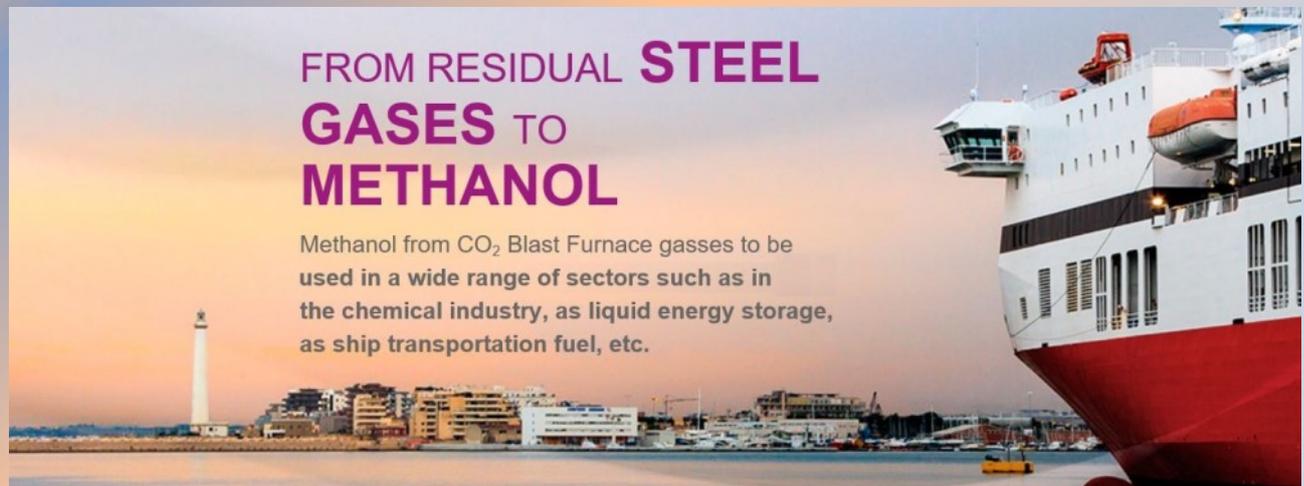




FReSMe Workshop

Carbon Capture and Utilization for CO₂ emissions reduction

26th June 2018



Department of Energia, Politecnico di Milano
Via Lambruschini 4, Milano (Building BL25)

| Time | Presentation title | Speaker |
|-------------|-----------------------------|-----------------------|
| 15:00-15:15 | Welcome and introduction | Polimi/i-Deals |
| 15:15-15:45 | Climate change issues | S. Caserini—Polimi |
| 15:45-16:15 | Carbon capture technologies | M. Romano—Polimi |
| 16:15-16:45 | CCUS and the FReSMe project | J. Vente—ECN |
| 16:45-17:15 | Market and future of CCUS | O. Sigurbjörnsson—CRI |
| 17:15-17:30 | Round table | À. Sanchez—i-Deals |
| 17:45 | Greetings and aperitif | |

[To participate, please click here to fill in the Workshop registration form](#)



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Prof. Stefano Caserini: Stefano has a Master degree in Environmental Engineering and PhD in Sanitary Engineering. He is adjunct professor of Mitigation of Climate Change at the Politecnico di Milano, where he is involved in researches on atmospheric pollution, life cycle assessment, municipal waste incinerator monitoring and greenhouse gas emission assessment and reduction. He also works as a consultant for private and public company in the fields of emission inventory, environmental impact assessment, air quality pollution and mitigation of climate change. He has been involved in technical assistance projects and training activities in Kosovo, China, Lebanon and Ethiopia. Author of many scientific publications, is also involved in the dissemination of scientific knowledge on climate change. Stefano has published five books and is founder and coordinator of *Climalteranti.it*, one of the main Italian blog on climate change, and Co-Director of the scientific journal “Ingegneria dell’Ambiente” (Engineering of the Environment).



Matteo Romano: Associate Professor of Energy Systems at the Department of Energy of Politecnico di Milano, he got a MSc in Environmental engineering and a PhD in Energy Engineering both from Politecnico di Milano. He is author of about 100 scientific papers, four book chapters and two patents on novel technologies for emission reduction and efficiency improvement of power plants and energy intensive industries. Matteo Romano is currently involved in 5 EU projects on low emission and efficient production of power, hydrogen, cement, steel and biofuels and has been responsible for scientific or technical contracts with power utilities, heat exchangers manufacturer, cement producer, water management company and European research institutes.



Currently, **Jaap Vente** at ECN part of TNO works in the group Sustainable Process Technology with a special focus membrane and sorption technology. Within this group, activities include materials research, system development, process design and implementation facilitation. Specific membranes that are being developed and brought to commercialisation include HybSi® (www.hybsi.com) and HySep® (www.hysep.com), while the sorbent based products includes SEWGS (sorption enhanced water gas shift) and sorption enhanced condensation reactions.

Jaap was originally educated in materials science and engineering at the Delft University of Technology. For his Ph.D. he moved to the University of Leiden to study complex iridium oxides. Subsequently, he accepted a position of post-doctoral research assistant at the Inorganic Chemistry Laboratory of the University of Oxford, in 1994. Four years later, he moved to Mexico to become an investigator at CINVESTAV. In 2003, he returned to the Netherlands and started to work at ECN on membrane technology.

He has published over 90 papers in peer reviewed journals, two book chapters and filed 7 patents. He was the co-chair of the International Conference on Inorganic Membranes in 2012.



Omar Sigurbjornsson joined Carbon Recycling International in 2009 as a Research Scientist and served as the company's Director of Research from 2010-2017. Omar was involved in various R&D activities including four EU funded projects on CO₂ based chemical production and high-temperature electrolysis. He was responsible for the companies laboratory and pilot plant operations as well as intellectual property. His current position is as the Director of Sales and Marketing.

Omar received his M.Sc. degree in Physical Chemistry from the University of British Columbia in Vancouver and a B.Sc. degree in Chemistry from the University of Iceland. Previously he worked as an academic researcher and in the aluminum industry in Iceland.



Ángel Sánchez was born in Madrid in 1970, the city where he obtained his degree in Physics (Universidad Complutense, UCM) and a PhD in Applied Physics (CSIC, Miguel Angel Catalan Physics Centre). After leaving research Mr. Sanchez joined IBM, where he led the development of software solutions for managing Environmental and Quality Systems. In 1998 he was hired by the consulting company Everis (former DMR), where he has developed different functions in business areas such as Telecommunications, IT Governance, Quality and Methodology and International Business Development. Later he moved to the Innovation Department, as a director in charge of identifying high potential opportunities for the Everis' group. One outcome of this work was the launch of i-deals, a "technology broker" whose business model relies in the mediation between those agents who produce innovative ideas, those who need them and those who are in a position to finance such opportunities. Currently, Angel Sanchez is a partner of Everis Initiatives (a division focused on the development of new businesses); as well as the head of Corporate Venturing at Fitalent (Everis group's venture capital fund). Finally, Dr. Sanchez is also a graduate from IESE Business School and has published several articles in the fields of Quantum Optics and IT governance, as well as participated in the direction of several doctoral theses.