9-10 JUNE 2026

CO_2 Reduction for Transportation Systems Conference
@ Museo Nazionale dell'Automobile – Torino

Tuesday - June 9, 2026 (morning)			
8.30	Registration		
Opening Welcome Address & Plenary Keynotes @Auditorium			
09.00-10.40	***Keynote Session to be revealed soon…stay tuned!***		
Coffee Break @Exhibition Area			
Parallel Sessions			
	ROOM 1	**ROOM 2**	**ROOM 3**
	Hybridization & Electrification	**Hydrogen for Sustainable Mobility: H2ICE&H2FC**	**Aftertreatment technologies**
11:00-11.20	Eco-Driving Optimization for Battery Electric Vocational Trucks: A Spatial-Domain Approach with Normalized Energy Parameters **Andrea Giacobbo**, Daniele Beltrami, Paolo Iora, Stefano Uberti, **Università di Brescia**; Manfredi Villani, **The Ohio State University**	A 1D Numerical Investigation of Oil Drop Autoignition in Convective H2-Air for Knock Modeling **Federico Perini**, **Wisconsin Engine Research Consultants**; Niccolo Fiorini, Giovanni Vichi, **Yanmar R&D Europe**	Particulate Filters to Mitigate Global Warming and CO2 emissions **Lauretta Rubino**, **Vert**
11:20-11.40	Integration of energy consumption simulation in optimal charging planning for battery electric long-haul trucks **Michail Perdikopoulos**, **Aristotle University of Thessaloniki**; Stylianos Doulgeris, Leonidas Ntziachristos, Georgios Livitsanos, Thomas Kazakis, Giorgos Mellios, **EMISIA SA** **Paper # 2026-37-0019**	Design and Optimization of a Passive Prechamber Ignition System for Ultra-Lean Hydrogen-Fueled Spark-Ignited Engines Andrea Piano, **Marco Marzulli**, Gianpaolo Quattrone, Federico Millo, **Politecnico di Torino**; Danilo Ceratto, Alessandro Perazzo, Francesco Villa, **Westport Fuel Systems Italia**; Paul-Benjamin Reinicke, Michael Rieß, **IAV GmbH**	Development of the Chemical Reaction Mechanism for Oxide Film Formation and Decomposition in Rh-Based Three-Way Catalysts **Aiko Takano**, Jin Kusaka, **Waseda University**; Steffen Tischer, Daniel Hodonj, Patrick Lott, Olaf Deutschmann, **Karlsruhe Institute of Technology**
11.40-12.00	Passenger Car Powertrain for Voltages above 800V **Christof Schernus**, Shady Nada, Christoph Neuhaus, Jens Ewald, **FEV Europe GmbH**; Daniel Swierc, Rajesh Kallur-Krishnamoorthy, **RWTH Aachen University**; Harilaos Vasiliadis, **InnovationGreen** **Paper # 2026-37-0020**	Sub Zero Cold Start of a Novel 6.6 L H2 PFI V8 Engine: Experimental Assessment of Coordinated Ignition and Injection Strategies **Riccardo Aprosio**, **Alessandro Forina**, Raffaele Russo, Giovanni Gallo, Marco Ravazzolo, Nicola Sacco, Tonio Spedicato, Gianmarco Stirpe, Antonino Zingariello, Barbara Maisola, **DUMAREY Automotive Italia S.p.A.**; Aldo Di Nieri, **DUMAREY Softronix S.r.l.**	Biofuel Effect on Regeneration Capability and Soot Reactivity in SCRoF Systems **Simone Costa**, **FPT Industrial**
12.00-12.20	Hybridized Diesel Powertrains - an important enabler for commercial applications on the long journey towards full electrification **Thomas Koerfer**, **FEV Group GmbH** **Paper # 2026-37-0022**	Experimental and Numerical Investigation of Ultra-Lean Hydrogen Combustion in a Spark-Ignition Engine Using a Dedicated Cold-Spark Ignition System **Massimiliano Avana**, Jacopo Zembi, Tamara Gammaidoni, Filippo Bittoni, Michele Battistoni, Carlo Grimaldi,**Università degli Studi di Perugia**; Federico Ricci, Stefano Papi, **Champion Ignition - Tenneco**	Impact of Thermal Ageing on Three-Way Catalyst Performance in Heavy-Duty Natural Gas Engines for Euro 7 Durability Compliance **Dario Di Maio**, Chiara Guido, Carlo Beatrice, Pierpaolo Napolitano, **CNR - STEMS**; Edoardo Merlone Borla, **FPT Industrial SpA**
12.20-12.40	Enabling Flexibility Services through Interoperable V2X Infrastructures: Advanced Modeling and Operational Validation in the FLEXV2X Project **Giovanni Lutzemberger**, Massimo Ceraolo, Gianluca Pasini, **Università di Pisa**; Davide Barater, **Università di Modena e Reggio Emilia**; Cesare Fera, **Fera srl**; Ian Leaver, **Ricarica srl** **Paper # 2026-37-0024**	Numerical simulation of spark-ignited flame kernels towards prospective application to hydrogen SI engines Enrico Dotteschini, **Marco Pretto**, Pietro Giannattasio, **Università di Udine**; Mahmoud Gadalla, **Wärtsilä Finland Oy** **Paper #2026-37-0015**	Comparative Toxicological Assessment of Exhaust Emissions from Modern Low-Emission Passenger Vehicles Georgios Tsakonas, Rodopi Stamatiou, Antigone Lazou, Zissis Samaras, **Aristotle University of Thessaloniki**; Karine Elihn, **Stockholm University** **Paper # 2026-37-0005**
Lunch @Exhibition Area			

Tuesday - June 9, 2026 (afternoon)

Parallel Sessions

	ROOM 1	ROOM 2	ROOM 3
	Alternative Fuels and E-Fuels	**Hydrogen for Sustainable Mobility: H2ICE&H2FC**	**New Powertrain Developments**
14.00-14.20	Numerical Investigation of Advanced Combustion Concepts for Low-Emission Ammonia Operation in Large-Bore Engines **Massimiliano Zanatta**, Federico Millo, Andrea Piano, **Politecnico di Torino**; Francesco C. Pesce, **Francesco Accurso**, Alberto Vassallo, **Dumarey Automotive Italia S.p.A.** **Paper # 2026-37-0048**	Scaling and validation of a PEMFC recirculation ejector from 5 kW to 80 kW **Christian Antetomaso**, Giovanni Cecere, Adrian Irimescu, Simona Merola, **CNR Stems**	A compact bidirectional pump architecture for water injection (WI) systems in advanced combustion engines **Marco Gubitosa**, **Marco Arsuffi**, **Industrie Saleri Italo S.p.A.**
14.20-14.40	A Study of the Ammonia Pre-Chamber Combustion System Combined with Fuel Reforming **Tatsuya Kuboyama**, **Chiba University**	Development of a 0D – 1D numerical model for the thermal management of a heavy – duty PEMFC **Giovanni Cecere**, Christian Antetomaso, Adrian Irimescu, Simona Merola, **CNR Stems** **Paper # 2026-37-0006**	Recent advances on research into Wankel rotary engines **Giovanni Vorraro**, **James Turner**, **KAUST**
14.40-15.00	Evaluation of Flamelet-Based Combustion Models for Hydrogen-Ammonia Spark-Ignition Engines **Riccardo Sola**, Mirko Baratta, Daniela Misul, **Politecnico di Torino**; Christine Rousselle, Pierre Brequigny, **Universite D'Orleans**; Olivier Colin, **IFP Energies Nouvelles** **Paper # 2026-37-0027**	An Along-the-Channel Pseudo-2D Approach for Spatially Resolved PEM Fuel Cell Dynamics Björn Ringeisen, Michael Günthner, Pascal Kargl, **RPTU Kaiserslautern-Landau** **Paper # 2026-37-0010**	An open-source framework to Automate Virtual Optimization of Internal Combustion Engine Calibration Maps through shape-based strategy **Gianvito Romano**, Filippo Aglietti, Tonio Spedicato, Ivan Flaminio Cozza, Andrea Capra, **Dumarey Automotive Italia S.p.A.** **Paper # 2026-37-0001**
15.00-15.20	Impact of Compression Ratio and Stroke on Hydrogen Requirement for Emission Optimized Operation of an Ammonia-Fuelled Spark-Ignition Engine **Neeraj Kumar Yadav**, Ajith Ambalakatte, Sikai Geng, Gagan Gopakumar Suja, Alexander Birch, Alasdair Cairns, **University of Nottingham**; Anthony Harrington, Jonathan Hall, **Mahle Powertrain Ltd.** **Paper # 2026-37-0030**	Investigating the potential of two individually controlled injectors per rotor for a DI hydrogen Wankel engine **Jonas Endres**, Christian Beidl, Tim Herold, Philipp Lavall, Marvin Schmidt, **Technische Universität Darmstadt**; Silas Hofmann, Jonas Kahl, **HTM Hydro Technology Motors** **Paper # 2026-37-0008**	A predictive methodology for 3D-CFD simulation of piston thermal field in sustainable high-performance engines **Andrea Duni**, Fabio Berni, Sebastiano Breda, Stefano Fontanesi, Filippo Gilioli, **Università di Modena e Reggio Emilia** **Paper # 2026-37-0002**
15.20-15.40	Nitrogen-based emissions from Ammonia Combustion in a Heavy-Duty Spark Ignition Engine Juan Trujillo Grisales, Stefany Saenz Prado, Luis F. Alvarez, Vyacheslav Akkerman, Cosmin E. Dumitrescu, **West Virginia University** **Paper # 2026-37-0032**	Effect of Ar mass ratio and mixture equivalence ratio on the integrated hydrogen argon power cycle Iman Chitsaz, Sajid Ahammed, Alireza Kakoee PhD, Maciej Mikulski, **University of Vaasa**; Mohammad Mahdi Salahi, Amin Andwari, **University of Oulu**; Zeeshan Ahmad, Jari Hyvonen, **Wartsila** **Paper # 206-37-0012**	Methane Emission Mitigation in Large-Bore Dual-Fuel Engines via Negative Valve Overlap Diesel Injection: Thermochemical Pathways and Reactivity Control Amir Soleimani, Mikael Nurmi, Jeyoung Kim, Maciej Mikulski, **University of Vaasa**; Jacek Hunicz, **Lublin University of Technology**; Jari Hyvonen, **Wärtsilä Finland Oy**

Coffee Break @Exhibition Area

Tuesday - June 9, 2026 (afternoon)

Parallel Sessions

	ROOM 1	ROOM 2	ROOM 3
	Aero & Thermal Management	**Hydrogen for Sustainable Mobility: H2ICE&H2FC**	**Alternative Fuels and E-Fuels**
16.10-16.30	Benchmarking R-474A for Next-Generation BEV Thermal Systems: A Comparative Efficiency Analysis via Digital Twin Simulation **Christian Macrì**, Álvaro De León, Felix Flohr, **Daikin Chemical Europe GmbH**	Investigation of the effects of combustion chamber cooling on combustion characteristics, in a single-cylinder, hydrogen direct injection, spark ignition engine **Alessandro Brusa**, Nicolo Cavina, Federico Omicini, **Università di Bologna**; Sam Akehurst, Stefania Esposito, Reza Islam, Aidan King, **University of Bath**; Henry Mudge, Karl Giles, **IAAPS Ltd**; Peter Jones, Harsh Goyal, **Jaguar Land Rover**	Investigation of a Robust Fuel Detection Methodology for Renewable Diesel Fuels **Miguel Calixto de Sousa**, **DENSO Automotive Deutschland GmbH**
16.30-16.50	BEV Thermal-Management Architectures - Global Benchmarking: Integration Trends, Operating Modes, and Efficiency Levers **Balzarino Verratti**, Giuseppe D'Aurizio, Marco Rabino, Elena Pulieri, Daniele Ciola, Leonardo Tinacci, Claudio Di Pierro, **Dumarey Automotive Italia SpA**	Effects of Engine Geometries on the Combustion Characteristics of a Heavy-Duty Hydrogen Spark-Ignition Engine Xinlei Liu, Rafael Menaca, James W.G. Turner, **Hong G. Im**, **King Abdullah University of Science & Tech.**; Emre Cenker, Yasser A. Qahtani, **Saudi Aramco**; Yuanjiang Pei, Mickael Silva, **Aramco Americas**	Development and Experimental Validation of a 1D Model for Performance and Emissions Analysis of Oxygenated Fuel Blends in a CI Engine **M Wajahat Rasool Arain**, Emmanuele Frasci, Ivan Arsie, **Università degli Studi di Napoli Parthenope**; Antonio Foglia, **Università di Salerno**; Oldrich Vitek, **Czech Technical University**; Cesare Pianese, **Università di Salerno** **Paper # 2026-37-0028**
16.50-17.10	Experimental assessment of a heat pump system for BEV using R290 refrigerant **Lorenzo Pelillo**, Mauro Casella, Luca Dello Preite, Fabrizio Mattiello, Christopher Strano, **Centro Ricerche Fiat Scpa**	Potential of Direct Water Injection for NO_x mitigation in Hydrogen Engines: A coupled Experimental and CFD study **Sebastiano Breda**, Stefano Fontanesi, Fabio Berni, **Università di Modena e Reggio Emilia**; Gabriele Di Blasio, Roberto Ianniello, **CNR Stems**; Luca Romani, Giovanni Ferrara, **Università degli Studi di Firenze**	Experimental investigation on cold start and warm-up phases for an ethanol fueled SI engine **Luigi Falbo**, Biagio Falbo, Diego Perrone, Teresa Castiglione, **DIMEG Università della Calabria** **Paper # 2026-37-0031**
17.10-17.30	Analysis of a sorption energy storage system for cabin air heating and dehumidification in electric vehicles Rebecca Verlingieri, Luca Marocco, Gabriele Scudeler, **Politecnico di Milano**; Luigi Calabrese, **Università di Messina**; Angelo Freni, **CNR ICCOM**; Stefano De Antonellis, **Politecnico di Milano, CNR ICCOM** **Paper # 2026-37-0034**	Combined EGR-Air Dilution Effects on Performance, Combustion and Emissions of a Single-Cylinder Spark-Ignition Direct-Injection Hydrogen Engine Sam Akehurst, Stefania Esposito, Aidan King, Reza Islam, Simon Pickering, Hao Yuan, **University of Bath**; Henry Mudge, Karl Giles, **IAAPS Ltd.**; Harsh Goyal, Peter Jones, **Jaguar Land Rover** **Paper # 2026-37-0009**	Performance and Combustion Characteristics of Coryton SUSTAIN Classic Super 80 Carbon-Neutral Fuel Versus E95 in a 1980s Fiat 500 Engine **Marco Tarchiani**, Sandro Raspanti, Giovanni Ferrara, Luca Romani, **Università degli Studi di Firenze**; Federico Fossati, **Liceo Scientifico Antonio Gramsci**; Alberto Baroni, **Baker Hughes** **Paper # 2026-37-0033**
Plenary Keynote @Auditorium			
17.30	***Keynote Session to be revealed soon…stay tuned!***		
18.00	**Final Remarks**		

Social Program

Networking cocktail and exhibition tour at the Pista 500 and Pinacoteca Agnelli

C2 reduction for Transportation Systems Conference

9-10 JUNE 2026

ANFIA ATA SAE TORINO An SAE International Section

Wednesday - June 10, 2026 (morning)

08.00 — Registration

Plenary Keynote @Auditorium

08.30-10.00 — ***Keynote Session to be revealed soon…stay tuned!***

Coffee Break @Exhibition Area

Parallel Sessions

	ROOM 1	ROOM 2	ROOM 3
	Hydrogen for Sustainable Mobility: H2ICE&H2FC	**Hybridization & Electrification**	**Legislation Framework & Future Scenarios**
10.30-10.50	Enhanced Predictive Combustion Modeling of a Hydrogen-Fueled PFI Engine via Modified Premixed Turbulent Flame Speed Correlation **Gerardo Stanzione**, Federico Millo, Andrea Piano, **Politecnico di Torino**; Giovanni Vichi, Niccolo Fiorini, **Yanmar R&D Europe**; Luca Romani, Giovanni Ferrara, **Università degli Studi di Firenze**	Energy Management Strategy for Fuel Cell Hybrid Electric Vehicles: the mutual impact of powertrain configuration and control design Lorenzo Bartolucci, **Edoardo Cennamo**, Stefano Cordiner, Marco Donnini, Vincenzo Mulone, **Università degli studi di Roma Tor Vergata**	Characterisation and Modelling of Port Vehicle Fleet Carbon Emissions Daisy Thomas, **3DATX Corporation**
10.50-11.10	A new correlation to model hydrogen thermo-diffusive instabilities and its effect on flame development in Internal Combustion Engines **Manuel Madia**, Sebastiano Breda, Fabio Berni, Stefano Fontanesi, **Università di Modena e Reggio Emilia**	Potential of ORC-Based Waste Heat Recovery in Conventional and Hybrid Heavy-Duty Powertrains **Teresa Donateo**, **Università del Salento**; Pietropaolo Morrone, **Università della Calabria** **Paper # 2026-37-0018**	Impact of Emissions Trading Systems on cost competitiveness and sustainability of alternative energy vectors for Heavy-Duty Vehicles **Daniele Brenno Fausti**, **Politecnico di Milano**
11.10-11.30	Integrated 1D/3D-CFD Modelling for Optimization of a Heavy-Duty Hydrogen Direct-Injection Engine **Andrea Bianco**, Paolo Bigliani, Emanuele Servetto, Fabrizio Gullino, **GammaTech Engineering S.r.l.**; Hakki Kim, Yongwook Yu, Hyuckmo Kwon, Youngchul Yang, Joon Kyu Lee, **Hyundai Motor Group**	Development and validation of a one-dimensional model for an opposed-piston free-piston engine generator with parametric analysis **Jiayu Wang**, Huihua Feng, Boru Jia, Peirong Ren, **Beijing Institute of Technology**; Nicola Morandi, Tommaso Lucchini, **Politecnico di Milano** **Paper # 2026-37-0021**	Self-Assessment Methodology for Competitiveness and Technology Leadership for Projects in the Road Transport 2ZERO Partnership **Ian Faye**, **Robert Bosch GmbH**
11.30-11.50	Predictive Modelling of NOx and Unburned Hydrogen Emissions in a Direct-Injection Hydrogen SI Engine Enrica Malfi, Massimiliano De Felice, **Università degli Studi di Napoli Federico II**; Stefania Esposito, Aleksandar Ribnishki, Aidan King, Sam Akehurst, **University of Bath**; Peter Jones, Harsh Goyal, **Jaguar Land Rover** **Paper # 2026-37-0007**	Thermal and Emission Characterization of Cylindrical Lithium-Ion Batteries under Thermal Abuse Using a Climate Chamber Diego Alejandro Penagos Vásquez, Javier Marco-Gimeno, Javier Monsalve-Serrano, **Antonio Garcia**, **Universitat Politecnica de Valencia**; Jose Perez Balastegui, **Fortescue Zero** **Paper # 2026 -37-0023**	Alcohol-Based Energy Carriers in Transportation: Status, Standards, and Outlook **Patrick Fitz**, Felix Fellner, Raphael Rößlhuemer, Martin Härtl, Malte Jaensch, **Technical University Of Munich** **Paper # 2026-37-0042**
11.50-12.10	Comparison of Detailed Chemistry and Flamelet-Based Models for Hydrogen Combustion in a Heavy-Duty PFI Engine **Alex Scopelliti**, Daniela Anna Misul, Mirko Baratta, **Politecnico di Torino**; Alessandro Gallo, Nicola Rapetto, Luca Vargiu, **FPT** **Paper # 2026-37-0014**	Low-Voltage Electric Vehicle with a Reconfigurable Powertrain Architecture for Urban and Extra-Urban Mobility **Eugenio Tramacere**, Stefano Favelli, **Andrea Tonoli, Politecnico di Torino**; Renato Galluzzi, **Tecnologico de Monterrey** **Paper # 2026 -37-0025**	Forecasting Electric Vehicle Fleet Growth and Energy Requirements in the UK **Bradley Burke**, Sunny Kateregga, Jose Ricardo Sodre, **Aston University** **Paper # 2026-37-0043**
12.10-12.30	A Holistic CFD Methodology for Full- and Multi-Cycle Simulation of Hydrogen Direct-Injection Internal Combustion Engines **Marcolucio Capecci**, Tommaso Lucchini, Lorenzo Sforza, **Politecnico di Milano**; Vincenzo Pezza, Sergio Tosi, **Dumarey Automotive Italia** **Paper # 2026-37-0016**	Development of a Load Responsive Mechanical Shifting Mechanism and Its Benefits for Battery Electric Vehicles Christof Napetschnig, Juergen Tromayer, David Stückler, **Graz University of Technology** **Paper # 2026-37-0026**	Automated Design Sustainability Evaluation Framework: a CAD-Integrated Tool for Real-Time Costing and LCA in Automotive Engineering **Maurizio Guadagno**, Leonardo Cecconi, Lorenzo Berzi, Massimo Delogu, **Università degli Studi di Firenze** **Paper # 2026-37-0044**

Lunch @Exhibition Area

Wednesday - June 10, 2026 (afternoon)

Parallel Sessions

	ROOM 1	ROOM 2	ROOM 3
	Legislation Framework & Future Scenarios	**New Powertrain Developments**	**AI & Machine Learning for Transport Decarbonization**
14.00-14.20	Critical Mass: The One Thing You Need to Know About Green Cars **Felix Leach**, **University of Oxford**	Key Technologies for an Innovative Combustion System for Compression Ignition Engines to Achieve Ultra-low Emissions Vincenzo Ottria, Giacomo Belgiorno, Francesco C. Pesce, Alberto Vassallo, Gianluca Francesconi, Sergio Tosi, Ivan cozza, **Dumarey Automotive Italia S.p.A.**; Gabriele Di Blasio, Michele Pipicelli, Roberto Ianniello, **CNR-STEMS**	From 1D CFD To Neural Network-Based Engine Model For Real-Time Simulation **Filippo Aglietti**, Gianvito Romano, Alessandro Cirillo, Tonio Spedicato, Andrea Capra, **Dumarey Automotive Italia S.p.A.**
14.20-14.40	Understanding car manufacturers' strategies to meet EU CO2 emissions targets **Jamil Nur**, Dimitrios Komnos, Alessandro Tansini, Georgios Fontaras, **European Commission - JRC**	Investigation into Cooling Loss Reduction Associated with Changes in In-Cylinder Flame Distribution by Offset Orifice Nozzle **Tomoyuki Mukayama**, Shigeru Nomoto, Noboru Uchida, **New A.C.E. Institute Co., Ltd.**; Yoshiteru Enomoto, **Tokyo City University**; Naotaka Mikami, **INDEX Eng. Co., Ltd.** **Paper # 2026-37-0003**	Rapid Fuel Distribution Prediction in RCCI Marine Engines Using CFD-Informed, Active Learning Framework **Jamshid Moradi**, Mahdi Salahi,Amin Andwari, Juho Konno, **University of Oulu**; Shadab Heidarabadi, Maciej Mikulski, **University of Vaasa**; Christer Wik, **Wartsila Finland Oy** **Paper # 2026-37-0017**
14.40-15.00	Decoding EU Heavy-Duty Fleet Dynamics: Regulation-Driven Optimization and Pathways to Decarbonization **Nicolas Deschle**, Nikiforos Zacharof, Evangelos Bitsanis, Georgios Fontaras, Guillaume Alix, **JRC**; Markos A. Ktistakis, **Aristotle University of Thessaloniki**	Development of a Diesel Combustion System for Next-Generation Heavy-Duty Engines Using a Synergistic Analysis-and-Testing Approach Giacomo Belgiorno, Maria Pia Centini, Vincenzo Pezza, Ivan F. Cozza, Francesco C. Pesce, Alberto Vassallo, **Dumarey Automotive Italia S.p.A.**; Giovanni Colombo, Alessandro Gallo, Mohsen Mirzaeian, Jonathan Borg, **FPT Industrial - IVECO Group** **Paper # 2026-37-0004**	Digital Twins for Electric VehiclePowertrains Fabio Viotto, Piervincenzo Catera, **Dana Performance Transmissions Srl;** Aldo Sorniotti, Alessandro Vigliani, Matteo Depalo, **Politecnico di Torino**

Parallel Sessions

	ROOM 1	ROOM 2	ROOM 3
	From Well to Wheels to Life Cycle Assessment	**Alternative Fuels and E-Fuels**	**Lightweighting**
15.10-15.30	Bridging Regulatory and Real-World CO_2 Emissions in Plug-in Hybrids: The Role of Alternative Fuels **Benedetta Peiretti Paradisi**, Mario milite, Luciano Rolando, Matteo Prussi, Federico Millo, David Chiaramonti, Linda Costantini, **Politecnico di Torino**	A new piston bowl to increase the efficiency of natural gas HD engines **Stefano Golini**, Nicola Rapetto, Sergio Giordana, **FPT Industrial SpA**; Luca Vargiu, **FPT Motorenforschung AG**; Pierpaolo Napolitano, Davide Di Domenico, **CNR STEMS**	Design-Driven Sustainability of Automotive Components: A Comparative LCA from Conventional to Metal and Composite Additive Manufacturing **Enrico Dalpadulo**, Mario Russo, Francesco Leali, **Università di Modena e Reggio Emilia**; Raphaëlle Apté MD, **Dassault Systèmes** **Paper # 2026-37-0037**
15.30-15.50	Environmental impacts and mitigation measures for brake emissions from road transport in Europe assessed with fleet LCA **Zissis Samaras**, Sokratis Mamarikas, Traianos Karageorgiou, Nikoletta Batsalia, **EMISIA SA**	Model-in-the-Loop optimization of cylinder balancing control strategies for stationary gas engines based on phenomenological predictive combustion modelling **Guglielmo Rossi**, Andrea Piano, Federico Millo, **Politecnico di Torino**; Irene Gallici, **Wärtsilä Italia S.p.A.**; Aleksanteri Heikkinen, **Wärtsilä Finland Oy**; Giuseppe Lo Iacono, Francesco Luciano Lassandro, **Wärtsilä Italia S.p.A.**	Improvement of rCF behaviour through the introduction of NF **Dawid Hnatyk**, Andreas Chrysanthou, Tom De Vuyst, Sikiru Ismail, **University of Hertfordshire** **Paper # 2026-37-0039**
15.50-16.10	How to quantify the in-use energy consumption of Plug-in Hybrid Electric Vehicles for Life Cycle Assessment? Challenges and opportunities from On-Board Fuel and energy Consumption Monitoring **Alessandro Tansini**, Giuseppe Di Pierro, Jaime Suarez, Georgios Fontaras, **European Commission - JRC**; Jelica Pavlovic, **European Dynamics S.A.**	On natural gas combustion split into diesel like architecture of a compression ignition engine retrofitted for spark ignition operation **Adrian F. Clenci**, Victor Iorga-Siman, **Politehnica Bucuresti**; Robert Popa, Julien Berquez, **Catalin Magheru**, **Horse Powertrain**; Plamen Punov, **Technical University of Sofia**; Rodica Niculescu, **University of Pitesti** **Paper # 2026-37-0029**	Automated Structural Optimization of a Formula SAE Chassis using a Customizable MATLAB-based FEM Tool **Andrea Candela**, Marco Gadola, Daniel Chindamo, Paolo Magri, Giulia Sandrini, **Università di Brescia** **Paper # 2026-37-0038**

Coffee Break @Exhibition Area

Parallel Sessions			
	ROOM 1	**ROOM 2**	**ROOM 3**
	Hydrogen for Sustainable Mobility: H2ICE&H2FC	**From Well to Wheels to Life Cycle Assessment**	**Aero & Thermal Management**
16.30-16.50	Conversion of a 15kW diesel engine to operate in dual fuel mode with hydrogen and diesel **Ezio Mancaruso**, **STEMS - CNR**; Salvatore Rossetti, **UNINA & STEMS - CNR**	Green NCAP 2025: Overview and Practical Application of an LCA-Based Vehicle Testing Protocol **Carlo Ducrot**, **CSI SpA**	A Regulatory-Compliant holistic approach for BEV Range Extension **Cristiano Massano**, Vito Carlone PhD, **DENSO Thermal Systems SpA**; Julian Niedermayer, Kimia Mesghali, **DENSO Automotive Deutschland GmbH**
16.50-17.10	3D-CFD low-cost modelling of hydrogen Injection employing Lagrangian Particle Tracking approach **Andrea Bianco**, **GammaTech Engineering**; **Marco Orlando**, Andrea Piano, Federico Millo, **Politecnico di Torino**	Machine Learning (ML) applied to Life Cycle Assessment (LCA) for uncertainties evaluation in the transport sector **Benedetta Peiretti Paradisi**, Matteo Prussi, Lorenzo Langone, **Politecnico di Torino**	Advancements in under-hood virtual thermal verification **Sofia Ebermark**, **Mirko Bovo**, **Aurobay**
17.10-17.30	CFD Modelling of an Asymmetric Hydrogen Injector Cap for Direct Injection Applications: Design Impact on Jets Structure and Momentum Flux **Nicolo Pavan,** Sebastiano Breda, Andrea Duni, Stefano Fontanesi, **Universitàdi Modena e Reggio Emilia**; Manuel Martino, **STSE SRL**; Lucio Postrioti, **Università degli Studi di Perugia** **Paper # 2026-37-0011**	Life-Cycle Assessment of a Retrofitted Methane-Fueled Engine for Marine Power Generation Set **Gianfranco Malagrinò**, Stefano Zucca, Michele Pensato, Valentina Gorietti, **Dumarey Automotive Italia S.p.A**; Giovanni Meccariello, Livia Della Ragione, **CNR Stems**; Emmanuele Lo Re, Angelo Giardino, **Isotta Fraschini Motori S.p.A**	A Design-Oriented Experimental Method for Evaporative Cooling under Automotive Boundary Conditions **Philip Döbler**, Michael Henzler, Michael Auerbach, **UAS Esslingen**
17.30-17.50	Dynamic Transient Control of Hydrogen Direct-Injection SI Engines: Effects of Ramp Timing on Engine Performance and Abnormal Combustion Mohamed Mohamed, **Zayne Zaman**, Hua Zhao, Xinyan Wang, **Brunel University of London**	A Parametric Cradle-to-Grave Life Cycle Assessment Tool for Comparative Evaluation of Passenger Car CO_2 Emissions Chiara Gastaldi, **Luca Cibrario**, **Politecnico di Torino** **Paper # 2026-37-0040**	Engine thermal management strategies for emissions reduction during real driving tests Davide Di Battista, **Marco Di Bartolomeo**, Roberto Cipollone, **Università degli Studi dell'Aquila** **Paper # 2026-37-0036**
Plenary Keynote @Auditorium			
17.50	***Keynote Session to be revealed soon…stay tuned!***		
18.15	**Closing Remarks @Auditorium**		

Thursday - June 11, 2026 - Morning

Technical visits

Dana Graziano (transfer included)

Stellantis battery Technology Center (transfer included)

Dumarey & Politecnico Labs