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For immediate release

## Press Information

Date: July 2019  
Topic: Formula SAE team of the University of Stuttgart honored by ACE at racing series in the USA

### Racing Students Distinguished with ACE Energy Management Award

**Farmington, USA; Langenfeld, Germany:** The racing team of the University of Stuttgart, Germany, recently won the overall ranking at the Formula SAE for the fourth time in a row at the Michigan Speedway International in the USA. Started in 1981, Formula SAE is the first international racing competition for students and race cars built by their teams. This year, the committed team from Swabia also took the ACE Energy Management Award home to Germany. Awarded for the second time in 2019 by ACE Controls Inc., the prize is worth a total of 2,250 US dollars and honors innovative energy management solutions. Chris Niemiec, Engineering Manager, North America, at ACE explains: "This can be in the form of vibration or motion control, impact damping, etc. We look for creativity, effectiveness and overall 'wow' factor from the application." The team from Stuttgart prevailed in this student competition against more than 20 applicants. Second and third place were taken by race teams from universities in Montreal, Canada, and the University of Michigan, Dearborn.

At Michigan Speedway International, ACE's specialists not only provided teams with support at their own information booth, but they also visited many teams with other sponsors. "Enthusiasm in talking about the vehicles and teams is very high and the curiosity about how they can be optimized with our solutions is huge on both sides," says Larry Cavalloro, responsible for marketing in the USA. This is also because Formula SAE is not primarily concerned with developing the fastest cars. In this race series, as well as in the European Formula Student, top performances in different sub-categories count. Here, the Stuttgart racing team sets standards. It stands out in the development of racing cars by consistent implementation of a lightweight construction. The related work was also the key to winning the ACE Energy Management Award. On the one hand, the German students were one of only a few teams to carry out practical analyses of the influence of vibrations on the performance and dynamics of their vehicle. On the other hand, an innovative crash element made of carbon fiber composites and aramid was a central aspect of the safety concept of the Swabians. With the development of a carbon fiber aramid impact attenuator, they succeeded in developing an absorbent construction that weighs less than half of comparable elements and absorbs about 9,000 joules of energy. The resulting energy corresponds to the impact of a mass of 660 lb from a height of 8.2 ft. At the same time, the low weight of the attenuator ensures significantly improved handling and higher speeds of the car in curves and straights.

Peter Maderthaler, Subteam Director & Aero CFD of the team from Stuttgart, who received the award together with Anurag Ramarao Murali, responsible for Monocoque and Aero Structural Simulation: "We thank ACE for this award, which confirms our commitment to also continue with our simulations, analyses and studies before the actual contests to hopefully defend our US title in 2020."

491 words (3,024 characters with spaces)

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BIC DEUTDE33XXX**Pictures and Captions****Picture 1 ACE Uni Stuttgart Winner FSAE and ACE Energy Management Award****The racing team of Stuttgart University, Germany, wins the ACE Energy Management Award in 2019**

Peter Maderthaner (middle), Subteam Leader & Aero CFD from the Stuttgart team, receives the award with Anurag Ramarao Murali (right), Monocoque and Aero Structure Simulation, in the USA from Rahul Chandrashekar, Technical Expert and Software Systems Architect at ACE Controls Inc.

**Picture 2 ACE Uni Stuttgart Winner FSAE and ACE Energy Management Award****The racing team of the University of Stuttgart wins the 2019 ACE Energy Management Award during the races of Formula SAE at the Michigan Speedway International in the USA**

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## Picture Credits

Picture 1 ACE Controls Inc.

Picture 2 Racing Team University of Stuttgart

## Trade Fair Announcement

Visit ACE at 38. Motek – International Trade Fair for Automation in Production and Assembly  
ACE Stoßdämpfer GmbH, Hall 5, Stand 5223,  
from October 7 to 10 of 2019, Stuttgart, Germany.  
We will be happy to meet you there!

## Your Contacts

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