



2017

**10<sup>th</sup> INTERNATIONAL CONFERENCE ON  
SUSTAINABLE ENERGY & ENVIRONMENTAL PROTECTION**

**Conference Programme**



Faculty of Chemistry and  
Chemical Engineering



**BLED, SLOVENIA  
June 27-30, 2017**



## Welcome!

It is a great honor to organize and chair the 10<sup>th</sup> International Conference on Sustainable Energy & Environmental Protection (SEEP2017) held in Bled, Slovenia, from 27<sup>th</sup> to 30<sup>th</sup> of June 2017. The conference is organized by University of Maribor, Faculty of Chemistry and Chemical Engineering and University of the West of Scotland, School of Engineering.

The aim of SEEP2017 is to bring together the researches within the field of sustainable energy and environmental protection from all over the world.

The contributed papers are grouped in 18 sessions in order to provide access to readers out of 210 contributions prepared by authors from 62 countries.

We thank to distinguished keynote speakers and chairs who have kindly consented to participate at this conference. We are also grateful to all the authors for their papers and to all committee members.

We believe that scientific results and professional debates shall not only be an incentive for development, but also for making new friendships and possible future scientific development projects.

We wish you all to enjoy the conference and nice stay in Bled!

Emeritus prof. dr. Jurij Krope  
Conference general chair

Handwritten signature of Jurij Krope in blue ink.

dr. Peter Trop  
Technical editor

Handwritten signature of Peter Trop in blue ink.

## 10<sup>th</sup> INTERNATIONAL CONFERENCE ON SUSTAINABLE ENERGY & ENVIRONMENTAL PROTECTION



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## 10<sup>th</sup> INTERNATIONAL CONFERENCE ON SUSTAINABLE ENERGY & ENVIRONMENTAL PROTECTION



### CONFERENCE PROGRAMME

#### Overview

#### Monday 26.6.2017

17 <sup>00</sup> – 19 <sup>00</sup>	Registration	Congress Hall – Center Bled
19 <sup>00</sup> – 20 <sup>00</sup>	Welcome Drink	

#### Tuesday 27.6.2017

08 <sup>00</sup> – 09 <sup>30</sup>	Registration	Congress Hall – Center Bled
09 <sup>30</sup> – 10 <sup>30</sup>	Opening ceremony and Welcome address	
10 <sup>30</sup> – 11 <sup>00</sup>	Coffee break	
11 <sup>00</sup> – 13 <sup>00</sup>	Plenary lectures	
13 <sup>00</sup> – 15 <sup>00</sup>	Lunch – Hotel Golf	

#### Sessions:

1	Renewable Energy Sources	10	Energy Management and Policies
2	Energy Efficiency	11	Mechanical Engineering
3	Bioenergy and Biofuels	12	Waste Energy and Management
4	Modelling and Simulation	13	Marine and Hydro Power
5	Environmental Management and Impact	14	Combined and Hybrid Energy Systems
6	Hydrogen and Fuel Cells	15	Technical Developments in Vehicles
7	Energy Storage	16	Power Distribution
8	Materials	17	Nuclear Energy
9	Water and Air Quality	18	Waste Heat Utilisation

## Technical programme - Sessions

### Tuesday 27.6.2017

Hotel	GOLF			KOMPAS			
Hall	Jupiter 1	Jupiter 2	Libertas	Triglavska	Grajska	Jezerska	Rikli
Time							
15 <sup>00</sup> – 16 <sup>30</sup>	1	2	3	5	4	-	9
16 <sup>30</sup> – 17 <sup>00</sup>	Coffee break			Coffee break			
17 <sup>00</sup> – 19 <sup>00</sup>	1	2	3	5	4	-	9

### Wednesday 28.6.2017

Hotel	GOLF			KOMPAS			
Hall	Jupiter 1	Jupiter 2	Libertas	Triglavska	Grajska	Jezerska	Rikli
Time							
08 <sup>30</sup> – 09 <sup>00</sup>	Keynote lecture– Jupiter 1						
09 <sup>15</sup> – 10 <sup>45</sup>	1	2	3	5	4	6	14
10 <sup>45</sup> – 11 <sup>15</sup>	Coffee break			Coffee break			
11 <sup>15</sup> – 12 <sup>45</sup>	1	2	3	7	4	6	15
13 <sup>00</sup> – 15 <sup>00</sup>	Lunch – Hotel Golf						
15 <sup>00</sup> – 16 <sup>30</sup>	1	2	3	7		6	10
16 <sup>30</sup> – 17 <sup>00</sup>	Coffee break			Coffee break			
17 <sup>00</sup> – 19 <sup>45</sup>	1	2	3	7	8	12	10

### Thursday 29.6.2017

09 <sup>00</sup> – 10 <sup>30</sup>	-	-	1	11	2	13	3
10 <sup>30</sup> – 11 <sup>00</sup>	Coffee break			Coffee break			
11 <sup>00</sup> – 12 <sup>45</sup>	-	-	1	11	8	16,17,18	6
13 <sup>00</sup> – 13 <sup>45</sup>	Closing ceremony – Hall Jezerska						
14 <sup>00</sup> – 15 <sup>30</sup>	Lunch – Hotel Kompas						
20 <sup>00</sup> – 24 <sup>00</sup>	Banquet Dinner – <b>Grand Hotel Toplice</b>						

### Friday 30.6.2017

09 <sup>30</sup>	Conference Tour, Start - Hotel Golf
10 <sup>30</sup> – 14 <sup>00</sup>	Postojna Cave Visit and Lunch
15 <sup>00</sup> – 17 <sup>00</sup>	Old Town Ljubljana – Free Afternoon
17 <sup>00</sup> - 18 <sup>00</sup>	Arrival to Bled

## 10<sup>th</sup> INTERNATIONAL CONFERENCE ON SUSTAINABLE ENERGY & ENVIRONMENTAL PROTECTION



### Detailed Technical Programme

#### SEEP 2017

Tuesday, 27 <sup>th</sup> June 2017 – Plenary Lectures – Congress Hall – Center Bled		
11 <sup>00</sup>	11 <sup>40</sup>	Plenary lecture 1 Chaired by Prof. dr. Stane Božičnik, University of Maribor - Slovenia  <b>The Relation between Renewable Energy and Circular Economy</b> Professor dr. Abdul Ghani Olabi University of the West of Scotland, Glasgow, UK
11 <sup>40</sup>	12 <sup>20</sup>	Plenary lecture 2 Chaired by Prof. dr. Zdravko Kravanja, University of Maribor - Slovenia  <b>Energy Footprints Reduction and Virtual Footprints Interactions</b> Prof Dr. Jiří Jaromír KLEMĚŠ NETME Centre, FME, Brno University of Technology, VUT Brno, Slovakia
12 <sup>20</sup>	13 <sup>00</sup>	Plenary lecture 3 Chaired by Prof. dr. Bekir Zühtü Uysal, Gazi University – Maltepe, Turkey  <b>Renewable energy sources for environmental protection</b> Prof.Dr.Hakan Serhad Soyhan Sakarya University, Sakarya, Turkey



**Tuesday, 27<sup>th</sup> June 2017 – Hotel GOLF**

**Session 1: Renewable Energy Sources – Hall Jupiter 1**

**Chair: Prof. Dr. Francesco Di Maria**

15 <sup>00</sup>	15 <sup>15</sup>	SEEP-295	Zina Boussaada, Octavian Curea, Hartiza Camblong, Najiba Mrabet Bellaaj <b>Prediction of the daily direct solar radiation using nonlinear autoregressive exogenous (NARX) network model</b>
15 <sup>15</sup>	15 <sup>30</sup>	SEEP-84	Mananenkov O.V., Filatova A.E., Kislitza O.V., Lugovoy Yu.V., Sulman E.M., Matveeva V.G., Doluda V.Yu., Sidorov A.I. <b>Ru-Containing Polymeric Catalyst for the Process of Cellulose Conversion</b>
15 <sup>30</sup>	15 <sup>45</sup>	SEEP-110	Fouad Al-Mansour, Viktor Jejcic, , Igor Škrjanec, <b>Possibilities for micro biogas plants in Slovenian agriculture</b>
15 <sup>45</sup>	16 <sup>00</sup>	SEEP-126	Constantinos Vassiliades, Aimilios Michael, Andreas Savvides, Soteris Kalogirou <b>ENVIRONMENTAL ASSESSMENT OF THE INTEGRATION OF ACTIVE SOLAR ENERGY SYSTEMS ON BUILDING ENVELOPES IN SOUTHERN EUROPE</b>
16 <sup>00</sup>	16 <sup>15</sup>	SEEP-145	Jin Hur, Deockho Kim <b>Short-Term Probabilistic Forecasting of Wind Energy Resources using the Enhanced Ensemble Method</b>
16 <sup>15</sup>	16 <sup>30</sup>	SEEP-216	Andrés Adolfo Amell Arrieta, Carlos Ernesto Arrieta Gonzalez, Fabián Esneider Cano Ardila, Arley Johany Cardona Vargas, Hernando Alexander Yepes Tumay <b>Numerical and experimental study of laminar burning velocity of syngas-methane mixtures using syngas obtained from coal and biomass gasification</b>
16 <sup>30</sup>	17 <sup>00</sup>	Coffee break – Foyer Jupiter 1	

**Session 1: Renewable Energy Sources – Hall Jupiter 1**

**Chair: Prof. Dr. Jan Peter van der Hoek**

17 <sup>00</sup>	17 <sup>15</sup>	SEEP-204	Henrik Lavrič, Andraž Rihar, Rastko Fišer <b>Electrical energy production simulation in SHP of ultra-low head considering environment protection conditions and technical limitations</b>
17 <sup>15</sup>	17 <sup>30</sup>	SEEP-130	Vogtenhuber, H., Hofmann, R., Schöny, G., Pirkbaum, J., Fraubaum, M., Helminger, F., Werner, A., Hofbauer, H. <b>Development of an efficient heat balance concept for a TSA-process considering heat-pump integration</b>
17 <sup>30</sup>	17 <sup>45</sup>	SEEP-171	Nela Slavu, Adrian Badea, Cristian Dinca <b>CO<sub>2</sub> capture from syngas generated by a biomass gasification power plant with chemical absorption process</b>
17 <sup>45</sup>	18 <sup>00</sup>	SEEP-161	Ruggeri, Bernardo, Gómez Camacho, Carlos Enrique, Romano, Francesco Ivan <b>ENHANCED BIOHYDROGEN PRODUCTION AND CO<sub>2</sub> DECREASE BY ZERO VALENT POWERED FE ADDITION IN DARK FERMENTATION</b>
18 <sup>00</sup>	18 <sup>15</sup>	SEEP-173	Rok Stropnik, Boštjan Drobnič, Boštjan Jurjevčič, Mitja Mori <b>Feasibility study of integrating renewables and hydrogen technologies into isolated power supply system of mountain hut</b>
18 <sup>15</sup>	18 <sup>30</sup>	SEEP-267	Fabián Esneider Cano Ardila, Sergio Cipriano Agudelo Florez <b>Determination of the concentration ratio of a parabolic solar concentrator using thermographic image processing</b>
18 <sup>30</sup>	18 <sup>45</sup>	SEEP-220	Houria Smail, Rezak Alkama <b>Impact of a big power plant into the network</b>
18 <sup>45</sup>	19 <sup>00</sup>	SEEP-54	Francesco Di Maria, Federico Sisani <b>Substitution of agro-energetic biomass with bio-waste for an existing anaerobic digestion plant: an energetic and environmental analysis</b>

**Wednesday, 28<sup>th</sup> June 2017 – Hotel GOLF****KEYNOTE LECTURE****All sessions - Hall Jupiter 1****Chair: Prof. dr. Danijel Topič, Croatia**

08 <sup>30</sup>	09 <sup>00</sup>	Professor Francesco di Maria <b>Substitution of agro-energetic biomass with bio-waste for an existing anaerobic digestion plant: an energetic and environmental analysis</b>
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**Wednesday, 28<sup>th</sup> June 2017 – Hotel GOLF****Session 1: Renewable Energy Sources – Hall Jupiter 1****Chair: Prof. dr. Danijel Topič, Croatia**

09 <sup>15</sup>	09 <sup>30</sup>	SEEP-361	Jurica Perko, Matej Žnidarec, Danijel Topić <b>Comparative Analysis of Electricity Production from Different Technologies of PV Modules</b>
09 <sup>30</sup>	09 <sup>45</sup>	SEEP-332	Suman Debnath, Abhilekh Sonowal, Biplab Das, Pitambar Randive, K.M. Pandey <b>Performance Analysis of Solar Air Collector in North East region of India</b>
09 <sup>45</sup>	10 <sup>00</sup>	SEEP-207	Andrés F. León Esteban, Ana M. Rosso Cerón, Viatcheslav Kafarov, Fredy Montañez <b>Forecasting tool for assessing environmental, technical and economic parameters associated with power generation alternatives</b>
10 <sup>00</sup>	10 <sup>15</sup>	SEEP-159	Levent Bilir, Nurdan Yildirim <b>Modeling and Performance Analysis of a Hybrid System for a Residential Application</b>
10 <sup>15</sup>	10 <sup>30</sup>	SEEP-257	Ibrahim Yuksel, Hasan Arman, I. Halil Demire <b>Sustainable Energy Policies for Clean Environment in Turkey</b>
10 <sup>30</sup>	10 <sup>45</sup>	SEEP-343	K.S. Reddy , Hitesh Singla <b>STRUCTURAL ANALYSIS OF HYBRID JUTE-GLASS FIBRE COMPOSITE SOLAR PTC UNDER VARIOUS WIND CONDITIONS</b>
10 <sup>45</sup>	11 <sup>15</sup>	Coffee break – Foyer Jupiter 1	

**Session 1: Renewable Energy Sources – Hall Jupiter 1****Chair: Prof. dr. Biplab Das, India**

11 <sup>15</sup>	11 <sup>30</sup>	SEEP-158	Danijel Topič, Goran Knežević, Matej Žnidarec, Bojan Štumberger, Miralem Hadžiselimović, Sebastijan Seme <b>Comparison of the shading influence on PV modules of different technologies</b>
11 <sup>30</sup>	11 <sup>45</sup>	SEEP-340	Zhixia Li, Zhentao Huang, Chengtong Wang <b>Green diesel synthesis by catalytic hydrogenation of waste cooking oil: catalyst design and effect of solvent</b>
11 <sup>45</sup>	12 <sup>00</sup>	SEEP-262	N. A. Nader <b>Assessment of Aeroleaf Wind Turbine Design in Saudi Arabia: Case Study Al Khobar City</b>
12 <sup>00</sup>	12 <sup>15</sup>	SEEP-448	E.L. Almeida, C.M.G. Andrade, J.O.A. Sena <b>PRODUCTION OF BIOGAS FROM EFFLUENT OF PIGS. CASE STUDY</b>
12 <sup>15</sup>	12 <sup>30</sup>	SEEP-319	Hamed Ali Hamed, Ahmed A. Abdel-Rehim, Attia M. Attia <b>A Case Study of Solar Energy Application in Enhanced Oil Recovery</b>
12 <sup>30</sup>	12 <sup>45</sup>	SEEP-96	Khadija El Kamouny, Hassane Mahmoudi, Brahim Lakssir <b>Smart Solar Battery Charge for PV-Application</b>

<b>Session 1: Renewable Energy Sources – Hall Jupiter 1</b>			
<b>Chair: Prof. dr. Ibrahim Yuksel, Turkey</b>			
15 <sup>00</sup>	15 <sup>15</sup>	SEEP-123	J.P. van der Hoek, S. Mol, J.I. Ahmad, G. Liu, G. Medema <b>Thermal energy recovery from drinking water</b>
15 <sup>15</sup>	15 <sup>30</sup>	SEEP-427	Yosef Elia, Dorin Lucache, Marcel Istrate, Valentin Nita <b>Challenges in the Practical Implementation of Concentrating Solar Thermal Power Projects</b>
15 <sup>30</sup>	15 <sup>45</sup>	SEEP-512	Ismail Laib , A. Hamidat, M. Haddadi, N. Ramzan, A.G. Olabi <b>Study and simulation of the energy performances of a grid-connected PV system supplying a residential house in north of Algeria</b>
15 <sup>45</sup>	16 <sup>00</sup>	SEEP-257	Ibrahim Yuksel, Hasan Arman, I. Halil Demirel <b>Sustainable Energy Policies for Clean Environment in Turkey</b>
16 <sup>00</sup>	16 <sup>15</sup>	SEEP-214	Sebastijan Seme, Klemen Sredenšek, Bojan Štumberger, Miralem Hadžiselimović <b>PHOTOVOLTAIC SYSTEMS IN SLOVENIA AND PERFORMANCE RATIOS: A REVIEW</b>
16 <sup>15</sup>	16 <sup>30</sup>	SEEP-208	Sebastijan Seme, Klemen Sredenšek, Bojan Štumberger, Miralem Hadžiselimović <b>TECHNICAL AND ECONOMICAL PART OF INVESTMENTS IN SOLAR POWER PLANTS AND SMALL HYDRO POWER PLANTS - COMPARISON BETWEEN TECHNOLOGIES</b>
16 <sup>30</sup>	17 <sup>00</sup>	Coffee break – Foyer Jupiter 1	

<b>Session 1: Renewable Energy Sources – Hall Jupiter 1</b>			
<b>Chair: Prof. Dr. KALVALA SRINIVAS REDDY</b>			
17 <sup>00</sup>	17 <sup>15</sup>	SEEP-238	M.Eswaramoorthy and S.Shanmugam <b>A Detailed Review on Solar Photovoltaic Thermoelectric Generator Hybrid System</b>
17 <sup>15</sup>	17 <sup>30</sup>	SEEP-65	Hanxi Wang, Jianling Xu, Lianxi Sheng, Xuejun Liu <b>Effect of addition of biogas slurry for anaerobic fermentation of deer manure on biogas production</b>
17 <sup>30</sup>	17 <sup>45</sup>	SEEP-82	Emmanuel Ogungbemi, Abdul G. Olabi, Tabbi Wilberforce Awortwe, Oluwatosin Ijaodola, Ahmed Al Makky <b>A review of PEM fuel cell materials</b>
17 <sup>45</sup>	18 <sup>00</sup>	SEEP-176	Houria Smail <b>For a better integration of wind generators into power network</b>
18 <sup>00</sup>	18 <sup>15</sup>	SEEP-223	Marcio Giannini Pereira, Marcos Aurélio Vasconcelos Freitas, Neiton Fidelis da Silva <b>Development of the small wind in Brazil: Status and bottlenecks for growth</b>
18 <sup>15</sup>	18 <sup>30</sup>	SEEP-240	J. Linares-Flores, R. Lescas-Hernandez, J. F. Guerrero-Castellanos, G. Mino-Aguilar, H. Sira-Ramírez, A. Hernández-Méndez, M. A. Contreras-Ordaz <b>Angular Speed Control of an Induction Motor via a Solar Powered Boost Converter-Voltage Source Inverter Combination</b>
18 <sup>30</sup>	18 <sup>45</sup>	SEEP-243	M. Kashif Shahzad, Muzaffar Ali, Tasawar Abbas, Pervaiz Iqbal <b>Design and Experimental Investigation of a Slinky Closed Loop Lake Water Heat Pump System under the climate conditions of Pakistan</b>
18 <sup>45</sup>	19 <sup>00</sup>	SEEP-515	Azzedine Boutelhig, Aicha Melit <b>GEOSPATIAL CHARACTERISTICS INVESTIGATION OF SUITABLE AREA FOR PHOTOVOLTAIC WATER PUMPING ERECTIONS, IN THE SOUTHERN AREA OF GHARDAIA, ALGERIA</b>
19 <sup>00</sup>	19 <sup>15</sup>	SEEP-518	Idriss Hadj Mahammed, Amar Hadj Arab, Smail Berrah, Yahia Bakelli, Messaouda Khannane, Smir Hamid Oudjana, Amor Fezzani, Layachi Zaghba <b>COMPARISON STUDY TO SELECT AN OPTIMUM PHOTOVOLTAIC PV MODULE MODEL UNDER EXPERIMENTAL PERFORMANCES</b>

**Thursday, 29<sup>th</sup> June 2017 – Hotel GOLF**

**Session 1: Renewable Energy Sources – Hall Libertas**

**Chair: Prof. dr. Sebastijan Seme**

09 <sup>00</sup>	09 <sup>15</sup>	SEEP-78	Klemen Deželak, Jože Pihler <b>UNEXPLOITED POTENTIAL IN THE FIELD OF SMALL HYDROPOWER PRODUCTION UNITS IN PROTECTED AREAS</b>
09 <sup>15</sup>	09 <sup>30</sup>	SEEP-308	Biljana Vučićević, Valentina Turanjanin, Marina Jovanović, Predrag Škopalj, Vukman Bakić <b>The sustainability of thermal power plant unit revitalization: comparison of two multi-criteria methods</b>
09 <sup>30</sup>	09 <sup>45</sup>	SEEP-177	Andrej Predin, Gorazd Hren <b>Small Kinetic Water Turbines Review, Possible Locations and Economic Efficiency in Slovenia</b>
09 <sup>45</sup>	10 <sup>00</sup>	SEEP-402	Carlos Ernesto Arrieta Gonzalez, Alex Mauricio García Vergara, Iván Darío Bedoya Caro, Andres Adolfo Amell Arrieta <b>On the Stability of Natural Gas and Low Calorific Value Fuels in a Surface-Stabilized Combustion Burner</b>
10 <sup>00</sup>	10 <sup>15</sup>	SEEP-408	Sennai Mesfun, Sylvain Leduc, Piera Patrizio, Ping Yowargana, Florian Kraxner <b>Spatio-temporal assessment of integrating intermittent electricity in the EU power sector</b>
10 <sup>15</sup>	10 <sup>30</sup>	SEEP-198	Marcus Eichhorn, Raik Becker, Frank Masurowski, Daniela Thrän <b>Spatial sustainability assessment of wind energy expansion scenarios</b>
10 <sup>30</sup>	11 <sup>00</sup>	Coffee break – Foyer Jupiter 1	

**Session 1: Renewable Energy Sources – Hall Libertas**

**Chair: Prof. Dr. Andrej Predin**

11 <sup>00</sup>	11 <sup>15</sup>	SEEP-298	K.Dossumov, G.Y.Yergaziyeva, D.Kh.Churina, S.Tayrabekova, E.Tulibayev <b>HYDROGEN PRODUCTION BY ETHANOL CONVERSION</b>
11 <sup>15</sup>	11 <sup>30</sup>	SEEP-470	Tine Seljak, Tomaž Katrašnik <b>Highly oxygenated viscous biofuels as a measure to reduce PM emissions</b>
11 <sup>30</sup>	11 <sup>45</sup>	SEEP-433	Vicente Flores, Jorge Bedolla, Marcos Bedolla, Carlos Alberto Mora <b>COGENERATION THROUGH A SOLAR PHOTOVOLTAIC-THERMAL SYSTEM WITH CHANNEL FINNED</b>
11 <sup>45</sup>	12 <sup>00</sup>	SEEP-475	Amal Herez, Mohamad Ramadan, Mahmoud Khaled, Hisham Elhage, Hasan Bazi <b>A review on solar dryer - Economic and environmental investigation for the Lebanese case</b>
12 <sup>00</sup>	12 <sup>15</sup>	SEEP-278	Ziane Sofiane, Aissaoui Abdelghani, Abid Mohamed, Tahour Ahmed <b>ADAPTIVE NEURAL FUZZY SLIDING MODE CONTROL OF DOUBLY FED INDUCTION GENERATOR USED IN WIND TURBINE</b>
12 <sup>15</sup>	12 <sup>30</sup>	SEEP-516	Samir H.Oudjana , Idriss H. Mahammed, Khennane M. Benbitour <b>PV POWER PREDICTION TO PROVIDE ENERGY DEMAND BY LOAD FORECASTING</b>
12 <sup>30</sup>	12 <sup>45</sup>	SEEP-71	Gianluca Rospì, Antonio Giovannini, Michele Dassisti, Francesca Intini, Osiris Canciglieri Junior, Eduardo Rocha Loures <b>Reducing the Life Cycle Assessment Heterogeneity: A System Design View</b>
12 <sup>45</sup>	13 <sup>00</sup>	SEEP-170	Gianluca Rospì, Nicola Cardinale, Francesca Intini, Elisabetta Negro <b>An innovative low enthalpy geothermal system: Ground source heat pump and underground tank for heating and cooling of buildings</b>

<b>Tuesday, 27<sup>th</sup> June 2017 – Hotel GOLF</b>			
<b>Session 2: Energy Efficiency – Hall Jupiter 2</b>			
<b>Chair: Prof. dr. Bojan Štumberger, Slovenia</b>			
15 <sup>00</sup>	15 <sup>15</sup>	SEEP-38	Eva Klemenčič, Samo Kralj, Maja Trček, Zdravko Kutnjak <b>Electrocaloric effect in liquid crystals</b>
15 <sup>15</sup>	15 <sup>30</sup>	SEEP-90	Emin Selahattin Umdu, Levent Bilir, Nurdan Yildirim Ozcan, Ilker Kahraman <b>INVESTIGATION OF DESIGN PARAMETERS OF MICROALGAE PANEL BIO-REACTORS FOR BUILDING FAÇADE APPLICATIONS</b>
15 <sup>30</sup>	15 <sup>45</sup>	SEEP-67	Hussam Jouhara, Theodora Nannou, Bertrand Delpech, Sulaiman Almahmoud, Amisha Chauhan, Mark Boocock, Luiz Wrobel, Ignacio Carrau , Federico Carrau <b>Heat pipe based heat exchanger for clean yerba mate drying process</b>
15 <sup>45</sup>	16 <sup>00</sup>	SEEP-72	Manxuan Xiao, Llewellyn Tang, Xingxing Zhang, <b>Analysis on Cooling Technologies of Concentrated Solar Power System: A Review</b>
16 <sup>00</sup>	16 <sup>15</sup>	SEEP-109	Guozhen Li, Llewellyn Tang, Xingxing Zhang, Jing Hao, Manxuan Xiao, Jie Dong <b>Numerical and experimental investigations on improving the efficiency of Clean-In-Place procedures in closed processing systems: A review</b>
16 <sup>15</sup>	16 <sup>30</sup>	SEEP-95	Kristian Fabbri, Chiara Bertolli <b>Controlled Mechanical Ventilation: comparison of energy use and primary applied to 20 different devices in a testing room</b>
16 <sup>30</sup>	17 <sup>00</sup>	Coffee break – Foyer Jupiter 1	

<b>Session 2: Energy Efficiency – Hall Jupiter 2</b>			
<b>Chair: Prof. dr. Prof. Dr. Vesna Žegarac Leskovic</b>			
17 <sup>00</sup>	17 <sup>15</sup>	SEEP-496	Bojan Štumberger, Sebastijan Seme, Zdravko Praunseis, Miralem Hadžiselimović <b>Review of achieved energy efficiency level by using different electric motor technologies: opportunities, challenges and technical frontiers</b>
17 <sup>15</sup>	17 <sup>30</sup>	SEEP-131	Aimilios Michael, , Andreas Kyriakidis, Rogiros Illampas, Dimos C. Charmpis, Ioannis Ioannou, <b>Comparative Study on the Thermal Performance and Environmental Footprint of Traditional and Contemporary Masonry Systems Used in Southern Europe</b>
17 <sup>30</sup>	17 <sup>45</sup>	SEEP-249	Shoukat A Khan, Adnan Ali, Muataz A. Hussien, Muammer Koc <b>Study of CNF coating for Pool-boiling and Condensation</b>
17 <sup>45</sup>	18 <sup>00</sup>	SEEP-317	Simona Vasilica Oprea, Adela Băra, Adriana Reveiu <b>INFORMATICS SOLUTION FOR ENERGY EFFICIENCY IMPROVEMENT AND CONSUMPTION MANAGEMENT</b>
18 <sup>00</sup>	18 <sup>15</sup>	SEEP-336	M. C. S. Ferreira, J. M. R. Mari, M. V. R. Mari, W. A. S. Conceição, C. M. G. Andrade <b>CYCLE OF POWER AND STEAM GENERATION IN SUGAR-ENERGY INDUSTRIES</b>
18 <sup>15</sup>	18 <sup>30</sup>	SEEP-328	Eugen Mandric, Mugurel Florin Talpiga, Florin Iordache <b>Shaping the envelope of buildings by looking at both architectural layout and technical performance in order to maximize the energy efficiency of the whole ensemble</b>
18 <sup>30</sup>	18 <sup>45</sup>	SEEP-385	Shoukat Alim Khan, Adnan Ali, Muataz A. Hussien, Muammer Koc <b>Critical review of micro-nano scale surface modification for phase change heat transfer</b>
18 <sup>45</sup>	19 <sup>00</sup>	SEEP-312	Heracleous Chryso, Michael Aimilios <b>CLIMATE CHANGE AND THERMAL COMFORT IN EDUCATIONAL BUILDINGS OF SOUTHERN EUROPE: THE CASE OF CYPRUS</b>

**Wednesday, 28<sup>th</sup> June 2017 – Hotel GOLF****Session 2: Energy Efficiency – Hall Jupiter 2****Chair: Prof. dr. Prof. Dr. Lamberto Tronchin**

09 <sup>15</sup>	09 <sup>30</sup>	SEEP-87	Mehmet İlhan İlhak, Selahaddin Orhan Akansu, Nafiz Kahraman, Sebahattin Ünalın <b>Investigation of Performance and Emissions in a SI Engine Fuelled by Gasoline - Acetylene Mixtures</b>
09 <sup>30</sup>	09 <sup>45</sup>	SEEP-94	H.Enes Fil, Paolo Sementa, S.Orhan Akansu, Michela Costa, Nafiz Kahraman <b>Investigation of Performance and Emissions of a SI Engine Powered with Oxygenated Fuel Blends</b>
09 <sup>45</sup>	10 <sup>00</sup>	SEEP-242	Mariusz J. Stolarski, Michał Krzyżaniak <b>Energy efficiency of camelina and crambe biomass production under different cultivation conditions</b>
10 <sup>00</sup>	10 <sup>15</sup>	SEEP-34	Samo Kralj <b>Phase-changing materials for thermal stabilization of buildings</b>
10 <sup>15</sup>	10 <sup>30</sup>	SEEP-450	E.L. Almeida, F. C. Vieira Filho, J.M.R. Mari, M.V.R. Mari, M.C.S. Ferreira, E.N.P. Dundão, A.R. Visconcini, D. Toletto, C.M.G. Andrade <b>EXERGETIC ANALYSIS IN A COGENERATION PLANT. CASE STUDY</b>
10 <sup>30</sup>	10 <sup>45</sup>	SEEP-421	Daniel Uribe, Waldo Bustamante, Sergio Vera, María José Yañez <b>Improving the visual comfort and energy performance of office buildings</b>
10 <sup>45</sup>	11 <sup>15</sup>	Coffee break – Foyer Jupiter 1	

**Session 2: Energy Efficiency – Hall Jupiter 2****Chair: Prof. dr. Maja Leitgeb**

11 <sup>15</sup>	11 <sup>30</sup>	SEEP-79	Massimiliano Manfren <b>On the incidence of occupant's behavior in the evaluation of energy efficiency in buildings</b>
11 <sup>30</sup>	11 <sup>45</sup>	SEEP-28	Alan Kabanshi, Bin Yang, Hans Wigö , Mats Sandberg <b>Energy simulation and analysis of intermittent air jets system under different climates</b>
11 <sup>45</sup>	12 <sup>00</sup>	SEEP-417	Adel Oueslati , Ahmed HANNACHI <b>Theoretical and Experimental study of Air Humidification by sea Water in an Air Lift pump Packed Column Humidifier</b>
12 <sup>00</sup>	12 <sup>15</sup>	SEEP-416	Oueslati Adel, Hannachi Ahmed <b>Prediction of the influence of the liquid temperature effect on two-phase flow through a granular medium</b>
12 <sup>15</sup>	12 <sup>30</sup>	SEEP-522	Petar Sabev Varbanov, Jiří Jaromír Klemeš, Zhi-Yong Liu, Zdravko Kravanja <b>Energy – Water Interactions, Industrial Context</b>
12 <sup>30</sup>	12 <sup>45</sup>	SEEP-25	Igor Ivanovski, Tina Žagar, Darko Goričanec <b>High-temperature heat-pumps for district heating</b>

<b>Session 2: Energy Efficiency – Hall Jupiter 2</b>			
<b>Chair: Dr. Fouad Al-Mansour</b>			
15 <sup>00</sup>	15 <sup>15</sup>	SEEP-29	Žegarac Leskovar Vesna, Maja Žigart , Maja Lešnik, Miroslav Premrov <b>Refurbishment of multi-family buildings with the application of timber-glass upgrade modules: Influence of the building volume ratio on the energy efficiency</b>
15 <sup>15</sup>	15 <sup>30</sup>	SEEP-33	Maja Žigart , Miroslav Premrov , Vesna Žegarac Leskovar <b>Influence of Building Shape on Energy Performance of Timber-Glass Buildings Located in Warm Climatic Regions</b>
15 <sup>30</sup>	15 <sup>45</sup>	SEEP-326	Roberto San Jose, Juan L. Perez, Libia Perez, Rosa M. Gonzalez-Barras <b>CHANGES ON BUILDING ENERGY CONSUMPTION USING FUTURE HIGH SPATIAL RESOLUTION CLIMATE DATA</b>
15 <sup>45</sup>	16 <sup>00</sup>	SEEP-513	Katja Vasić, Mateja Primožič, Željko Knez, Maja Leitgeb <b>Nanomaterial-based biocatalysts</b>
16 <sup>00</sup>	16 <sup>15</sup>	SEEP-125	Boris Sucic, Sandi Cimerman, Marko Peckaj Fouad Al-Mansour, <b>Practical approach for energy consumption optimisation in educational and research buildings - case study cluster computers and data room</b>
16 <sup>15</sup>	16 <sup>30</sup>	SEEP-124	Marcel Kohler, Janet BruceBrand <b>An Empirical Analysis of Energy Efficiency in South Africa</b>
16 <sup>30</sup>	17 <sup>00</sup>	Coffee break – Foyer Jupiter 1	

<b>Session 2: Energy Efficiency – Hall Jupiter 2</b>			
<b>Chair: Prof. Dr. Miralem Hadžiselimovic</b>			
17 <sup>00</sup>	17 <sup>15</sup>	SEEP-493	Miralem Hadžiselimović, Gregor Srpčič, Iztok Brinovar, Zdravko Praunseis, Sebastijan Seme, Bojan Štumberger <b>Linear oscillatory synchronous generator designed for stirling engine</b>
17 <sup>15</sup>	17 <sup>30</sup>	SEEP-190	Gregor Kravanja, Gašper Zajc, Željko Knez, Mojca Škrget, Maša Hrnčič Knez <b>An experimental study on heat transfer of fluids at supercritical conditions</b>
17 <sup>30</sup>	17 <sup>45</sup>	SEEP-221	Dr. techn. Marko Jausovec, Dr. Metka Sitar <b>Comparative Evaluation Model for smart envelope systems</b>
17 <sup>45</sup>	18 <sup>00</sup>	SEEP-527	Dušan Kragelj, Tomaž Kramberger, Bojan Rupnik, Danijela Urbancl , Darko Goričanec <b>Operation of distributed energy supply systems</b>
18 <sup>00</sup>	18 <sup>15</sup>	SEEP-463	Žiga Schäffer, Stojan Petelin, Ivan Bajsić <b>Ship power plant environmental impact and costs rationalization</b>
18 <sup>15</sup>	18 <sup>30</sup>	SEEP-380	Marinko Barukčić, Miralem Hadžiselimović, Sebastijan Seme <b>Stochastic model for prediction of photovoltaic production uncertainty based on measured data</b>
18 <sup>30</sup>	18 <sup>45</sup>	SEEP-230	Diane Bastien, Martin Winther-Gaasvig <b>PERMEABLE AND HYGROSCOPIC BUILDING ENVELOPES: HYGROTHERMAL SIMULATIONS OF “DET NATURLIGE HUS”</b>
18 <sup>45</sup>	19 <sup>00</sup>	SEEP-502	Igor Pšunder, Marko Soršak <b>Economic sustainability of energy improvements in buildings in terms of their useful life and required rate of return</b>
19 <sup>00</sup>	19 <sup>15</sup>	SEEP-481	Frigyes Kocsis, István Barótfi, Zoltán Magyar <b>Definition of Benchmark Comparison Method for Commercial buildings’ Heating Energy Demand by Degree Day Analysis</b>
19 <sup>30</sup>	19 <sup>45</sup>	SEEP-533	József Mursics, Tina Žagar, Darko Goričanec <b>Energetic optimization of parallel operating processes for production of formaldehyde</b>

**Thursday, 29<sup>th</sup> June 2017 – Hotel KOMPAS**

**Session 2: Energy Efficiency – Hall Grajska**

**Chair: Prof. dr. Zdravko Praunseis**

09 <sup>00</sup>	09 <sup>15</sup>	SEEP-362	Yahya Erkan Akansu, Mustafa Sarioğlu, Mehmet Seyhan, Hürrem Akbıyık <b>Investigation of flow characteristics of synthetic jet driven by duty cycle signal</b>
09 <sup>15</sup>	09 <sup>30</sup>	SEEP-305	Huseyin Gunhan Ozcan, Huseyin Gunerhan, Arif Hepbasli Performance Evaluation of a Mobile Air Conditioning Unit: An Exergetic Approach
09 <sup>30</sup>	09 <sup>45</sup>	SEEP-530	Tomislav Letnik, Matej Mencinger, Stane Bozicnik <b>INNOVATIVE SOLUTION FOR ENERGY EFFICIENT URBAN FREIGHT DELIVERIES</b>
09 <sup>45</sup>	10 <sup>00</sup>	SEEP-529	Jouan Rashidi, Pouya Ifaei, Changkyoo Yoo, and Jeong Tai Kim <b>Energy recovery optimization of an Ammonia-Water Power Cooling cycle using exergy-pinch method</b>
10 <sup>00</sup>	10 <sup>15</sup>	SEEP-349	Muhammad Amjad Farooq, Muhammad Farooq, Abdul Shakoor <b>Computational performance of flat plate solar collector under various parameters</b>
10 <sup>30</sup>	11 <sup>00</sup>	Coffee break – Restoran Hotel Kompas	



**Tuesday, 27<sup>th</sup> June 2017 – Hotel GOLF**

**Session 3: Bioenergy and biofuels – Hall Libertas**

**Chair: Prof. dr. Timo Kikas**

15 <sup>00</sup>	15 <sup>15</sup>	SEEP-318	Nerea Viar, Jesus Requies, Ion Agirre, Pedro Luis Arias <b>2,5 DMF PRODUCTION FROM BIOMASS USING HETEROGENOUS CATALYSTS</b>
15 <sup>15</sup>	15 <sup>30</sup>	SEEP-526	Marko Agrež, Danijela Urbancl, Sanja Potrč, Darko Goričanec <b>HEATING VALUE OF TORRIFIED OAK WOOD AND SEWAGE SLUDGE DEPENDING ON TEMPERATURE</b>
15 <sup>30</sup>	15 <sup>45</sup>	SEEP-36	C. Rodriguez, Z. El-Hassan, A. G. Olabi <b>Enhanced methane production from waste paper through anaerobic co-digestion with macroalgae</b>
15 <sup>45</sup>	16 <sup>00</sup>	SEEP-40	Rafat Al Afif, Bernd Linke <b>Biogas production from three-phase olive mill solid waste in lab-scale Continuously Stirred Tank Reactor</b>
16 <sup>00</sup>	16 <sup>15</sup>	SEEP-252	Angel M. Lopez-Hidalgo, Zazil D. Alvarado-Cuevas, José T. Salas, Antonio De Leon-Rodriguez <b>Optimization of the biohydrogen production by anaerobic granular sludge using mixtures of wheat straw hydrolysate and cheese whey as substrates</b>
16 <sup>15</sup>	16 <sup>30</sup>	SEEP-132	A.V. Chistyakov, P.A. Zharova, S.A. Nikolaev, M.V. Tsodikov, F. Manenti <b>1-Butanol synthesis from supercritical ethanol over Cu-containing catalysts</b>
16 <sup>30</sup>	17 <sup>00</sup>	Coffee break – Foyer Jupiter 1	

**Session 3: Bioenergy and biofuels – Hall Libertas**

**Chair: Prof. dr. Abdul Ghani Olabi**

17 <sup>00</sup>	17 <sup>15</sup>	SEEP-462	Merlin Raud, Klaus Krennhuber, Alexander Jäger, Timo Kikas <b>Comparative Study of Steam- and Nitrogen Explosion pretreatment methods</b>
17 <sup>15</sup>	17 <sup>30</sup>	SEEP-154	Francesco Ferella, Alessandro Puca, Katia Gallucci <b>UPGRADING OF BIOGAS TO BIOMETHANE: EXPERIMENTAL AND PROCESS ANALYSIS APPLIED TO AN INDUSTRIAL PLANT</b>
17 <sup>30</sup>	17 <sup>45</sup>	SEEP-134	Zharova P.A., Chistyakov A.V., Shapovalov S.S., Pasyanskiy A.A., Tsodikov M.V. <b>Original Pt-Sn/Al<sub>2</sub>O<sub>3</sub> catalyst for selective hydrodeoxygenation of vegetable oils</b>
17 <sup>45</sup>	18 <sup>00</sup>	SEEP-188	Kanpichcha Intaramas, Woranart Jonglertjunya, Navadol Laosiripojana, Chularat Sakdaronnarong <b>A kinetic study of cassava mash hydrolysis in a combination with solid state catalyst mixed-milling reaction</b>
18 <sup>00</sup>	18 <sup>15</sup>	SEEP-172	Fabio Codignole Luz, Stefano Cordiner, Alessandro Manni, Vincenzo Mulone, Vittorio Rocco, Roberto Braglia, Antonella Canini <b>AMPELODESMOS MAURITANICUS PYROLYSIS BIOCHAR IN ANAEROBIC DIGESTION PROCESS: EVALUATION OF THE BIOGAS YIELD</b>
18 <sup>15</sup>	18 <sup>30</sup>	SEEP-232	Hung-Lung Chiang, Kuo-Hsiung Lin, Jun-Yan Zeng, Nina Lai <b>Oil characteristics of biosludge pyrolysis by a microwave heating system</b>
18 <sup>30</sup>	18 <sup>45</sup>	SEEP-256	Bor-Yann Chen, Jia-Hui Liao, An-Wei Hsu, Chia-Chyi Wu, Chung-Chuan Hsueh <b>Bioreactor study of using medicinal herbs and edible flora to stimulate microbial fuel cells for electrochemically-steered bioremediation</b>

**Wednesday, 28<sup>th</sup> June 2017 – Hotel GOLF****Session 3: Bioenergy and biofuels – Hall Libertas****Chair: Prof. Dr. Duangkamol Na Ranong**

09 <sup>15</sup>	09 <sup>30</sup>	SEEP-365	Francisco García-Labiano, Alberto Abad, Teresa Mendiara, María Teresa Izquierdo, Pilar Gayán, Luis F. de Diego, Juan Adánez <b>Operational experience of biomass combustion using Chemical Looping processes</b>
09 <sup>30</sup>	09 <sup>45</sup>	SEEP-399	Katrin Heinsoo, Kadri Tali <b>Can various bioenergy technologies add value to each other?</b>
09 <sup>45</sup>	10 <sup>00</sup>	SEEP-85	Lugovoy Yu.V., Chalov K.V., Manaenkov O.V., Sulman E.M., Kosivtsov Yu.Yu. <b>Thermocatalytic Refining of Gaseous Products Produced by Fast Pyrolysis of Flax Shive</b>
10 <sup>00</sup>	10 <sup>15</sup>	SEEP-439	H. F. S. Freitas, J. E. Olivo, C. M. G. Andrade <b>OPTIMIZATION OF IN-SILICO ETHANOL PRODUCTION USING AN HYBRID EVOLUTIVE ALGORITHM</b>
10 <sup>45</sup>	11 <sup>15</sup>	Coffee break – Foyer Jupiter 1	

**Session 3: Bioenergy and biofuels – Hall Libertas****Chair: Prof. Dr. Rafat Al Afif**

11 <sup>15</sup>	11 <sup>30</sup>	SEEP-122	Duangkamol Na-Ranong, Suttirat Khambung , Pattarin Laungthaleongpong <b>Removal of steryl glucosides in biodiesel using diatomaceous earth as adsorbent</b>
11 <sup>30</sup>	11 <sup>45</sup>	SEEP-302	Nikolaus Schwaiger, Julia Außerleitner, Berndt Hammerschlag, Roland Nagl, Klaus Schlackl, Klara Treusch, Thomas Pichler, Peter Pucher, Matthäus Siebenhofer <b>Continuous hydrocarbon production by hydrodeoxygenation of liquid phase pyrolysis oil</b>
11 <sup>45</sup>	12 <sup>00</sup>	SEEP-290	Anna Magdalena Mauerhofer, Florian Benedikt, Johannes Christian Schmid, Hermann Hofbauer <b>Mixtures of Silica Sand and Calcite as Bed Material for Dual Fluidized Bed Steam Gasification</b>
12 <sup>00</sup>	12 <sup>15</sup>	SEEP-287	J. Fuchs, S. Müller, J.C. Schmid, H. Hofbauer, H. Stocker, N. Kieberger, T. Bürgler <b>SORPTION ENHANCED REFORMING OF DIFFERENT FUEL TYPES FOR THE PRODUCTION OF A HYDROGEN-RICH REDUCTION GAS</b>
12 <sup>15</sup>	12 <sup>30</sup>	SEEP-320	Pranjali D. Muley, Dorin Boldor <b>Advances in biomass pretreatment and cellulosic bioethanol production using microwave heating</b>
12 <sup>30</sup>	12 <sup>45</sup>	SEEP-386	M.V. Navarro, J.M. López, A. Veses, M.S. Callén, T. García <b>Kinetic study for co-pyrolysis of lignocellulosic biomass and plastics using the distributed activation energy model</b>

<b>Session 3: Bioenergy and biofuels – Hall Libertas</b>			
<b>Chair: Prof. Dr. William Roberts</b>			
15 <sup>00</sup>	15 <sup>15</sup>	SEEP-232	Hung-Lung Chiang, Kuo-Hsiung Lin, Jun-Yan Zeng, Nina Lai <b>Oil characteristics of biosludge pyrolysis by a microwave heating system</b>
15 <sup>15</sup>	15 <sup>30</sup>	SEEP-41	Rafat Al Afif, Martin Wendland, Christian Krapf, Thomas Amon, Christoph Pfeifer <b>Organosolv plus supercritical carbon dioxide pre-treatment of cotton stalks for methane production</b>
15 <sup>30</sup>	15 <sup>45</sup>	SEEP-372	Omar Aboelazayem, Mamdouh Gadalla, Basudeb Saha <b>Optimising biodiesel production from high acid value waste cooking oil using supercritical methanol</b>
15 <sup>45</sup>	16 <sup>00</sup>	SEEP-377	Omar Aboelazayem, Nour Sh. El-Gendy, Fatma H. Ashour, Mohamed A. Sadek <b>Complete analysis of castor oil methanolysis for biodiesel production</b>
16 <sup>00</sup>	16 <sup>15</sup>	SEEP-364	Teresa Mendiara, Iñaki Adánez-Rubio, Antón Pérez-Astray, María Teresa Izquierdo, Alberto Abad, Pilar Gayán, Luis F. de Diego, Francisco García-Labiano, Juan Adánez <b>Chemical Looping Combustion of biomass: CLOU experiments with a Cu-Mn mixed oxide</b>
16 <sup>15</sup>	16 <sup>30</sup>	SEEP-444	Akira Nordmeier, Dev Chidambaram <b>Use of biohybrid Materials to Enhance the Kinetics of Biofuel Production</b>
16 <sup>30</sup>	17 <sup>00</sup>	Coffee break – Foyer Jupiter 1	

<b>Session 3: Bioenergy and biofuels – Hall Libertas</b>			
<b>Chair: Prof. Dr. Hung-Lung Chiang</b>			
17 <sup>00</sup>	17 <sup>15</sup>	SEEP-446	E.L. Almeida, S.I. Gomes, C.M.G. Andrade, O.A.A. Santos <b>BIODIESEL PRODUCTION VERSUS BIOETHANOL PRODUCTION PROCESS</b>
17 <sup>15</sup>	17 <sup>30</sup>	SEEP-451	E.L. Almeida, C.M.G. Andrade, O.A.A. Santos <b>BIODIESEL PRODUCTION, ROUTES. A BRIEF REVIEW</b>
17 <sup>30</sup>	17 <sup>45</sup>	SEEP-438	H. F. S. Freitas, J. E. Olivo, C. M. G. Andrade, E.L. Almeida <b>MODELING AND OPTIMIZATION OF AN BIOHYDROGEN GENERATION PROCESS USING ARTIFICIAL NEURAL NETWORKS AND META-HEURISTIC ALGORITHMS</b>
17 <sup>45</sup>	18 <sup>00</sup>	SEEP-442	M. Y. G. De Giovanni, R. L. Acorsi, C. M. G. Andrade, J. E. Olivo, I. R. Fermo <b>MODELING THE PRODUCTION PROCESS OF BIOETHANOL IN FREE SOFTWARE USING METABOLIC PATHWAYS</b>
18 <sup>00</sup>	18 <sup>15</sup>	SEEP-437	M.V.R. Mari, J.M.R. Mari, M.C.S. Ferreira, W. A. S. Conceição, C.M.G. Andrade <b>BIOETHANOL PRODUCTION POWER PLANTS FROM SUGARCANE: FIRST AND SECOND GENERATION</b>
18 <sup>15</sup>	18 <sup>30</sup>	SEEP-435	J.M.R. Mari, M.V.R. MARI1, M.C.S. Ferreira, W.A.dos S. Conceição, C.M.G. Andrade, E.L. Almeida <b>PRELIMINARY EXERGY ANALYSIS OF BIODIESEL PRODUCTION ROUTES: A BRIEF REVIEW</b>
18 <sup>30</sup>	18 <sup>45</sup>	SEEP-426	Congjin Chen, Jingxian Zhu, Shuang Jia, Zhangfa Tong, Zhixia Li, Mingfei Li <b>Comparison on compositions of bio-oil derived from mulberry bark hydrothermal liquefaction in sub/critical-water and ethanol-water</b>
18 <sup>45</sup>	19 <sup>00</sup>	SEEP-419	Sheikh Adil Edrisi, P. C. Abhilash <b>Managing Soil Sustainability Indicators for Sustainable Biomass and Biofuel Production</b>

**Thursday, 29<sup>th</sup> June 2017 – Hotel KOMPAS**

**Session 3: Bioenergy and biofuels – Hall Rikli**

**Chair: Prof. dr. Zdravko Kravanja**

09 <sup>00</sup>	09 <sup>15</sup>	SEEP-284	Hoang Vu Ly, Seung-Soo Kim, Jinsoo Kim <b>Effect of dolomite catalyst on bio-oil production during pyrolysis of tulip tree (Liriodendron) in fluidized-bed reactor</b>
09 <sup>15</sup>	09 <sup>30</sup>	SEEP-76	Wan Adibah Wan Mahari , Nurfarain Nasuha Ab Razak, Cheng Chin Kui, Su Shiung Lam <b>MICROWAVE CO-PYROLYSIS OF WASTE COOKING OIL AND POLYSTYRENE-BASED PLASTIC WASTE</b>
09 <sup>30</sup>	09 <sup>45</sup>	SEEP-300	K. Dossuomov, G.Y.Yergazyeva, L.K.Myltykbayeva, N.A.Asanov, M.M.Telbayeva <b>CATALYTIC CONVERSION OF BIOGAS TO SYNTHESIS GAS</b>
09 <sup>45</sup>	10 <sup>00</sup>	SEEP-498	Mohamed Anouar Kamzon, Souad Abderafi, Tijani Bounahmidi <b>Study of the efficiency of co-culture fermentation systems at industrial scale, using simulation, for producing 2nd generation bioethanol</b>
10 <sup>00</sup>	10 <sup>15</sup>	SEEP-244	Nora Szarka, Daniela Thrän, Volker Lenz <b>GHG REDUCTION TARGETS IN GERMANY: 80 - 95% - WHAT DOES IT MEAN FOR BIOENERGY AND THE HEATING SECTOR IN PARTICULAR?</b>
10 <sup>15</sup>	10 <sup>30</sup>	SEEP-285	Jae Hyung Choi, Hee Chul Woo, Jinsoo Kim, Seung-Soo Kim <b>Fast pyrolysis of brown alga Saccharina japonica in a bubbling fluidized-bed reactor: Effects of anaerobic fermentation pretreatment</b>
10 <sup>30</sup>	11 <sup>00</sup>	Coffee break – Restaurant Hotel Kompas	

**Tuesday, 27<sup>th</sup> June 2017 – Hotel KOMPAS**

**Session 4: Modelling and Simulation – Hall Grajska**

**Chair: Dr. Matjaž Prek**

15 <sup>00</sup>	15 <sup>15</sup>	SEEP-255	Inga Zicmane, Kristina Berzina, Aleksejs Sobolevskis, Sergey Kovalenko <b>Wind Power Plant Influence On The Latvian EPS Stability</b>
15 <sup>15</sup>	15 <sup>30</sup>	SEEP-58	Amisha Chauhan, Sulaiman Almahmoud, Hussam Jouhara <b>CFD Modelling of a multipass heat pipe based heat exchanger.</b>
15 <sup>30</sup>	15 <sup>45</sup>	SEEP-112	Markus Tum, Julian Zeidler, Thomas Esch <b>Modelling Net Primary Productivity to assess Agricultural Bioenergy Potentials</b>
15 <sup>45</sup>	16 <sup>00</sup>	SEEP-180	Sergio Andres Morales Restrepo, Viatcheslav Kafarov, Daniel Ricardo Barragan Noriega <b>CFD SIMULATION OF COMBUSTION IN A FURNACE USING MIXTURE GASES WITH VARIABLE CALORIFIC VALUE</b>
16 <sup>00</sup>	16 <sup>15</sup>	SEEP-160	Fabio Codignole Luz, Stefano Cordiner, Alessandro Manni, Vincenzo Mulone, Vittorio Rocco <b>FAST PYROLYSIS IN A SHAFTLESS SCREW REACTOR: A 1-D NUMERICAL MODEL</b>
16 <sup>15</sup>	16 <sup>30</sup>	SEEP-310	Adriana Reveiu, Simona Vasilica Oprea, Adela Bara <b>Identifying Energy Consumers Behaviour by Using Energy Big Data Analytics</b>
16 <sup>30</sup>	17 <sup>00</sup>	Coffee break – Restaurant Hotel Kompas	

**Session 4: Modelling and Simulation – Hall Grajska**

**Chair: Prof. dr. Dr. Kristina Berzina**

17 <sup>00</sup>	17 <sup>15</sup>	SEEP-138	Matjaž Prek, Vincenc Butala, Gorazd Krese <b>Extracting knowledge from non-parametric models of climate-related building energy use</b>
17 <sup>15</sup>	17 <sup>30</sup>	SEEP-248	J. Kitson, S. J. Williamson, P. Harper, C. M. McMahon, G. Rosenberg, M. Tierney, K. Bell, B. Gautam <b>Modelling of an Expandable, Reconfigurable, Renewable DC Microgrid for Off-grid Communities</b>
17 <sup>30</sup>	17 <sup>45</sup>	SEEP-258	Gautam Choubey, K. M Pandey, Shambhawi , Sumit Bhowmik <b>Effect of strut + wall injection techniques on the flow-field of circular-shaped multi-strut scramjet combustor</b>
17 <sup>45</sup>	18 <sup>00</sup>	SEEP-353	Obula Reddy Kummitha, K.M. Pandey, Rajat Gupta <b>Numerical Analysis of Scramjet Combustor with Innovative Designs of Strut Injector</b>
18 <sup>00</sup>	18 <sup>15</sup>	SEEP-374	Taehoon Hong, Chanjoong kim, Jimin Kim, Myeonghwi Lee, Jaemin Jeong, Kwangbok Jeong <b>Development of an energy simulation-occupant behavior coupling model to reduce building energy consumption</b>
18 <sup>15</sup>	18 <sup>30</sup>	SEEP-394	Federico Pugliese, Gabriele Moser, Andrea Trucco, Valter Mantelli, Paola Costamagna <b>Full-Size NGRS Reactor for Hydrogen Production: Steady-State and Transient Simulation Devoted to Diagnosis and Prognosis of Carbon Deposition</b>
18 <sup>30</sup>	18 <sup>45</sup>	SEEP-525	Mohamed Labeled , Nouredine Sengouga, Slimane Chala <b>EFFECT OF INSULATORS ON THE a-IGZO TFT PERFORMANCE</b>
18 <sup>45</sup>	19 <sup>00</sup>	SEEP-499	Wanthana Chaiwang, Apichaya Theampetch, Nutthawoot Jermkwan, Thana Sornchamni, Phavane Narataruksa, Chaiwat Prapainainar <b>Effect of Flow Direction and Operating Condition of Cooling Stream on Fischer-Tropsch Synthesis Performance in Catalytic Micro-based Reactor</b>

**Wednesday, 28<sup>th</sup> June 2017 – Hotel KOMPAS****Session 4: Modelling and Simulation – Hall Grajska****Chair: Prof. Dr. Rene Hofmann**

09 <sup>15</sup>	09 <sup>30</sup>	SEEP-74	Hancheng Dai , Yang Xie, Yanxu Zhang <b>The health and economic benefits of developing renewable energy in China towards 2030</b>
09 <sup>30</sup>	09 <sup>45</sup>	SEEP-468	Victor Geanta, Ionelia Voiculescu, Dan Adrian Jianu, Horia Binchiciu <b>Effects of Zirconium on Microstructure and Mechanical Properties of FeCrAl Alloys for Nuclear Power Plant 4R Generation</b>
09 <sup>45</sup>	10 <sup>00</sup>	SEEP-330	Lucas Bonfim Rocha, Laureano Jiménez Esteller, Marcelino Luiz Gimenes, Sérgio Henrique Bernardo de Faria, Thiago dos Santos Cavali, Cid Marcos Gonçalves andrade <b>MODELLING AND SCALE-UP OF HYDROGEN PRODUCTION BY ELECTROLYZERS FOR INDUSTRIAL APPLICATIONS</b>
10 <sup>00</sup>	10 <sup>15</sup>	SEEP-32	Rene Hofmann, Paul Linzner, Heimo Walter, Thomas Will, <b>New Approximation Algorithms for the Fast Direct Determination of State Functions of Water and Steam</b>
10 <sup>15</sup>	10 <sup>30</sup>	SEEP-157	Matjaž Prek, Vincenc Butala, Gorazd Krese <b>Optimization-based determination of a building's instantaneous base temperature</b>
10 <sup>30</sup>	10 <sup>45</sup>	SEEP-500	Piyanut Inbamrung, Sabaihip Tungkamani, Chaiwat Prapainainar, Goran N. Jovanovic, Thana Sornchamni, Phavanee Narataruksa <b>Modeling of Monolith Reactor for Steam Methane Reforming: Comparison between Surface Reaction Model and Thin Catalyst Layer Model</b>
10 <sup>45</sup>	11 <sup>15</sup>	Coffee break – Restaurant Hotel Kompas	

<b>Session 4: Modelling and Simulation – Hall Grajska</b>			
<b>Chair: Prof. dr. Niko Samec</b>			
11 <sup>15</sup>	11 <sup>30</sup>	SEEP-209	Manuel Mohr, Marko Klančičar, Tim Schloen, Niko Samec, Filip Kokalj <b>NUMERICAL ANALYSIS OF A NON STEADY STATE PHENOMENON DURING THE GAS IGNITION PROCESS IN THE CONDENSING BOILER</b>
11 <sup>30</sup>	11 <sup>45</sup>	SEEP-376	Riad Ramadani, Stanislav Pehan, Aleš Belšak <b>METHODOLOGY FOR DETERMINING THE PROPAGATION OF THE VIBRATION THROUGH THE GEAR BODY</b>
11 <sup>45</sup>	12 <sup>00</sup>	SEEP-422	Eva König, Botond Bertok <b>Automated Scenario Generation by P-graphs</b>
12 <sup>00</sup>	12 <sup>15</sup>	SEEP-472	Khuram Pervez Amber, Muhammad Waqar Aslam, Anila Kousar, Muhammad Yamin younis, Syed Kashif Hussain, Bilal Akbar <b>Using Multiple Regression Technique for Forecasting Energy Consumption of University Sector Buildings</b>
12 <sup>15</sup>	12 <sup>30</sup>	SEEP-183	Jouan Rashidi, Pouya Ifaei, ChangKyoo Yoo, Jeong Tai Kim <b>Energy recovery optimization of an ammonia-water power cooling cycle using exergy-pinch method</b>
12 <sup>30</sup>	12 <sup>45</sup>	SEEP-303	Slimane Chala, Nouredine Sengouga, Fahrettin Yakuphanoglu, Saâd Rahmane, Madani Bdirina, İbrahim Karteri <b>EXTRACTION OF ZnO THIN FILM PARAMETERS FOR ZnO/Si SOLAR CELLS MODELLING</b>

**Tuesday, 27<sup>th</sup> June 2017 – Hotel KOMPAS**

**Session 5: Environmental management – Hall Triglavska**

**Chair: Prof. Dr. Gregor Radonjič**

15 <sup>00</sup>	15 <sup>15</sup>	SEEP-271	Nurettin Sezer, Zafer Evis, Muammer Koc <b>Management of Desalination Brine in Qatar and the GCC Countries</b>
15 <sup>15</sup>	15 <sup>30</sup>	SEEP-59	Rok Stropnik, Mihael Sekavčnik, , Mitja Mori <b>Reducing environmental impacts of a UPS system based on polymer membrane fuel cell with circular economy</b>
15 <sup>30</sup>	15 <sup>45</sup>	SEEP-206	Rok Stropnik, Andrej Lotrič, Boštjan Drobnič, Boštjan Jurjevčič, Mihael Sekavčnik, Mitja Mori <b>Assessment of critical materials and components in FCH technologies to improve LCIA in end of life strategies</b>
15 <sup>45</sup>	16 <sup>00</sup>	SEEP-270	Fouad Al Mansour, Viktor Jejčič, Tomaž Poje <b>Carbon footprint of final food products</b>
16 <sup>00</sup>	16 <sup>15</sup>	SEEP-105	Yang Xie, Hancheng Dai, Yanxu Zhang, Tatsuya Hanaoka , Toshihiko Masui <b>Health and Economic Impacts of Ozone Pollution in China: a provincial level analysis</b>
16 <sup>15</sup>	16 <sup>30</sup>	SEEP-106	Ching-Chih Chang, Ming-Hsi Wu <b>An analysis of carbon and the water footprint in the white shrimp aquaculture industry in Taiwan</b>
16 <sup>30</sup>	17 <sup>00</sup>	Coffee break – Restaurant Hotel Kompas	

**Session 5: Environmental management – Hall Triglavska**

**Chair: Prof. Dr. Waldo Bustamante**

17 <sup>00</sup>	17 <sup>15</sup>	SEEP-519	Saša Tompa, Gregor Radonjič <b>Carbon footprint calculation as a tool for energy efficiency support in telecommunications company</b>
17 <sup>15</sup>	17 <sup>30</sup>	SEEP-155	Magda Helena Barecka, Aleksandra Ziemińska-Stolarska, Ireneusz Zbiciński <b>LCA analysis for alternative materials for tin doped indium oxide (ITO) used in electronics industry for sustainable energy production</b>
17 <sup>30</sup>	17 <sup>45</sup>	SEEP-241	Michał Krzyżaniak, Mariusz J. Stolarski <b>Life Cycle Assessment of oil crops production for modern biorefinery: impact of different functional units</b>
17 <sup>45</sup>	18 <sup>00</sup>	SEEP-113	Milan Janic <b>GREENING” COMMERCIAL AIR TRANSPORTATION: AN ASSESSMENT OF THE POTENTIAL OF ALTERNATIVE FUELS</b>
18 <sup>00</sup>	18 <sup>15</sup>	SEEP-517	Žan Zore, Lidija Čuček, Zorka Novak Pintarič, Zdravko Kravanja <b>Composite Monetary-based Criteria of Sustainability and their Application to Supply Network Synthesis Problems</b>
18 <sup>15</sup>	18 <sup>30</sup>	SEEP-407	Liang Guo, Wanchen Sun, Peng Cheng, Shuguang Zhang <b>EFFECT OF EGR ON COMBUSTION AND EMISSION OF AN ENGINE FUELED WITH CTL/DIESEL BLENDED FUEL</b>
18 <sup>30</sup>	18 <sup>45</sup>	SEEP-247	Slimen Attyaoui , Mohamed-Toumi Nasri, Mohamed-Ali Rezgui <b>Equivalence Classes of Elastoplastic Damage Constitutive Laws Based on shape indexes of the experimental test curves</b>
18 <sup>45</sup>	19 <sup>00</sup>	SEEP-342	Ratanaporn Yuangsawad, Sunisa Chuenta and Vantanee Khampituk <b>REMOVAL OF CHROMIUM ION IN WASTEWATER USING CHITOSAN DERIVED FROM SHRIMP SHELL WASTES</b>
19 <sup>15</sup>	19 <sup>15</sup>	SEEP-494	Waldo Bustamante, Héctor Jorquera, Felipe Encinas, Sergio Vera, Manuel Brahm <b>Environmental impacts of thermal performance improvement in Chilean residential buildings</b>



<b>Wednesday, 28<sup>th</sup> June 2017 – Hotel KOMPAS</b>			
<b>Session 5: Environmental management – Hall Triglavska</b>			
<b>Chair: Dr. Reinier Van Der Veen</b>			
09 <sup>15</sup>	09 <sup>30</sup>	SEEP-511	Pilar Gargallo , Nieves García-Casarejos, Javier Carroquino <b>RENEWABLE ENERGY IN THE WINE SECTOR AND ITS SOCIOECONOMIC AND ENVIRONMENTAL EFFECTS</b>
09 <sup>30</sup>	09 <sup>45</sup>	SEEP-127	Zain Zia, Furqan Ali Sheikh <b>Economic and Environmental Impact Assessment of Microgrid for Rural Areas of Pakistan</b>
09 <sup>45</sup>	10 <sup>00</sup>	SEEP-149	S. Alhabsi, Z. Al-Kindi, Z. Al-Khanjari, R. Alhabsi <b>Internet of Things Innovation on Efficient Control of Water Consumption: (IDrop W)</b>
10 <sup>00</sup>	10 <sup>15</sup>	SEEP-274	Kirsti Jylhä, Milla Johansson, Matti Kämäräinen, Havu Pellikka, Ulpu Leijala, Carl Fortelius, Hilppa Gregow, Ari Venäläinen <b>Researching extreme weather and sea level events to support nuclear power plant safety in Finland</b>
10 <sup>15</sup>	10 <sup>30</sup>	SEEP-30	Vesna Žegarac Leskovar , Maja Žigart, Rebeka Kovačič Lukman, Maja Lešnik, Miroslav Premrov <b>Rating the environmental quality of buildings for different building geometries</b>
10 <sup>30</sup>	10 <sup>45</sup>	SEEP-507	Vito Tič, Darko Lovrec <b>Remodelling lubricant maintenance strategy with aid of lubricant condition monitoring</b>
10 <sup>45</sup>	11 <sup>15</sup>	Coffee break – Restaurant Hotel Kompas	

<b>Wednesday, 28<sup>th</sup> June 2017 – Hotel KOMPAS</b>			
<b>Session 6: Hydrogen and Fuel Cells – Hall Jezerska</b>			
<b>Chair: dr. Alan Kabanshi</b>			
09 <sup>15</sup>	09 <sup>30</sup>	SEEP-64	Tabbi Wilberforce, Ahmed Al Makky, Zaki El Hassan A. Baroutaji, Rubal Sambhi, A. G. Olabi <b>DESIGN OF PEM FUEL CELL USING ALUMINIUM OPEN PORE CELLULAR FLOW PLATE MATERIAL (OPCFM).</b>
09 <sup>30</sup>	09 <sup>45</sup>	SEEP-63	Tabbi Wilberforce, Ahmed Al Makky, A. Baroutaji, Rubal Sambhi, A. G. Olabi <b>ANALYSIS OF PEM FLOW PLATE DESIGNS THROUGH DESIGN OF EXPERIMENT(DOE)</b>
09 <sup>45</sup>	10 <sup>00</sup>	SEEP-166	V.A. Sadykov, A.V. Krasnov, Yu.E. Fedorova, A.I. Lukashovich, N.F. Ereemeev, P.I. Skriabin, K.R. Valeev, O.L. Smorygo <b>Novel nanocomposite materials for oxygen separation membranes</b>
10 <sup>00</sup>	10 <sup>15</sup>	SEEP-165	Vladislav Sadykov, Elena Pikalova, Alexander Kolchugin, Nikita Ereemeev, Nina Bogdanovich, Azat Khasanov, Pavel Skriabin, Alexey Krasnov, Ekaterina Sadovskaya, Alexander Shmakov, Zakhar Vinokurov, Arcady Ishchenko, Sergey Pikalov, Elena Filonova <b>Transport properties of Ca-doped Ln<sub>2</sub>NiO<sub>4</sub></b>
10 <sup>15</sup>	10 <sup>30</sup>	SEEP-263	Antonio L. Tomas-Garcia, Mojtaba Mirzaeian, Greig Chisholm, Abdul G. Olabi <b>Design and testing of a single-cell PEM electrolyser for small-scale hydrogen production under mild conditions</b>
10 <sup>45</sup>	11 <sup>15</sup>	Coffee break – Restaurant Hotel Kompas	

<b>Session 6: Hydrogen and Fuel Cells – Hall Jezerska</b>			
<b>Chair: Prof. dr. Lidija Čuček</b>			
11 <sup>15</sup>	11 <sup>30</sup>	SEEP-119	Nuttapol Limjeerajarus, Thatphong Santiprasertkul <b>Improvement of a Hybrid Serpentine-Interdigitated Flow Field by Adjusting Numbers of Inlet and Outlet gas Gas Flow Channels</b>
11 <sup>30</sup>	11 <sup>45</sup>	SEEP-135	Andrej Lotrič, Mihael Sekavčnik, Andrej Pohar, Blaž Likozar, Stanko Hočevar <b>Concept of an Integrated Thermally Self-Sustained Methanol Steam Reformer – High-Temperature PEM Fuel Cell Stack Manportable System</b>
11 <sup>45</sup>	12 <sup>00</sup>	SEEP-282	Tadej Auer, Mike Small <b>European-wide field trials for residential fuel cell micro-CHP</b>
12 <sup>00</sup>	12 <sup>15</sup>	SEEP-506	Abdulrahman Al-Anazi, Emmanuel Ogungbemi, Awortwe Wilberforce, O. Ijaodola, Parag Vichare, Abdul Ghani Olabi <b>State of the art manufacturing technologies of PEMFC</b>
12 <sup>15</sup>	12 <sup>30</sup>	SEEP-291	Sang Yong Nam, Tae Yang Son, Byeol Nim Lee, Chi Hoon Park <b>PEEK(poly(ether ether ketone)) based anion exchange membranes for the application of alkaline fuel cell</b>
12 <sup>30</sup>	12 <sup>45</sup>	SEEP-185	Seongyong Eom, Seongyool Ahn, Gyungmin Choi, Duckjool Kim <b>Electrochemical Resistance Reduction by Acid Treatment of Coal in Direct Carbon Fuel Cell</b>
12 <sup>45</sup>	13 <sup>00</sup>	SEEP-391	Reinier van der Veen, Remco Verzijlbergh, Zofia Lukszo <b>Business model analysis of energy storage in a car park using electrolysis, hydrogen storage and fuel cell electric vehicles</b>

<b>Session 6: Hydrogen and Fuel Cells – Hall Jezerska</b>			
<b>Chair: Prof. dr. Miralem Hadziselimović</b>			
15 <sup>00</sup>	15 <sup>15</sup>	SEEP-316	K.Z.Chen, L.P.Zhong, Y.M.Luo <b>THE EFFECT OF CHLORIDE IRON IN SN DOPED CUO-CEO2 CATALYSTS FOR CO PREFERENTIAL OXIDATION (CO-PROX) IN H2-RICH STREAM</b>
15 <sup>15</sup>	15 <sup>30</sup>	SEEP-77	Giovanni Carollo, Alberto Garbujo, Davide Ferri, Marta Maria Natile, Antonella Glisenti <b>Cu/CGO cermet based electrodes for Symmetric and Reversible Solid Oxide Fuel Cells</b>
15 <sup>30</sup>	15 <sup>45</sup>	SEEP-37	Georg W. Mair, Ben Becker, Sebastian John, Eric Duffner, Irene Scholz <b>COMPOSITE STORAGE SYSTEMS FOR COM-PRESSED HYDROGEN - SYSTEMATIC IMPROVEMENT OF REGULATIONS FOR MORE ATTRACTIVE STORAGE UNITS</b>
15 <sup>45</sup>	16 <sup>00</sup>	SEEP-69	Elena Pikalova, Nina Bogdanovich, Alexander Kolchugin, Dmitry Medvedev, Larisa Vedmid', Sergey Pikalov, Sergey Plaksin <b>Development of Pr<sub>2-x</sub>CaxNiO<sub>4+δ</sub> cathode materials for IT-SOFCs based on oxygen-ion and proton-conducting solid state electrolytes</b>
16 <sup>00</sup>	16 <sup>15</sup>	SEEP-389	Masoud Rokni <b>Design of a Polygeneration Plant based on Solar Power and Solid Oxide Cells with Desalination Plant</b>
16 <sup>15</sup>	16 <sup>30</sup>	SEEP-314	L. P. Zhong,, D. K. Chen,, K. Z. Chen, J. C. Lu, J. Wang, Y.M. Luo <b>RAPID SYNTHESIS OF Co/CeO<sub>2</sub> NANOPARTICLES FOR SELECTIVE OXIDATION OF CARBON MONOXIDE IN H<sub>2</sub>-RICH STREAM</b>
16 <sup>30</sup>	17 <sup>00</sup>	Coffee break – Restaurant Hotel Kompas	

**Thursday, 29<sup>th</sup> June 2017 – Hotel KOMPAS****Session 6: Hydrogen and Fuel Cells – Hall Rikli****Chair: Prof. dr. Abdul Ghani Olabi**

11 <sup>15</sup>	11 <sup>30</sup>	SEEP-212	Arley Johany Cardona Vargas, Alex Mauricio García Vergara, Fabián Esneider Cano Ardila, Hernando Alexander Yepes Tumay, Carlos Ernesto Arrieta Gonzales, Andrés Adolfo Amell Arrieta <b>Turbulent Burning Velocity of Mixture of Methane and a High Hydrogen Content Syngas</b>
11 <sup>30</sup>	11 <sup>45</sup>	SEEP-477	Mahmoud Khaled, Mohamad Ramadan, Ahmad Haddad, Haitham Ramadan, Mohamaed Becherif <b>Investigation on the coupling of fuel cell with photovoltaic and parabolic trough solar systems.</b>
11 <sup>45</sup>	12 <sup>00</sup>	SEEP-523	Jonghoon Kim <b>Electrochemical Analysis of Experimental Output Voltage for PEMFC based on the MVDWT</b>

**Wednesday, 28<sup>th</sup> June 2017 – Hotel KOMPAS****Session 7: Energy storage – Hall Triglavska****Chair: Prof. dr. Staniša Stojilković**

11 <sup>15</sup>	11 <sup>30</sup>	SEEP-277	Ioan Sarbu, Calin Sebarchievici <b>A REVIEW ON THERMAL ENERGY STORAGE OF SOLAR ENERGY</b>
11 <sup>30</sup>	11 <sup>45</sup>	SEEP-370	Victor Onyenkeadi, Dr. Suela Kellici, Prof. Basu Saha <b>Greener synthesis of 1,2-butylene carbonate from CO<sub>2</sub> using graphene-inorganic nanocomposite catalysts</b>
11 <sup>45</sup>	12 <sup>00</sup>	SEEP-411	Yago Magan Montoto, Michael Schnürch, Daniel Lager, Florian Hengstberger, Christoph Zauner, Jörg Kowalczyk, Ulf Strijowski <b>Sugar alcohols and synthetic derivatives as phase change materials</b>
12 <sup>00</sup>	12 <sup>15</sup>	SEEP-229	H.Benzidi, O. Mounkachi, A. Benyoussef, A. El Kenz <b>Arsenic 2D a new anode material for rechargeable batteries</b>
12 <sup>15</sup>	12 <sup>30</sup>	SEEP-387	R.G. Charles, M.L. Davies, P. Douglas, S.M. Atiemo, M. Bates, A. Clews, I. Mabbett, B.S. Martincigh, E.T. Mombeshora, V.O. Nyamori <b>Sustainable Solar Energy Storage for Rural Africa</b>

**Session 7: Energy storage – Hall Triglavska****Chair: Prof. dr. Stane Božičnik**

15 <sup>00</sup>	15 <sup>15</sup>	SEEP-35	Uroš Stritih, Halime Paksoy <b>Energy analysis of a complex heating system with phase change material (PCM) thermal storage in different climatic conditions</b>
15 <sup>15</sup>	15 <sup>30</sup>	SEEP-187	Uroš Stritih, Vincenc Butala, Rok Stropnik, Urška Mlakar <b>Numerical modelling of sorption systems for seasonal solar energy storage</b>
15 <sup>30</sup>	15 <sup>45</sup>	SEEP-227	Milena Stojilković, Staniša Stojilković, Saša Savić, Sanja Petrović, Mirjana Reljić <b>Thermal energy storage composites based on clay and phase change materials</b>
15 <sup>45</sup>	16 <sup>00</sup>	SEEP-61	Jorge Omar Gil Posada, Peter J. Hall <b>Iron-Copper Based Anode for Large Scale Energy Storage</b>
16 <sup>00</sup>	16 <sup>15</sup>	SEEP-62	Jorge Omar Gil Posada, Peter J. Hall, Ismael Rivera, J. G. Rivera Berrio <b>Towards the development of commercially viable grid connected batteries</b>
16 <sup>30</sup>	17 <sup>00</sup>	Coffee break – Restaurant Hotel Kompas	

<b>Session 7: Energy storage – Hall Triglavska</b>			
<b>Chair: Dr. JORGE OMAR GIL POSADA</b>			
17 <sup>00</sup>	17 <sup>15</sup>	SEEP-128	M. Hameter, M. Bösvarth and H. Walter <b>Transient Numerical Analysis of a Finned Tube Design with Combined Longitudinal and Transversal Fins for Latent Thermal Energy Storage Devices</b>
17 <sup>15</sup>	17 <sup>30</sup>	SEEP-236	Flavien Ivöl, Johan Jacquemin , Fouad Ghamouss <b>Binary mixtures of ionic liquids (ILs) and aliphatic nitrile solvents as electrolytes for supercapacitors</b>
17 <sup>30</sup>	17 <sup>45</sup>	SEEP-139	Florian Hengstberger, Christoph Zauner <b>Materials selection for thermal energy storage: How to increase the thermal conductivity of phase change materials</b>
17 <sup>45</sup>	18 <sup>00</sup>	SEEP-141	F. Mayrhuber, H. Walter, M. Hameter <b>Experimental and Numerical Investigation on a Fixed Bed Regenerator</b>
18 <sup>00</sup>	18 <sup>15</sup>	SEEP-224	Qaisar Abbas, Mojtaba Mirzaeian, Abraham A Ogwu <b>Improving the capacitance of resorcinol- formaldehyde based carbon aerogels by CO<sub>2</sub> activation</b>
18 <sup>15</sup>	18 <sup>30</sup>	SEEP-275	Kittima Ngamsai , Amornchai Arpornwichanop <b>Electrochemical modeling and overcharging investigation of the vanadium redox flow battery</b>
18 <sup>30</sup>	18 <sup>45</sup>	SEEP-345	Janna V. Veselovskaya, Anton I. Lysikov, Olga V. Netskina, Lidiya S. Kibis, Aleksey G. Okunev <b>Methane Production from Atmospheric Carbon Dioxide Utilizing Renewable Energy</b>

**Wednesday, 28<sup>th</sup> June 2017 – Hotel KOMPAS****Session 8: Materials – Hall Grajska****Chair: Prof. Dr. Maša Knez Hrnčič**

17 <sup>00</sup>	17 <sup>15</sup>	SEEP-53	Maša Knez Hrnčič, Gregor Kravanja, Željko Knez <b>Low energy processing of polymeric materials</b>
17 <sup>15</sup>	17 <sup>30</sup>	SEEP-191	Debraj Chandra, Tsubasa Sato, Ryouchi Takeuchi, Dong Li, Kenji Saito, Tatsuto Yui, Masayuki Yagi <b>Facile fabrication of a mesoporous IrOx film formed by nanoparticles assembly for efficient electrocatalytic water oxidation</b>
17 <sup>30</sup>	17 <sup>45</sup>	SEEP-70	Julia Lyagaeva, Elena Pikalova, Nikolai Danilov, Dmitry Medvedev, Anatoly Demin, Panagiotis Tsiakaras <b>Perspective BaCe0.5Zr0.3Ln0.2O3-δ (Ln =Y, Dy, Gd, Sm and Nd) proton-conducting electrolytes for solid oxide fuel cells</b>
17 <sup>45</sup>	18 <sup>00</sup>	SEEP-48	Maja Žigart, Rebeka Lukman Kovačič, Miroslav Premrov, Vesna Žegarac Leskovar <b>Comparison of building materials for low-rise buildings based on environmental footprint</b>
18 <sup>00</sup>	18 <sup>15</sup>	SEEP-504	Darko Lovrec, Vito Tič <b>Energy saving novel lubricants</b>
18 <sup>15</sup>	18 <sup>30</sup>	SEEP-234	Jaime Rodriguez-Trobajo, Elena Rodriguez, Roberto Garcia, Maria Antonia Lopez-Anton, Maria Rosa Martinez-Tarazona <b>CARBON-BASED SORBENTS IMPEGNATED WITH IRON OXIDES FOR REMOVING MERCURY FROM ENERGY GENERATION PROCESSES</b>
18 <sup>30</sup>	18 <sup>45</sup>	SEEP-233	Cristina Antuña, Elena Rodriguez, Maria Antonia Lopez-Anton, Roberto Garcia, Maria Rosa Martinez-Tarazona <b>A candidate material for mercury control from processes for energy production: carbon foams loaded with gold</b>
18 <sup>45</sup>	19 <sup>00</sup>	SEEP-93	Ivan Ristić, Milovan Jotanović, Ljubiša Nikolić, Tamara Erceg, Suzana Cakić, Vladan Mičić, Stefan Pavlović <b>Microwave-assisted polymerisation as energy efficient method for the synthesis of poly(lactide)</b>

**Thursday, 29<sup>th</sup> June 2017 – Hotel KOMPAS****Session 8: Materials – Hall Grajska****Chair: Prof. Dr. Masayuki Yagi**

11 <sup>15</sup>	11 <sup>30</sup>	SEEP-108	Indrit Vozga, Jorgaq Kaçani <b>Composition and application of Micro-Electro-Mechanical Systems (MEMS)</b>
11 <sup>30</sup>	11 <sup>45</sup>	SEEP-299	Jinsoo Kim, Kyungmin Im, Jae Hyung Choi, Hoang Vu Ly, Seung-Soo Kim, Chul-Woo Nam, Sung-Don Kim, Hyung-Kyu Park <b>Spray pyrolysis synthesis of mesoporous gamma-Al<sub>2</sub>O<sub>3</sub> supported metal and metal phosphide catalysts and their catalytic activity</b>
11 <sup>45</sup>	12 <sup>00</sup>	SEEP-83	Ajit Sharma, Byeong-Kyu Lee <b>Methanol an energy source production by reduction of CO<sub>2</sub> under visible light irradiation using Fe<sub>2</sub>O<sub>3</sub>/TiO<sub>2</sub> nanotube immobilized activated carbon fiber</b>
12 <sup>00</sup>	12 <sup>15</sup>	SEEP-147	Zineb Kerrami, Anass Sibari, Omar Mounkachi, Abdelilah Benyoussef, Mohammed Benaissa <b>Potential of Strained SnO<sub>2</sub> as a Photo-Catalyst for Water Splitting Process</b>
12 <sup>15</sup>	12 <sup>30</sup>	SEEP-144	Anass Sibari, Zineb Kerrami, Omar Mounkachi, Abdelilah Benyoussef, Mohammed Benaissa <b>Bandgap engineering of Phosphorene-based nanostructures</b>
12 <sup>30</sup>	12 <sup>45</sup>	SEEP-375	Riad Ramadani, Aleš Belšak, Marko Kegl, Jožef Predan, Stanislav Pehan <b>GEAR BODY STRUCTURE DESIGN TO LOWER VIBRATION EMISSION</b>

**Tuesday, 27<sup>th</sup> June 2017 – Hotel KOMPAS**

**Session 9: Water and Air Quality – Hall Rikli**

**Chair: Prof. Dr. Bekir Zühtü Uysal**

15 <sup>00</sup>	15 <sup>15</sup>	SEEP-486	V.A. Devisilov, D.A. Zhidkov <b>APPLICATION OF VORTEX TECHNOLOGY FOR PURIFICATION OF VINYL CHLORIDE PRODUCTION WASTE GASES</b>
15 <sup>15</sup>	15 <sup>30</sup>	SEEP-189	Duygu Uysal, Javid Safarov, Özkan Murat Doğan, Egon Hassel, Bekir Zühtü Uysal <b>TOTAL CARBON DIOXIDE ABSORPTION CAPACITY OF CALCIUM ACETATE SOLUTION</b>
15 <sup>30</sup>	15 <sup>45</sup>	SEEP-259	Khagani Suleymanli, Duygu Uysal, Rena Hamidova, Abilgani Aliyev, Javid Safarov, Astan Shahverdiyev, Egon Hassel <b>HEAT CAPACITY AND SPEED OF SOUND OF 1-BUTYL-3-METHYLIMIDAZOLIUM HEXAFLUORO-PHOSPHATE AND 1-BUTYL-3-METHYLIMIDAZOLIUM TRIFLUOROMETHANESULFONATE OVER WIDE RANGE OF TEMPERATURE</b>
15 <sup>45</sup>	16 <sup>00</sup>	SEEP-418	Paulo Henrique Soares, Rubens Z. Sakiyama, Cid Marcos G. Andrade <b>A PLATFORM FOR AIR QUALITY MONITORING USING WIRELESS SENSOR NETWORK - A BRIEF REVIEW</b>
16 <sup>00</sup>	16 <sup>15</sup>	SEEP-327	Roberto San Jose, Juan L. Perez, Libia Perez, Rosa M. Gonzalez-Barras <b>EFFECTS OF CLIMATE CHANGE ON THE HEALTH OF CITIZENS MODELLING URBAN WEATHER AND AIR POLLUTION</b>
16 <sup>15</sup>	16 <sup>30</sup>	SEEP-49	Mokhless Boukhriss, Kamel Zarzoumi, Habib Ben Bacha <b>Air Gap Membrane Distillation: Study of Modeling and Simulation</b>
16 <sup>30</sup>	17 <sup>00</sup>	Coffee break – Restaurant Hotel Kompas	

**Session 9: Water and Air Quality – Hall Rikli**

**Chair: Prof. Dr. Roberto San Jose**

17 <sup>00</sup>	17 <sup>15</sup>	SEEP-186	Özgü Yörük, Duygu Uysal, Bekir Zühtü Uysal <b>CAPTURING SULFUR DIOXIDE FROM FLUE GAS BY IRON (II) HYDROXIDE</b>
17 <sup>15</sup>	17 <sup>30</sup>	SEEP-334	R.Z. Sakiyama, P.H. Soares, L.B.R.Aylon, C.M.G. Andrade <b>WATER QUALITY MONITORING USING A WIRELESS SENSOR NETWORK - A BRIEF REVIEW</b>
17 <sup>30</sup>	17 <sup>45</sup>	SEEP-46	Abdulrahman Alkateeb, Ayman M. Elbaz, Jianguo Du, William. L. Roberts <b>PM from the combustion of Heavy Fuel Oils</b>
17 <sup>45</sup>	18 <sup>00</sup>	SEEP-292	Sang Yong Nam, Tae Yang Son, Byeol Nim Lee, Chi Hoon Park, Elena Tocci <b>Preparation and characterization of membranes for gas separation using poly(ether ether ketone) containing imidazole moiety</b>
18 <sup>00</sup>	18 <sup>15</sup>	SEEP-492	Zdravko Praunseis, Sebastijan Seme, Bojan Štumberger, Miralem Hadžiselimović <b>THE INFLUENCE OF DAMAGED TUBULAR COMBUSTION CHAMBER ON SMOKE PARTICLE EMISSIONS AT THE PELLETS BURNERS</b>
18 <sup>15</sup>	18 <sup>30</sup>	SEEP-228	Milena Stojiljković, Sanja Petrović, Saša Savić, Staniša Stojiljković, Bratislav Todorović <b>Removal of As<sup>3+</sup> ions from water solutions by adsorption on clay and activated carbon</b>

**Wednesday, 28<sup>th</sup> June 2017 – Hotel KOMPAS****Session 10: Energy Management and Policies – Hall Rikli****Chair: dr. Peter Trop**

15 <sup>00</sup>	15 <sup>15</sup>	SEEP-325	Bing Gong, Guo Qing, Joaquin Ordieres-Meré, Xiaochen Zheng <b>Patterns of energy consumption, GDP and CO2 emission in China</b>
15 <sup>15</sup>	15 <sup>30</sup>	SEEP-47	Noel Finnerty, Raymond Sterling, Sergio Contreras , Daniel Coakley, Marcus Keane <b>DEVELOPMENT OF A GLOBAL ENERGY MANAGEMENT SYSTEM FOR NON-ENERGY INTENSIVE MULTI-SITE INDUSTRIAL ORGANISATIONS: POLICY AND ENERGY STRATEGY</b>
15 <sup>30</sup>	15 <sup>45</sup>	SEEP-51	Sergio Contreras, Noel Finnerty, Raymond Sterling, Daniel Coakley, Marcus Keane <b>DEVELOPMENT OF A GLOBAL ENERGY MANAGEMENT SYSTEM FOR NON-ENERGY INTENSIVE MULTI-SITE INDUSTRIAL ORGANISATIONS: SYSTEMATIC DECISION SUPPORT FRAMEWORK AND PRIORITIZATION METHOD FOR ENERGY PROJECTS</b>
15 <sup>45</sup>	16 <sup>00</sup>	SEEP-245	Andrés Felipe León Esteban, Isaac Guerrero Rincón, Viatcheslav V. Kafarov, Alexandra Cortés Aguilar <b>Energization as a determinant of life quality in the dispersed rural areas of Colombia</b>
16 <sup>00</sup>	16 <sup>15</sup>	SEEP-81	Cristina Tarean <b>Long term energy strategy scenario to promote 'green' electricity against natural gas consumption</b>
16 <sup>15</sup>	16 <sup>30</sup>	SEEP-235	Jagruti Thakur, Basab Chakraborty <b>Impact of dynamic pricing mechanism on net metered consumers in India</b>
16 <sup>30</sup>	17 <sup>00</sup>	Coffee break – Restaurant Hotel Kompas	

**Session 10: Energy Management and Policies – Hall Rikli****Chair: Prof. Dr. Joaquin Ordieres-Mere**

17 <sup>00</sup>	17 <sup>15</sup>	SEEP-182	Pouya Ifaei, Jouan Rashidi, Jeong Tai Kim, ChangKyo Yoo <b>A comprehensive renewable energy management strategy of hybrid solar/wind/biofuel sources using techno-econo-socio-environmental multivariate analysis</b>
17 <sup>15</sup>	17 <sup>30</sup>	SEEP-52	Hacer Sekerci, Nurdan Yildirim , Arif Hepbasli <b>Energy Management System Standard Implementation at Yasar University in Izmir, Turkey: From ISO 50001 to Practice</b>
17 <sup>30</sup>	17 <sup>45</sup>	SEEP-169	Teodora Diana Corsatea <b>The impact of the European electricity market regulation on environmental adjusted productivity: evidence from 10 selected countries between 1995 and 2013</b>
17 <sup>45</sup>	18 <sup>00</sup>	SEEP-532	Tomislav Letnik, Giuseppe Luppino, Andrea Bardi, Stane Bozicnik <b>POLICIES AND MEASURES FOR SUSTAINABLE AND ENERGY EFFICIENT URBAN FREIGHT TRANSPORT</b>
18 <sup>00</sup>	18 <sup>15</sup>	SEEP-373	Marina Jovanović, Vukman Bakić, Valentina Turanjanin, Biljana Vučićević <b>Multi-criteria approach to sustainability evaluate of district heating system scenarios in case of Serbia</b>
18 <sup>15</sup>	18 <sup>30</sup>	SEEP-367	Laura Bouriaud, Cosmin Cosofret, Ramona Scriban, Marian Gogan, Mihai Enescu, Liviu Nichiforel <b>Social networks and norms driving the firewood market for households needs</b>
18 <sup>30</sup>	18 <sup>45</sup>	SEEP-363	Laura Bouriaud, Mihai Enescu, Cosmin Cosofret, Ramona Scriban, Marian Gogan, Liviu Nichiforel <b>Wood energy use in Romania: prospects and challenges</b>
18 <sup>45</sup>	19 <sup>00</sup>	SEEP-286	Lingling Wang, Tsunemi Watanabe <b>Comparison of farmers' risk perception and motivation in straw supply chain in different income levels: a case study in a national bioenergy industry area, northeast China</b>

**Thursday, 29<sup>th</sup> June 2017 – Hotel KOMPAS**

**Session 11: Mechanical Engineering – Hall Triglavška**

**Chair: Prof. dr. Khuram Pervez Amber**

09 <sup>00</sup>	09 <sup>15</sup>	SEEP-369	Abhijit Dey, Krishna Murari Pandey, Biplob Das <b>Optimisation of Wire Electro Discharge Machining Parameter using Desirability based Multi Objective RSM in Machining of Al6061–Cenosphere AMCs</b>
09 <sup>15</sup>	09 <sup>30</sup>	SEEP-497	Chaiki Malakar, Sumit Bhowmik <b>ASSESSMENT OF OPTIMAL DRILLING PARAMETER FOR BAMBOO FILLER REINFORCED EPOXY COMPOSITE</b>
09 <sup>30</sup>	09 <sup>45</sup>	SEEP-452	P. F Carvalho, E. L. Almeida, M. A. S. S. Ravagnani, C.M.G. Andrade, L. Bonfim <b>MODELING AND SIMULATING A WATER DISTRIBUTION NETWORK USING THE EPANET SOFTWARE. CASE STUDY</b>
09 <sup>45</sup>	10 <sup>00</sup>	SEEP-501	K M Pandey, Saroj Yadav <b>A Parametric Thermal Analysis of Triangular Fins for Improved Heat Transfer in Forced Convection</b>
10 <sup>00</sup>	10 <sup>15</sup>	SEEP-203	Hürrem Akbiyik, Hakan Yavuz, Yahya Erkan Akansu <b>ASSESSMENT OF EFFECT ON PLASMA ACTUATOR'S POSITION ON STALL ANGLE FOR AN AIRFOIL</b>
10 <sup>15</sup>	10 <sup>30</sup>	SEEP-201	Hürrem Akbiyik, Hakan Yavuz, Yahya Erkan Akansu <b>INVESTIGATION OF THE ELECTRODE GEOMETRY CONFIGURATIONS OF PLASMA ACTUATORS</b>
10 <sup>30</sup>	11 <sup>00</sup>	Coffee break – Restoran Hotel Kompas	

**Session 11: Mechanical Engineering – Hall Triglavška**

**Chair: Prof. dr. Sumit Bhowmik**

11 <sup>15</sup>	11 <sup>30</sup>	SEEP-440	P. E. M. Gonzales, I. R. Fermo, E. L. Almeida, C. M. G. Andrade <b>INDUSTRIAL PROCESSES OF SUCROSE CRYSTALLIZATION: A BRIEF REVIEW</b>
11 <sup>30</sup>	11 <sup>45</sup>	SEEP-335	I. R. Fermo, V. R. R. V. Da Silva, R. Z. Sakiyama, C. M. G. Andrade, M. Y. G. De Giovanni, R. L. Acorsi <b>INERTIAL ENVIROLMENT SMALL ALLOY WELDING AUTOMATIC EQUIPMENT</b>
11 <sup>45</sup>	12 <sup>00</sup>	SEEP-484	V.A. Devisilov, E.Yu. Sharay <b>Numerical investigation of the separation of two-phase media with complex power effects in order to reduce energy consumption for cleaning</b>
12 <sup>00</sup>	12 <sup>15</sup>	SEEP-483	V.A. Devisilov, E.Yu. Sharay, A.A. Aleksandrov <b>Hydrodynamic vibratory filtration as a method removing of mechanical impurities in regeneration systems of highly viscous working fluids</b>
12 <sup>15</sup>	12 <sup>30</sup>	SEEP-466	László Garbai, Andor Jasper, András Váradi <b>Probability Theory Description of Domestic Hot Water</b>



**Wednesday, 28<sup>th</sup> June 2017 – Hotel KOMPAS****Session 12: Waste Energy and Management – Hall Jezerska****Chair: Dr. Igor Šauperl**

17 <sup>00</sup>	17 <sup>15</sup>	SEEP-66	Hanxi Wang, Jianling Xu, Lianxi Sheng <b>Study on the comprehensive utilization of resources city kitchen waste in China</b>
17 <sup>15</sup>	17 <sup>30</sup>	SEEP-289	Florian Benedikt, Johannes Christian Schmid, Hermann Hofbauer <b>WASTE GASIFICATION WITH AN ADVANCED 100 KW DUAL FLUIDIZED BED GASIFIER</b>
17 <sup>30</sup>	17 <sup>45</sup>	SEEP-120	Wan Adibah Wan Mahari, Nur Fatihah Zainuddin, Nyuk Ling Ma, Su Shiung Lam <b>Production of diesel-like oil as potential fuel from microwave-assisted pyrolysis of waste shipping oil</b>
17 <sup>45</sup>	18 <sup>00</sup>	SEEP-197	Michela Costa, Christian Curcio, Raffaele Tuccillo, Vittorio Rocco Numerical <b>Analysis of RDF Thermo-Chemical Conversion in a Waste-To-Energy Power Plant</b>
18 <sup>00</sup>	18 <sup>15</sup>	SEEP-297	Margarita Dmitrienko, Galina Nyashina, Timur Valiullin, Ksenia Vershinina, Dmitrii Glushkov, Pavel Strizhak <b>Experimental study of environmental indicators of coal processing waste combustion</b>
18 <sup>15</sup>	18 <sup>30</sup>	SEEP-478	Mohamad Ramadan, Mahmoud Khaled, Bakri Abed ALHAY, Ahmad Haddad, Hisham Elhage <b>Performance analysis of heat recovery system from exhaust gases of boiler</b>
18 <sup>30</sup>	18 <sup>45</sup>	SEEP-488	Saeed Ahmadi Atouei, Alireza Rezaniakolaei, Lasse Aistrup Rosendahl <b>Protection of TEG module at high temperature transient boundary condition using phase change materials, an experimental investigation</b>
18 <sup>45</sup>	19 <sup>00</sup>	SEEP-114	Gerhard Pirker, Eduard Schneßl, Igor Šauperl, Andreas Wimmer <b>LDM COMPACT - a highly efficient method for developing gas engines for use with low environmental impact non-natural gas</b>

**Thursday, 29<sup>th</sup> June 2017 – Hotel KOMPAS****Session 13: Marine and Hydro Power– Hall Jezerska****Chair: Prof. Dr. Suhan Kim**

09 <sup>00</sup>	09 <sup>15</sup>	SEEP-193	Alper Burgaç, Hakan Yavuz <b>FUZZY LOGIC BASED COMPLEX SYSTEM CONTROL IMPLEMENTATION ON WAVE ENERGY CONVERTERS</b>
09 <sup>15</sup>	09 <sup>30</sup>	SEEP-306	Rhea Bhansali, Bharat Honmane, Pushpito. K. Ghosh <b>Spontaneous dewatering of sugarcane juice through Forward Osmosis at module level employing sea bittern as draw solution</b>
09 <sup>30</sup>	09 <sup>45</sup>	SEEP-424	Nejc Čož, Reza Ahmadian, Roger A Falconer <b>High resolution 3D modelling of the Swansea Bay tidal lagoon</b>
09 <sup>45</sup>	10 <sup>00</sup>	SEEP-331	Shakun Paudel, Martin Weber, Dirk Geyer, Nicole Saenger <b>Zuppinger water wheel for very low-head hydropower application</b>
10 <sup>00</sup>	10 <sup>15</sup>	SEEP-388	Minseok Kim, Suhan Kim <b>Can full-scale pressure retarded osmosis systems derive energy from the ocean?</b>
10 <sup>30</sup>	11 <sup>00</sup>	Coffee break – Restoran Hotel Kompas	

**Wednesday, 28<sup>th</sup> June 2017 – Hotel KOMPAS****Session 14: Combined and Hybrid Energy – Hall Rikli****Chair: Prof. Dr. Dimitris Katsaprakakis**

09 <sup>15</sup>	09 <sup>30</sup>	SEEP-211	Zhe Chen, Feng Tian, Xiaojing, Yiwu Weng, <b>Effect of fuel composition fluctuation on the safety performance of an IT-SOFC/GT hybrid system</b>
09 <sup>30</sup>	09 <sup>45</sup>	SEEP-226	Bartolucci Lorenzo, Cordiner Stefano, Mulone Vincenzo, Rocco Vittorio, Rossi Joao Luis <b>Hybrid Renewable Systems for Microgrids: influence of system sizing on performances.</b>
09 <sup>45</sup>	10 <sup>00</sup>	SEEP-225	Bartolucci Lorenzo, Cordiner Stefano, Mulone Vincenzo, Rocco Vittorio, Rossi Joao Luis <b>Penetration of renewable sources in microgrids: effects of MILP – based control strategies</b>
10 <sup>00</sup>	10 <sup>15</sup>	SEEP-476	Hassan Jaber, Mahmoud Khaled, Thierry Lemenand, Mohamad Ramadan, Rabih Murr , Jalal Faraj <b>TRIPLE DOMESTIC HEAT RECOVERY SYSTEM : THERMAL MODELING AND PARAMETRIC STUDY</b>
10 <sup>15</sup>	10 <sup>30</sup>	SEEP-356	Katsaprakakis Dimitris <b>A Wind Park – Pumped Hydro Storage plant towards 100% energy autonomy for the island of Sifnos, Greece. Perspectives created from Energy Cooperatives.</b>
10 <sup>45</sup>	11 <sup>15</sup>		Coffee break – Restaurant Hotel Kompas

**Wednesday, 28<sup>th</sup> June 2017 – Hotel KOMPAS****Session 15: Technical Developments in Vehicles – Hall Rikli****Chair: Prof. dr. Stane Božičnik**

11 <sup>15</sup>	11 <sup>30</sup>	SEEP-75	Bouguenna Ibrahim Farouk, Azaiz Ahmed, Tahour Ahmed, Larbaoui Ahmed <b>Robust Neuro fuzzy sliding mode speed control for an electric drive system</b>
11 <sup>30</sup>	11 <sup>45</sup>	SEEP-121	Ahmed Larbaoui, Beghdad Belabbes , Farouk Ibrahim Bouguenna , Ahmed Tahour <b>Electronic Differential with Backstepping Control for Vehicle Propulsion System</b>
11 <sup>45</sup>	12 <sup>00</sup>	SEEP-378	Martin Kodrič, Stanislav Pehan <b>HYDRAULIC TRANSMISSION FOR AGRICULTURAL MACHINE INTENDED FOR CULTIVATION OF STEEP FARMLAND</b>
12 <sup>00</sup>	12 <sup>15</sup>	SEEP-115	Fabio Mallamo, FEV Italy, Pranav Arya, Politecnico di Torino, Federico Millo, Politecnico di Torino <b>Optimization of automotive diesel engine calibration using genetic algorithm techniques</b>

**Thursday, 29<sup>th</sup> June 2017 – Hotel KOMPAS**

**Session 16-17-18: Power Distribution - Nuclear Energy -Waste Heat Utilisation– Hall Jezerska  
Chair: Prof. dr. Darko Goričanec**

11 <sup>15</sup>	11 <sup>30</sup>	SEEP-272	Junbo Zhou, Mingyang Yang, Yongle Zhang, Liping Gao <b>The recycle of Tokamak exhaust gases expelled from nuclear fusion reactors by cryogenic absorption</b>
11 <sup>30</sup>	11 <sup>45</sup>	SEEP-129	Haytham M. A. Ahmed, Magdy M. A. Salama <b>Optimal Day-Ahead Reconfiguration Strategy for Active Distribution Systems with Renewable Distributed Generation</b>
11 <sup>45</sup>	12 <sup>00</sup>	SEEP-146	Jin Hur, Beomjun Park <b>Spatial Prediction of Renewable Energy Resources for Reinforcing and Expanding Power Grids</b>
12 <sup>00</sup>	12 <sup>15</sup>	SEEP-253	Hattab Guesmi <b>Smart grid power system condition monitoring using gas nano-sensor</b>
12 <sup>15</sup>	12 <sup>30</sup>	SEEP-468	Victor Geanta, Ionelia Voiculescu, Dan Adrian Jianu, Horia Binchiciu <b>Effects of Zirconium on Microstructure and Mechanical Properties of FeCrAl Alloys for Nuclear Power Plant 4R Generation</b>
12 <sup>30</sup>	12 <sup>45</sup>	SEEP-487	A.A. Aleksandrov, V.A. Devisilov, D.A. Zhidkov <b>The operation of adjustable ranque-hilsch vortex tubes in environment-oriented industrial gas purification plants</b>



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