



**AUTOMOTIVE COMPOSITES  
CONFERENCE & EXHIBITION**  
Novi, MI • September 6-8, 2023  
*Presented by SPE Automotive and Composites Divisions*

**COMPOSITES THE KEY TO EV**  
A U T O & A I R M O B I L I T Y

WORLD'S LEADING AUTOMOTIVE  
COMPOSITES FORUM



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**SPE® ACCE 2023 – AUTOMOTIVE COMPOSITES CONFERENCE & EXPO ANNOUNCES  
CALL FOR ABSTRACTS FOR SPE® ACCE STUDENT POSTER COMPETITION  
ABSTRACTS DUE JULY 1, 2023**

**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. 6 - 8, 2023. 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. 6, 2023. 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.

Poster Titles and Abstracts are due by July 1, 2023. Digital copies of posters are due by August 20, 2023 for pre-review by judges. Abstracts and Digital Copies of the posters need to be submitted online via the **SUBMIT 2023 ABSTRACTS/PAPERS OR PRESENTATIONS HERE** button on <https://speautomotive.com/acce-conference/>. Questions should be sent to [ACCEpapers@SPEautomotive.com](mailto:ACCEpapers@SPEautomotive.com).

Students will need to bring 24" x 36" printed copies of their posters to the conference. Large multi-poster panels and push pins for displaying the posters in the Student Poster Display area will be provided. All students presenting a poster in the competition will receive free registration to the conference, a shared hotel room provided by SPE-ACCE, and one year of free student membership in SPE. The ACCE provides students with excellent networking opportunities especially ideal for those close to graduating who are starting to look for a job. The poster template is online via: <https://speautomotive.com/wp-content/uploads/2023/01/2023-SPE-ACCE-Poster-Competition-Template.pdf>

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
- Air Mobility

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.

**The 2022 ACCE Student Poster Competition** first place winners included Kaitlyn Root, University of Guelph, for her poster “Poly (Butylene Succinate-co-Butylene Adipate) based Biodegradable Composites for Sustainable Automotive Packaging” in the Undergraduate Category; Vinit Chaudhary, University of Tennessee, for his poster “Recycled Carded Carbon Fibers for Automotive Applications” in the Masters Category; Sanjita Wasti, University of Tennessee, for her poster “Bamboo Trailer Decking Development for Sustainable Transportation” in the PhD – Bio, Additive Manufacturing Category; and Jason Pierce, Baylor University, for his poster “Short Carbon Fiber Orientation Evolution Analysis for Polymer Melt Additive Manufacturing via Coupled CFD-DEM Simulation” in the PhD – Design, Modeling & Simulation Category.

**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, Asia/Pacific and South America, 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. 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 info see <https://speautomotive.com/>, <https://composites.4spe.org/> and <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](mailto:uvaidya@utk.edu)
- Dr. Douglas E. Smith, Baylor University, 254.710.6830, [Douglass\\_E\\_Smith@baylor.edu](mailto:Douglass_E_Smith@baylor.edu)



Dr. Uday Vaidya with ACCE Student Poster Competition Students



Keith Nagara, Dassault Systemes (Student Poster Competition Sponsor)

Presenting Award to Sanjita Wasti, University of Tennessee First Place Winner

In the PhD – Design, Modeling & Simulation Category

High Resolution Photos from the ACCE are available via:

<https://www.flickr.com/photos/speautomotive/albums/with/72157673717033072>