

Wednesday 04.04.18

09:00	09:45	Registration and coffee	
09:45	10:00	Welcome	Title
10:00	11:10	Session 1. Energy	Session Chair: W. M. Samhaber
10:00	10:20	Oral 1.1	Doris Rixrath, TU Graz: "Life Cycle Assessment of regional energy supply scenarios for the province of Burgenland"
10:20	10:40	Oral 1.2	Markus Bösenhofer, TU Wien: "Radiative Heating of a Single Coal Particle Under Blast Furnace Conditions"
10:40	11:00	Oral 1.3	Teresa Schubert, Montanuniversität Leoben: "Experimental and modeling approach of LDPE thermal cracking for feedstock recycling"
11:00	11:03	Poster 1.1	Lucas Konstantinoff, MCI: "Potential and concepts for charge motion optimization in spark ignition gas engines for biogas driven cogeneration heat and power plants"
11:03	11:06	Poster 1.2	Bernd Cermenek, TU Graz: "Ethanol to Power"
	11:06	11:09	Poster 1.3
			Magdalena Wolf, Boku: "Efficiency increase of high temperature heat pump systems with recuperative suction gas superheating and wet vapor compression depending on the used refrigerant"
11:10	11:25	Coffee break & Poster Discussion	
11:25	12:35	Session 2. Reaction	Session Chair: C. Paulik
11:25	11:45	Oral 2.1	Astrid Loder, TU Graz: "Catalytic CO2 methanation with Ni/MgO"
11:45	12:05	Oral 2.2	Anna Mauerhofer, TU Wien: "Influence of Alternative Bed Materials on Dual Fluidized Bed Steam Gasification"
12:05	12:25	Oral 2.3	Sarah Krainer, TU Graz: "Measuring ink spreading and penetration for high speed inkjet printing"
12:25	12:45	Oral 2.4	M.T. Nguyen, Hanoi University: "Investigation on enzyme treatment of Guava fruit juice for the guava concentrate production"
12:45	12:48	Poster 2.1	Andreas Toth, TU Graz: "Process Parameter Evaluation for Esterification in Emulsions"
12:48	12:51	Poster 2.2	Klara Treusch, TU Graz: "Low Temperature Hydrodeoxygenation of Liquid Phase Pyrolysis Oil"
12:51	12:54	Poster 2.3	S. Fathollahi, TU Graz: "Influence of powder composition on macroscopic powder properties"
12:55	14:00	Lunch break & Poster Discussion	
14:00	15:30	Session 3. Simulation	Session Chair: S. Schneiderbauer
14:00	14:20	Invited Speaker	Pablo Aguayo, Borealis AG: "CFD in Chemical Industry"
14:20	14:40	Oral 3.1	Benjamin Lukitsch, TU Wien: "Computational development of an intracorporal membrane oxygenator"
14:40	15:00	Oral 3.2	Zsolt Harsfalvi, TU Wien: "CFD Analysis of a Mixed Vessel using AMI for a non-Newtonian Medium"
15:00	15:20	Oral 3.3	Werner Pollhammer, K1-MET GmbH: "Development of a twostep simulation concept for fast and accurate prediction of NOX using flamelet model and detailed chemistry in OpenFOAM"
15:20	15:23	Poster 3.1	Mohammadsadeh Salehi, TU Graz: "Solid flow pattern in bubbling fluidized bed: the influence of friction model and specularly coefficient"
15:23	15:26	Poster 3.2	Andreas Lechleitner, Montanuniversität Leoben: "Kinetic modeling of pyrolysis within the scope of plastic feedstock recycling"
15:26	15:29	Poster 3.3	Francesca Capo Tous, Montanuniversität Leoben: "Implementation of the QSAR Method for the development of packings models"
15:30	15:50	Coffee break & Poster Discussion	
15:50	17:00	Session 4. Poster Present	Session Chair: M. Rezaei
15:50	15:53	Poster 4.1	Karim Khodier, Montanuniversität Leoben: "Process Equipment for the Implementation of Industry 4.0-Approaches on Mechanical Treatment of Municipal Solid Waste"
15:53	15:56	Poster 4.2	Daniel Schwabl, Montanuniversität Leoben: "Comparison of wet-mechanic density separators for post-consumer plastics"
15:56	15:59	Poster 4.3	Samir Kopacic, TU Graz: "Dispersion Coating using Biopolymers"
15:59	16:02	Poster 4.4	Annika Graftschafter, TU Graz: "An innovative approach to isolate constituents from dilute aqueous effluents"
16:02	16:05	Poster 4.5	Kurt Mayer, TU Graz: "Identification of Faulty Operating Conditions in PEMFCs by means of Electrochemical Impedance Spectroscopy and Total Harmonic Distortion Analysis"
16:05	16:08	Poster 4.6	Georg Weingrill, Montanuniversität Leoben: "Development of a new expansion process for finely dispersed volcanic sands"
16:08	16:11	Poster 4.7	Christoph Mayer, TU Graz: "A discrete modeling approach for excess Gibbs-energy models on the basis of discrete Markov-chains"
16:11	16:14	Poster 4.8	Fabian Zapf, TU Graz: "A data-based modeling concept for production plants focusing on highly cross-linked utility systems"
16:14	16:17	Poster 4.9	Philipp Biegger, Montanuniversität Leoben: "Underground Sun Conversion"
16:17	16:20	Poster 4.10	Thomas Pichler, TU Graz: "Lignin precipitation with flue gas"
16:20	16:23	Poster 4.11	Thomas Senfter, MCI: "Influence of the Cone Length on the Performance of a Hydrocyclone"
16:23	16:26	Poster 4.12	Nelio Drumond, TU Graz: "Evaluation of polymer mucoadhesiveness based on particle size and zeta potential measurements"
16:26	16:29	Poster 4.13	Sebastian Bock, TU Graz: "Utilization of renewable feedstock for hydrogen production via chemical-looping-hydrogen"
16:29	16:32	Poster 4.14	Michael Hammerschmidt, TU Wien: "Umweltauswirkungen verschiedener Betriebsarten einer Beispielbiogasanlage mithilfe der Ökobilanz (LCA)"
16:32	16:35	Poster 4.15	Sabrina Gehringer, Montanuniversität Leoben: "Processing of industrial minerals by use of electrostatic separation"
16:35	16:38	Poster 4.16	Robert Zacharias, TU Graz: "Improvement of iron based oxygen carriers for chemical looping hydrogen utilizing chemical synthesis routes"
16:38	16:41	Poster 4.17	Karin Malli, TU Graz: "Characterization of monolithic catalysts used for ethanol steam reforming"
16:41	16:44	Poster 4.18	Kluas Schlackl, JKU: "Method evaluation for the nanofiltration of polar organic compounds in caustic solution"
16:44	16:47	Poster 4.19	Günther Holzer, Prozess Optimal CAP GmbH: "A methodology for the model-based real-time prediction of corrosion in heat exchangers"
17:00	18:30	Poster Discussion & Social Event	
18:30		Dinner	