

CARBON DIOXIDE UTILISATION SUMMIT 2013

BRUSSELS, BELGIUM 30TH-31ST OCTOBER 2013

CO₂ as a Feedstock for Fuels & Chemicals

KEY TOPICS

- Global trends in climate change regulations
- What will be the major carbon dioxide source in the future?
- Understanding the current and future potential CO₂ market size

SPONSORS



A Responsible Care® Company



EARTH
CHALLENGE

Group
Discounts
Available



Carbon Dioxide Utilisation Summit 2013

Brussels, Belgium

30th – 31st
October
2013

ACI's Carbon Dioxide Utilisation Summit 2013 will address the current and near term policies for carbon control worldwide. The event will forecast the future sources of CO₂ and analyse diverse qualities of carbon dioxide. The conference will provide in depth analysis of current and future CO₂ market size, as well as drivers & constraints of CO₂ demand. Strong carbon pricing or equivalent regulatory mechanisms will ultimately be necessary to drive widespread commercial deployment of carbon dioxide utilisation technologies. Thus the fundamental purpose of this summit is to investigate existing and emerging uses of CO₂ for industrial applications, which considers the near term application of mature technologies as enhanced oil recovery (EOR) and the longer term application of a number of promising new technologies in petrochemical, biochemical, urea, fuel and power energy sectors.

Confirmed Topics for Discussion:

- Global trends in climate change regulations
- What will be the major carbon dioxide sources in the future?
- Understanding the current and future potential CO₂ market size
- CO₂ trading & price dynamics
- Technologies for tomorrow's enhanced oil recovery with the usage of CO₂
- Pathways to convert the plentiful greenhouse gas into fuels
- Utilisation of CO₂ as a feedstock for value added products in petrochemical industry
- Carbon dioxide utilisation green-chemical technologies
- Urea yield boosting with CO₂
- Carbon dioxide utilisation projects case studies



The two day conference will comprise a series of informative presentations combined with interactive Q&A sessions and discussions, allowing you to express your views as well as seek answers and advice from leading figures in the industry.

Call for Papers

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

+44 (0)20 3141 0643

tjoo@acieu.net

<http://www.acius.net>

Postal Address:
ACI Europe, 5/13 Great Suffolk Street, London, SE1

Registration is Simple

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

+44 (0)20 7981 2503

jkorfanty@acieu.net

<http://www.acius.net>

Postal Address:
ACI Europe, 5/13 Great Suffolk Street, London, SE1



Who Should Attend?

The event will attract fossil & bio-based industry players, who are interested in the latest advancements in CO₂ utilisation routes or seeking sector growth analysis.

If you are looking for a comprehensive progress update on the global CO₂ utilisation industry including a ten year market demand & growth outlook and the latest technology advancements look no further than ACI's Carbon Dioxide Utilisation Summit 2013.

Sponsorship and Exhibiting Opportunities

Companies can gain direct access to our senior level audience and have an increased level of visibility through branding and networking at the conference. For information on available sponsorship and commercial opportunities, please Mark Thomas on:

+44 (0)20 3141 0228

mthomas@acieu.net

<http://www.acius.net>

Postal Address:
ACI Europe, 5/13 Great Suffolk Street, London, SE1

DAY 1

Wednesday 30th October 2013

08:00 REGISTRATION & COFFEE

09:00 CHAIRMAN'S OPENING ADDRESS

09:15 CONFERENCE PRESENTATION

Global Trends in Climate Change Regulations

- Restriction on carbon emissions throughout the world continues to grow
- Existing carbon regulations: International, United States, EU and Asia Pacific
- Hurdles to future carbon regulations and expected trends

Andrew Read

Manager - CCS Project
Government of Alberta

10:00 CONFERENCE PRESENTATION

What Will be the Major Carbon Dioxide Sources in the Future?

- Future outlook of natural geological CO₂ reservoirs
- The availability of Anthropogenic CO₂ as a by-product from diverse industrial processes
- Is there an opportunity to extensively replace the natural CO₂ with anthropogenic CO₂ for applications such as Enhanced Oil Recovery (EOR)?
- Different qualities of Carbon Dioxide

Eryk Remiezowicz

Research and Development Manager
ACP

10:45 MORNING REFRESHMENTS

11:15 CONFERENCE PRESENTATION

Understanding the Current and Future Potential CO₂ Market Size

- CO₂ market outlook: Supply & Demand
- Major drivers & constraints of CO₂ demand

Dr. Gernot Klotz

Executive Director Research & Innovation
CEFIC

12:00 SESSION ONE

David Addison

Earth Challenge Manager
Virgin Management Ltd.

Christoph Gebald

Director & Founder
Climeworks AG

13:00 LUNCH

14:00

SESSION TWO

Technologies for Tomorrow's Enhanced Oil Recovery with the usage of CO₂ Europe's energy and industry future needs CO₂ enhanced oil recovery

- CO₂-EOR stimulates economic growth, employment and revenues for companies and governments
- CO₂-EOR enables a flexible energy supply and a low cost climate change mitigation option
- CO₂-EOR is the key driver for various CO₂ applications

Stijn Santen

Director CO₂-Net B.V.
CO₂-Net B.V.

- The injection of carbon dioxide (CO₂) into oil reservoirs for enhanced oil recovery (EOR)
- Monitoring of the progress of the CO₂ flood through pulsed neutron logging (PNL)
- Latest technological advancements in EOR

15:50

AFTERNOON REFRESHMENTS

16:20

ROUND TABLE DISCUSSIONS

Table 1:

- What are the near term and current policies for carbon control worldwide?

Table 2:

- What are the major pitfalls to future CO₂ technologies and how can they be avoided?

Table 3:

CO₂ pricing and transportation possibilities

17:20

SESSION THREE

Pathways to Convert the Plentiful Greenhouse Gas into Fuels

- The production of Renewable Methanol from CO₂ feedstocks
- CO₂ fermentation to produce fuels & chemicals

Lanzatech

Tony Alderson

CCS Technical Lead, Power Generation
Parsons Brinckerhoff

18:35

CLOSE OF DAY ONE

With Thanks to Our Sponsor:



DAY 2

Thursday, 31st October 2013

08:30 REGISTRATION & COFFEE

09:00 CHAIRMAN'S OPENING ADDRESS

09:05 SESSION FOUR

Carbon Dioxide Utilisation Projects Case Studies

- Utilisation of CO₂ as solvent in emerging Enhanced oil Recovery technologies
- Using CO₂ as a feedstock in polymer production
- Introducing the technology produces methanol by catalytic reaction of CO₂ and H₂

Edward Rode

Principal Researcher
DNV

Paul Snaith

Executive Vice President, Chief Business Officer
Joule Unlimited Technologies, Inc.

Dr. Dennis Krämer

Dechema e.V.

10:55 MORNING REFRESHMENTS

11:25

SESSION FOUR

CO₂ AS A CARBON FEEDSTOCK FOR THE PRODUCTION OF VALUE-ADDED CHEMICALS

- CO₂ as possible future raw material for polycarbonates and polyurethanes
- Chemical transformation of CO₂ to fine chemicals
- Electrochemical technologies for converting CO₂ to formates and oxalates

PhD Thibault Cantat

Researcher
CEA - Atomic Energy & Alternative Energies
Comission

3rd Generation Biochemicals

Dr. Thomas Haas

Vice President Biotechnology
Evonik Industries AG

CO₂-based Polycarbonate Polyols for Polyurethane Applications

- Environmental benefits
- Economic advantages versus petroleum based polyols
- Performance of CO₂ based polyols in a number of polyurethane applications

Peter Shepard

Chief Business Officer
Novomer Inc.

13:15 LUNCH

Join Our Panel of Speakers

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

Tamas Joo

Tel: +44 (0)20 3141 0643

Email: tjoo@acieu.net



With Thanks to Our Sponsor:



**EARTH
CHALLENGE**

14:15 **CONFERENCE PRESENTATION**
Innovative technologies for conversion of CO2 into biochemicals

Dr. Ludo Diels

Scientific Manager for Sustainable Chemistry
The Flemish Institute for Technological Research

15:00 **CONFERENCE PRESENTATION**
Urea yield boosting with CO2

- CO2 capture from natural gas boiler on urea plant
- Enhancing the efficiency of the process also to improve conversion rates as well as to reduce

Fertilisers Europe

M T Keshe

Director
Keshe Foundation

16:15 **AFTERNOON REFRESHMENTS**

16:45 **CONFERENCE PRESENTATION**
CO2 Utilisation - Green washing or Business Option

- Global CO2 emissions compared to CO2 utilisation
- Utilisation, Replacement or Emission Reduction
- Technology Readiness of Utilisation Technologies
- Niche Market or Growth Market for CO2 utilisation

Dr. Peter Radgen

Head of E.ON Innovation Center
E.ON

- Utilisation of supercritical CO2 as the heat transfer medium in EGS to generate power through a CO2 turbine
- Proximity of the CO2 source and access to at an acceptable cost
- Design and optimisation of supercritical CO2 turbine

Dominic Hofstetter

VP of Business Development
Electrochaea.dk ApS

18:00 **CHAIRMAN'S CLOSING ADDRESS**

18:20 **CLOSE OF CONFERENCE**



With Thanks to Our Sponsor:



A Responsible Care® Company

CARBON DIOXIDE UTILISATION SUMMIT 2013

Brussels, Belgium

30th-31st
October
2013

Registration Is Simple

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

+44 (0)20 7981 2503

jkorfanty@acieu.net

http://www.acius.net

Postal Address:
ACI Europe, 5/13 Great Suffolk Street, London, SE1 0NS

Registration Is Simple

Conference (Includes Documentation Packet) 30th & 31st October 2013	£1,495.00
Documentation Packet Only	£420.00

Please Note.

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

Documentation Packet Available

We are selling Carbon Dioxide Utilisation Summit 2013 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, have been running successful conferences for the last 15 years in the USA. Headquartered in Chicago with offices all around the States, they run forums in varied fields and are market leaders in healthcare business conferences. Opening their European head office at the end of 2005, they have expanded rapidly and are launching a series of events covering maritime, energy, oil & gas and chemical industries.

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.

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.

Thanks To Our Supporting Partners

