

Agenda

3rd Nuremberg Workshop on Methanation and Second Generation Fuels

Thursday, May 19th, 2016

1. Session: "Second Generation Fuels - Fundamentals and Trends"

Session Chair: Prof. Dr.-Ing. Jürgen Karl, FAU Erlangen-Nürnberg

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| 9:30 | Registration | |
| 10:00 | Welcome address | J. Karl
FAU Erlangen-Nürnberg |
| 10:15 | Utilization of CO ₂ and of renewable energy for production of synthetic fuels | A. Jess,
CVT, University of Bayreuth |
| 11:00 | Biomass utilization by steam gasification and liquid hydrocarbon production | R. Rauch,
TU Wien, Bioenergy2020+,
Graz |
| 11:30 | Developing methodologies for catalysts testing for SNG with synthetic and real biosyngas - Learnings from BRISK | S. Biollaz,
PSI, Villigen |

Lunch break

Session Chair: Prof. Dr.-Ing. Dieter Stapf, ITC - KIT Karlsruhe

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| 13:30 | BioSNG-projects in Sweden | J. Held,
Renewtec, Lund |
| 14:00 | European Biomass-to-SNG projects - Progress and lessons-learned | C. Aichernig,
Repotec, Güssing |

2. Session: "Gasification, Gas Cleaning and System Integration"

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| 14:30 | Syngas cleaning for methanation - Performance in the bench-scale range | P. Treiber,
FAU Erlangen-Nuremberg |
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Coffee break

Session Chair: Dr. Serge Biollaz, Paul Scherrer Institut (PSI), Villingen, Switzerland

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| 15:30 | Chemical-Looping Gasification for synthesis processes | T. Pröll,
Boku Wien, Vienna |
| 16:00 | Process efficiency during syngas production and conditioning from renewable feedstocks | D. Stapf,
KIT, Karlsruhe |
| 16:30 | Evaluation of solvents for syngas cleaning | S. Karellas
NTUA, Athens |

18:15 *Sightseeing Tour of Nuremberg's historic rock-cut cellars (18:15 in German; 18:30 in English)
Meeting Point at "Hausbrauerei Altstadt" (Bergstraße 19, 90403 Nuremberg)*

19:30 *Dinner at Kuchlbauer's Restaurant, Bergstraße 30, 90403 Nuremberg*



Friday, May 20th 2016

3. Session: "Catalysts and Reactor Concepts"

Session Chair: Prof. Dr. Tobias Pröll, BOKU Vienna

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| 9:00 | Pipeline Spec Methane without Recycle - VESTA! | S. Eckle
Clariant Produkte, Munich |
| 9:30 | Haldor Topsøe - Developments and new projects in methanation technologies | J. B. Hansen,
Haldor Topsøe, Lyngby
Copenhagen |

Coffee break

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| 10:30 | Methanation performance of the EVT SNG process chain | M. Neubert,
FAU Erlangen-Nuremberg |
| 11:00 | Three phase methanation - From lab-scale to pilot-plant | J. Lefebvre,
EBI KIT, Karlsruhe |

Open Session

Session Chair: Dipl.-Ing. Peter Treiber, FAU Erlangen-Nuremberg

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| 11:30 | <ul style="list-style-type: none"> • Methanation process development utilizing ceramic honeycomb catalysts • Start & Stop Operation of fixed-bed Methanation - Update on DBFZ Methanation Research • Latest news in SNG research at TUM • Biological methanation - state of the art in science and technology • Latest news from MicrobEnergy • Planungen zum Aufbau einer 1 MW Versuchsanlage für Synthesegasaufbereitung und Kraftstoffsynthese • Latest news in biomass gasification at Chalmers • Latest news from the Natural Resources Institute Finland | M. Lehner, Uni Leoben

S. Rönsch, DBFZ Leipzig

F. Fischer, TU Munich
M. Thema, OTH Regensburg
J. Klückers, MicrobEnergy
J. Ströhle, TU Darmstadt

M. Seemann, Chalmers CTH
A. Alitalo, LUKE Finland |
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Lunch break

4. Session: "Fuels for a global "Energiewende" "

Session Chair: Dipl.-Ing. Peter Treiber, FAU Erlangen-Nuremberg

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| 13:30 | Storage concepts for the "World's Energiewende" | P. Wasserscheid,
FAU Erlangen-Nuremberg |
| 14:00 | Electricity based processes for hydrogen and fuel production | A. Tremel,
Siemens AG, Erlangen |

Coffee break

Session Chair: Prof. Sotirios Karellas, NTUA Athens, Greece

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| 15:00 | Thermal integration of high-temperature electrolysis and methanation for increased efficiency of Power-to-Gas: The HELMETH project | D. Trimis,
EBI KIT, Karlsruhe |
| 15:30 | Production of grid-compliant gas qualities in the P2G®-Process | J. Brellocks,
ZSW, Stuttgart |
| 16:00 | Summary and Conclusions | J. Karl
FAU Erlangen-Nuremberg |