

OS25: Combustion-generated Pollutants

November 12, 2025

EX-Hall-1B

- OS25-1 **Formation Mechanism of Polycyclic Aromatic Hydrocarbons from Monocyclic Aromatics with Different Structures** (*Invited*)
13:30-14:00 Shunsuke Suzuki, Akira Matsugi (National Institute of Advanced Industrial Science and Technology (AIST), Japan)
- OS25-2 **Analysis of Key Intermediates in the Growth of Polycyclic Aromatic Hydrocarbons**
14:00-14:20 Chenxuan Li, Bin Yang (Tsinghua University, China)
- OS25-3 **The Mechanism of Soot Formation from Resonance-Stabilized Radicals to Covalently Bond Clusters**
14:20-14:40 Hong Wang, Zhandong Wang (University of Science and Technology of China, China)
- OS25-4 **On the Formation of PAHs from the Oxidation of Ethylene in a JSR**
14:40-15:00 Philippe Dagaut (CNRS, France), Shunsuke Suzuki (National Institute of Advanced Industrial Science and Technology (AIST), Japan)
- 15:00-15:15 BREAK
- OS25-5 **Insight into NO_x Reduction Mechanisms in Ammonia Combustion using Oxygen-free Spherical Flame Propagation and Shock-tube Autoignition Methods**
15:15-15:35 Yuyang Li, Wei Li, Songlin Liu, Bilal Hussain (Shanghai Jiao Tong University, China)
- OS25-6 **Study on the Effects of Ozone Addition on Combustion Stability and NO_x Emission Characteristics in Premixed NH₃/Air Flames**
15:35-15:55 Cheng Gu, Li Guo, Bisheng Wang, Xun Zou, Ming Zhai (Harbin Institute of Technology, China)

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- OS25-7 **Hydrogen Enrichment Effects on Flame Dynamics and Combustion Characteristics in DME-and Ethane-fueled micro-TPV Systems**
9:00-9:20 JunFeng Chang, ZhengXin Wang, Juan Wang (Beihang University, China)
- OS25-8 **DME – Combustion Enhancer for Ammonia Engines**
9:20-9:40 Christine Mounaïm Rousselle (University of Orleans, France), Ganesh Duraisamy (Anna University, India)
- OS25-9 **Development of a Model for Predicting Particle Size Distribution and Experimental Validation using Engine Tests under Cold-Start Conditions**
9:40-10:00 Jun Hashimoto, Kazumasa Ito, Shunya Matsumae (Oita University, Japan), Tatsuya Kuboyama (Chiba University, Japan), Yasuyuki Sakai (Ibaraki University, Japan), Kazuhiro Akihama (Nihon University, Japan)

- OS25-10
10:00-10:20 **Effects of a Near-Wall Cooling Air Film on the Formation of Carbon Monoxide**
Antoine Blaise, Gilles Godard, Frédéric Grisch, Pradip Xavier (INSA Rouen
Normandie, France)
- 10:30-10:45 BREAK
- OS25-11
10:45-11:05 **Study on Vortex-Dispersed Combustion Characteristics and NO_x Emissions of
Natural Gas under Low-Oxygen Partial Pressure Conditions**
Xun Zou, Peng Wang, Cheng Gu, Li Guo, Ming Zhai (Harbin Institute of
Technology, China)
- OS25-12
11:05-11:25 **Furans Formation and Atmospheric Implications**
Philippe Dagaut (CNRS, France)