

Program 12th Minisymposium

Registration and Coffee

Wed Mar 30th 2016, 9h00

Welcome Adress

Wed Mar 30th 2016, 10h00

Gas-Particle Systems

Wed Mar 30th 2016, 10h15-11h15, Session Chair: Prof. Raupenstrauch, MU Leoben

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10h15 – 10h35 Katja Hüttenbrenner, MU Leoben *“Investigations on the influence of porous material on the ignition behavior of combustible dust/air-mixtures”*

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10h35 – 10h55 Christian Mayerl, MCI *“Laseroptische Evaluierung der Primärstufe eines Kombinationsfilters“*

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10h55 – 11h15 Gerhard Hofer, BOKU *“Heat transfer at immersed tube bundles in bubbling fluidized beds considering Geldart Type B particles”*

Coffee Break

Wed Mar 30th 2016, 11h15-11h30

Liquid-Particle Systems

Wed Mar 30th 2016, 11h30-12h30, Session Chair: Prof. Gamse, TU Graz

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11h30 – 11h50 Thi Huyen Trang Trinh, JKU Linz *“The performance of photocatalysis – submerged microfiltration membrane system for water treatment”*

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11h50 – 12h10 Thomas Senfter, MCI *“Entwicklung einer Versuchsanlage für Fest-Flüssig-Trennversuche an Massenkraftabscheidern“*

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12h10 – 12h30 Bahram Haddadi Sisakht, TU Wien *“Membrane module design optimization using CFD”*

Lunch

Wed Mar 30th 2016, 12h30-13h30

Materials

Wed Mar 30th 2016, 13h30-14h30, Session Chair: Prof. Siebenhofer, TU Graz

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13h30 – 13h50 Philipp Biegger, MU Leoben *“Vergleich der Trägermaterialien γ -Al₂O₃ und t-ZrO₂ in der katalytischen Methanisierung von CO₂“*

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13h50 – 14h10 Daniel Varga, TU Graz *“Impregnation of Polycarbonate with Copper Nanoparticles in Supercritical Carbon Dioxide”*

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14h10 – 14h30 Melanie Mayr, TU Graz *“Morphological characterization of cellulose pulps with imaging methods”*

Coffee Break

Wed Mar 30th 2016, 14h30-14h45

Poster Presentations A: Energy & Environment (Lecture Hall i8)

Wed Mar 30th 2016, 14h45-15h57, Session Chair: Prof. Hirn, TU Graz

Poster Presentations B: Separation, Food & Pharma (Lecture Hall i9)

Wed Mar 30th 2016, 14h45-15h36, Session Chair: Prof. Radl, TU Graz

Poster Session & Drinks

Wed Mar 30th 2016, 16h00-18h00

Conference Dinner

Wed Mar 30th 2016, 19h30, Gösser Bräu, Neutorgasse 48

Guided Tour of TU Graz Chemical Engineering Institutes

Thu Mar 31st 2016, 8h30-9h45

Pharma

Thu Mar 31st 2016, 9h45-10h45, Session Chair: Prof. Stegemann, TU Graz

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9h45 – 10h05 Manuel Berger, MCI “*Investigation of the respiratory flow through the nasal cavity with CFD*”

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10h05 – 10h25 Peter Loidolt, TU Graz “*Multi-particle finite element method of powder compaction*”

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10h25 – 10h45 Michael Martinetz, RCPE Graz “*Feasibility study for turret speed operating points in a rotary tablet press*”

Coffee Break

Wed Mar 30th 2016, 10h45-11h00

Energy

Thu Mar 31st 2016, 11h00-12h00, Session Chair: Prof. Narodoslawsky, TU Graz

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11h00 – 11h20 Eva M. Rohringer, JKU Linz “*Influence of the heat transfer and operation time of a coaxial probe for deep geothermal energy*”

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11h20 – 11h40 Florian Benedikt, TU Wien “*The Novel Dual Fluidized Bed Gasifier at TU Wien - Part I: Parameter Variation with Wood Pellets*”

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11h40 – 12h00 Josef Fuchs, TU Wien “*The Novel Dual Fluidized Bed Gasifier at TU Wien - Part II: Gasification of Alternative Fuels*”

Handover of Marini

Thu Mar 31st 2016, 12h00-12h30

Lunch

Thu Mar 31st 2016, 12h30-13h30

Particle Forum

Thu Mar 31st 2016, 13h30-15h30

Poster Papers Session A: Energy and Environment

Wed Mar 30th 2016, 14h45-15h57, Session Chair: Prof. Hirn, TU Graz

14h45 – 14h48 Michael Lammer, TU Graz *“Investigation into thermal runaway of Li-ion batteries”*

14h48 – 14h51 Ilena Kaltenböck, TU Graz *“Non-precious cathode catalysts for direct liquid fuel cells”*

14h51 – 14h54 Birgit Pichler, TU Graz *“Design of bifunctional air electrodes for rechargeable zinc/air redox flow systems”*

14h54 – 14h57 Georg Baldauf-Sommerbauer, TU Graz *“Die Herstellung von Synthesegas aus Wasserstoff und Magnesit/Dolomit“*

14h57 – 15h00 Kathrin Kos, TU Graz *“Fuel Surrogate Design and Application to Commercial European Diesel”*

15h00 – 15h03 Iris Niesenbacher, MU Leoben *“Bilanzierung eines mehrstufigen Prozesses zur Karbonatisierung mineralischer Rohstoffe“*

15h03 – 15h06 Gernot Voitic, TU Graz *“Pressurized Hydrogen Production by Fixed-Bed Chemical Looping”*

15h06 – 15h09 Andrea Rollett, TU Graz *“Continuous hydrodeoxygenation of liquid phase pyrolysis oil”*

15h09 – 15h12 Elisabeth Rammerstorfer, Prozess Optimal Holzer GmbH *“Modeling of fouling in Crude Oil Heat Exchangers”*

15h12 – 15h15 Chakkrapong Chaiburi, TU Graz *“Study on ethanol-tolerant electrocatalysts for oxygen reduction reaction in alkaline media”*

15h15 – 15h18 Julius Pirklbauer, TU Wien *“bioCH₄.0; Biogas Upgrading zu Biomethan im kontinuierlichen Temperaturwechsel Adsorptionsprozess“*

15h18 – 15h21 Michael Derntl, AVL List GmbH *“Thermo Chemical Recuperation of diesel exhaust gas”*

15h21 – 15h24 Ana Roza Medved, MU Leoben *“Methanation of CO₂ from biogas for Power-to-Gas application”*

15h24 – 15h27 Markus Groß, TU Wien *“Hydrogen extraction facilities for utilization in a Power to Gas framework”*

15h27 – 15h30 Thomas Märzinger, BOKU *“GUFO Lastprofile“*

15h30 – 15h33 Markus Ellersdorfer, MU Leoben *“Charakterisierung natürlicher Zeolithe für die Ammoniumentfernung aus Trübwassern“*

15h33 – 15h36 Daniel Schwabl, MU Leoben *“Optimierung der Betriebsparameter einer Versuchsanlage am Beispiel Plastic Reborn“*

15h36 – 15h39 Mohammad Rezaei, JKU Linz “*Wetting control of Multiscale-Layer Membranes for Membrane Distillation*”

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15h39 – 15h42 Muhammad Ali Samee, TU Wien “*Experimental study of separation performance of nanofiltration process for complex mono and multivalent salts during sugar concentration*”

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15h42 – 15h45 Thomas Laminger, TU Wien “*Regenerierung von staubbeladenen Filtermedien mittels Absaugung*“

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15h45 – 15h48 Nicos Dimitri Tsioutsios, MU Leoben “*Einflussgrößen des Druckverlustes bei der Durchströmung von Sinterbetten*“

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15h48 – 15h51 Werner Rudolf Pollhammer, MU Leoben “*Development of a dust dispersion system for investigations on reduced pressure conditions in the 20 liter SIWEK apparatus using OpenFOAM*”

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15h51 – 15h54 Teresa Schubert, MU Leoben “*Thermogravimetric analysis of pure and additive-commingled polypropylene*”

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15h54 – 15h57 Florian Pöllabauer, TU Graz “*Energy optimization of cross-linked plants using the example of a refinery*”

Poster Papers Session B: Separation, Food & Pharma

Wed Mar 30th 2016, 14h45-15h36, Session Chair: Prof. Radl, TU Graz

14h45 – 14h48 Anda Lucia, MU Leoben *“Absorption of oxygen by sodium sulfite droplets”*

14h48 – 14h51 Miriam Wimmer-Teubenbacher, RCPE Graz *“NIR-based Real Time Release Testing of Printed Orodispersible Films”*

14h51 – 14h54 Johannes Poms, RCPE Graz *“NIR-Hyperspectral Imaging and Raman Chemical Mapping of Multilayer-Tablets”*

14h54 – 14h57 Peter Scherübel, TU Graz *“Prozessintensivierung von Batch-Destillationsverfahren zur Herstellung von Spirituosen“*

14h57 – 15h00 Nélio Drumond, TU Graz *“A rheological method to predict mucoadhesion between dosage form excipients and human saliva”*

15h00 – 15h03 Surangkana Chaichoowong, KMUTNB Bangkok *“Isolation of valuable components from *Acalypha indica* using solvent extraction”*

15h03 – 15h06 Bhumphong Rajcharak, KMUTNB Bangkok *“Modeling of drop sedimentation in liquid-liquid phase separation”*

15h06 – 15h09 Candela Campos Dominguez, TU Graz *“Continuous Supercritical Fluid Extraction of Liquids Using Micro-Mixers”*

15h09 – 15h12 Aroonrat Poonyaratanasrihajan, KMUTNB Bangkok *“O/W-emulsions, production and stability”*

15h12 – 15h15 Günther Holzer, TU Graz *“Anthocyanengewinnung aus der schwarzen Holunderbeere“*

15h15 – 15h18 Eva Kalvoda, TU Graz *“Mass transfer measurements in extraction under column conditions”*

15h18 – 15h21 Annika Graftschafter, TU Graz *“TCDC, design and validation”*

15h21 – 15h24 Robert Macher-Ambrosch, TU Graz *“Turbidity Control”*

15h24 – 15h27 Daniela Painer, TU Graz *“Prozessintensivierung durch reaktive Trennverfahren in der Lösungsmittel-Rückgewinnung“*

15h27 – 15h30 Maryam Askarishahi, RCPE Graz *“CFD-DEM Simulation of Wet Fluidized Beds: Evaporation Rates from the Spray and the Particle Surface”*

15h30 – 15h33 Nuttakul Mungma, TU Graz *“Process development strategies: Lactic acid isolation”*

15h33 – 15h36 Andreas Toth, TU Graz *“Herausforderungen der Technologie- und Verfahrensentwicklung und Lösungsalgorithmen“*



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