

CALL FOR PAPERS/PRESENTATIONS

Powertrains, Fuels & Lubricants Digital Summit

September 28-30, 2021

With the unknown duration of the impacts of Covid-19, SAE has decided to hold the 2021 Powertrains, Fuels & Lubricants Meeting virtually. In addition to published papers, authors will be asked to submit MP4 video files (voice over Powerpoint) to be part of the virtual programming. Papers and videos will be featured in SAE Mobilus at the conclusion of the summit. If you have content to publish and interest to present it virtually, please see the below topics and deadlines. We look forward to your contributions and thank you, in advance, for supporting SAE.

General Powertrain Development

- 0-D and 1-D Modeling and Numerics
- Control System Design, Calibration and Optimization
- Engine Flows and Combustion Diagnostics
- Fundamental Advances in Heat Transfer and Thermal Sciences
- High Efficiency IC Engines Concepts
- Multi-Dimensional Engine Modeling
- Onboard Diagnostics
- Powertrain Adaptation for Connectivity and Automation

Engine Combustion

- Basic SI Combustion Processes
- Abnormal SI Combustion (Knock)
- Combustion in Spark Ignition Engines
- SI Combustion Ignition
- Dilute SI Combustion
- Abnormal SI Combustion (Preignition)
- Combustion in Compression-Ignition Engines
- Homogeneous Charge Compression Ignition, HCCI
- Partially Premixed Compression Ignition, PCCI
- Dual Fuel Combustion
- Combustion in Gaseous-Fueled Engines
- Combustion Control and Optimization
- Cold Start and Transient Emissions Control

Exhaust, Aftertreatment, & Emissions

- Exhaust Emissions Control - New Developments
- Exhaust Emission Control Systems
- Emission Control Modeling
- Emissions Measurement and Testing (Including exhaust & non-exhaust particulate emissions)
- Regulated and Unregulated Gaseous Emissions
- Cold Start Emissions
- Post Euro 6 Emissions Development
- Worldwide Harmonized Light Vehicle Test Procedures & Real Driving Emissions

Fuels and Lubricants

- Fuel & Additive Effects on Engine Systems
- Fuel Injection and Sprays
- Alternative and Advanced Fuels
- Gasoline Engine Lubricants
- Diesel Engine Lubricants
- Holistic Fuel Consumption and Fuel Economy

New Engines, Components, Actuators & Sensors

- New CI & SI Engines and Components
- Engine Boosting Systems
- CI & SI Cylinder Systems
- Small Engine Technology
- Powertrain NVH
- Powertrain Actuators and Sensors
- Valvetrain, including VVA
- Engine Block, Cylinder Heads, Oil & Water Pumps, Intake and Exhaust Systems

Hybrid & Electric Powertrains

- Advanced Hybrid and Electric Vehicle Powertrains
- Advanced Fuel Cell Vehicle Applications
- Advanced Battery Technologies
- Electric Motor & Power Electronics
- Controls for Hybrid and Electronic Powertrains
- Life Cycle Analysis

Transmission & Driveline Technology

- Transmission Systems/ Drive Unit
- AWD/ 4WD/ Driveline Components
- IVT/ CVT
- Driveline Controls (Part 1 of 2)
- Launch Devices
- Driveline NVH
- Driveline Components/ Subsystems
- Driveline Modeling

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:

- Paper acceptance will be based on organizer moderated peer review of a review ready manuscript.
- Refer to the author resources site at volunteers.sae.org/authors.htm for other useful information in preparing your paper.
- Portal for submission of abstracts will be open on **October 5, 2020**.
- Deadline for submitting paper offers **February 23, 2021**.
- Review Ready Manuscripts due to session organizers **May 6, 2021**.
- Final Manuscripts and copyright assignments due to SAE **July 27, 2021**.

- If you wish to submit directly to one of the SAE journals, please visit sae.org/publications/journals/callforpapers, and upload a complete manuscript to your journal of choice.
- If you simply wish to publish, written-only papers may be submitted at any time to editorialmanager.com/saetechpapers.

ADDITIONAL RESOURCES

General Author Resources Page
volunteers.sae.org/authors.htm

How to Write an SAE International Technical Paper

volunteers.sae.org/authors/sae_tech_paper.pdf

For questions contact:

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