

CALL FOR PAPERS AND PRESENTATIONS

WCX SAE World Congress Experience

April 9-11, 2019 | Cobo Center, Detroit Michigan

sae.org/wcx

WCX focuses on technologies and their application to solve critical problems that move the automotive industry forward. In addition to electronics, safety, powertrain, materials, emissions, and propulsion, WCX is seeking experts to address the latest in Autonomous Driving Systems, internet of things, semiconductors, ADAS, Smart Manufacturing, and Smart Transportation.

We are asking you to share your time and talent by offering to give a presentation or presentation with technical paper on the critical issues and technology that are shaping the automotive industry.

Abstract Submission Period: June 1 - September 4, 2018

Benefits of Authorship*

- Expand your professional experience and influence by demonstrating subject matter knowledge and expertise to mobility practitioners throughout the world.
- Connect with subject matter experts in the mobility industry to expand business opportunities.
- Be a conduit for discussion on further advancements in mobility in the areas of Automotive Electronics, Safety, Powertrain, Materials, Emissions and Propulsion.
- Discuss successes and problems encountered during research with your peers who may have similar experiences and lessons learned to share.
- Your technical paper could be selected for SAE Journals—collecting our best technical papers in online and print issues throughout the year, increasing eligibility of inclusion into scientific indexes
- Authors receive a discount on event registration

Call For Reviewers

SAE International is also seeking help from experts willing to volunteer their time and technical acumen to review technical manuscripts for the Technical Sessions.

Benefits of Being a Manuscript Reviewer*

- Expand your technical knowledge by reviewing manuscripts and achieving prior awareness of the latest technologies and practices coming to the mobility industry.
- Demonstrate your subject matter expertise to the organizers developing technical sessions.
- Become a bigger part of the technical community by contributing to the mobility industry's body of technical knowledge.
- Connect with other subject matter experts in the mobility industry to expand business opportunities
- Reviewer receive a discount on event registration
- Reviewer Resources: Reviewer, guidance and judgement information is provided here sae.org/participate/volunteer/reviewer-resources

Topics Under Consideration

With over 225 sessions offered at WCX below is a sampling of topics we are looking to see abstract submissions for this Conference.

Automotive Electronics/ Connectivity/IoT/Smart City

- Active Safety
- ADAS
- Advanced Electronics Functions
- Artificial Intelligence
- Augmented and Virtual Reality (AR/VR)
- Automated Driving Systems
- Cybersecurity
- Electronics and Electrical Systems
- Electronics in the Interior
- Electronics in Transportation
- Electronics in Powertrain
- Electromagnetics and Antennas, EMI/EMC
- Harnesses and Wiring
- Integrated Cloud Technology
- Internet of Things
- Simulation and Model Based Architecture
- Systems Engineering
- V2V/V2I Safety

Environment/Emissions/ Sustainability/Thermal Management

- Alternative Fuels and Power Sources
- Emissions
- Lightweighting and Energy Reduction
- Noise Reduction and Abatement
- Sustainable Systems
- Thermal Systems

Materials and Lightweighting

- Automotive Composites
- Bearings, Lubricant Systems & Tribology
- Biomaterials
- Ferrous
- Interiors
- Interiors/Seating
- Materials Modeling & Testing
- Non-Ferrous
- Plastic Components, Process and Techniques
- Polymers & Coatings

Design and Manufacturing

- Additive Manufacturing
- Axiomatic Design
- Body Design and Engineering
- CAD, CAM, CAE, and Optimization
- Design for Manufacturing
- Integrated Computational Materials Engineering (ICME)
- Industry 4.0
- Reliability Engineering, Robust Design, and Durability Testing
- Robotics and Manufacturing Automation
- Uncertainty Modeling

Advanced Propulsion/Powertrain

- Advances in Thermal & Fluid Sciences
- Compression and Spark Ignition Engines
- Control and Optimization
- Engine Boosting
- Engine Components and Subsystems
- Engine Flows and Combustion Diagnostics
- Fuel and Additives
- Fuel Cells, Electric Vehicles, and Hybrids
- High Efficiency and Reduced CO₂/km
- In-Cylinder Velocity Measurements
- Lubricants
- Multi-Dimensional Modeling
- Systems Analysis & Modeling
- Transmissions & Drivelines

Body/Chassis/Occupant and Pedestrian Safety/Structure

- Aerodynamics
- Body Structures
- Design Optimization: Methods & Applications
- Fire Safety
- Functional/Passive Safety
- Human Factors
- Lighting Technology
- Motorsports
- Occupant Protection
- Steering, Chassis & Suspension
- Tires & Wheels
- Vehicle Dynamics and Simulation

How to Submit an Abstract

Abstracts must be submitted online via website page to only ONE session. Offered papers shall not have been previously published; and if accepted, contributors will not release their paper for publication through other media.

The following information will be required during the on-line submission process:

1. A summary that states the objective of the paper/presentation
 2. Tentative title
 3. Name of the author and co-authors and all contact information
 4. Selection of the most appropriate technical session
- Paper acceptance will be based on organizer moderated peer review of a review ready manuscript.
 - Refer to the author resources site at sae.org/participate/volunteer/author for other useful information in preparing your paper.
 - Portal for submission of abstracts will be open on June 1, 2018
 - Abstract submission period: June 1 through September 4, 2018
 - Review Ready Manuscripts due to session organizers October 16, 2018
 - Final Manuscripts and copyright assignment due to SAE January 15, 2019

Upon submission, you will receive an automatic reply with your paper offer number. If you do not receive a paper offer number at that point, please retry on-line submission or contact nori.fought@sae.org

AUTHOR RESOURCES

The following SAE web sites provide useful information to assist you in submission of your materials:

General Author resources page

sae.org/participate/volunteer/author

How to Write an SAE International Technical Paper

volunteers.sae.org/authors/sae_tech_paper.pdf

Important Information

- Please note that speakers will be charged a nominal fee to attend this conference.
- Approval of final manuscript does not guarantee that the author will be given a speaking slot.
- Presentations will be assigned based upon topic applicability and the number of available speaking slots.
- If your Manuscript is selected for Podium Time and you do not attend, your manuscript may not be eligible for publication.

If you wish to publish a paper without presenting, please submit your abstract on SAE Open Call for Content portal at sae.org/events/calls.htm

For questions contact:

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