturing challenges by using the laboratory's world-class scientific and engineering expertise and facilities. The AET team collaborates with internal and external partners on cutting-edge research, development, demonstration, and deployment of clean energy technologies.

Dr. Daniel came to Argonne from the Carrier Corporation, where, as the Senior Director for Engineering Partnerships and Sustainability, he led academic, start-up, and government partnerships and the company's strategy for sustainability focusing on the decarbonization of its product portfolio.

He has more than 20 years of experience in developing and advancing technologies in materials, manufacturing, and sustainability. He spent 16 years at Oak Ridge National Laboratory (ORNL), where he held numerous leadership roles including leading the lab's automotive and mobility research and applied energy programs. He has also held a professorship at the University of Tennessee (UT), Knoxville and continues to be an appointed friend of the UT Bredesen Center. He was the founding Director of the U.S. Department of Energy Battery Manufacturing Research and Development Facility at ORNL.



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KEYNOTE SPEAKER

Alex Cattelan

Chief Operating Officer for Fermata Energy

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SPEAKER BIO

Alex Cattelan is currently the Chief Operating Officer for Fermata Energy, a leader in V2X Solutions. In this role, she is responsible for directing Fermata Energy's operations, including Engineering, primarily focusing on accelerating the commercial expansion of its innovative V2X bidirectional technology platform.

Cattelan has more than three decades of experience leading electric propulsion and advanced mobility programs in boating, power sports and automotive applications for organizations such as Brunswick Corporation, Polaris Industries, Stellantis, Johnson Controls, AVL and General Motors.

For the majority of Alex's career she has been passionately focused on commercializing innovative sustainable mobility solutions and their supporting infrastructure.



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KEYNOTE SPEAKER

Arshan Khan

Director of Power Electronics and Electric Machines at CNH Industrial America.

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SPEAKER BIO

Dr. Arshan Khan is currently the Director of Power Electronics and Electric Machines at CNH Industrial America. Prior to this, he served as the Chief Engineer in the e-Mobility department at Eaton Corporation. Arshan has also worked in Electrified Powertrain Engineering groups at both Ford Motor Company and Fiat Chrysler Automobiles, accumulating several years of experience in the field.

Arshan obtained his Ph.D. in Electrical Engineering from Florida International University, Miami. He has also served as an adjunct faculty member at the University of Michigan, Dearborn, from 2016 to 2018. He holds three U.S. patents and has published 18 technical papers.

Additionally, he has edited an IEEE Wiley book titled "Transportation Electrification: Breakthroughs in Electrified Vehicles, Aircraft, Rolling Stock, and Watercraft". Arshan received a prize-paper award in 2013 from the IEEE Electric Machines committee and the 'Electrified Powertrain Engineering Innovation Award' from Ford in 2017.

