

9th Carbon Dioxide Utilisation Summit

18th - 19th October 2017

Reykjavik, Iceland

Key Topics

- Getting the Industry together to Strive towards Innovation
- CO₂ Utilisation's Role in a Sustainable Future
- Policy & Regulation
- Life Cycle Assessment of CO₂ Utilisation Projects
- CO₂ Bio Conversion to Renewables
- Electrochemical Reduction of CO₂
- CO₂ to Fuels
- CO₂ to Chemicals & Materials
- Applications for CO₂ Mineralisation

Exclusive Site Visit

Tuesday 17th October, 2017

Carbon Recycling International's
George Olah Renewable Methanol Plant



During the afternoon of Tuesday 17th October, prior to the conference, a limited number of attendees will receive the unique opportunity to visit CRI's George Olah Renewable Methanol Plant in Svartsengi.

Spaces for the site visit are of no extra charge and are reserved on a first come, first served basis. Please confirm your interest upon registration.

For Commercial & Sponsorship enquires please contact: Aleks Chrikishvili
+48 61 646 7027 - alex@acieu.net

For More Info & Registration, please contact: Rohan Baryah
+48 61 646 7022 - rbaryah@acieu.net

Following the success of its previous editions, ACI's 9th Carbon Dioxide Utilisation Summit 2017 will explore the ongoing developments of turning waste CO₂ into profitable, commercially viable opportunities. With insights from key industry players from pilot stage to full scale entities, the conference will address **both the technical and commercial aspects of CO₂ Utilisation** in Europe and across the globe.

This edition of the summit will highlight the different projects in place or expected to happen in the CO₂ utilisation, across the various segment (fuels, chemicals, renewables, building...).

The two days event will propose an in-depth look into these various projects, as well as challenges & opportunities but also policy & regulation, framing the industry. The participants will also have the chance to discuss how to keep the industry thriving as a whole and the potential role of CO₂ utilisation in the future.

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Speaking Opportunities

If you would like to be considered as a speaker at the event, for a 30-45mins presentation, please submit an abstract for consideration to:

Lauriane Pardoux +44 20 3141 0632 /

lpardoux@acieu.net

EXCLUSIVE SITE VISIT:

Carbon Recycling International's George Olah Plant

Svartsengi, Iceland: Tuesday 17th October 2017



The George Olah Plant has an annual production capacity of 4000 tons per year of methanol and is fully owned and operated by CRI. It is the first plant in the world to produce renewable liquid fuel from a source of renewable electricity and CO₂. It uses CRI's proprietary Emissions-to-Liquids (ETL) technology and was designed and constructed using a modular subsystem approach.

There is **no extra charge** to attend the site visit, but spaces are limited and allocated on a **first come first served basis**. Please register your attendance for the site visit when booking for the conference.

Opportunities to Meet your Target Audience

For information on available commercial opportunities, please contact:

Alex Chrikishvili +48 61 646 7027 /

alex@acieu.net

Registration is Simple

If you would like to register for this event or wish to find out more information, please contact:

Rohan Baryah +48 61 646 7022 /

rbaryah@acieu.net

DAY 1

Wednesday 18th October 2017

08:00 REGISTRATION & COFFEE

09:00 CHAIR'S OPENING REMARKS

09:15 KEYNOTE PRESENTATION Getting the Industry together to Accelerate Market Deployment of CO₂ Utilisation

Updates on the creation of a European
Association dedicated to CO₂ utilisation:

- Scope
- Objectives
- Activities
- Invitation to join membership



Damien Dallemagne
Project Coordinator for the Creation
of a European Association dedicated
to CO₂ Utilisation
GreenWin

10:00 CONFERENCE PRESENTATION CO₂ Utilisation's Role in a Sustainable Future



David Addison
Earth Challenge Manager
Virgin Management

10:45 MORNING REFRESHMENTS

11:15 PANEL DISCUSSION Policy & Regulation

- Policy scenarios related to CCUS (carbon capture, use and storage)
- Developing a regulatory framework to support CCU
- Insights and overview of projects to be funded by the EU
- How policy in Europe can influence the business scenario for technologies?
- Updates on CO₂ utilisation for fuel, reflected in the Renewable Energy Directive (n^o 2)

Each panellist will briefly introduce themselves - approx. 5mins, before starting the panel Q&A

12:00 CONFERENCE PRESENTATION Life Cycle Assessment of CO₂ Utilisation Projects

- Determining the viability of a CO₂ utilisation project
- How to measure this when aiming for innovation?
- Predicting how the final product will behave

12:45 LUNCH

14:00 SESSION ONE CO₂ Bio Conversion to Renewables

- Micro algae, bacteria: Improving performance by new reactor design
- CO₂ used to avoid macrofouling in large power plants: potential and expectations
- Scope of CO₂ use in greenhouses
- Algal technology: potential for converting CO₂ into renewables on non-aral land using non-potable water resources
- **CO₂ recycling by microalgae - A strategy to kill two birds with one stone: Water shortage and agricultural productivity**



Kirsten Heimann
Associate Professor - College of
Science & Engineering
James Cook University

15:50 AFTERNOON REFRESHMENTS

16:20 SESSION TWO Electrochemical Reduction of CO₂

- CO₂ electroreduction by coupling renewable energy
- Using photo/electrocatalysis of carbon dioxide in order to develop new materials
- **CO₂ electrolysis as key technology for the production of high value chemicals**
- CO₂ to high value chemicals
- Powerful electrolysis technology platform
- Using renewable energy



Dr. Klaas Jan Scouten
Program Manager Electrochemistry
Avantium

17:35 CLOSE OF DAY ONE

DAY 2

Thursday 19th October 2017

08:30 REGISTRATION & COFFEE

09:00 CHAIR'S OPENING REMARKS

09:05 SESSION THREE CO₂ to Fuels

- Case study - The George Olah methanol plant



Omar Sigurbjornsson
Research Director
**Carbon Recycling
International**

- The success of new fuels being driven by sustainability and renewable energy
- Syngas production through CO₂ conversion
- Methanol synthesis using CO₂

10:55 MORNING REFRESHMENTS

11:25 SESSION FOUR CO₂ to Chemicals & Materials

- CO₂ to green chemical & material feedstocks
- Using CO₂ for polymers, as an alternative carbon resource
- Chemical conversion of CO₂ to high value products
- New developments in materials & polymers: drivers and expectations



Christoph Guertler
Catalysis
Covestro

13:15 LUNCH

14:30 SESSION FIVE Applications for CO₂ Mineralisation

- Challenges & opportunities of the segment
- A look at carbonation for industrial wastes and by-products using CO₂
- Transforming solid waste and CO₂ into building materials

15:45 CHAIR'S CLOSING REMARKS


15:55 END OF CONFERENCE & NETWORKING
REFRESHMENTS

Previous Attendees Include


BMBF | E.ON | Sunfire GmbH | ArcelorMittelland
Innovation | ACP Polska Sp | Aqualia | Audi
AG | Avantium | Total | Gas Natural
Fenosa Engineering | TECNALIA | SINTEF
Energy Research | Iberdrola | Ecofys |
FOM-institute DIFFER | ENEA Consulting |
VITO | IPG Industrial Project Group Srl |
International Energy Agency (IEA) |
Climeworks AG | Bayer Material Science |
DNV GL | Jagiellonian University |
ETOGAS GmbH | Five Quarter Energy
Limited / Five Quarter Energy | PTT
Exploration & Production PCL / PTTEP |
DIFFER | Solvay SA | TNO | Energibyen,
Skive | KSLA | VTT | GreenField Speciality
Alcohols Inc / GreenField | RAFAKO S.A. |
Bilfinger Bohr- Und Rohrtechnik GmbH |
Linde AG | Institute For Energy Technology
(IFE) | The Chemical Coal Processing
Institute | Mitsubishi Hitachi Power Systems
Europe GmbH / MitsubishiHitachi
PowerSystems | Borealis Polyolefine GmbH
| ON | University Of Antwerp | Joule
Unlimited | Yara Int. | PTT PLC | Clariant
Produkte (Deutschland) GmbH | Gas
Natural Fenosa | INHA University | FCC
AQUALIA, S.A. | Antwerp Port Authority |
Jupiter Oxygen Corporation | OMV |
Bertrandt Ingenieurbuero GmbH |
Chemieanlagenbau Chemnitz GmbH | GDF
Suez | CCM Research | BASF New
Business GmbH | Unimore//Protesa |
MARU Teknik AB | PTT Public Company Ltd
| KH Engineering B.v | Naviglobe NV | &
many more!

Registration is Simple

If you would like to register for this event or wish to find out more information, you can contact **Rohan Baryah** using any of the following methods:

 +48 61 646 7022

 rbaryah@acieu.net

 <http://www.acieu.net>

 Postal Address:
ACI Europe, 10 Gough Square, London, EC4A 3DE

Registration is Simple

Conference (Includes Access to All Documentation)
18th & 19th October 2017

£1,595
(Excl. VAT)

Documentation Packet Only

£420.00

Please Note.

Members and customers of all supporting organisations are entitled to a discount off their conference package.

For more information please call Rohan on +48 61 646 7022

Documentation Packet Available

We are selling 9th Carbon Dioxide Utilisation Summit papers at just £395 (+£25 P&P). Simply tick the box on the booking form, send it with payment and your copy will be on its way to you after the meeting. This important manual will be a source of invaluable reference for the future.

About ACI

ACI, a UK owned company, has been running successful conferences in the USA since 1999. Headquartered in Chicago with offices all around the States, ACI opened its European head office at the end of 2005 and has expanded rapidly, launching a series of events in key industries including maritime, energy, oil & gas, cosmetics, chemicals & media.

Terms & Conditions

Payment

Payment must be received within five business days of returning the signed contract. After receiving payment a VAT receipt will be issued. If you do not receive a letter outlining details two weeks prior to the event, please contact the Conference Coordinator at ACI Europe Ltd.

Discounts are available for multiple/group bookings. Please call **Rohan Baryah** on +48 61 646 7022 for more information.

Cancellations

Substitutions are welcome up to 24 hours prior to the event. Cancellations must be received in writing no less than 3 weeks prior to the start of the conference; a full credit voucher towards a future ACI conference will be issued. Any cancellation received less than 3 weeks prior to the start of the event shall be deemed to be a breach of this contract by client, and accordingly, no credits will be given. Cancellations must be received in writing by mail or fax three weeks before the conference. Thereafter the full conference fee is payable. If for any reason ACI Europe Ltd decides to amend, cancel or postpone this conference, the conference fee will not be refunded. Furthermore, ACI Europe Ltd will not be responsible for covering airfare, hotel or other costs incurred by registrants. In the event that ACI Europe Ltd cancel or postpone the event, ACI Europe Ltd reserves the right to transfer this booking to another conference to be held in the following twelve months, or to provide a credit of an equivalent amount to another conference within the following twelve months. The construction, validity and performance of this agreement shall be governed in all respects by the laws of England to the exclusive jurisdiction of whose courts the Parties hereby agree to submit.

Accommodation

The cost of accommodation is not included in the event fee. Preferential rates will be arranged with or near the event venue, and all confirmed delegates will be given details of how to book accommodation at this rate in due course.