

Forum Programme

Introduction

Global growth for methanol demand is primarily driven by oil displacement. Several governments around the world have recognised the advantages of methanol as a clean burning, alternative fuel. With innovative pilot projects within the EU already underway, should Europe now expand its methanol use?

The 1st European Methanol Policy Forum invites experts from industry, government and academia to join the debate over whether methanol can provide solutions to some of the big environmental and energy challenges that Europe faces?

In the context of the Paris climate negotiations taking place towards the end of the year, this event will discuss methanol's potential contribution in the following areas:

- Reduction and utilisation of CO₂
- Storage of intermittent energy supply
- Improvement of air quality
- Increase in supply of renewable energy
- Reduction in energy imports
- Acceleration of re-industrialisation and job creation

During the forum, speakers from around the globe will share experiences and expertise on renewable methanol technologies, methanol fuel solutions and the policies required to enable a successful implementation of these solutions.



Programme

08:30 – 09:00 Registration & Welcome Coffee

09:00 – 10:00 Introduction to Methanol

Methanol is one of the largest chemical commodities worldwide. However, for many years the main driver behind the strong demand in growth for methanol is not from chemicals, but as an oil substitute.

Current examples from other developed and developing countries illustrates the relevance of methanol with respect to various EU policies and legislative challenges, in the areas of; renewable energy, low carbon fuels, air quality, energy efficiency and many more.

09:00 – 09:05 Opening Remarks: Methanol in an EU Policy Context

Greg Dolan, CEO, Methanol Institute

09:05 – 09:25 Keynote Address: The Methanol Economy

Dr. G.K Surya Prakash, Director, Loker Hydrocarbon Research Institute and Department of Chemistry, University of Southern California

09:25 – 09:40 European Renewable Energy Policy

Bernd Kuepker, Policy Officer, Directorate C, Renewables and CCS policy, DG ENER, European Commission

09:40 – 10:00 Overview of the Global Methanol Industry

Mike Nash, Global Business Director, Syngas Chemicals, IHS Chemical

10:00 – 12:50 'Well' Session - Low Carbon Methanol Production

Now the dust has settled on the RED amendment and the ILUC debate, attention has to focus on the development of affordable advanced, non-crop based fuels. One such solution is producing renewable methanol from sustainable, non-food resources. Not only do these technologies have the potential to address societal and environmental challenges, they also offer an opportunity to improve energy security, create jobs and support the reindustrialisation of Europe.

Moderator: Youssef Travaly, Project Coordinator, SCOT

10:00 – 10:20 CO₂-to-Methanol in Iceland

Benedikt Stefansson, Director of Business Development, Carbon Recycling International (CRI)

10:20 – 10:40 Power to Methanol in German and European Context

Christian Schweitzer, Managing Director, bse Engineering Leipzig GmbH

10:40 – 11:00 Syngas from renewables – production of green methanol

Jim Abbott, Strategic R&D Engineer, Process Technologies, Johnson Matthey Plc

11:00 – 11:20 Morning Coffee Break

11:20 – 12:50 Mid-Morning Session

Moderator: Eelco Dekker, Chief Representative Europe, Methanol Institute

11:20 – 11:40 Biomass-to-Methanol

Bo Gleerup, CEO and Co-Founder, Nordic Green



11:40 – 12:10 Waste-to-methanol: a commerciality with Enkern

Marie-Hélène Labrie, Senior Vice President, Government Affairs and Communications, Enkern

12:10 – 12:30 DME: Local Solution for Global Problems

Dr. Rebecca Boudreaux, President, Oberon Fuels

12:30 – 12:50 Interactive Panel Discussion

12:50 – 13:50 Luncheon

13:50 – 16:10 'Wheel' Session - Methanol in Road Transportation

Methanol as a low carbon "shift" fuel has real potential to move toward a low carbon economy. It provides an alternative to 'electrification' by using existing infrastructure and engine technology at a significantly lower cost to society, not only as a gasoline component, but also as a diesel substitute.

Moderator: Adam Chase, Director, E4tech

13:50 – 14:10 Methanol as an Engine Fuel

Prof. Sebastian Verhelst, Associate Professor of Internal Combustion Engines, Ghent University

14:10 – 14:30 Back to the Future: Lessons from California's 1990s Methanol Program and Renewed Interest for Petroleum Reduction Goals

Paul Wuebben, Senior Director, Renewable Fuels, Carbon Recycling International (CRI)

14:30 – 14:50 GEM Fuels Development

Prof. Jamie Turner, Engines and Energy Systems, University of Bath



14:50 – 15:10 GEM Fuels in Motorsport

Marc de Jong, Principal, FIA WRC Academy

15:10 – 15:30 Methanol Fuel Cells

Mads Friis Jensen, Commercial Group Manager, SerEnergy

15:30 – 15:50 DME Experience in HDV

Jan Arnell, Project Manager DME, Volvo Group Trucks Technology

15:50 – 16:10 Low Carbon Transport Policy Post 2020

Antonio Tricas Aizpún, Policy Officer, Unit for Clean Transport & Sustainable Urban Mobility, Directorate C, DG MOVE, European Commission

16:10 – 16:30 Afternoon Coffee Break

16:30 – 17:35 'Beyond Road' Session - Low Carbon Energy Solutions

The use of low carbon methanol as a fuel is not limited to road transportation. It is a viable alternative to LNG in marine, and enables the use of fuel cell range extenders, and the production of clean electricity in remote areas.

Moderator: Bengt Ramne, Founder, Managing director, ScandiNAOS AB

16:30 – 16:50 Methanol as an Alternative Marine Fuel

Prof. Karin Andersson, Maritime Environment and Energy Systems, Department of Shipping and Marine Technology Chalmers University of Technology

16:50 – 17:05 Stena Teknik: Strategic View

Per Stefenson, MSc Naval Architect, Marine Standards Advisor, Stena Teknik



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17:05 – 17:20 Legislation and Safety

Kim Tanneberger, Lead Specialist, Strategic Research and Technology
Policy Group, Lloyds Register

17:20 – 17:35 Engine development and Power Generation

Toni Stojcevski, Project Manager, Methanol Adaption Project, Wärtsilä

17:35 – 17:55 Policy Debate

17:55 – 18:00 Closing Remarks

Greg Dolan, CEO, Methanol Institute

18:00 – 19:30 Cocktail Reception

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Practical Information

Refreshment Breaks and Networking Opportunities

Welcome Coffee and Registration	08:30 – 09:00
Morning Coffee Break	11:00 – 11:20
Luncheon	12:50 – 13:50
Afternoon Coffee Break	16:10 – 16:30
Cocktail Reception	18:00 – 19:30

Conference Documentation

Please log into the Online Delegate Networking System at **www.methanol2015.eu** to view the speaker presentations using the log in details provided in the **final information email**.

If you experience any issues when logging on to the system, please contact Rhian Morgan on **rhian.morgan@forum-europe.com** where she will reissue your details.

Wifi

Please find below the instructions for the WIFI:

1. Connect to the **Thon Hotels Network**
2. Choose **option 3: conference login**
3. Enter the password: **methanol**

Twitter

If you are registered on Twitter, then you can follow tweets that are posted about the event, and indeed tweet about the event yourself using the hash-tag **#Methanol2015**

Mobile Phones

Please be so kind as to switch your mobile phone to silent during each conference session. Thank you for your cooperation.



Taxis

Taxis can be ordered in advance from the main conference registration desk. Simply inform the staff of the time that you wish your taxi to arrive, and they will ensure that it is ordered and waiting for you at the allotted time.

Badges

We would be grateful if participants would wear their badges at all times.

Filming and Photography

There may be photography and filming at this event. If you do not wish for us to use your image as part of the conference outcomes or wider event promotion, please come and speak to one of the staff on the day, providing your business card. It is impossible for us to identify and contact those photographed and we thank you for your support in this matter.

Notes

About the Host and Sponsors



Methanol Institute www.methanol.org

The Methanol Institute (MI) serves as the global trade association for one of the world's most vibrant and innovative industries. Founded in 1989 to lobby the U.S. Congress in support of methanol fuel markets, MI now serves its members in every corner of the globe from our offices in Brussels, Singapore, Washington, D.C., and Beijing.

The global methanol industry impacts our daily lives in countless ways. Methanol is an essential chemical building block for numerous products that touch our daily lives, and in an era focused on alternative energy, it is an emerging energy resource. Last year, global methanol demand reached 65 million metric tonnes or 83 billion liters, with 40% of demand coming from fast-growing energy market segments.

The methanol industry's leading companies have joined to support MI as the most effective way to interact with governments, NGOs and potential new customers throughout the global marketplace. MI collaborates with each of our member companies to create solutions for the global industry, and to ensure that already vibrant markets for methanol and its numerous derivatives continue to thrive.

Most importantly, the leading executives of MI's member companies provide their vision and insight to help drive the future of the methanol industry. The Methanol Institute provides the platform for our members' voices to resonate throughout the global marketplace and in the halls of government around the globe.



Exclusive VIP & Speaker Dinner Sponsor



Methanex Corporation www.methanex.com

The world's largest producer and supplier of methanol to major international markets in North America, Asia Pacific, Europe and South America.

Headquartered in Vancouver, Canada, Methanex currently operates production sites in Canada, Chile, Egypt, New Zealand, the United States and Trinidad and Tobago. We are growing our production base in the United States by relocating two methanol plants from Chile to Geismar, Louisiana. The first plant, Geismar 1, began operations in January of 2015, and the second plant, Geismar 2, is targeted to be operational in late Q1 2016.

Our global operations are supported by an extensive global supply chain of terminals, storage facilities and the world's largest dedicated fleet of methanol ocean tankers.

The Power of Agility™ is our competitive advantage. It is how our global team of approximately 1,100 employees safely and reliably delivers on our brand promise everyday by quickly adapting and responding to our customers' needs and creating and capitalizing on opportunities in the marketplace. At Methanex, Responsible Care is the foundation of everything we do and is a key element of our global culture.

To learn more about our global operations and business around the world click [here](#).

Exclusive Cocktail Reception Sponsor



Methanol Holdings (Trinidad) Limited (MHTL)
www.ttmethanol.com

Methanol Holdings (Trinidad) Limited (MHTL) is a leading global petrochemical company producing methanol, UAN (32%), melamine and ammonia. The company has decades of production, marketing and distribution experience in the methanol industry, with an efficient and reliable global supply chain that includes storage facilities in key locations and a vessel fleet of eleven (11) chemical tankers. The company, via the affiliated marketing companies Southern Chemicals Corporation and Helm AG, markets up to 4 million MTPY of methanol globally.

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As a leading player in the petrochemical industry, MHTL continues to explore growth opportunities for its methanol business. MHTL recently announced its partnership with G2X Energy to construct a new world-scale methanol facility in the US. MHTL together with its affiliated companies also play a key role in developing emerging uses and markets for methanol.

Lanyard and Badge Sponsor



Southern Chemical Corporation (SCC)
www.southernchemical.com

Southern Chemical Corporation (SCC) delivers the highest level of service and solution-driven logistics to maximize the building blocks of your business. Backed by security of supply and a reliable distribution network, SCC distributes methanol and melamine to small and large companies throughout the Americas.

Since its founding in 1997, SCC has grown to become the preferred and reliable market leader of methanol sales and distribution in the Western Hemisphere. Starting in 2010, SCC further diversified its product portfolio with the addition of melamine. With strategically placed terminals and warehouses, an impressive vessel fleet, and multiple production plants SCC can meet the challenge of the market, regulatory changes and ever-expanding customer requirements.

Our commitment to our customers reaches beyond competitive pricing and dependable stock. We are fully invested in Responsible Care® practices and have provided years of exceptional customer service. With a strong leadership position in the market, SCC strives every day to deliver product, valuable information, and the most cost-effective logistical solutions to our customers, giving them a competitive advantage.

Notes

Speaker Biographies

Introduction to Methanol *09:00 – 10:00*

09:00 – 09:05



Greg Dolan, CEO, Methanol Institute

Greg Dolan has held a variety of senior management positions with the Methanol Institute over the past 19 years. In June 2014, he was appointed as permanent CEO of the global methanol industry trade association, after serving as Acting CEO for four years. Mr. Dolan manages MI's offices in Washington, Singapore, Beijing and Brussels, while directing international governmental relations, media relations, public education and outreach efforts. He has presented papers on methanol-related topics at over 50 international conferences, authored magazine articles, and written book chapters on the methanol industry. Mr. Dolan came to MI after spending a decade in a variety of public information positions in New York State, including the Department of Environmental Conservation, the Department of Transportation, and the Energy Research and Development Authority. Mr. Dolan holds a Bachelor of Arts degree in Political Science from Boston University, and did extensive post graduate work in Political Communication at the State University of New York-Albany.

09:05 – 09:25



Prof. G.K. Surya Prakash, Director, Loker Hydrocarbon Research Institute, University of Southern California

Professor Surya Prakash holds a B.Sc (Hons) from Bangalore University and a M.Sc. from IIT, Madras and a Ph. D. from the University of Southern California (USC). He joined USC faculty in 1981 and is currently a Professor and Director holding the Olah Nobel Laureate Chair in Hydrocarbon Chemistry at the Loker Hydrocarbon Research Institute. His research interests are in superacid, hydrocarbon, synthetic organic & organofluorine chemistry, with particular emphasis in the areas of energy and catalysis. He co-invented the direct oxidation methanol fuel cell.

He has trained more than 125 doctoral and post-doctoral scholars. He is prolific with more than 725 peer-reviewed publications holding ~ 50 patents. He has published 11 books. His awards include American Chemical Society (ACS) National Awards: 2004 Creative Work in Fluorine chemistry; 2006 George A. Olah Award in Hydrocarbon or Petroleum Chemistry and the 2006 Richard C. Tolman Award.

He received the 2007 Distinguished Alumni Award from IIT, Madras and the 2010 CRSI Medal from the Chemical Research Society of India. He was awarded (jointly with Olah) the inaugural 2013 \$1 Million Eric and Sheila Samson Prime Minister's Prize for Innovation in Alternative Fuels for Transportation by Israel. He is a fellow of the AAAS, a Member of the European Academy of Arts, Sciences and Humanities, Fellow of the European Academy of Sciences, Foreign Fellow of National Academy of Sciences, India and Fellow of the ACS. He also sits on several Editorial Boards. The book, "Beyond Oil and Gas: The Methanol Economy" (Wiley-VCH, 2006 and 2nd Edition, 2009, translated into four languages) co-authored with G. A. Olah and A. Goeppert is getting worldwide attention.

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09:25 – 09:40



Bernd Kuepker, Policy Officer, Directorate C, Renewables and CCS policy, DG ENER, European Commission

Being an agricultural economist by profession Bernd Kuepker started his career as agricultural researcher dealing mostly with quantitative analyses and economic forecasting. After a year in the German Ministry of Finance where he among other things represented Germany in the Committee on the Agricultural Funds he joined the Commission services in 2008. The first three year he worked for DG Agriculture before he moved to DG Energy where he deals mainly with questions regarding sustainability of biofuels and use of renewable energy in the transport sector.

09:40 – 10:00



Mike Nash, Global Business Director, Syngas Chemicals, IHS Chemical

Mr. Mike Nash is the Global Business Director for Syngas Chemicals, including the methanol and acetyls practices, within the IHS Chemical group. He works with a global team of regional consultants, based in China, the US and Europe, and ultimately overlays their analyses with a global perspective. His responsibilities include the weekly World Methanol Report and monthly World Methanol Analysis, as well as the weekly and monthly Global Acetyls Market Reports and the related World Analyses for Methanol, Acetyls and Formaldehyde. Before joining IHS Chemical in September 2012, Mr. Nash worked for BP's petrochemicals division for 19 years preceeding a two-year stint in Total's UK fuels business. He performed a variety of commercial roles within BP, in international business management, marketing, project management and logistics, based in London, Duesseldorf and Kuala Lumpur. His last role in Total UK was Logistics Director, Specialities. Mr. Nash holds a Master of Arts in English Language and Literature from Edinburgh University, UK, and a Master of Business Administration from Kingston University, UK.

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'Well' Session - Low Carbon Methanol ProductionMethanol

10:00 – 12:50

10:00 – 11:00

Moderator: Youssef Travalay, Project Coordinator, SCOT



Youssef Travalay holds a PhD in Materials Science together with a MBA. He has 15+ year work experience in managing highly complex, national, regional and transcontinental projects of strategic importance, with multiple stakeholders in a variety of sectors. He was for many years the chair/member of international scientific committees and has authored/co-authored 100+ journal and conference papers. He is currently coordinating, on behalf of GreenWin, the Smart CO₂ Transformation (SCOT) project, a collaborative European project focused on accelerating the market development of carbon dioxide utilization.

10:00 – 10:20

Benedikt Stefansson, Director of Business Development, Carbon Recycling International (CRI)



Benedikt Stefansson is Director of Business Development for Carbon Recycling International (CRI), based in Reykjavik, Iceland. Benedikt served as Policy Advisor to the Icelandic Minister of Economic Affairs, as VP Sales and Marketing for deCODE genetics, Reykjavik, Iceland and Project Manager for Complex Adaptive Systems at HNC Software (now Fair Isaac) in Santa Fe, New Mexico. Benedikt holds a C.Phil degree in Economics from the University of California Los Angeles, and a BS degree in Economics from the University of Iceland, Reykjavik.

10:20 – 10:40



Christian Schweitzer, Managing Director, bse Engineering Leipzig GmbH

Christian Schweitzer, Managing Director, bse Engineering Leipzig GmbH. Christian Schweitzer was born in July 1964 in Aachen. There he completed his engineering studies at the Fachhochschule Aachen. He also received his Bachelor of Business Administration in 1999 from the St. Gallen Management Institute, Switzerland. Since 1995, Mr. Schweitzer is managing director of bse Engineering Leipzig GmbH. The bse Engineering GmbH Leipzig works across whole Europe and is an independent, consultative and customer-oriented engineering company in the field of liquid and solid biomass.

With the successful establishment of the bioethanol plant in Zeitz in Germany in 2005 he joined the biofuel industry. Since that time Mr. Schweitzer has supported and implemented many bioenergy projects throughout Europe.

Furthermore, Mr. Schweitzer released different articles about BioEthanol, sugar mills and (sustainable) utilization of biomass as well as held presentations on these topics at International Bio-Energy conferences.

At the moment Mr. Schweitzer develops the technical and economic integration of the chemical Energy storage of Methanol in the Ethanol Industry.

10:40 – 11:00



Jim Abbott, Strategic R&D Engineer, Process Technologies, Johnson Matthey Plc

Jim Abbott is a Strategic R&D Engineer with the Syngas group in Johnson Matthey's Process Technologies Division. He graduated from Cambridge University in 1979 with an MA in Chemical Engineering and has worked for ICI and Johnson Matthey since then.

In 1989 he joined the Methanol process team and worked on the development and demonstration of JM's LCM technology. Since then he has worked mainly in the Syngas, Refinery and Gas Processing businesses of ICI and Johnson Matthey. Much of this time has been spent in process development of reforming, gas purification and

conditioning, and syngas conversion to products' technologies and he has more than 20 patents to his name.

His current role is to identify and develop new products across JM's Process Technologies Division.

11:20 – 12:50

Moderator: Eelco Dekker, Chief Representative Europe, Methanol Institute



Eelco Dekker joined the Methanol Institute (MI) as Chief Representative Europe in October 2014. Having worked as Chief Marketing Officer for BioMCN for the past seven years, Eelco brings extensive knowledge to MI about the European arena with regard to fuel blending, energy applications and regulatory affairs. Eelco primarily supports MI in the fields of gasoline blending and marine fuels, as well as exploring further possibilities to broaden the use of methanol in traditional diesel segments. Prior to working for BioMCN, Eelco has held several marketing and commercial roles at international chemical companies like DSM and Ciba Specialty Chemicals (now BASF) for more than 10 years.

11:20 – 11:40

Bo Gleerup, CEO and Co-Founder, Nordic Green



Mr. Gleerup serves as the CEO and is co-founder of Nordic green.

He has more than 15 years of experience with sales and distribution of different raw materials and ingredients for the food, feed and pharmaceutical industries.

He is furthermore the owner and Chief Executive Officer of the agency- and distribution company Johannes Eriksen. He is also a board member and business advisor for several companies.

BSc Business Administration, 41.

11:40 – 12:10



Marie-Hélène Labrie, Senior Vice President, Government Affairs and Communications, Enerkem

Marie-Hélène Labrie joined Enerkem in May 2008. Prior to that, she worked in communications, business strategy, and market analysis as Director of Marketing and Strategic Planning at CAE, and as a consultant for numerous organizations, such as Oliver Wyman Delta Organization & Leadership and Desjardins Financial Security.

She is Vice-Chair of the Board of Directors of Écotech Québec, a cleantech cluster, and she is a member of the Board of Directors of the Canadian Renewable Fuels Association, the Conseil des entreprises en technologies environnementales du Québec, and the Mississippi Biomass and Renewable Energy Council. She represents the company at the Advanced Biofuels Business Council in Washington and the Canadian Cleantech Coalition in Ottawa.

Ms. Labrie began her career at the Government of Canada, in the Department of National Defense, and pursued it at Industry Canada and the Privy Council Office.

Marie-Hélène Labrie holds a Masters in International Business and a Bachelor of Business Administration from Université Laval in Québec.

12:10 – 12:30



Dr. Rebecca Boudreaux, President, Oberon Fuels

Trained as a chemist, Rebecca Boudreaux, Ph.D. is an entrepreneurial, technology executive with a unique blend of technical skills and business development expertise. She has served on the management team or Board of Directors of various startup companies in the clean tech, life sciences, high tech, and non-profit sectors. Presently, she is President and Director of Oberon Fuels, a San Diego-based company making DME (dimethyl ether) as a cleaner, alternative to diesel. In her role at Oberon, Dr. Boudreaux leads the customer development and strategic partnering efforts with OEMs, feedstock suppliers, and trucking companies. Additionally, she oversees the regulatory processes for the use of DME as a fuel including EPA Renewable Fuel Standard compliance and ASTM specification development.

Dr. Boudreaux has a broad range of academic and industrial experience, having performed research at MIT, Princeton University, University of Southern Mississippi, Lawrence Livermore National Laboratory, and National Starch and Chemical. She earned a B.S. in Polymer Science (magna cum laude, University of Southern Mississippi) and a M.S. and Ph.D. in Polymer Science and Engineering (University of Massachusetts). Dr. Boudreaux has co-authored six peer-reviewed publications and is a co-inventor on 12 patents and applications.

In addition, Dr. Boudreaux presently serves as a Board Member of UrbanPromise International, an organisation working in Malawi, Uganda, Honduras, Canada, and the US to develop emerging leaders who will break the poverty cycle for children in under-resourced, urban communities.

'Wheel' Session - Methanol in Road Transportation *13:50 – 16:10*

13:50 - 16:10

Moderator: Adam Chase, Director, E4tech



Adam Chase leads our work on energy policy, strategy and finance and has degrees in Economics, Engineering, Energy & Environmental Technology. Adam has been a Director of E4tech since joining in 2000 and he has played a role in most of the projects which E4tech has undertaken through its London office. His project work often relates to corporate or national strategy and involves an understanding of how energy systems operate, rather than technologies in isolation. Adam's particular interest is low carbon innovation in the energy and automotive sectors. He also has operational responsibility for the London office.

Adam was previously a manager with the global management consulting firm A.T.Kearney, where he took part in and led teams engaged in a wide range of strategic and operational projects across the international energy and chemicals sectors. Prior to this, Adam worked for seven years in the upstream and downstream oil and gas industry and also spent time as a journalist with the Financial Times organisation, focusing on energy, environment and automotive issues. He speaks English and French.

Expertise:

Strategy and operations consulting, project management, market assessment, business growth, oil and gas industry, automotive industry, energy technology, hydrogen energy systems.

13:50 – 14:10



Prof. Sebastian Verhelst, Associate Professor of Internal Combustion Engines, Ghent University

Prof. Dr. ir. Sebastian Verhelst obtained his PhD in Electromechanical Engineering in 2005, on the combustion of hydrogen in spark-ignition engines. During his PhD, he spent 6 months at Leeds University as an EC Marie Curie Fellow. In 2008 he became a part-time lecturer and since 2011 he is a full-time Associate Professor at Ghent University. In 2013, he was a guest lecturer at the University of Antwerp.

His research interests are primarily alternative fuels, including hydrogen, methanol, ethanol, straight vegetable oils, animal fats and biodiesel. He has authored over 50 papers in international journals, 5 book chapters and over 90 papers in the proceedings of international conferences. 5 PhD's have been finished under his supervision, with 5 more PhD students currently in his team. He has been invited on several occasions, to submit topical review papers, deliver keynote speeches, organize tailored workshops etc.

Dr. Verhelst is president of the Belgian Society of Automotive Engineers (UBIA), and served as vice-chair of the Scientific&Technical Committee of the FISITA 2014 World Automotive Congress. He has been awarded with the VDK Prize for Sustainable Development 2005, the 2013 CIMAC President's award for the paper "The CRISTAL Engine: ABC's New Medium Speed Diesel Engine, Developed to Comply with IMO III" (co-authored with ir. Lieven Vervaeke and ir. Tim Berckmoes) and the 2014 SAE Forest R. McFarland Award.

14:10 – 14:30



Paul Wuebben, Senior Director, Renewable Fuels, Carbon Recycling International (CRI)

Paul Wuebben is the Senior Director for Renewable Fuels for Carbon Recycling International, responsible for downstream strategic planning and market acceptance of renewable methanol by transportation and energy storage end users, auto and engine manufacturers, and regulatory officials. He plays a central role in the company's growth, investment partnerships, end use technology optimization and future expanded large scale production of renewable methanol from recycled CO₂. Mr. Wuebben began his career as an EPA Fellow at the Harvard University School of Public Health. Subsequently, he had a three-decade long career at South Coast Air Quality Management District, serving as the Head of Mobile Source Control Planning, and as the Clean Fuels Program Manager, where he oversaw the nation's 1st multi-million dollar alternative fuels research, development, and demonstration program. In that capacity he administered over \$35 million in cost-shared RD+D projects covering the full range of alternative fuels and vehicle segments, including the world's first fleet demonstrations of alcohol flexible fuel vehicles, plug-in electric drive hybrids, LNG trucks and H₂ fuel cell buses. Mr. Wuebben was a founding member of the California Three Agency Methanol Task Force, as well as the Chairman of the California Electric Vehicle Task Force. From 1993 until 2011, Mr. Wuebben served as the agency's Clean Fuels Officer, where he oversaw all aspects of regulatory and legislative policy formation, including regulations governing the refining and distribution of gasoline

14:30 – 14:50

Prof. Jamie Turner, Engines and Energy Systems, University of Bath



Jamie Turner is Professor of Engines and Energy Systems and is a member of the Powertrain and Vehicle Research Centre.

He studied Mechanical Engineering at City University London and later did his PhD at Loughborough University while at Lotus Engineering. On obtaining his MEng he worked for Norton Motorcycles on Wankel rotary engines, then completed a first stint at Lotus including research on 2-stroke engines, then Cosworth Engineering in F1 and IndyCar racing, the latter triggering a life-long interest in alcohol fuels.

He then returned to Lotus, where over 21 years there culminated in 10 years leading the Powertrain Research Group. As well as being a specialist in pressure-charged engines, he investigated many novel concepts during this period, including variable compression ratio 2-stroke engines, Brayton cycle engines, gas turbine/fuel cell hybrids and decarbonised fuel synthesis and blending.

Latterly he spent two years leading spark-ignition engine research at Jaguar Land Rover, during which time he was also a Visiting Professor at the University of Bath, before moving to join the University full time in January 2015.

14:50 – 15:10

Marc de Jong, Principal, FIA WRC Academy



Marc de Jong has been part of the promotional team behind the FIA World Rally Championship (WRC) for the past 15 seasons. At WRC Promoter GmbH, Marc is responsible for the commercial relationships with the automotive sector – including OEMs and leading suppliers. Among specific projects managed by Marc are the development of young drivers categories and regulations.

Marc has extensive international experience in the car industry, motorsports and broadcasting. He has worked at the highest levels in touring cars, world rally, GT & sports car racing in projects with major brands and automotive suppliers. Between 2004 and 2010, Marc was part of Energy Efficient Motorsport - a UK government-funded think-tank focussed on promoting the use of sustainable technologies in

motorsport. He has competed as an international rally co-driver, most recently in the five-day electric vehicle challenge through the Alps.

The World Rally Championship is the FIA's premium rally series. WRC showcases authentic motorsport, high performance cars and the world's best drivers competing in dramatic surroundings ranging from the ice and snow of Scandinavia to the stifling heat of Sardinia. Established in its current format in 1973, WRC participants battle for the drivers' and manufacturers' world titles at rallies spanning 13 countries and four continents. More information can be found at www.wrc.com and www.wrcplus.com. WRC Promoter GmbH is responsible for all commercial aspects of the FIA World Rally Championship, including broadcast formats, TV production and the marketing of global media and sponsorship rights. The Promoter also has responsibility to increase the field of participants and to propose the venues that form the FIA WRC calendar.

15:10 – 15:30

Mads Friis Jensen, Commercial Group Manager, SerEnergy



Mads Friis Jensen is Commercial Manager of SerEnergy A/S and has been working in the fuel cell industry for more than a decade with various technologies and applications.

Since 2011 he has been focused on Methanol fuel cells and helped grow SerEnergy A/S to a leading technology and solutions provider within the Methanol fuel cell industry. Besides ensuring success in the near term commercial markets for stationary power, Mr Jensen has also been responsible for the creation of the first Methanol Refuelling station in Europe and accompanying Methanol fuel cell vehicles.

Mads Friis Jensen holds a MSc in Engineering from Aarhus University and has been upgraded at INSEAD within Strategy, innovation and Management.

15:30 – 15:50

Jan Arnell, Project Manager DME, Volvo Group Trucks Technology

Jan Arnell graduated from Chalmers Technical University in 1984 with a M SC degree in Mechanical Engineering. He worked 4 years at the faculty of Internal combustion engines before joining the Volvo group. Through the years he has worked with different technical projects,

mostly for advanced heavy duty diesel engines. After 2008 he has mainly worked with alternative fuels. He is situated in Goteborg Sweden at Volvo Group Trucks Technology. Jan is inventor and co-inventor on patents for engine systems and component design.

15:50 – 16:10



Antonio Tricas Aizpún, Policy Officer, Unit for Clean Transport & Sustainable Urban Mobility, Directorate C, DG MOVE, European Commission

Antonio Tricas Aizpún is an official of the European Commission since July 1991. He currently holds a post of Administrator – Policy officer in the Directorate-General for Mobility and Transport - Unit "Clean Transport & Sustainable Urban Mobility". In this position he is a member of the team responsible for the EU policy on alternative fuels, in particular for biofuels, bio-methane, natural gas and liquefied petroleum gas.

He has also worked in the Directorate-General for Energy, Units "Coal & Oil" and "Nuclear".

He holds a Master in Physics obtained at the University of Zaragoza and a Diploma in Nuclear Engineering obtained at the Complutense University of Madrid.

'Beyond Road' Session - Low Carbon Energy Solutions

16:30 – 17:35

16:30 – 17:35



Moderator: Bengt Ramne, Founder, Managing Director, ScandiNAOS AB

Professor of the Practice, MSc Naval Architect, with a broad experience in ship design, ship building and marine transportation systems. As R&D manager for Kvaerner Ships Equipment (nowadays TTS Ships Equipment) Mr Bengt Ramne led the product development of cargo access equipment and the development of innovative automatic cargo handling systems for ro-ro operation. Bengt was outfitting design manager during the start-up phase of Kvaerner Philadelphia Shipyard and has the recent years participated in a number of R&D projects both commercial and EU funded, focusing on the development of short sea shipping.

16:30 – 16:50



Prof. Karin Andersson, Maritime Environment and Energy Systems, Department of Shipping and Marine Technology, Chalmers University of Technology

Karin Andersson is professor in the division of Maritime Environment and Energy Systems. Her academic background is in Chemical Engineering (M Sc), Nuclear Chemistry (Ph D) and Environmental Systems Analysis. She also spent one year of studies in Archaeology. After working as a consultant in environmental systems analysis for seven years, she was one of the two founders of the research group for Environmental Systems Analysis at the department for Civil and Environmental Engineering at Chalmers in 1990 together with Torbjörn Svensson. The group has been active in developing and teaching environmental/sustainable development courses within different Master of Engineering programs at Chalmers and were a driving force in the development of research within Life Cycle Assessment (LCA) in Sweden. This led to the start of a national competence centre, CPM with participation of more than 10 large

Swedish companies. Karin is employed at the department of Shipping and Marine Technology since 2009. Her present research interests focuses on decision support relating to environmental impact and resource use caused by technical systems in shipping using Environmental Systems Analysis tools like life cycle assessment (LCA). Examples of present research projects are "future marine fuels from a life cycle perspective" and "marine energy systems modelling". The research is connected to the maritime competence centre Lighthouse.

16:50 – 17:05



Per Stefenson, MSc Naval Architect, Marine Standards Advisor, Stena Teknik

Per Stefenson graduated at CTH in Gothenburg, Sweden as Naval Architect, M.Sc., in 1981. He works as Marine Standards Advisor at Stena Rederi AB since 2009 with the task to follow standards and regulations development within international organizations such as IMO and EU. He is also coordinating the company's RTD projects including the efforts to test Methanol and other alternative fuels due to the new sulphur regulations. Per has previous experience as project manager from SSPA (maritime consultants) and the Swedish Maritime Administration where he was Head of Research and Technical Development. Per has also served as Marine Engineer in the Royal Swedish Navy, specialized in naval craft light weight design.

17:05 – 17:20



Kim Tanneberger, Lead Specialist, Strategic Research and Technology Policy Group, Lloyds Register

Kim Tanneberger is a Chartered Engineer. She has a Degree in Chemical Engineering. Kim joined Lloyd's Register Strategic Research and Technology Policy Group in 2008.

She is a certified Laboratory Technician and has worked in water and metallic material analysis. As a student she built and operated a surface water CO2 analyser for the University of East Anglia and was part of the first successful iron fertilisation experiment in the Southern Ocean (SOIREE). She has also worked in pharmaceutical process development (separation processes) and in the automotive materials sector (trim shop adhesives), before applying herself in the maintenance of engineering systems on oceanographic research vessels at the UK National Oceanography Centre for five years. Here she held various responsibilities. She was responsible for the readiness

and safety of equipment for research cruises. On board ship it was her responsibility to operate machinery and instrumentation throughout. She also worked on the development of a system of processes for our company organisation and she consulted on the commissioning of the winch system for RRS James Cook. She was promoted to Deputy Head Platform Systems.

As Lead Specialist she works on sustainability related emerging technologies she contributes to two current EU projects and is particularly interested in alternative fuels, where she has worked on projects related to alternative fuels, e.g. to run a marine auxiliary engine on biodiesel. Specifically on the subject of Methanol she has contributed to SPIRETH project and acted during this and the Germanica Project as a HAZID scribe. She is currently contributing to the METHASHIP Project.

17:20 – 17:35



Toni Stojcevski, Project Manager, Methanol Adaption Project, Wärtsilä

Toni Stojcevski is a professional within the area of business development. He has been working in various positions in Wärtsilä for 15 years and gained a broad experience in the shipping and power plant industry within the field of medium speed combustion engines for propulsion and power generation. In 2013 Toni graduated from the Executive MBA on the University of Gothenburg, School of Business, Economics and Law. As part of other business development tasks Toni is currently responsible for the “Methanol adaptation project” comprising of new product development, application and its market strategy. Toni is also accountable for the methanol solution delivery and conversion of the four main engines onboard Stena Germanica which will be the first ship in the world operating on methanol as a fuel while leaving positive trace on the shipping industry and the society in whole.