

3rd Euregio H2 business event:

Green molecules: *Daar zit muziek in!*

Metropool, Hengelo
01 October 2026

Morning program:

08.30 - 09.15: Walk-in & coffee/tea

Plenary session, Bud Stage :

09.15 – 09.30: Welcome & introduction: *Inge Grimm (Saxion), Judith Inberg (OostNL)*

09.30 - 10.00: Keynote: *Reinier Grimbergen (CTO Blue Circle Olefins)*
"Defossilizing the chemical industry by renewable methanol"

10.00 - 10.30: Keynote: *Hossein Nami (associate professor University of Southern Denmark)*
"The role of existing energy infrastructure and emerging technologies in accelerating SAF production"

10.30 - 11.00: Break

11.00 - 11.30: Keynote: *Rob Stevens (Program Director Ammonia, ISPT)*
"Hydrogen derivatives: the facilitating role of ammonia"

11.30 - 12.15: Poster session (Muziekcafé; see list of presenters on page 3)

12.15 - 13.15: Lunch break (pick up your lunch in Muziekcafé or upstairs Foyer)

Afternoon program:

13.15 - 15.15: Parallel sessions / workshops: (further details on page 5)

Round 1a Bud Stage, 13.15 – 14.00: e-Methanol synthesis (Hans Gelten, Saxion)	Round 1b Jack Daniel's stage, 13.15 – 14.00: e-Methane synthesis (Joàn Teerling, Green Molecules Collective)
Round 2a Bud Stage, 14.15 – 15.00: CO₂ capture (Wim Brilman, UT)	Round 2b Jack Daniel's stage, 14.15 – 15.00: Methane decomposition (Margot Olde Nordkamp, Saxion)

15.00 – 15.30: Break

Plenary session, Bud stage :

15.30 – 16.15: Keynote: *Michael Kohlgrüber (associate professor TU Dortmund University)*
"Hydrogen as a Bridge to a Climate-neutral Future– Non-Technical Enablers and Barriers"

16.15 – 16.30: Closing session (Benno Aalderink)

Muziekcafé:

16.30 – 17.00: Drinks & (network) talks

Poster presentations (11.30 – 12.15, muziekcafé):

1		Benny Bakker	DOPS Recycling Technologies
2	<i>H2 Hub Twente: where regional partners in hydrogen technology meet</i>	Ton Beune	H2Hub Twente
3		Roel Bleumer	Volta Energy
4	<i>Green methanol from solar power</i>	Ruben Bruins	HAN University of Applied Sciences
5		Ivan Derkink	Bright Renewables
6		Christoph Deus	Merecs Engineering GmbH
7	<i>Green methanol as an energy carrier and chemical building block</i>	Hans Gelten	Saxion University of Applied Science
8		Coen Hanschke	Provincie Overijssel
9	<i>Integration of electrolysis and wastewater treatment</i>	Bart Homan	Saxion University of Applied Sciences
10	<i>Building a racecar powered by hydrogen</i>	Florian Kok	HyDriven Twente
11		Zuzi Kurt	Hanze Applied Science University

12	<i>Development of a new, sustainable and energy-efficient way of separating and purifying CO₂ from biogas</i>	Frieder Mugele	Univ. Twente
13	<i>DynaLoop – Converting H₂ and CO₂ into e-Methanol</i>	Andy Roeloffzen	Brusche Process Technology
14	<i>Carbon from methane decomposition technologies (MDT) for soil improvement in agriculture</i>	Joris Schouten	Saxion
15		Henri Spaans	HvA
16	<i>Advancing the Frontiers of Hydrogen Solutions [for the Global Net Zero Economy]</i>	Anne Tiehuis	University of Twente
17	<i>Sorbent development for direct air capture</i>	Tom Wagenvoort	Saxion
18	<i>Comparative energy and environmental assessment of surplus biomethane storage configurations in the Dutch gas system</i>	Arbab Muhammad Ali Khan	Hanze Applied Science University
19	<i>Life Cycle Assessment of Hybrid Carbon Removal Systems</i>	Ali Bertan Kir	Hanze Applied Science University
20	<i>Advancing Biomethane Integration in Gas Networks</i>	Sander Dijk	Hanze Applied Science University
21	<i>Technical and Environmental Evaluation of Biogas Utilization Pathways for Medium-Scale Farms</i>	Saeed Alavi	Hanze Applied Science University

Parallel sessions / workshops (13.15 - 15.15):

Round 1a (13.15 – 14.00, Bud stage): e-Methanol synthesis <i>(Hans Gelten, Saxion)</i>	Contributions: • Hans Gelten (Saxion): Investing energy in hydrogen – accelerating applications of decentralised hydrogen • Zuzi Kurt (Hanze/Entrance): Boundaries of decentralized e-methanol production from biogas • Timo van Bergen (HoSt): Methanol from biogas and H₂ + CO₂: first projects reaching industrial scale
Round 1b (13.15 – 14.00, Jack Daniel's stage): e-Methane synthesis <i>(Joàn Teerling, Green Molecules Collective)</i>	Contributions: • Steeff Kalsbeek (NewEnergyCoalition): The economic reality behind E-methane • Gerrit Groen (TES-H2): International energy company focused on the production and supply of green hydrogen and e-NG (electric natural gas)
Round 2a (14.15 – 15.00, Bud Stage): CO ₂ capture <i>(Wim Brilman, UT)</i>	Contributions: • Victor Sagel (University of Twente): State of the art regarding technology for fixed bed adsorption, effect of weather conditions and climate on performance and costs. • Frieder Mugele (CarbSorbTec & University of Twente): development of a new, sustainable and energy-efficient way of separating and purifying CO₂ from biogas.
Round 2b (14.15 – 15.00, Jack Daniel's stage): Methane decomposition <i>(Margot Olde Nordkamp, Saxion)</i>	Contributions: • Robert Ebenaus Emler (Montan Universität Leoben): Methane decomposition - production of hydrogen and carbon and the application of the carbon. • Hans Linden (Thoriant BV): Hydrogen and Acetylene production using Plasma Technology

Key-note speakers

Reinier Grimbergen (CTO Blue Circle Olefins)

Reinier Grimbergen is an organic chemist by training and obtained his PhD in solid state chemistry at the Radboud University in Nijmegen. After his studies he joined Royal DSM, a Life Science and Material Science company and made his career in R&D and Innovation management with a focus on sustainable value creation. He held executive positions as VP R&D for the Resins Group and Director Science to Innovate reshaping the corporate research program of DSM. After having joined the Bolsius Group Reinier has moved to TNO where he has been appointed as a Principal Consultant. His strategic focus was the systemic Industrial Transformation and amongst others he supported the business-driven shared innovation programs VoltaChem and Brightsite. Next to his role at TNO he has been Chairman of SusChem National Technology Platform and member of the Board of the SusChem European Technology Platform in Brussels. Currently, he runs his own science-based strategic consultancy firm and is a co-founder of Blue Circle Olefins, a start-up focusing on the production and commercialization of circular olefins in Europe. During his career Reinier has gained extensive expertise on innovation, industrial process technologies, electrification, hydrogen, carbon management, critical raw materials, sustainability impact assessments and EU regulations contributing to a Net Zero and Circular Industry by 2050. Last, but not least, he shares his insights on LinkedIn, moderates, writes columns and is a keynote speaker at conferences.



The key message of his contribution is that the transition to a future proof chemical industry is only possible in a timely manner by replacing crude oil by our own waste to produce plastics and chemicals we all use every day. This will simultaneously reduce our CO₂ emissions, increase circularity, reduce our dependence on import of crude oil and LNG and a competitive European chemical industry

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Websites: www.bluecircle-olefins.com, www.sciencetoinnovate.com

Hossein Nami (Associate professor University of Southern Denmark)

Hossein Nami is Associate Professor at the University of Southern Denmark in Odense (Syddansk Universitet, SDU). He is a specialist in integrated energy systems, Power-to-X, carbon capture and utilisation, and the techno-economic assessment of renewable fuel production. His research focuses on connecting detailed process design with energy-system analysis to understand how technologies can enable cost-effective pathways towards net-zero. Hossein's recent research has increasingly focused on the integration of Power-to-X technologies with the Danish energy system, including projects on renewable hydrogen, carbon capture and utilisation, e-fuels, and sustainable aviation fuel production. A particular focus is understanding SAF production not only at the individual plant level, but also in relation to the surrounding energy system. The Danish energy system is an especially relevant case because of its strong renewable-energy resources and rapidly developing Power-to-X and hydrogen landscape. At the University of Southern Denmark, we work across both detailed process-level modelling and broader energy-system analysis.



The key message of his contribution is that scaling up SAF is not only a technology challenge; access to energy and infrastructure can become the decisive constraint. Making smarter use of existing infrastructure can help overcome grid bottlenecks and improve the economics of large-scale Power-to-X and we should look beyond building new infrastructure for every individual project and explore system-level solutions that combine existing assets, emerging technologies, and flexible energy sourcing to accelerate cost-effective SAF deployment.

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Websites: <https://www.sdu.dk/en/>, <https://www.sdu.dk/en/lifecycle>

Rob Stevens (Program Director Ammonia, ISPT)

Rob Stevens is director Clean Ammonia Innovation Platform at the Institute for Sustainable Process Technology (ISPT). He has over 25 years experience in ammonia industry and leading the transition into the new user case of ammonia as hydrogen and energy carrier. Currently working as an consultant/advisor sharing my operational and innovation experience into the energy transition and clean fuels. Next to that he is the non-executive director and President Emeritus to the board of the Ammonia Energy Association, of which 5 years in the executive committee. Currently also chairman of the AEA safety committee. His contribution deals with scenarios of methanol, ammonia and SAF volumes and on real market data about ammonia and ammonia fuel growth. It answers the question of how ammonia supports the availability of biogenic carbon for olefins and SAF.

The key message of his contribution is that there is no versatility and no resilience without green ammonia and although ammonia comes with new different risks, there are not necessarily higher than our current fossil based economy.

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Websites: <https://ispt.eu/>



Michael Kohlgrüber (Senior researcher TU Dortmund University)

Michael Kohlgrüber is senior researcher and coordinator Research Area Work and Participation in Europe at Social Research Center, TU Dortmund University. He is a social scientist and economist, leading research projects in business, economic and social sciences. Since 2012, he is senior researcher at Social Research Centre (sfs), since 2025 coordinator of the research area "Work and Participation in Europe". His current research is focused on the integration of social and technological innovation in decarbonization and digitalization projects (with a focus on industrial companies). He is involved within the Horizon project *IS2H4C – From Industrial Symbiosis to Hubs4Circularity*, which is one of very few projects focusing on decarbonization technologies but gives significant space to social and other non-technological aspects. He is leader of the work package "Societal Engagement and Governance" and the research team is focused on the integration of technological and social innovation. We have an extended track record on Horizon Europe and Erasmus+ projects. We have been coordinating several projects on European skills alliances and strategies in energy intensive industries. The TUDO/Social Research Center is member of the Advisory and Programming Committee of A.SPIRE developing European Process Industry's the Strategic Research, Innovation and Development Agenda 2028-2034.

The key message of his contribution is that to achieve viable solutions, a multi-faced approach is needed. This includes all relevant stakeholder groups (industry, policy, academia, civil society) and an integration of technological and non-technological aspects. Social aspects, such as comprehensive stakeholder engagement, social acceptance and skills, are often overlooked but need to be considered as well. That means that technological and societal readiness level should go hand in hand.

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