

ICE2023

**16th International Conference
on Engines & Vehicles
for Sustainable Transport**

September 10th - 14th, 2023 @ Capri, Naples

ICE2023 is organized by **SAENA** (Italian SAE section) in cooperation with **CAR-OSU** (Center for Automotive Research of the Ohio State University) and with **STEMS** (Institute of Science and Technology in Energy and Sustainable Mobility - Naples, Italy).

Prospective authors are invited to submit abstracts of 300 words or less for review by the General Committee. Abstracts will be submitted on-line and managed by the SAE International.

Upon submission, the paper tracking number will be sent by email.

Paper acceptance will be based on organizer moderated peer-reviews of review-ready manuscript.

Authors should prepare their papers according to SAE International format.

For additional information, please contact ICE2023 Secretary by email and/or visit SAENA website and/or visit ICE2023 website

DEADLINES

Abstracts due to SAE:: March 25th, 2023

Draft Manuscript due to organizers:: May 15th, 2023

Final Manuscript due to SAE:: July 2nd, 2023

TOPICS OF THE CONFERENCE

ICE100 Powertrain System Modeling & Controls

- 0-D and 1-D Modeling and Numerics
- Multi-Dimensional Engine Modeling
- Combustion and Flow Diagnostics
- Engine Management and Control

ICE200 Engine Combustion

- Combustion In Spark Ignition Engines
Basic, alternative fuels & Abnormal Combustion
- Combustion in CI Engines: Basic & alternative fuel
- Homogenous Charge Partially, Premixed Compression
Ignition & Dual-Fueled Engines
- Combustion in Hydrogen Fueled Engines

ICE300 Fuels and Lubricant Technologies

- Fuel Injection and Sprays
- Alternative and Advanced Fuels
- Automotive Lubricants

ICE400 Mobile Emissions

- Exhaust Emission Control: Systems New Developments and modeling
- Emissions Measurement and Testing
- PM Non-Exhaust emissions
- Emissions from Combustion Sources

ICE500 New Engines, Components, Actuators, & Sensors

- CI & SI Engines Technology
- Thermal Systems Management
- Thermal Systems Modeling and Simulation
- Alternative Engine Architectures High Efficiency Engines Concepts

ICE600 Advanced Mobility: Hybrid and Electric Powertrains, and Eco-CAV

- Advanced Hybrid and Electric Vehicle Powertrains
- Controls for Hybrids and Electric Powertrains
- Hydrogen and Fuel Cell Vehicle Applications
- Range Extending Engines
- Battery and Energy Storage Systems for Electric Mobility
- Powertrain Adaptation for Connectivity and Automation
- AI and Machine Learning
- Physical, virtual and mixed test methods for efficient powertrain concepts
- Smart Energy Systems

CONFERENCE CHAIRS Prof. Giorgio Rizzoni (CAR-OSU) & Dr. Bianca M. Vaglieco (STEMS)

CONFERENCE ORGANIZERS Dr. Eng. Silvana Di Iorio & Dr. Eng. Ezio Mancaruso (STEMS | SAENA)