



WEDNESDAY, SEPTEMBER 14th, 2016

08:30	Registration	
09:15	Introductory Remarks Kevin Laboe, <i>FCA Group</i>	
09:25	Welcome Prof Mark Price, <i>Queen's University Belfast</i>	
09:35	An introduction to the Centre for Advanced Sustainable Energy (CASE) and its role in industrial led innovation Sam McCloskey, <i>CASE</i>	
09:50	Keynote Presentation Prof Roy Douglas, <i>Queen's University Belfast</i> and guest speaker, <i>Wrightbus</i>	
	Technical Session ONE: WHR Applications ISDELL COURTYARD	Technical Session TWO: Systems Modelling LECTURE ROOM ONE
10:30	<i>Heat Recovery from Exhaust of an ICE by an ORC</i> Prof Roberto Cipollone <i>University of L'Aquila</i>	<i>Transient Model Of Dual Loop Waste Heat Recovery System</i> Jahedul Islam Chowdhury <i>Queen's University Belfast</i>
11:00	<i>Small-Scale ORC for Waste Energy Recovery from a High Efficiency 1kW ICE-SACI Generator System</i> Davide Ziviani <i>Ghent University/Purdue Universit</i>	<i>First and Second Law Analysis Approach for the Study of Internal Combustion Engine Waste Heat Recovery with Organic Rankine Cycles</i> Simone Lion <i>Ricardo Deutschalnd GmbH, University of Trieste</i>

11:30	<p><i>Novel Application for WHR on Stationary Engines</i></p> <p>Lionel Macey ThermTech Ltd</p>	<p><i>Beyond the Thermodynamic Analysis in the ORC Fluid Selection Process for Small Scale Applications</i></p> <p>Lorenzo Tocci Entropea Labs</p>
12:00	<p><i>Optimization of an Invertible HTHP/ORC System for Cooling Water Waste Heat Recovery from Internal Combustion Engines</i></p> <p>Bernardo Peris Pérez University Jaume I</p>	<p><i>Dynamic Modeling of Waste Heat Recovery Organic Rankine Cycle Systems in the Amesim Platform</i></p> <p>Ludovic Guillaume University of Liege</p>
12:30	<p><i>Waste Heat Recovery Technologies: A broader assessment and a coherent package to meet the upcoming 2025 CAFE standard - Business and technology perspective</i></p> <p>Sudhi Uppuluri CSEG</p>	<p><i>Meeting the Challenge of Organic Rankine Cycle Based Waste Heat Recovery Simulation</i></p> <p>John Murray Mentor Graphics</p>
13:00	<p>Lunch</p>	
	<p>Technical Session ONE: WHR Applications ISDELL COURTYARD</p>	<p>Technical Session TWO: Systems Modelling LECTURE ROOM ONE</p>
14:00	<p><i>Organic Rankine Cycle for Marine Applications using a New Refrigerant</i></p> <p>Léa Verger Enertime</p>	<p><i>Lessons Learned from Numerical Modelling of Multiple Heat Source Organic Rankine Cycle for Engine Applications</i></p> <p>Dr Mattia De Rosa Queen's University Belfast</p>
14:30	<p><i>A Tale of Two Circuits: ORCs for Electrical Generators or for Fossil Fuelled Vehicles</i></p> <p>Thomas Cromie AgriAD Power</p>	<p><i>Thermo-Economic Optimization of Organic Rankine Cycle Systems for Waste Heat Recovery From Exhaust and Recirculated Gases of Heavy Duty Trucks</i></p> <p>Ludovic Guillaume University of Liege</p>

<p>15:00</p>	<p><i>Organic Rankine Cycles: Challenges in Light Duty Passenger Vehicle Implementation</i></p> <p>Eric Lott Vetri Chandrasekaran FCA Group</p>	<p><i>Exemplary Thermoeconomic Assessment of a Small ORC Application Using Dynamic Simulation Models</i></p> <p>Adrian Rettig Lucerne University of Applied Sciences and Arts</p>
<p>15:30</p>	<p><i>Industrial Waste Heat for Electricity and District Heat Production: Demonstration Plant in a Steel Mill based on ORC Technology for using Electric Arc Furnace Fumes</i></p> <p>Miguel Ramirez Tecnalia Research and Innovation</p>	
<p>16:00</p>	<p>Panel Discussion on Controls chaired by Dr Ingo Friedrich, IAV</p> <p>PANEL: Dr Vincent Grelet, Dr Emanuel Feru and Dr Ingo Friedrich</p>	
<p>17:15</p>	<p>Wrap up and close Kevin Laboe, FCA Group</p>	
<p>19:00</p>	<p>Networking – Drinks in Belfast City Centre (rendez vous at the Crown Bar, Great Victoria St).</p>	

THURSDAY, SEPTEMBER 15th, 2016

09:15	Welcome back and recap Kevin Laboe, <i>FCA Group</i>	
09:20	Piston expanders in ORC applications Dr Christos Markides, <i>Imperial College London</i>	
	Technical Session THREE: Testing ISDELL COURTYARD	
09:50	<i>Experimental Investigations of the Valorization of the Exhaust Waste Heat of a Gasoline Engine Based on a Rankine Cycle</i> Oliver Dumont <i>University of Liege</i>	
10:20	<i>Testing of a Flexible ORC Thermal Architecture</i> Dr Angad Panesar <i>University of Brighton</i>	
10:50	<i>Developing a Test Bed for Small-Scale ORC Expanders in Waste-Heat Recovery Applications</i> Dr Martin White <i>Imperial College London</i>	
11:20	Coffee	
	Technical Session FOUR: Controls ISDELL COURTYARD	Technical Session FIVE: Working Fluids LECTURE ROOM ONE

11:40	<p><i>Supervisory Control of a Heavy-Duty Diesel Engine with an Electrified Waste Heat Recovery System</i></p> <p>Dr Ir Emanuel Feru TNO Automotive</p>	<p><i>Holistic Evaluation of ORC Working Fluids for Mobile Applications based on Screening of the Pubchem Database</i></p> <p>Dr Markus Preißinger University of Bayreuth</p>
12:10	<p><i>Control of ORC based Waste Heat Recovery Systems in Heavy-Duty Vehicles</i></p> <p>Shilp Dixit Flanders Make</p>	<p><i>Integrated Working-Fluid Design and ORC System Optimisation for Waste-Heat Recovery Using Camd and The Saft-γ Mie Equation Of State</i></p> <p>Dr Martin White Imperial College London</p>
12:50	Lunch	
13:50	<p><i>Preview Control of Engine Waste Heat Energy Conversion Systems</i></p> <p>Jianhua Zhang North China Electric Power University</p>	<p><i>A Cost-Based ORC Design Methodology Applied to a Heavy-Duty Vehicle</i></p> <p>Dr Ir Chris Criens Flanders Make</p>
14:20	<p><i>Improving Safe Operation of Organic Rankine Cycle Units in Automotive Applications using Model Predictive Control</i></p> <p>Andrés Hernández Ghent University</p>	<p><i>Pragmatic Coolant Heat Recovery and Organic Rankine for Road And Off-Road Vehicles</i></p> <p>Pierre Leduc IFPEN</p>
14:50	<p><i>Performance Assessment of Waste Heat Recovery Rankine Cycle Based System For Heavy Duty Trucks</i></p> <p>Dr Vincent Grelet ULg / UCBL1</p>	<p><i>Automotive Waste Heat Recovery: ORC Working Fluid Selection Driven by a Thermodynamic Approach</i></p> <p>Dr Kevin Morgan Queen's University Belfast</p>
15:10	Coffee	
15:30	<p>Panel Discussion on ORC Working Fluids</p> <p>PANEL: Dr Markus Preißinger, Dr Mark Sweeney, Prof Roy Douglas</p>	

16:40

Wrap Up and close

Kevin Laboe, *FCA Group*

19:00

Dinner and networking – *Conference dinner within Titanic Belfast*

FRIDAY, SEPTEMBER 16th, 2016

<p>09:15</p>	<p>Welcome back and recap Kevin Laboe, <i>FCA Group</i></p>	
<p>09:20</p>	<p>Financing Sustainable Energy Projects Chris Holmes, <i>Green Investment Bank</i></p>	
	<p>Technical Session SIX: Expander Technologies ISDELL COURTYARD</p>	<p>Technical Session SEVEN: Heat Exchanger Technologies LECTURE ROOM ONE</p>
<p>09:50</p>	<p><i>Integration and Optimization of a Piston Expander For Exhaust Heat Recovery on a Heavy Duty Truck</i> Rémi Daccord <i>EXOES - Rankine Technologies</i></p>	<p><i>Modular Evaporator for Rankine Cycle Waste Heat Recovery</i> Robert Cloudt <i>Bosal Emission Control Systems</i></p>
<p>10:20</p>	<p><i>Expander Technologies: New Expander Technologies and Market Needs</i> Sam Cockerill <i>Libertine FPE Ltd</i></p>	<p><i>Engine Waste Heat Recovery and Heat Exchanger Development</i> Dr. Dong Junqi <i>Zhejiang Yinlun Machinery</i></p>
<p>10:50</p>	<p><i>Aerodynamic Design and Stress Analysis of 100 kW Radial Inflow Turbine For Organic Rankine Cycle System</i> Dr Lei Chen <i>Heavy Engineering Research Association</i></p>	<p><i>Novel Heat Transfer Concepts Using R245fa in Organic Rankine Cycle with High Temperature Exhaust Gas</i> Dr. Haiam Abbas <i>Heavy Engineering Research Association</i></p>
<p>11:20</p>	<p>Coffee</p>	
<p>11:40</p>	<p><i>Design of a Radial Expander for Organic Rankine Cycle Waste Heat Recovery In High Efficiency Off-Highway Vehicles</i> Dr Apostolos Karvountzis-Kontakiotis <i>Brunel University London</i></p>	<p><i>A System-Level Approach to the Development of Optimized ORC Waste Heat Recovery Components For Heavy-Duty Truck</i> Paul Anschel <i>BorgWarner Inc.</i></p>

12.10	<p><i>Expansion Machine Impact on Heat Exchanger Design for Rankine Cycle Based Heat Recovery Systems for Heavy Duty Trucks Applications</i></p> <p>Dr Vincent Grelet Tenneco GmbH</p>	
12:40	<p>Closing Remarks Kevin Laboe, FCA Group</p>	
12:50	<p>Working lunch incorporating panel discussions on Economics and Expander Design</p> <p>ECONOMICS PANEL: <i>Kevin Laboe, Chris Holmes, Thomas Cromie</i></p> <p>EXPANDER DESIGN PANEL: <i>Dr Vincent Lemort, Dr Steve Glover, Rémi Daccord</i></p>	
13:45	<p>Coach departs for Banbridge (Tour of AgriAD)</p>	
16:45	<p>Return journey to Belfast</p>	
17.30	<p>Arrive Belfast City Centre</p>	