



**AUTOMOTIVE COMPOSITES
CONFERENCE & EXHIBITION**
Novi, MI • September 7-9, 2022
Presented by SPE Automotive and Composites Divisions

WORLD'S LEADING AUTOMOTIVE
COMPOSITES FORUM

COMPOSITES ⚡ THE KEY TO EV



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FIRST KEYNOTE ANNOUNCED FOR SPE® ACCE 2022 EVENT: –

“ADVANCED POLYMER COMPOSITES FOR NEXT GENERATION ELECTRIC AND AUTONOMOUS VEHICLES (EV/AV) – CHALLENGES AND OPPORTUNITIES”

Dr. H. Felix Wu, Senior Technology Manager in Vehicle Technologies Office (VTO), Office of Energy Efficiency and Renewable Energy (EERE) at the U.S. Department of Energy (DOE)

TROY (DETROIT), MICH. - The executive planning committee for the [SPE® Automotive Composites Conference & Expo](#) (ACCE) is announcing the first keynote speaker for their ACCE 2022 event

September 7 – 9, 2022 at the Suburban Collection Showplace in Novi, Michigan (Detroit suburb).

Dr. H. Felix Wu, Senior Technology Manager in Vehicle Technologies Office (VTO), Office of Energy Efficiency and Renewable Energy (EERE) at the U.S. Department of Energy (DOE) will present “Advanced Polymer Composites for Next Generation Electric and Autonomous Vehicles (EV/AV) – Challenges and Opportunities.”

The presentation will provide an overview of science and innovation developed from the ongoing VTO’s Composites Core Program. New research on multi-functional materials utilizing advanced polymer composites to reduce manufacturing cost and carbon footprint, overall embodied energy of the vehicle as well as weight saving of electric vehicles will also be discussed. “Multi-functional materials will allow design of automotive components capable of undertaking multiple functions, increasing battery specific energy capacity, reducing the number of vehicle components and thus overall weight and total cost,” said Wu. “Such composite materials and structures systems with autonomous health management could transform the current EV/AV platform,” added Wu.

About the SPE ACCE

Held annually in suburban Detroit, the ACCE draws over 800 speakers, exhibitors, sponsors and attendees and provides an environment dedicated solely to discussion, education and networking about advances in transportation composites. Its global appeal is evident in the diversity of exhibitors, speakers, and attendees who come to the conference from Europe, the Middle East, Africa, and Asia/Pacific as well as North America. About 20% of attendees work for automotive and light truck, agriculture, truck & bus or aviation OEMs and another 25% represent tier suppliers. Attendees also work for composite materials processing equipment, additives, or reinforcement suppliers; trade associations, consultancies, university and government labs; media; and investment banks. ACCE has been jointly produced by the SPE Automotive and Composites Divisions since 2001.

The mission of SPE is to promote scientific and engineering knowledge relating to plastics worldwide and to educate industry, academia, and the public about these advances. SPE's Automotive Division is active in educating, promoting, recognizing, and communicating technical accomplishments in all phases of plastics and plastic-based composite developments in the global transportation industry. SPE's Composites Division does the same with a focus on plastic-based composites in multiple industries. Topic areas include applications, materials, processing, equipment, tooling, design, and development. For more information see <https://speautomotive.com/> and <http://specomposites.org/>. For more information on the *Society of Plastics Engineers*, see www.4spe.org.

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TROY (DETROIT), MICH. – Dr. H. Felix Wu will present “Advanced Polymer Composites for Next Generation Electric and Autonomous Vehicles (EV/AV) – Challenges and Opportunities” at the ACCE 2022 Event, September 7 – 9, 2022.

Bio: Dr. H. Felix Wu holds a Ph.D. from Cornell University and a M.S. from Northwestern University. He has more than 21 years of program management and leadership experience working in Federal government, industry, and academia with broad-based expertise in advanced materials, fiber-reinforced composites, manufacturing, nanomaterials, structural health monitoring/NDE, civil infrastructure, and biomaterials/biomedical devices. Dr. Wu is currently a *Senior Technology Manager* in Vehicle Technologies Office (VTO), Office of Energy Efficiency and Renewable Energy (EERE) at the U.S. Department of Energy (DOE). He oversees the *Low-Cost Carbon Fiber research and Polymer Composites R&D* in Materials Technology Program, targeting the EERE’s mission to improve fuel efficiency and reduce CO₂ emissions. He was a *Senior Program Manager* in the Advanced Technology Program (ATP) and Technology Innovation Program (TIP) at the National Institute of Standards and Technology (NIST) where he managed numerous high-risk, high-reward projects in areas of composite materials and civil infrastructure. Dr. Wu worked in industry for over 14 years including Alcoa Technical Center and Owens Corning Science & Technology Center. He was an *Adjunct Professor* in the Department of Materials Science and Engineering at the Virginia Polytechnic Institute & State University and the *Senior Director* in the Office of Research and Economic Development at the University of North Texas. Dr. Wu has published over 240 papers. He is a SPIE Fellow, a U.S. Department of Commerce Science and Technology Fellow, and a Fellow of the Ohio Academy of Science.

For more information and the SPE ACCE see <https://speautomotive.com/acce-conference/> .

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