

Time	TUESDAY, 21.6.2016					
08:30- 09:15	<p align="center"><b>Keynote Lecture</b> (Emerald)</p> <p align="center"><b>Gan Zhong Xue:</b> <i>A novel approach to the optimization of complex energy systems by integration of information, internet, and entropy minimization, and its practical demonstrations</i></p>					
	EMERALD 1	EMERALD 2	MEDITERANEA 2	MEDITERANEA 1	ADRIA 1	ADRIA 2
	ORC	Energy and buildings	Energy in transportation	Power generation and CHP with fossil fuels and nuclear	System operation, control, diagnostics & prognosis	Environmental, social and sustainability issues associated with energy systems, industrial production, and transportation
	<p><b>Lorenzo Tocci:</b> <i>Thermodynamic and technical criteria for the optimal selection of the working fluid in a mini-ORC</i></p>	<p><b>Sanja Stevanovic:</b> <i>Search for the optimal shape of fixed external shading</i></p>	<p><b>Zlatina Dimitrova:</b> <i>Environomic design of hybrid electric vehicles</i></p>	<p><b>Jure Smrekar:</b> <i>NOx reduction and efficiency improvement of a 210 MWt coal-fired boiler co-firing biomass</i></p>	<p><b>Christophe Weber:</b> <i>Analysis of different fouling predictive models in a Heat Exchanger from experimental data</i></p>	<p><b>Giorgio Bonamini:</b> <i>Cost Allocation strategy for off grid system in rural area a case study on irrigation for rural agricultural lands in India</i></p>
09:25-10:45	<p><b>Rodolfo Taccani:</b> <i>A thermodynamic feasibility study of an Organic Rankine Cycle (ORC) for Heavy Duty Diesel Engine (HDDE) waste heat recovery in off-highway applications</i></p>	<p><b>Marc Baranski:</b> <i>An Algorithm for Stepwise Exergy-based Model Predictive Control of Building HVAC Supply Chains</i></p>	<p><b>Alice Bittante:</b> <i>Mixed integer optimization of an LNG supply chain in the Baltic Sea region</i></p>	<p><b>Turgay Koroglu:</b> <i>Performance Analysis of a Steam Power plant with district heating</i></p>	<p><b>Elfie Méchaussie:</b> <i>Methodology for streams definition and graphical representation in Total Site Analysis</i></p>	<p><b>Dominik Franjo Dominković:</b> <i>Benefits of Integrating Geographically Distributed District Heating Systems</i></p>
	<p><b>Alberto Benato:</b> <i>Recovering gas turbine high-temperature exhaust heat using organic Rankine cycle with mixture as working fluid</i></p>	<p><b>Camelia Stanciu:</b> <i>Analysis of climatic conditions effect on heating and cooling loads for a household</i></p>	<p><b>Matteo Piacentini:</b> <i>Thermodynamic analysis and system simulation of a "optimized cascade" LNG process</i></p>	<p><b>Liqiang Duan:</b> <i>Performance study of a 1000 MW coal-fired power plant integrated with the tower solar energy collector system</i></p>	<p><b>Paolo Sementa:</b> <i>The effect of Air Direct Injection on gasoline combustion in a small displacement Port Fuel Injection engine</i></p>	<p><b>Lydia Stougie:</b> <i>Environmental and exergetic sustainability assessment of power generation from biomass</i></p>
	<p><b>Steven Lecompt:</b> <i>Optimal part-load operation of an 11 kWe organic Rankine cycle for waste heat recovery</i></p>	<p><b>Valeria Strokova:</b> <i>The efficiency of using antifreezing agents in monolithic construction</i></p>	<p><b>Francesco Baldi:</b> <i>The application of process integration to the optimisation of cruise ship energy systems: a case study</i></p>	<p><b>Igor Kuštrin:</b> <i>Practical Approach to Optimization of Operation of Three Units in Power Plant Ljubljana</i></p>	<p><b>Mounir Asli:</b> <i>Numerical And Experimental Investigation Of Simultaneous Heat And Mass Transfer Within Bio-Based Material</i></p>	
10:45-11:05	Coffee Break					

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	EMERALD 1	EMERALD 2	MEDITERANEA 1	MEDITERANEA 2	ADRIA 1	ADRIA 2
11:05-12:45	<b>Refrigeration &amp; air conditioning; Heat pumps</b>	<b>Exergy based methods and thermo-economic analysis &amp; optimization</b>	<b>Energy Storage (thermal, electric, hydrogen, alternatives)</b>	<b>Energy policy &amp; planning</b>	<b>Chemical reactions &amp; reaction engineering</b>	<b>Biomass/biofuels; biorefinery concepts; waste-to-energy</b>
	<i>Jose Blancarte: Easy Advanced Control for energy efficiency applied to refrigeration</i>	<i>Enrico Sciubba: A critical reassessment of the Hess-Murray law</i>	<i>Ligang Wang: Time-dependent performance of an integrated solar-driven hydrogen generation device</i>	<i>Daniel Favrat: The information platform energy.scopec.ch on energy transition</i>	<i>Daniel Florez-Orrego: Exergy Modeling and Optimization of an Ammonia Production Plant</i>	<i>Matteo Morandin: Thermochemical recycling of plastics for production of chemical intermediates at a Swedish chemical complex site</i>
	<i>Alex Magdanz: Transient refrigeration cycles - simulation results</i>	<i>Enrico Sciubba: Exergy dynamics of a sphere undergoing a non-equilibrium concentration transient</i>	<i>Nathanael Beeker: An optimization algorithm for load-shifting of large sets of electric hot water tanks</i>	<i>Ville Olkkonen: Benefits of DSM measures in the future Finnish energy system</i>	<i>Mathias Penkuhn: Comparison of different ammonia synthesis loop configurations with the aid of advanced exergy analysis</i>	<i>Mohamed Magdeldin: Techno-economic assessment of hydrothermal liquefaction of lignocellulosic biomass, a Finnish case study</i>
	<i>Paride Gullo: Comparative Exergoeconomic Analysis of Various Transcritical R744 Commercial Refrigeration Systems</i>	<i>Hossein Khajeh Pour: Extended Exergoenvironmental Method as a Tool for Environmental Responsibility Accounting in Complex Energy Systems: Case Study of Assaluyeh</i>	<i>Adriano Sciacovelli: Adiabatic compressed air energy storage - a study on dynamic performance with sensible and latent thermal storage</i>	<i>Ana Cristina Ferreira: Energy Evaluation of Regions and Sub-Regions: Application to Portugal</i>	<i>Zornitza Kirova-Yordanova: Exergy-Based Estimation and Comparison of Urea and Ammonium Nitrate Production Efficiency and Environmental Impact</i>	<i>Assaad Zoughaib: Design of an Integrated Waste Wood to Heat and Hydrogen Conversion System: A Parametric Study</i>
	<i>Elie Keryakos: Modeling of Frost Growth and Evaporation of Refrigerant Blends in a Fin-and-Tube Heat Exchanger</i>	<i>Young Duk Lee: Exergetic and exergoeconomic evaluation of a SOFC/engine hybrid power generation system</i>	<i>Alexander Studniorz: Active PCM cold storage in off grid telecommunication base stations- potential assessment of primary energy savings</i>	<i>Jakob Kopsike: Power plant flexibility and the value of flexibility in power systems with high shares of variable renewables: a scenario outlook for Germany in 2035</i>	<i>Francesco Desogus: Design of a chemical reactor under microwave irradiation in resonance conditions</i>	<i>Danahe Marmolejo-Correa: Advances on Exergy Targeting of a Biofuel Plant</i>
		<i>Waldyr Gallo: Exergy assessment of the compression systems and its prime movers for a FPSO unit</i>	<i>Alberto Benato: Economic and energy analysis of a Thermal Energy Storage power system</i>	<i>Paula Ferreira: Electricity planning in Algeria</i>	<i>Marco A. Barranco-Jiménez: Thermo-economic optimization for an endoreversible chemical engine model</i>	<i>Kai Whiting: Bio-products: A new way to calculate fossil fuels in the cradle to cradle exergy assessment</i>
12:45-14:00	Lunch Break					

Time	TUESDAY, 21.6.2016				
14:00- 14:45	<p align="center"><b>Keynote Lecture</b> (Emerald)</p> <p align="center"><b>Christian Bahl:</b> <i>Trends And Frontiers In Solid State Energy Conversion - Materials And Technologies</i></p>				
	EMERALD 1	MEDITERANEA 1	EMERALD 2	ADRIA 1	ADRIA 2
	Refrigeration & air conditioning; Heat pumps	Energy and buildings	Power generation and CHP with RENEWABLES and WASTE	Energy policy & planning	Energy in transportation
14:55-16:15	<p><b>Go Sota:</b> <i>Performance Analysis of Magnetocaloric Heat Pump with Manganese-Based Compounds as a Magnetic Refrigerant</i></p>	<p><b>Gerardo Maria Mauro:</b> <i>Cost-optimal building thermal design in presence of multi-objective model predictive control for energy systems</i></p>	<p><b>Fabio Schiro:</b> <i>Steady-state and transient models of a cooling system for improving the performances of a PV field</i></p>	<p><b>Sylvain Quoilin:</b> <i>Techno-economic evaluation of self-consumption with PVbattery systems under different regulation schemes</i></p>	<p><b>William David Valencia:</b> <i>Measurement and comparison of deterioration index of two vehicle catalytic converters operated with ethanol-gasoline blends E10 and E20</i></p>
	<p><b>Shigeki Hirano:</b> <i>Three Dimensional Molding of Manganese Related Magneto Caloric Material by use of Selective Laser Sintering Machine</i></p>	<p><b>Gerardo Maria Mauro:</b> <i>From a hospital Reference Building to all represented healthcare facilities: A new approach to assess energy performance and retrofit potentials</i></p>	<p><b>David MacPhee:</b> <i>Experimental Analysis of a Flexible Bladed Horizontal Axis Wind Turbine</i></p>	<p><b>Nasibeh Pouransari:</b> <i>Energy strategy programs in Canton of Vaud of Switzerland: Specific actions</i></p>	<p><b>Mikhail Sorin:</b> <i>Thermodynamic and economic evaluation of heat transport and valorization systems</i></p>
	<p><b>Tian Lei:</b> <i>Optimization of Multi-layer Active Magnetic Regenerator towards Compact and Efficient Refrigeration</i></p>	<p><b>Akira Yoshida:</b> <i>Optimal Scheduling for Residential PEM Fuel Cell Cogeneration System under Uncertainty of PV Output and Energy Demand Using MISOCP Approach</i></p>	<p><b>Ana Cristina Ferreira:</b> <i>Thermal-economic design of a solar dish Stirling cogeneration system using a multi-objective optimization approach</i></p>	<p><b>Imran Shabbir:</b> <i>Energy efficiency improvement potentials of pulp and paper sector through energy benchmarking and cogeneration</i></p>	<p><b>Blaž Luin:</b> <i>Impact of Traffic Congestions on Energy Consumption and Emissions</i></p>
		<p><b>Johannes Fütterer:</b> <i>Simulation-based assessment of an easy-to-apply, automated control tuning method for typical PID control loops in building energy systems</i></p>	<p><b>Chantal Maatouk:</b> <i>Modeling and Parametric Analysis of a Waste –to-Energy Facilities performance for electrical energy production</i></p>	<p><b>Maike Hennen:</b> <i>How to Explore and Analyze the Decision Space in the Synthesis of Energy Supply Systems.</i></p>	
16:15-16:35	Coffee Break				

Time	TUESDAY, 21.6.2016					
	EMERALD 1	EMERALD 2	MEDITERANEA 2	MEDITERANEA 1	ADRIA 1	ADRIA 2
	Refrigeration & air conditioning; Heat pumps	Exergy based methods and thermo-economic analysis & optimization	Engines, furnaces & boilers, combustion/gasification	District energy systems & Smart Cities	Combined Energy & water interactions, use of water resources + Advanced fossil energy: clean coal, oil, natural gas, carbon dioxide capture, utilization & storage	Energy in transportation
16:35-17:55	Noé Demesa: Efficient waste heat recovery in a cryogenic distillation air separation plant using heat pumps	Alencar Migliavacca: Exergy analysis applied to the heating process of aviaries for broiler production in Brazil	Asfaw Beyene: The Impact of Air Quality and Site Selection on Gas Turbine Engine Performance	Aira Hast: The role of heat storages in facilitating the adaptation of DH systems to large amount of variable RES electricity	Ana M Blanco-Marigorta: A critical review of definitions for exergetic efficiency in reverse osmosis desalination plants.	Daniel Bender: Exergy-Based Analysis of Aircraft Environmental Control Systems – Integration into Model-Based Design and Potential for Aircraft System Evaluation
	Primož Poredoš: Thermo-Economic Assessment Based on Field Test Results for the Air-to-Water Heat Pump	Alejandro Abadías: Thermo-economic Analysis Of A Cement Production Plant	Silvia Scorza: Design And CFD Analysis Of An Odontoiatric Turbine	Natalia Kabalina: Energy and economic assessment of a polygeneration district heating and cooling system based on gasification of refuse derived fuels	Liqiang Duan: Optimization and comparison of CAL CO2 capture systems with recarbonation process integrated in coal-fired power plant	Jose Luis Osorio-Tejada: Sustainability assessment of alternative fuels for freight transport: methodological approach and case study for liquefied natural gas
	Valerius Venzik: Propene/isobutane mixtures in heat pumps: an experimental investigation	Pieter Mergenthaler: Application of exergoeconomic, exergoenvironmental and advanced exergy analyses on Carbon Black production	Alvaro Durante: Numerical model of an externally fired gas turbine, including an arbitrary number of stages in expansion and compression processes	Raluca Suci: Towards Energy-Autonomous Cities: CO <sub>2</sub> Networks	Stefanie Tesch: Liquefaction of natural gas integrated into an air separation plant: Evaluation of a novel concept	
	Ruzhu Wang: Study on Performances of A Novel Residential Air Source Heat Pump System for Heating	Timo Blumberg: Comparative exergoeconomic evaluation of two modern combined-cycle power plants	Gabriel Pena: Optimizing the efficiency of an externally fired gas turbine			
18:20-20:00	Scientific Committee Meeting					