



WEDNESDAY, SEPTEMBER 26th, 2018

08:30	Registration	
09:15	Introductory Remarks Kevin Laboe, <i>FCA Group, Chair Engine ORC Consortium</i>	
09:25	Welcome and introduction Richard Tilagone, <i>Director of the Powertrain and Vehicle Division, IFPEN</i>	
09:40	Keynote Presentation Marc Lejeune, <i>Research Director Renault Trucks</i> Future Technologies for Commercial Vehicles	
10:30	Coffee break	
	Technical Session ONE: WHR Applications	Technical Session TWO: Systems Modelling
11:00	<p><i>Experimental study of a compact ORC for low grade heat conversion to electricity</i></p> <p>Quentin Blondel <i>CEA</i></p>	<p><i>Modelling and Design of a R1233ZD(e) Multiexpander ORC prototype for WHR application in Marine Vessels</i></p> <p>Xabier Peña <i>Tecnalia</i></p>
11:30	<p><i>High-grade Waste Heat Recovery (WHR) from Residential Scale Gensets</i></p> <p>Davide Ziviani <i>Purdue University</i></p>	<p><i>Model-based sizing of the components for an automotive ORC recovery unit</i></p> <p>Davide Di Battista <i>University of L'Aquila</i></p>
12:00	<p><i>ORC turbo-pump for waste heat recovery in the coolant of automotive engines: design and performance evaluation</i></p> <p>Gael Leveque <i>Enogia</i></p>	<p><i>Assessment of an Organic Rankine Cycle (ORC) based Waste heat recovery (WHR) system by simulations and tests</i></p> <p>Thomas Reiche <i>Volvo</i></p>

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12:30	Lunch	
	Technical Session ONE: WHR Applications	Technical Session ONE: WHR Applications
14:00	<p><i>Experimental Investigation of Entropea's 20 kW Commercial Unit For High Temperature Applications</i></p> <p>Lorenzo Tocci <i>Entropea Labs</i></p>	<p><i>Exploratory Study of the Combined Cycle Powertrain Concept</i></p> <p>Karthik Subramani <i>Delft University of Technology</i></p>
14:30	<p><i>Heat recovery with Organic Rankine Cycle in Engine Coolant for HD Truck Applications</i></p> <p>Pascal Smague <i>IFPEN</i></p>	<p><i>Grid Adaptive Harmonic Adsorption Recuperative Power and Cooling System</i></p> <p>Pete McGrail <i>Pacific Northwest National Laboratory</i></p>
15:00	<p><i>Combined waste heat recovery and air conditioning systems for increased system efficiency</i></p> <p>Richard Merrett <i>Mentor, A Siemens Business</i></p>	<p><i>Experimental investigation of an innovative architecture to valorize the waste heat of a passenger car through the use of a Rankine cycle</i></p> <p>Olivier Dumont <i>University of Liège</i></p>
15:30	Coffee break	
16:00	Panel Discussion – chaired by Oliver Dingel, IAV Technical Drivers to ORC market acceptance in the current HD CO2 Legislation Environment	
16.45	Wrap up and close Kevin Laboe, <i>FCA Group, Chair Engine ORC Consortium</i>	
17:00	Welcome reception and networking, <i>Exhibition Area, IFPEN</i>	

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THURSDAY, SEPTEMBER 27th, 2018

09:00	<p>Welcome back and recap Kevin Laboe, <i>FCA Group, Chair Engine ORC Consortium</i></p>	
09:15	<p>KEYNOTE PRESENTATION 2 Roland Gravel, <i>US Department of Energy</i> SuperTruck Waste Heat Recovery, Then and Now</p>	
	<p>Technical Session ONE: WHR Applications</p>	<p>Technical Session THREE: Expander Technologies</p>
10:00	<p><i>Operational and technological limits for an on-board ORC power unit fed by ICE exhaust gases</i></p> <p>Roberto Cipollone <i>University of L'Aquila</i></p>	<p><i>Free piston expander for low power ORC and Rankine</i></p> <p>Danel Quentin <i>Université de Liège</i></p>
10:30	<p>Coffee</p>	
11:00	<p><i>Selecting the optimum Organic Rankine Cycle Waste Heat Recovery System for on-highway truck market</i></p> <p>Roman Carballido <i>BorgWarner, Inc</i></p>	<p><i>Multiphysics Dynamic Model of a free piston gas expander for Organic Rankine Cycle Based Waste Heat Recovery Application</i></p> <p>Muhammad Usman <i>Brunel University, London</i></p>
	<p>Technical Session THREE: Expander Technologies</p>	<p>Technical Session FOUR: Working Fluids</p>
11:30	<p><i>Experimental improvement of efficiency on scroll expander and packaging improvement for the vehicle</i></p> <p>Hirofumi Wada <i>Sanden</i></p>	<p><i>Theoretical and experimental analysis of HCFO-1233zd(e) and HFO-1336mzz(z) as low-GWP alternatives to HFC-245fa in small-scale and low-temperature ORC</i></p> <p>Marta Amat Albuixech <i>ISTENER Research Group, Universitat Jaume I</i></p>
12:00	<p><i>Comparison of two heavy duty engines, two volumetric machines and related impacts on Rankine system performance</i></p> <p>Nicolas Espinosa <i>Volvo</i></p>	<p><i>Natural Working Fluid Comparison of Transcritical Rankine Cycle for Multi-Waste Heat Recovery of Truck Diesel Engines</i></p> <p>Peng Liu <i>Tianjin University, China</i></p>
12:30	<p>Lunch</p>	

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	Technical Session THREE: Expander Technologies	Technical Session FOUR: Working Fluids
14:00	<i>Scroll Expander Development for Exhaust Heat Recovery on a Heavy Duty Truck</i> Rémi Daccord <i>EXOES</i>	<i>Working fluid charge influence on a mini-CHP biomass fueled, ORC based, performance</i> Márcio Santos <i>Universidade de Coimbra</i>
14:30	<i>Robust Optimization of a Supersonic ORC Turbine Cascade: a Quantile-based Approach</i> Nassim Razaaly <i>Inria</i>	<i>Lubricating oil entrainment in an ORC system and its impact on performance rating</i> Rémi Dickes <i>University of Liège</i>
15:00	Coffee break	
	Technical Session THREE: Expander Technologies	Technical Session FIVE: Heat Exchanger Technologies
15:30	<i>Radial-Outflow Turbine Validation for ORC in a Wide Operating Range</i> Dr Vasileios Pastrokakis <i>SoftInWay</i>	<i>Supercritical heat transfer characteristics occurring in a heat exchanger operating under organic rankine cycle conditions</i> Marija Lazova <i>Ghent University</i>
16:00	Panel Discussion – chaired by Paul Ansell, BorgWarner System requirement impacts on ORC Working Fluid selection for mass markets	
16:45	Wrap Up and close Kevin Laboe, FCA Group, Chair Engine ORC Consortium	
19:30	Conference dinner, <i>Le Caro de Lyon, downtown Lyon</i>	

FRIDAY, SEPTEMBER 28th, 2018

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09:30	Welcome back and recap Kevin Laboe, <i>FCA Group, Chair, Engine ORC Consortium</i>	
09:45	KEYNOTE PRESENTATION 3 Arthur Leroux, Founder & President, <i>Enogia</i>	
	Technical Session FIVE: Heat Exchanger Technologies	
10:30	<i>Experimental investigation of an Organic Rankine Cycle equipped with an eccentric rotary expander and fluids R365mfc and R245fa</i> Ebrahim Aeni <i>Institute of Thermodynamics, Leibniz University of Hannover</i>	<i>Multiobjective optimization of plate heat exchanger using NSGA_II for zeotropic mixture of different fluids</i> Parth Prajapati <i>Pandit Deendayal Petroleum University</i>
11:00	<i>An algorithm for calculation of the Organic Rankine Cycle with minichannel heat exchangers with low Reynolds number flows</i> Witold Rybiński <i>Polish Academy of Sciences</i>	<i>Dual-purpose heat-exchanger for direct vaporization and condenser water post-heating in ORC based micro-CHP systems for residential applications</i> João Silva Pereira <i>University of Coimbra</i>
11.30	Closing Remarks Kevin Laboe, <i>FCA Group, Chair Engine ORC Consortium</i>	
12:00	Lunch and networking	

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