



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



FOR IMMEDIATE RELEASE: 2 APRIL 2022

Media Contact: Teri Chouinard, SPE Auto. Div. Comm. Chair, 248.701.8003, teri@intuitgroup.com

**SPE® ACCE 2022 – AUTOMOTIVE COMPOSITES CONFERENCE & EXPO ANNOUNCES
CALL FOR ABSTRACTS FOR SPE® ACCE STUDENT POSTER COMPETITION**

ABSTRACTS DUE JULY 1, 2022

TROY (DETROIT), MICH. - The organizing committee for the SPE® Automotive Composites Conference & Expo (ACCE) invites graduate, undergraduate, community college, and high school students to submit abstracts on innovative composites technologies, for automotive and ground transportation, for its annual student poster competition. The competition will be held during the ACCE at the Suburban Collection Showplace in Novi, Michigan (Detroit suburb) Sept. 7 - 9, 2022. Judges who are industry experts, SPE board members, and members of the media will review all posters with student authors on the first day of the conference, Sept. 7, 2022. First-, second-, and third-place awards will be presented to winners in graduate, undergraduate and high school categories during a special ceremony during the ACCE.

Students interested in participating in the competition should contact Dr. Uday Vaidya, ACCE student poster competition chair as well as chief technology officer, Institute for Advanced Composites Manufacturing Innovation (IACMI) and professor and governor's chair – Advanced Composites Manufacturing at University of Tennessee-Knoxville via ACCEposters@speautomotive.com.

Abstracts are due by July 1, 2022. Digital copies of posters are due by August 20, 2022 for pre-review by judges. Students will need to bring printed copies of their posters to the conference. All students presenting a poster in the competition will receive free registration to the conference, a partial travel stipend, a shared hotel room provided by SPE-ACCE, and one year of free student membership in SPE. Large multi-poster panels and push pins for displaying the posters in the Student Poster Display area will be provided. The show also provides excellent networking opportunities for those close to graduating who are starting to look for a job.

The poster template is online via <http://speautomotive.com/acce-forms>.

Poster topics may include, but are not limited to, subjects such as:

- Automotive Composites
- Composites and lightweight materials for trucks
- Bio-composites
- Nanocomposites
- Glass, carbon, and hybrid fibers
- Thermoset and thermoplastic technologies
- Recycling and green technologies
- Multi-materials
- Joining technologies
- Applications of Composites in Electric Vehicles
- Modeling and analysis of lightweight materials
- CAFE standards and mandates
- Cost-effective manufacturing
- Use of advanced materials in innovative applications
- Virtual prototyping and design
- Microstructure, failure and fracture
- Failure envelopes and theories
- Additive manufacturing of composites

Students and their posters are ranked using the following criteria:

- Content (student and poster demonstrate clarity of topic, objectives, and background);
- Motivation for research and technical relevance to conference theme;
- Methodology and approach to problem;
- Quality of proposed research results/findings;
- Conclusions are supported by information presented;
- Presentation (display aesthetics are pleasing and there is a logical flow between sections);
- Knowledgeable (presenter has a good grasp of the subject);
- Understandability (poster is effective even without student being present to explain it); and
- Overall rank vs. other posters and presenters.

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, tuck & 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. The show has been jointly produced by the SPE Automotive and Composites Divisions since 2001. <https://speautomotive.com/acce-conference/>

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 <https://composites.4spe.org/>. For more information on the Society of Plastics Engineers, see <https://4spe.org/>.

For more information on the ACCE Student Poster Competition, contact:

- Dr. Uday Vaidya, University of Tennessee-Knoxville, 205.410.2898, uvaidya@utk.edu
- Dr. Douglas E. Smith, Baylor University, 254.710.6830, Douglass_E_Smith@baylor.edu
- Dr. David Jack, Baylor University, 254.710.3347, David_Jack@baylor.edu

Please include in the Subject Line – **2022 SPE ACCE Student Poster Competition**

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Allen Roman

Sara Simon

Rajendra Palanisamy

Benjamin Schwartz

Elijah Taylor

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The first-place winners of the 2021 poster competition are shown above. The first photo shows Allen Roman, PhD Student, from University of Wisconsin – winner in the Processing/Modeling/Simulation PhD category for his poster titled “Fiber Dispersion Characterization Method via X-ray Imaging – Couette Flow Prediction using Artificial Intelligence.” The second photo shows Sara Simon, PhD Student, from University of Wisconsin - winner in the Nano/Bio/Additive Manufacturing PhD category for her poster titled “Novel Microcellular Injection Molding Technology Ku-Fizz™ - Effect of Gas Pressure on the Fiber Microstructure and Flexural Properties.” The third photo shows Rajendra Palanisamy, PhD Student from Michigan State University – winner in the Nondestructive Evaluation & Characterization PhD category for his poster titled “Mechanical Testing of Induction Bonded Joints with and without Guided-Weave Controlled Processing.” The fourth photo shows Benjamin Schwartz, Graduate Student Researcher from University of Tennessee – winner of the Master of Science Category for his poster titled “Wide Carbon Tow Thermoplastic Melt Impregnation Development and Applications.” The fifth photo shows Elijah Taylor, Undergraduate Student Researcher from Clemson University - winner in the Undergraduate category for his poster titled “Low-Cost Carbon Fibers from Lignin Precursors for Automotive and Ablative Composites.”