

Carbon2Chem®

NOVEMBER 23, 2021 | HYBRID CONFERENCE - DÜSSELDORF (GERMANY)

# CONFERENCE SUSTAINABLE CHEMICAL CONVERSION IN INDUSTRY

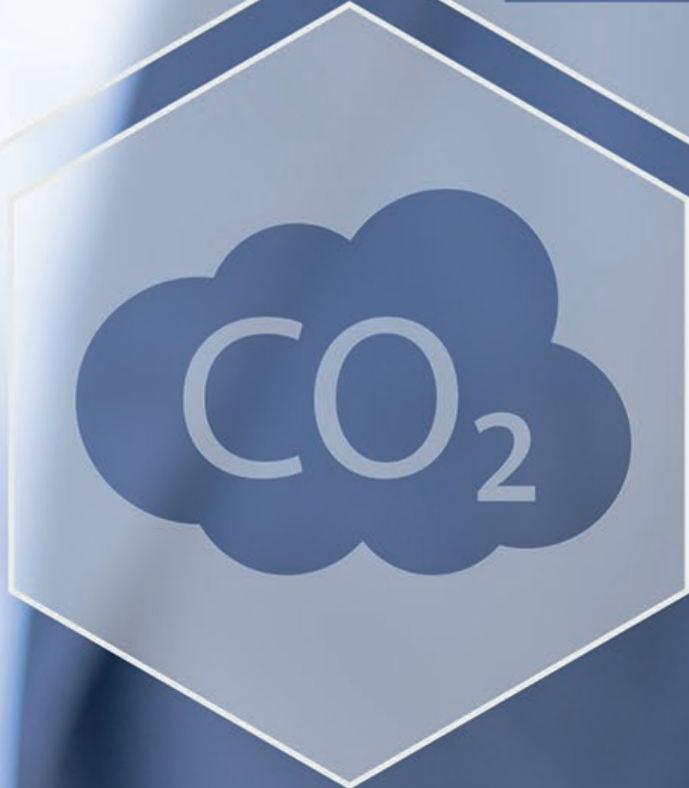


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# PROGRAM

AS OF NOVEMBER 22, 2021

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## A KEY BUILDING BLOCK FOR THE CLIMATE PROTECTION

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### TUESDAY, NOVEMBER 23, 2021

**8:30 a.m. Registration**

Coffee

**9:00 a.m. Opening**

Moderation: Dr. Torsten Müller

Fraunhofer Institute for Environmental, Safety and Energy Technology UMSICHT, Oberhausen

**9:10 a.m. Video Message**

Federal Minister Anja Karliczek

Federal Ministry of Education and Research, Berlin

**9:25 a.m. Regional Transformation to Green Industry using the Example of North-Rhine Westphalia**

Undersecretary Michael Theben

Ministry of Economic Affairs Innovation, Digitalization and Energy of the State of North-Rhine Westphalia

**9:50 a.m. The Joint Project Carbon2Chem®**

Dr. Markus Oles

Project coordination Carbon2Chem®

thyssenkrupp Steel Europe AG, Duisburg

**10:20 a.m. The Rheticus Project**

Dr. Thomas Haas

Evonik Operations GmbH, Head of New Growth Area Carbon Cycle, Marl

**10:50 a.m. COFFEE BREAK**

**11:00 a.m. Transformation to a Sustainable and Climate-neutral Economy – Intersectional Function of the Recycling Industry**

Dr. Ansgar Fendel

REMONDIS Assets & Services GmbH & Co. KG, Lünen

**11:30 a.m. Accelerating Climate Technologies**

Dr. Ben A. Haag

OGCI Climate Investments LLP, Zürich, Schweiz

**12:00 a.m. Pitches**

**12:15 p.m. LUNCH BREAK**

**1:00 p.m. Inclusion of Society**

**BMBF-Project WissKomm Energiewende**

Martin Schmidt

Westphalian State Museum of Industrial Heritage, Hattingen

**1:30 p.m. Advancing Solutions for a Lower Carbon Future**

Dr. Siva Ariyapadi

ExxonMobil Chemical Company, Global Market Development Manager, Houston, USA

**2:00 p.m. Project Status: eMethanol Vehicles and aFuel Technology**

Frank Obrist

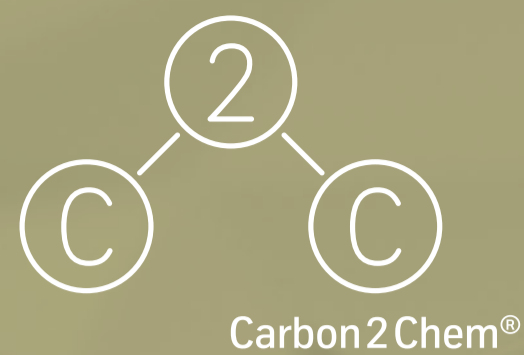
Obrist DE GmbH, Lindau

**2:30 p.m. System-Integration**

Dr. Torsten Müller

Fraunhofer Institute for Environmental, Safety and Energy Technology UMSICHT, Oberhausen

During the conference it is forbidden to take pictures of the participants as well as of the presentation content.



3:00 p.m. Pitches

3:15 p.m. COFFEE BREAK

3:30 p.m. **Circular Methanol – A Key Building Block towards Carbon Neutral Chemistry and Mobility Development**

Dr. Katharina Menzel

Nobian GmbH, Frankfurt am Main

Dr. Andreas Geisbauer

Clariant Produkte (Deutschland) GmbH, Bruckmühl

4:15 p.m. **Analytical Challenges within the Carbon2Chem® Approach**

Dr. Oliver-Niklas Hegen

Max Planck Institute for Chemical Energy Conversion, Mülheim an der Ruhr

4:45 p.m. **Simulation – An Important Key for the Evaluation of Concepts**

Thorsten Wack

Fraunhofer Institute for Environmental, Safety and Energy Technology UMSICHT, Oberhausen

Dr. Stefan Schlüter

Fraunhofer Institute for Environmental, Safety and Energy Technology UMSICHT, Oberhausen

5:30 p.m. **Project Carbon2Chem®**

**A Key Building Block for the Climate Protection**

Prof. Dr. Görges Deerberg

Project coordination Carbon2Chem®

Fraunhofer Institute for Environmental, Safety and Energy Technology UMSICHT, Oberhausen

6:00 p.m. **END OF CONFERENCE**

**Evening Event**

**WEDNESDAY, NOVEMBER 24, 2021**

INTERNAL PROJECT MEETING

8:45 a.m. **Registration**

9:00 a.m. **Start**

1:30 p.m. **END OF MEETING  
WITH LUNCHBUFFET**

**CIT ISSUES**  
Chemie Ingenieur Technik



Volume 90, Issue 10

Special issue: Carbon2Chem®

<https://onlinelibrary.wiley.com/toc/15222640/90/10>



Volume 92, Issue 10

Special issue: Carbon2Chem®

<https://onlinelibrary.wiley.com/toc/15222640/2020/92/10>

# Carbon2Chem<sup>®</sup>

[www.umsicht.fraunhofer.de/carbon-cycle](http://www.umsicht.fraunhofer.de/carbon-cycle)

#Carbon2Chem

## REGISTRATION

Please use our online form to register for the conference.

<https://s.fhg.de/WK7>

### ORGANIZERS



As an institute whose motto is "production without raw materials", we fit perfectly into this project. For several years, the Fraunhofer Institute for Environmental, Safety, and Energy Technology UMSICHT has been conducting research in projects that have set themselves the goal of further reducing both CO<sub>2</sub> emissions and the extraction of fossil fuels, and instead work with "waste products" such as the top gases that inevitably arise in steel production, in order to use them for the production of chemicals such as methanol. That is why, with Carbon2Chem<sup>®</sup>, we want to recycle carbon after it has formed during steel production, so that it is not released but instead is sustainably reused on site.

At the Max Planck Institute for Chemical Energy Conversion, we find ways to efficiently convert energy into storable and usable forms. In this instance we particularly look for suitable catalysts for the chemical reactions required. Industry generally tries to cut CO<sub>2</sub> through avoidance, and industry in Germany is already working with minimal use of carbon. However, complete avoidance is not possible. With Carbon2Chem<sup>®</sup>, we are developing a modular system for these industries from which modules for implementing the energy transition can be created.

Together with the scientific community and other industrial partners, thyssenkrupp is the first industrial enterprise to conduct pioneering work in this field. We are not pursuing a single solution, but rather a set of solutions that can also be used by other smelting works and industries. All technology modules should ultimately be interlinkable. Our first application on an industrial scale is in the steel sector – a very CO<sub>2</sub>-intensive industry. This way we are undertaking preparatory work in the industrial environment, so that we can eventually extend the modules to other industry sectors. Which is something that benefits us as a diversified corporation.

### YOUR CONTACT

#### FOR TECHNICAL QUESTIONS

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#### FOR ORGANIZATIONAL QUESTIONS

**Christina Demmer**  
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Project office Carbon2Chem<sup>®</sup>  
Assistance  
Phone +49 208 8598-1522 (8:30 a.m. – 12:30 p.m.)  
[christina.demmer@umsicht.fraunhofer.de](mailto:christina.demmer@umsicht.fraunhofer.de)

### LOCATION

LINDNER CONGRESS HOTEL  
Lütticher Strasse 130, 40547 Düsseldorf, Germany  
Phone +49 211 5997-0  
[www.lindner.de/en/duesseldorf-congress-hotel/welcome.html](http://www.lindner.de/en/duesseldorf-congress-hotel/welcome.html)

#### Directions/Parking

[www.lindner.de/en/duesseldorf-congress-hotel/welcome/directions-location.html](http://www.lindner.de/en/duesseldorf-congress-hotel/welcome/directions-location.html)



Hotel website



Directions/Parking

Conference venue in Düsseldorf, Germany

