

## CCUS ALIGNED Day Two: MEET THE EXPERTS



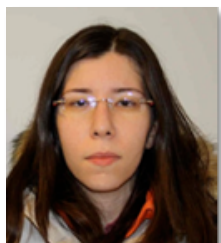
Peter van Os, TNO, Project Coordinator, Session Chair

Peter van Os is a Senior Project Manager at TNO, in the Netherlands, on various projects concerning gas treatment, with a focus on CO<sub>2</sub> capture. He has been involved in various internationally oriented EU projects, including CESAR, iCAP, OCTAVIUS and HiPerCap, as well as B2B and joint industry projects. Clients include national and international companies and SMEs. He has been working at TNO since 1985, first as a system engineer and since 2000 as a project manager. Peter is an IPMA and PRINCE II certified project manager.



Hanne Kvamsdal, SINTEF, WP1

Hanne Kvamsdal is a Senior Research Scientist at SINTEF in Trondheim, Norway. In ALIGN-CCUS, she is leader of WP1 on CO<sub>2</sub> capture. Hanne obtained a PhD in Chemical Engineering at The Norwegian University of Science and Technology (NTNU) in 1995 focusing on gas separation using adsorption. She joined SINTEF in 1998 and since then has been mainly working with various technologies for CO<sub>2</sub> capture. In 2007, she joined a SINTEF research group focusing on absorption for CO<sub>2</sub> capture. She has been part of many internationally oriented EU projects, including CESAR (WP leader), OCTAVIUS (WP leader), and HiPerCap (coordinator).



Juliana Monteiro, TNO, WP1

Juliana Monteiro has a PhD in Chemical Engineering and holds a position as Scientific Researcher at TNO in the field of gas treating, in particular CCUS. Since 2009 she has been involved in CCS projects, particularly in chemical absorption of CO<sub>2</sub>. Her activities include solvent development and characterisation, modelling and simulation of CO<sub>2</sub> capture systems, designing capture plants and economical assessment of processes. More recently, she has been involved in developing and evaluating CO<sub>2</sub> utilisation technologies through her involvement in the CEMCAP and CyclicCO<sub>2</sub>R projects.



Georg Wiechers, RWE, WP1

Georg Wiechers studied mechanical engineering at RWTH Aachen University, specialising in power plant technology. He joined RWE's research and development department, Emission Reduction Technologies, in 1999 and was engaged in several projects on power plant technology optimisation. He was coordinator of the EU-funded project LIGPOWER 2003-2006. From 2008 to 2012 he was project manager of RWE's algae farm project at Niederaussem and is now project manager of the post-combustion capture pilot plant there. Georg is also active in several projects on CO<sub>2</sub> capture (EU: LAUNCH, SCARLET; for BMWi: LISA2, MemKor, GuD Pox). In ALIGN-CCUS he is the task leader on solvent management.





Arne Dugstad, IFE, WP2

Arne Dugstad is Chief Scientist at the Materials and Corrosion Technology Department at Norway's IFE (Institute for Energy Technology) where he has worked for more than 30 years. He is responsible for activities related to dense phase CO<sub>2</sub> transport (CSS) and corrosion in flexible pipelines. He has contributed to several working groups in the technical committee for the ISO standard on CCS.



Filip Neele, TNO, WP2, WP3

Filip Neele is a senior consultant on CO<sub>2</sub> transport and storage at TNO. He has been active in the field of CCS since 2006 and involved in CO<sub>2</sub> storage transport and storage projects. He has contributed to two working groups in the technical committee for an ISO standard on CCS. He is co-chair of the ZEP Task Force Technology, covering CO<sub>2</sub> storage. Currently, he coordinates TNO's involvement in the development of the PORTHOS offshore CCS network. He holds a PhD in seismology from Utrecht University.



Maxine Akhurst, BGS, WP3, WP5

Maxine Akhurst is a principal geologist at the British Geological Survey. She has specialised in CO<sub>2</sub> geological storage since 2007. Maxine has contributed to and led CO<sub>2</sub> storage research for UK, EU and industry-supported projects to identify and characterise prospective storage sites offshore UK. She leads scientific development of the UK's national CO<sub>2</sub> storage database [www.CO2Stored.co.uk](http://www.CO2Stored.co.uk)



Alv-Arne Grimstad, SINTEF, WP3

Alv-Arne Grimstad is a senior scientist at SINTEF in Norway. He holds a PhD in reservoir physics from the University of Bergen. He has contributed to national and European CO<sub>2</sub> storage research projects since 2005. He specialises in modelling and simulation of reservoir processes in CO<sub>2</sub> storage, in particular, challenges for large-scale injection.



Martha Roggenkamp, Groningen University, WP3

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Peter Moser, RWE, WP4

Peter Moser leads the R&D department, Emission Reduction Technologies, at RWE Power in Essen, Germany. He studied chemistry at the University of Cologne, where he also received his PhD. Since 1999 he has worked in the field of optimisation of power plants and the development of boiler and instrumentation technology at RWE. Another field of activity has been development of large-scale energy storage systems. His work now mainly focuses on CCUS and on technologies regarding flue gas treatment. He has participated in several international and national projects in CCUS, including the Mountaineer CCS project, and the EU's CASTOR, CESAR and ENCAP projects.



Christian Kuhr, Mitsubishi Power, WP4

Christian Kuhr is Project Manager Innovation in research and development at Mitsubishi Power Europe in the field of power-to-fuel technologies with focus on catalytic synthesis, reactor technology and product treatment. He regularly publishes the results of his research at national and international conferences. In the past, his main focus was on computational fluid dynamics for the development of innovative concepts in power plants. His current focus is on power-to-fuel technologies as a contribution to the energy turnaround. Christian has a degree and a doctorate in Chemistry from the University of Duisburg, Essen.



Ralf Peters, FZ Jülich, WP4

Prof. Dr.-Ing. Ralf Peters is a Professor of Energy Process Engineering at the Aachen University of Applied Sciences and senior research scientist at the IEK-3. He has a PhD in Mechanical Engineering from the Institute of Fluid and Thermodynamics, University of Siegen. He joined Forschungszentrum Jülich (FZ Jülich) in 1996 and later became head of the Department for Fuel Processing, now the Fuel Processing and Systems Department. In 2001, Prof. Peters became a lecturer in Energy Systems and in 2006, he became a full professor.



Bastian Lehrheuer VKA Aachen University, WP4

Bastian Lehrheuer studied Mechanical Engineering at RWTH Aachen University. In 2012 he started his academic career at the Institute for Combustion Engines. He has worked for numerous research projects for gasoline combustion system development. Additionally, he was responsible for the coordination of the single cylinder testing and project support in terms of combustion system development. Since July 2018, he has been Chief Operating Officer of the Cluster of Excellence "The Fuel Science Center". As chief engineer, he also coordinates projects related to alternative fuels and combustion development at the Institute for Combustion Engines.



Lydia Rycroft, TNO, WP5

Lydia Rycroft is a scientist in TNO's CO<sub>2</sub> storage team in The Netherlands, conducting research as part of its applied geosciences unit. She graduated from Imperial College with an MSc in Geology in 2015 and previously spent three years working on international storage developments with IEAGHG. Her experience covers CCUS developments in the Port of Rotterdam and European policy and regulation regarding CO<sub>2</sub> storage.



Simon Morgenthaler, FZ Jülich, WP5

Simon Morgenthaler is a scientific assistant and PhD candidate at FZ Jülich. He studied mechanical engineering with a strong focus on energy management and process engineering. He is engaged in the topic of synthetic fuel production, industrial CO<sub>2</sub> sources and energy systems modelling and optimisation.



Constantin Sava, GeoEcoMar, WP5

Constantin Sava is a senior scientist at the National Institute for Research and Development of Marine Geology and Geoecology (GeoEcoMar) in Romania. He has been involved with CO<sub>2</sub> storage research in Romania since it began in 2002 and is involved in several EU initiatives regarding CCS.



Justus Andreas, Bellona, WP5

Justus is a Senior Policy Manager at the Bellona Foundation and Head of Bellona's UK Programmes. His work focuses on the decarbonisation of industry and associated climate technologies.



Emma ter Mors, Leiden University, WP6

Emma ter Mors is a Senior Researcher at Leiden University in the Netherlands. She obtained a PhD in Social Psychology at Leiden in 2009. In her PhD, she focused on the influence of message source perceptions on the selection, processing and acceptance of information concerning CCS technology. From 2009-2014, Emma worked at Leiden as a project leader and senior researcher on the sub-programme, "Public Perception", of CATO-2, the Dutch national research programme on CCS. For ALIGN-CCUS, Emma leads WP6 on Implementing CCUS in society, focusing on identifying factors that influence public perception and acceptance of CCS.



Kevin Broecks, TNO, WP6

Kevin Broecks is a scientist at TNO. He obtained a Master's degree in Innovation Science and a PhD in Communication at the Copernicus Institute of Sustainable Development at Utrecht University. In his PhD, he studied how citizens respond to communication about CCS. He has worked at TNO since 2018, where he has studied how the adoption of decarbonisation innovations in industry can be accelerated. He focuses on how industrial companies can involve internal and external stakeholders in their transition to carbon neutrality.



Diana-Maria Cismaru, SNSPA, WP6

Diana-Maria Cismaru is a doctor in Sociology, Full Professor and Head of Public Relations Department at the College of Communication and Public Relations in the National University of Political Studies and Public Administration (SNSPA), Bucharest. She has worked in SNSPA Bucharest since 1998, and had a research scholarship to George Washington University, in the US, in 2011. She has participated as an expert in 15 national and international research projects. She is the author or co-author of several books and more than 30 articles in the field of strategic communication, social media, and education.



Christine Boomsma, RIVM, WP6

Christine Boomsma is a senior researcher at the Dutch National Institute for Public Health and the Environment (RIVM). She was formerly Senior Researcher at Leiden University. Since obtaining a PhD in Environmental Psychology at the University of Plymouth (UK) in 2013, she has been a senior researcher on various interdisciplinary projects working closely with governments, NGOs and businesses. In ALIGN-CCUS, Christine led the task on community compensation. Her research involved examining public perceptions of CCUS and stakeholder views towards public engagement strategies (e.g. compensation) in order to develop tools that CCUS stakeholders can use to understand and engage with local communities and the wider public.