

Posters will be available in large LCD's during the entire conference. Detailed industry session addressing poster visit will take place on Tuesday in the Industry session, where regular and WIP Posters will be also discussed given their relevance in the context of this session.

All participants are invited to visit them during the conference and breaks.

Posters:

Regular Posters:

- Effect Of Energisation Regimes On Spray Characteristics In Electrostatic Atomisation
E.D. Andrews, I. Timoshkin, G. Burt
- Modeling Breakup And Solidification Dynamics In Gas Atomization Of Recycled Steel
S. Heidarpour, N.G. Deen, J.J. Remmers, G. Finotello
- On Particle Transport Mechanisms In Cylinder Wakes Using A High-Fidelity Eulerian-Lagrangian Framework
R. Boukharfane
- Experimental And Numerical Investigation Of Motive Nozzle Positioning In A Two-Phase Water Ejector For High-Temperature Heat Pumps
O.A. Khass, M. Cristofaro, S. Klöppel, P. Stathopoulos
- Experimental Investigation On The Influence Of Surface Roughness On Thin Shear-Driven Water Films
J.H. Ruesch, M. Schatz
- Atomization In Airblast Atomizers: A Comparison Of Two Numerical Frameworks
R. Forte, C. Hasse
- Optical Rapid Compression Machine Test Facility For Low And Zero-Carbon Fuels
S. Begg, G. De Sercey, V. Sharma, A. Panesar
- Numerical Investigation Of Non-Premixed Combustion Of Hydrogen- Enriched Methane And Ammonia In A Reverse-Flow Gas Turbine Combustor
R. Renane, R. Allouche, H. Remmal
- Critical Transition Of Ethanol Droplets In Vapor-Rich Environments: A Numerical Study Using The REFPROP F8 Helmholtz EOS
R. Coelho, J. Vedovotto, P. Mota, R. Serfaty, G. Sabino
- Interferometric Laser Imaging for Droplet Sizing of Flash-Boiling Ammonia Sprays
U. Sonawane, V. Venkatesan, C. Hespel, C. Rousselle
- Experimental Study Of Heat Transfer In Multiple Droplet Impacts
Alavaro F. Campos-Araya, Thomas Potaufoux, Ophélie Caballina, Michel Gradeck, Arthur V. S. Oliveira, Guillaume Castanet



- Aerosol Prediction in Superheated and Flash-Boiling Sprays: Limits and Transferability of Machine-Learning Models
Aymane Saissi, Edmund Reardon, Hugh Hunt, Shaun Fitzgerald
- Experimental and modeling studies of primary jet breakup in lab-scale facility
G.B. Ariemma, M. Piras, G. Sorrentino, R. Ragucci
- Multiscale modeling of sheared liquid film formation and atomization in aeronautical fuel injectors
Nicolas Gasnier, Sébastien Ducruix, Laurent Zimmer, Julien Leparoux, Aymeric Vié

Work in Progress Posters:

- Analytical Modelling Of Finite Amplitude Oscillation Of Viscous Drops In Single Mode
G.E. Cossali, S. Tonini
- Optical Investigation Of Cavitation And Flash Boiling In Transcritical Cryogenic Sprays
F. Murphy-Hunt, C. Marlow-Eastwood, M. White, C. Crua
- Dynamic Analysis Of A Solenoid-Driven Diesel Injector Using A One-Dimensional Model For DME Fuel
J. Lee
- Flow Dynamics And Stability Limits Of Electrodynamic Sprays Through Permeable Electrodes
K. Mehrabi, F.J. Higuera
- On The Impact Of Nanoparticle Shape On Droplet Retraction Over Smooth Surfaces
M.R. Vetrano, Q. Dong, Y. Shang, D. Fontanarosa, M. Van Alphen
- Three-Layer Gas-Phase Modelling For Numerical Simulation Of Sodium Spray Combustion In A Sodium-Cooled Fast Reactor Compartment
J. Kim, B.J. Kim
- Light Field Imaging For Gas-Liquid Interfaces In Multiphase Flows: Bubble/Droplet Sizes
R. Kukkarasi, A. Marszalek, J.-B. Blaisot, M. Brunel
- On The Relevance Of Nozzle-Internal Surface Roughness On Flash-Boiling Phenomena Of Liquid Ammonia
P.W. Augustin
- Dispersion Gas Effects On Flash-Boiling Atomization And Stability Of Liquid Ammonia Spray Flames
Arpert, P. Augustin, L. Heine, A. Maßmeyer, W. Rohlf, M. Reddemann
- Visualization, Measurement, And Analysis Of Spray And Flame Propagation In An Ammonia Direct-Injection Engine
Y. Kim, C. Park, C. Park, Y. Choi



- CFD-Guided Geometric Design For Swirling Airflow Control In Ultrasonic Spray Systems
X. Hou, P. Vesely, R. Schick
- Sustainable Ultrasonic Atomization With Advanced Spray Analysis For Resource-Efficient Semiconductor Wet Processing
X. Hou, P. Vesely, R. Schick
- Flash-Boiling Characteristics Of Methanol Sprays: From Bubble Dynamics To Plume Collapse
V. Sharma
- Validation Of Spray Characteristics Of Hydraulic Axial Full Cone Nozzles Using The Smoothed Particle Hydrodynamics (SPH) Method
S. Markus, P. Hellard
- Development Of Experimental Test Platforms For Aerospace Propulsion Research: Example Results On 3D-Printed Pintle Injector Sprays And Shock-Droplet Interaction
M. Son, M. Wenderoth, M. Drost, T. Sander, L. Zigan
- Stabilization Of Ethanol-In-Oil Emulsion Produced With An Injector Nozzle In-Line With A Microchannel Mixer
Oliveira, M. Bailly, J. Bellettre
- Spatial Evolution Of Liquid Sheets Formed By Impinging Jets Under Subcooled And Flash-Boiling Conditions
H.A. Gonzalez, B. Kazmierski, L.J. Kapusta
- Reduced Gas Consumption and Enhanced Powder Fineness for Additive Manufacturing by High-Temperature Gas Atomization
A.K. Geppert, A. Weicht, S. Evers, L. Achelis, V. Uhlenwinkel, U. Fritsching
- Numerical Assessment Of Multi-Jet Injection In Turbofan Exhausts
Holger Huck, Corine Kieffer-Roth, Hannah Scheffold

Industry session Posters

- Advanced Optical Instrumentation For Spray, Droplet, And Particle Characterization
M.D. Leandro, W.D. Bachalo, K.M. Ibrahim, G.A. Payne
- 155 Impact Of Nozzle Shape And Dimensions On Liquid Jet-In-CrossFlow Spray Characteristics For The Design Of A Multi-Staged Fuel Injection System
A. Tomba
- Precision Pulsed Microspray Deposition for Functional Nanomaterial Coatings
X. Hou, R.J. Shick, L. Makle, M. Alkhateeb
- A Retrofit Electrostatic Pressure Swirl Atomizer for Improving Industrial Spray Performance Without Nozzle Redesign
Baraya E.A., Ibrahim I.A.2, Gad H.M.

