

POSTER SESSIONS

Three poster sessions are planned to enable the presentation of interesting work that could not be included in the Conference regular sessions.

Poster titles followed by **(PP)** indicate that the full peer-reviewed paper is available in the conference proceedings. Poster titles followed by **(PA)** indicate that an extended abstract is available in the conference proceedings. For the rest of the titles followed by **(-)**, neither paper nor abstract is available.

The poster sessions are planned after lunch on Wednesday 9th, Thursday 10th and Friday 11th September, between 2:30 pm and 3:30 pm.

Conference participants are invited to visit the poster sessions and discuss the issues with their authors.

WEDNESDAY 9TH SEPTEMBER 2026

Time slot (4 min. pitch)	POSTER SESSION 1	Chairpersons: Marcos Carreres, Benjamín Plá, Pedro Quintero UPV, Spain
14:30h 1	Efficiency and NO_x Optimization of Active Prechamber Ammonia-Hydrogen Internal Combustion Engine with MLP (PP) Yang Yuan, Jun Deng, Quanbo Shang, Liguang Li Tongji University, China	
14:34h 2	Emission Characteristics of Ammonia/Dimethyl Ether Blends in Internal Combustion Engines (PP) T. Franken ¹ , C. Mounaïm-Rousselle ^{2,3} , F. Mauss ¹ ¹ BTU Cottbus-Senftenberg, Germany · ² Université d'Orléans, France · ³ Institut Universitaire de France, France	
14:38h 3	Modeling NO_x and N₂O Emissions from Ammonia Combustion in a Spark-Ignition Heavy-Duty Engine (PA) S. Saenz, J.M. Trujillo, C.E. Dumitrescu West Virginia University, USA	
14:42h 4	Effects of Ammonia Energy Ratio, Injection Timing, and Load on Combustion and Emissions in an Ammonia-Gasoline SI Engine (-) Ying Ding, Junhao Yi, Zezhong Wang, Dong Han, Zhen Huang Shanghai Jiao Tong University, Key Laboratory for Power Machinery and Engineering of Ministry of Education, China	
14:46h 5	Investigation of Diesel Injection Strategies on Engine Performance, Emissions, and Flame Development in Ammonia-Diesel Dual-Fuel Combustion (PA) Chansoo Park ¹ , Cheolwoong Park ¹ , Minki Kim ¹ , Hyeongjun Jang ^{1,2} , Kyunghun Kim ² , D. Kim ² , J. Lee ² ¹ Korea Institute of Machinery and Materials, Republic of Korea · ² Chungnam National University, Republic of Korea	
14:50h 6	Overview of an Engine System Employing an Onboard Reformer for Single-Fuel Ammonia Operation (PA) T. Takeuchi Toyota Industries Corporation, Japan	
14:54h 7	The Potential in Emissions Reduction of a Direct-Injection Liquid Ammonia CI Engine by Co-Optimization of Ammonia Injection Timing and Oxygen Enrichment (PA) J. Cao ¹ , D.R. Emberson ¹ , T. Løvås ² ¹ Department of Marine Technology, NTNU, Norway · ² Department of Energy and Process Engineering, NTNU, Norway	
14:58h 8	Combustion Characteristics of a Two-Stroke Engine Fueled with Liquid Ammonia/Diesel Blends (PA) Pengbo Dong ¹ , Yuxuan Liu ¹ , Jiangping Tian ¹ , Qiongzhi Liu ¹ , Fanjie Tang ¹ , Keiya Nishida ^{1,2} , Zechuan Cui ¹ , Wuqiang Long ¹ ¹ Dalian University of Technology, China · ² Hiroshima University, Japan	
15:02h 9	A Comparison of Alternative Fuels Spray Characteristics from a Marine Pump-Line Nozzle Injector (PP) V. Sileghem, Q. Dejaegere, S. Verhelst Ghent University, Belgium	
15:06h 10	CFD and Experimental H₂ Slip Assessment in a Dual Fuel Diesel-H₂ Marine Engine (PA) N. Romero-Anton, G. Lopez-Ruiz, R. Marcos-Saenz del Burgo, Z. Azkorra-Larrinaga, Z. Uriondo-Arrue University of the Basque Country UPV/EHU, Spain	
15:10h 11	Role of Bubble Nucleation Model in Flash-Boiling of High-Volatility Fuel Sprays (PA) Mohammad R. Shakeel, Xinlei Liu, Hong G. Im King Abdullah University of Science & Technology, Saudi Arabia	
15:14h 12	Combustion and Emission Analysis of Synthetic Drop-In Fueled Heavy-Duty Engines under Various Ambient Temperatures and Loads (PP) H. Cheng ¹ , R. Sok ¹ , J. Kusaka ¹ , Y. Sakai ² , B. Shin ³ , N. Uchida ³ ¹ Waseda University, Japan · ² Ibaraki University, Japan · ³ New ACE Institute, Japan	