

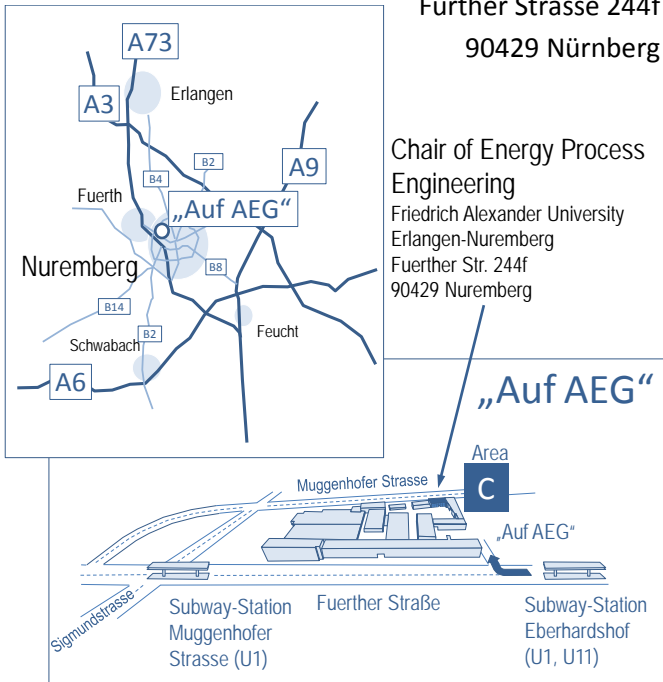
## Venue and Directions

Location:

Lehrstuhl für Energieverfahrenstechnik

Fürther Strasse 244f

90429 Nürnberg



Chair of Energy Process Engineering

Friedrich Alexander University  
Erlangen-Nuremberg  
Fürther Str. 244f  
90429 Nuremberg

„Auf AEG“

Area C

„Auf AEG“

Subway-Station Muggenhofer Strasse (U1)

Fürther Straße

Subway-Station Eberhardshof (U1, U11)

## Hotels and Accommodation

We kindly recommend these hotels in walking distance to the Energy Campus „Auf AEG“

Best Western Hotel Nürnberg City West  
Regerstr. 6, 90429 Nuremberg, Tel. +49 911/21750

[www.nuernberg-citywest.bestwestern.de](http://www.nuernberg-citywest.bestwestern.de)

Appart Hotel Tassilo  
Tassilostr. 21, 90429 Nuremberg, Tel. +49 911/3266-6

[www.tassilo-hotel.de](http://www.tassilo-hotel.de)

Hotel Hamburg, Nürnberg,  
Hasstr. 3, 90431 Nuremberg, Tel. +49 911/318990

[www.nuernberg-hotel-hamburg.de](http://www.nuernberg-hotel-hamburg.de)

## Registration

Please register until **Friday, April 15<sup>th</sup> 2016** by Fax (+49 911 5302 9030) or via

[www.evt.cbi.fau.de](http://www.evt.cbi.fau.de)

Name \_\_\_\_\_

Title \_\_\_\_\_

Company/  
Organization \_\_\_\_\_

Address \_\_\_\_\_

ZIP, Town \_\_\_\_\_

Country \_\_\_\_\_

Fax \_\_\_\_\_

Tel \_\_\_\_\_

Email \_\_\_\_\_

I will participate in

- Methanation Workshop on Thursday, May 19<sup>th</sup>
- Methanation Workshop on Friday, May 20<sup>th</sup>
- Dinner on Thursday, May 19<sup>th</sup>
- Sightseeing tour before Dinner

- I plan to give a presentation during the “Open Session” on Friday, May 20<sup>th</sup>

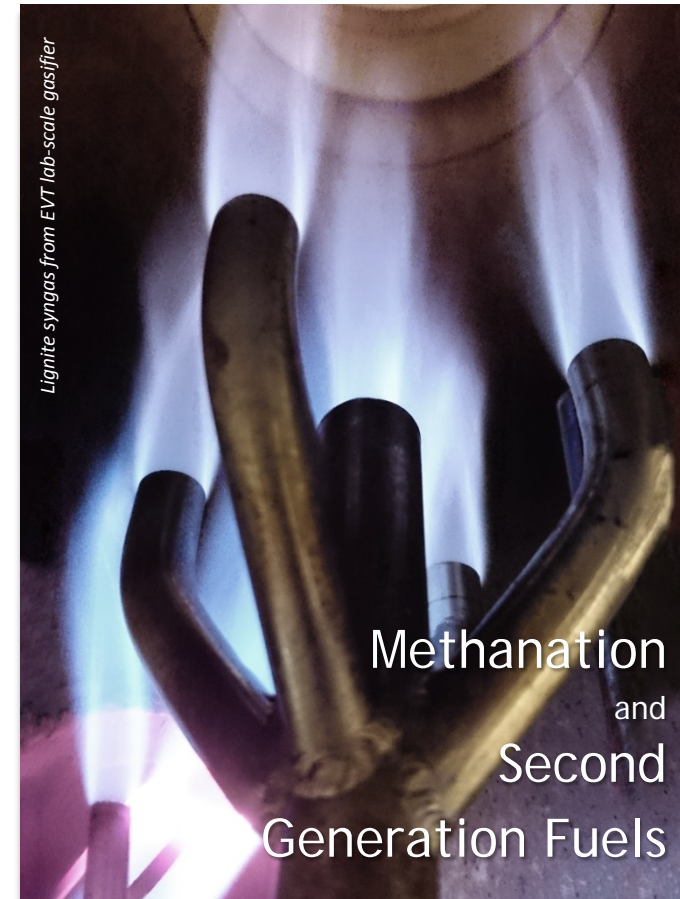
Registration fees

- Early bird registration (deadline February 29<sup>th</sup> 2016) 220 €
- Regular (after March 1<sup>st</sup> 2016) 320 €
- Students (BSc and MSc level only) 60 €

I am  Student  Invited Speaker

The registration fee includes coffee/lunch breaks, dinner, and sightseeing tour. Presentations will be made available online after the workshop.

## Invitation to the 3<sup>rd</sup> Nuremberg Workshop



Chair of Energy Process Engineering

Friedrich-Alexander-University Erlangen-Nuremberg

Nuremberg, 19.-20.5.2016

## About this Workshop

Dear Colleagues,

The transition of the European and the global energy economy towards a more sustainable use of resources and a steadily rising share of renewables create fundamental challenges - and in particular the need for new solutions for large and efficient storage of electricity. Second generation fuels will become a key technology not only for the German but also for a global "Energiewende".

Power-to-Gas and Methanation of coal and biomass derived syngas are only two of various technical options that may secure grid stability, enable renewable energy transport on a global scale, and integrate renewables into the mobility sector. An open discussion of technical alternatives and research challenges is crucial for the development of new technical solutions, business opportunities, and joint efforts to demonstrate these technologies.

A first workshop on "Methanation and Second Generation Fuels" was held in Nuremberg in 2012 celebrating the inauguration of the newly founded Chair of Energy Process Engineering at the Friedrich-Alexander-University Erlangen-Nuremberg. A second Workshop in 2014 continued intense and inspiring discussions with researchers and guests from all over Europe.

Now we are glad to announce the 3<sup>rd</sup> Workshop of this series and we are proud that most of the renowned key researchers, companies and research groups from all over Europe and beyond agreed to join this workshop and present their latest results, products, and developments. We kindly appreciate your interest and encourage you to present your latest news in an "Open Session".

We are looking forward to meeting you at the Energy Campus in Nuremberg!



Prof. Dr.-Ing. Jürgen Karl  
Chair of Energy Process Engineering  
Friedrich-Alexander-University  
Erlangen-Nuremberg

Thursday, May 19<sup>th</sup>, 2016

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

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

#### Lunch break

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

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

- |       |  |                                       |
|-------|--|---------------------------------------|
| 14:30 | Syngas cleaning for methanation Performance in the bench-scale range | P. Treiber,<br>FAU Erlangen-Nuremberg |
|-------|--|---------------------------------------|
- #### Coffee break
- |       |  |                                    |
|-------|--|------------------------------------|
| 15:30 | Chemical-Looping Gasification for synthesis processes                                  | T. Pröll,<br>Boku Wien,<br>Austria |
| 16:00 | Process efficiency during syngas production and conditioning from renewable feedstocks | D. Stapf,<br>KIT, Karlsruhe        |
| 16:30 | Evaluation of solvents for syngas cleaning   | S. Karellas,<br>NTUA, Athens       |

*Sightseeing tour in the historic city center of Nuremberg*

*Conference Dinner*

Friday, May 20<sup>th</sup>, 2016

### 3. Session: Catalysts and Reactor Concepts

- |      |   |   |
|------|---|---|
| 9:00 | Pipeline Spec Methane without Recycle - VESTA!                            | S. Eckle,<br>Clariant<br>Produkte, Munich     |
| 9:30 | Haldor Topsøe - Developments and new projects in methanation technologies | J. B. Hansen,<br>Haldor Topsøe,<br>Copenhagen |
- #### Coffee break
- |       |   |                                       |
|-------|---|---------------------------------------|
| 10:30 | Methanation performance of the EVT SNG process chain    | M. Neubert,<br>FAU Erlangen-Nuremberg |
| 11:00 | Three phase methanation - From lab-scale to pilot-plant | J. Lefebvre,<br>EBI KIT,<br>Karlsruhe |

### Open Session

- |       |                               |     |
|-------|-------------------------------|-----|
| 11:30 | Latest News from the audience | all |
|-------|-------------------------------|-----|

#### Lunch break

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

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

#### Coffee break

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