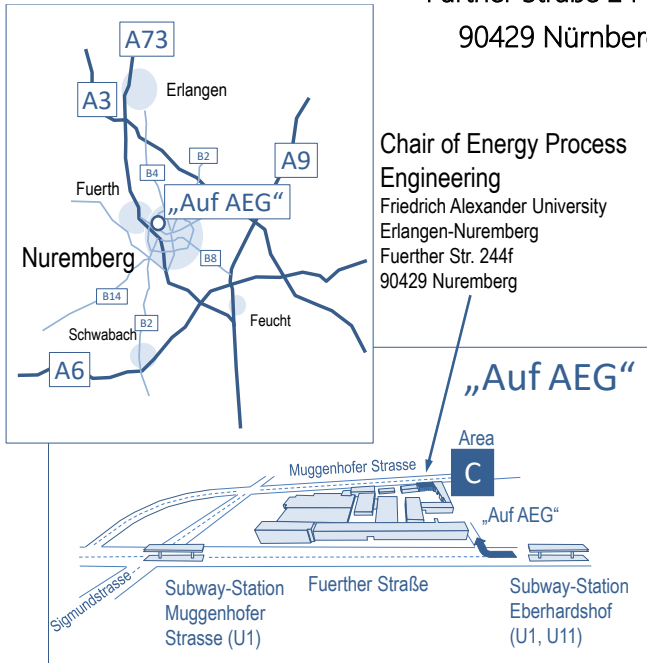


Venue and Directions

Lehrstuhl für Energieverfahrenstechnik
Fürther Straße 244f
90429 Nürnberg



Chair of Energy Process
Engineering
Friedrich Alexander University
Erlangen-Nuremberg
Fürther Str. 244f
90429 Nuremberg

Hotels and Accommodation

We kindly recommend these hotels offering a good connection to the conference location "Auf AEG"

Best Western Hotel Nürnberg City West
Regerstr. 6, 90429 Nürnberg, Tel. +49 911 21750
www.nuernberg-citywest.bestwestern.de
(in walking distance)

Derag Living Hotel Nürnberg
Obere Kanalstr. 11, 90429 Nürnberg, Tel. +49 911 92950
<https://www.deraghotels.de/hotel-nuernberg/>
(three subway stations to conference location at AEG)

Hotel Prinzregent
Prinzregentenufer 11, 90489 Nürnberg, Tel. +49 911 588188
<http://www.prinzregent.net/>
(close to main station, 10 min with subway to AEG)

Registration

Please register via our [website](#) by Friday, May 30, 2025.



Registration fees

Early bird registration (deadline March 31 st 2025)	280 €
Regular (after April 1 st 2025)	380 €
Students, B. Sc. and M. Sc. level only	60 €

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

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Invitation to the



Chair of Energy Process Engineering
Friedrich-Alexander University Erlangen-Nuremberg

About this Workshop

Dear colleagues,

it's that time again – in June, we will meet in Nuremberg for the 7th Nuremberg Workshop on "Methanation and 2nd Generation Fuels."

Europe is currently discussing the conversion of gas grids to hydrogen. Initial projects reveal that the transport routes for green hydrogen from regions with an excess of renewable energy to industrial centers in Europe and the Far East remain largely undefined. Only a small proportion of green hydrogen can be imported via pipelines, making it essential to explore alternative "Hydrogen Pathways to Europe" We will evaluate the hydrogen derivatives ammonia, methanol, and, of course, liquid methane – GreenLNG – for storing and transporting renewable energy across continents.

The session "Methane for Europe" will highlight ongoing EU projects focused on the synthesis and utilization of methane as a green hydrogen carrier. Another session will once again showcase the latest developments in "Innovation in Biological and Catalytic Synthesis" Methanation and the transportation of renewable energy as GreenLNG can leverage existing LNG infrastructures. However, there is still limited knowledge about the CO₂ balance when using fossil versus green LNG. Therefore, this year's focus will include examining fugitive methane emissions within the LNG infrastructure.

We look forward to welcoming you back to Nuremberg for the seventh time and to engaging in dynamic, insightful discussions about the future of green energy carriers.



Prof. Dr.-Ing. Jürgen Karl

Chair of Energy Process Engineering
Friedrich-Alexander University Erlangen-
Nuremberg

Thursday, June 12st 2025

1. Session: Methane for Europe

9:30	Registration	
10:00	Welcome address	J. Karl, FAU Erlangen-Nürnberg, Germany
10:15	Keynote: Energy import using "green" methane and methanol - A systemic analysis	M. Kaltschmidt, TU Hamburg-Harburg, Germany
11:00	Biomethanation in Industrial Scale: Development, Operation & Experience	Brian Jønson, Biogasclean A/S, Denmark
11:30	Horizon Europe Biomethane Cluster	Galina Gentsheva, DG ENER, European commission

Lunch break

Open Session

13:30	Latest news from the audience	
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2. Session: Fugitive Methane emissions - another inconvenient truth?

14:30	Remote sensing of fugitive methane emissions	Ralf Ludwig, LMU München, Germany
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Coffee break - Slideshow

15:30	Measuring and monitoring of Fugitive Methane emissions from Biogas Plants	J. Matlach, DBFZ, Germany
16:00	Methane emissions of Oil and gas industries	Adefarati Oloruntoba, University of Calgary, Canada
16:30	Methane emissions from the energy sector - the legal perspective	Miriam Hofer, Uni Graz, Austria

Guided Sightseeing Tour and
Conference Dinner

Friday, June 13nd 2025

3. Session: Innovation in Biological and Catalytic Synthesis

9:00	Advanced reactor design/ Additive Manufacturing	J. Müller, FAU Erlangen-Nürnberg, Germany
09:30	Using particle-resolved CFD simulations to elucidate methanation	G. Wehinger, KIT, Germany
<i>Coffee break - Slideshow</i>		
10:30	Flexible methanation in pilot scale	T. Schildhauer, Paul Scherrer Institute Switzerland
11:00	Artificial Intelligence for online optimization	S. Markthaler, FAU Erlangen-Nürnberg, Germany

Lunch break - Slideshow

Open Session

13:00	Latest news from the audience	
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4. Session: Hydrogen Pathways to Europe

14:00	Sorption-enhanced ammonia synthesis: Pushing the thermodynamic limits"	R. Güttel, Ulm University, Germany
14:30	Status bioLNG use in Sweden and Europe	J. Held, BEIC
<i>Coffee break</i>		
15:30	Scaling up of green methanol-to-X processes	M. Gräbner, TU Bergakademie Freiberg, Germany
16:00	Summary and conclusions	J. Karl, FAU Erlangen-Nürnberg, Germany