

7th



Carbon Dioxide Utilisation Summit 2016

19th & 20th October • Lyon, France

Existing & Potential CO₂ Re-use - Exploring The Evolving Field

KEY TOPICS

- Policies Mitigating CO₂ Emissions
- Valley of Hope: Post COP21 & Impact on CO₂ Utilisation
- Holistic Evaluation Using Life-Cycle Assessment (LCA)
- CO₂ as Feedstock for Chemicals & Plastics
- Carbonate Mineralization for Building & Industrial Uses
- CO₂ to Fuels
- CO₂ Utilisation Game Changers: Discovering Innovative R&D Concepts

SITE VISIT

IFP Energies Nouvelles



Tuesday 18th October 2016

During the afternoon prior to the conference, a limited number of attendees will receive the unique opportunity to visit IFP Energies Nouvelles site in Lyon. Spaces for the site visit are of no extra charge and are reserved on a first come first serve basis. Please confirm your interest upon registration.

For sponsorship enquiries please contact Maureen Ignacio
+44 203 141 0636 mignacio@acieu.net

ACI's 7th Carbon Dioxide Utilisation Summit 2016 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 aims to highlight the changes post-COP21 addressing challenges & opportunities in framework across CO2 emitting industries such as **Industrial Manufacturing, Power to Gas/Liquids, Fuel, Petrochemical, Chemical, Urea, Algae, and Power/Energy.**

EXCLUSIVE SITE VISIT: IFP Energies Nouvelles

Lyon, France: Tuesday 18th October 2016

CO2 Capture (Chemical Looping Combustion and de-mixing solvent), EOR CO2, CO2 Electro reduction Facilities

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.



IFP Energies Nouvelles Site Visit Itinerary

- 12:00 Site visit registration at conference hotel/ venue
- 12:30 Bus departs conference hotel/ venue
- 13:30 Arrival & Registration at IFP Energies Nouvelles facility
- 13:45 Welcoming Address by IFP Energies Representative
- 14:00 Tour Commences
- 16:00 End of tour & closing remarks
- 16:30 Coffee & Refreshment break
- 17:00 Bus departs IFP Energies Nouvelles facility

Previous Attendees Include:

| BMBF | E.ON | Sunfire GmbH | ArcelorMittal | 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 / & Many More

Confirmed Topics for Discussion:

- Policies Mitigating CO2 Emissions
- Valley of Hope: Post COP21 & Impact on CO2 Utilisation
- Holistic Evaluation Using Life-Cycle Assessment (LCA)
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Previous Conference Testimonial

"The audience was very diversified; as a speaker, I experienced great interest and in-depth questions concerning the topic, also at the visit at the Audi e-gas-plant in Werlte. In terms of content, administration and "networking usefulness", the conference was really outstanding."

Hermann Pengg, Head of Renewable Fuels, Audi AG



FOR SPEAKING OPPORTUNITIES CONTACT :

Jasmine Okure

Tel: +44(0)20 3141 0647

FOR COMMERCIAL OPPORTUNITIES CONTACT :


Maureen Ignacio


+44 (0)203 141 0636

mignacio@acieu.net

Registration is Simple:

To find out more information and to register, please contact **Claire Taylor Payne** using any of the following methods:

 +44 (0) 203 141 0601

 claire@acieu.net

 http://www.acieu.net

DAY 1

Wednesday 19th October 2016

08:00 **REGISTRATION & COFFEE**

09:00 **CHAIRMAN'S OPENING REMARKS**

09:15 **CONFERENCE SESSION ONE**

Policies Mitigating CO₂ Emissions

- An overview of the rapid development in CO₂ utilisation over the last 2-3 years
- CO₂ utilisation's role in achieving a <1.5°C sustainable future
- An Update of the EU Climate and Energy Policy and its relation to CO₂ Utilisation

David Addison
Earth Challenge Manager
Virgin Management Ltd

Maria Velkova
Policy Officer, CCS And FQD
European Commission

11:05 **MORNING REFRESHMENTS**

11:35 **PANEL DISCUSSION**

Valley of Hope: Post COP21 & Impact on Carbon Dioxide Utilisation

- COP21 conference on climate change new framework set in place to keep CO₂ emissions lower than 2%. This has effected CO₂ emitting industries such as the Steel, Cement and air fuels as they all now need CO₂ certificates.
- Technology deployment on a large scale – overcoming the obstacles
- Piloting and scaling up of technologies – the importance of fundamental research
- Discussing the consequences and perspectives across various CO₂ emitting industries
- Cross industry cooperation – recycling waste from one plant to another
- Comparisons with CCS case studies and logical proof that CDU is more economically feasible.
- CO₂ Usage and integration of energetic systems – from a business perspective

Ahmed Belghazi
Research Program Manager
Total

Tom Thompson
Chairman/CEO
Enviro Ambient

12:50 **LUNCH**

14:05 **CONFERENCE SESSION TWO**

CO₂ as Feedstock for Chemicals & Plastics

- Capturing CO₂ from flue gases of a Waste to Energy plant for production of Sodium Bicarbonate
- CO₂-based monomers & polymers
- CO₂ as a building block for polyesters

Andy Roeloffzen
Project Manager
Twence

Christoph Guertler
Head Of The Catalysis Program
Covestro

Christian Von Olshausen
Chief Technical Officer (CTO)
Sunfire GmbH

15:55 **AFTERNOON REFRESHMENTS**

16:25 **CONFERENCE SESSION THREE**

CO₂ as Feedstock for Chemicals & Plastics Pt 2

- CO₂ usage in materials & chemicals – intermediates
- Improving production efficiency with direct CO₂ incorporation

Siw Fredriksen
Advisor
Norner AS

Simon Waddington
Market Development Manager
Novomer

Thomas Haas
Vice President Science & Technology
Evonik

18:15 **CLOSE OF DAY ONE**

DAY 2

Thursday 20th October 2016

08:30 **REGISTRATION & COFFEE**

09:00 **CHAIRMAN'S OPENING REMARKS**

09:05 **CONFERENCE SESSION FOUR**
Carbonate Mineralization for Building & Industrial Uses

- The journey towards commercial production of 'Carbon8' aggregates
- Evaluating concrete curing processes reducing energy requirements & CO₂ emissions.
- The transition: From emissions to green building materials

Colin Hills
Professor Of Environment And Materials
Engineering Director, CCLR Faculty Of Engineering
And Science
University Of Greenwich Chatham Maritime

Frédérique Bouillot
R&D Engineer
Recoval

Christian Richard
PCC Developer In-situ
Consultant & Inventor

10:20 **CONFERENCE PRESENTATION**
COP21 & Broad Societal Perspectives on CCU

- Summary points TBA

Mark Lawrence
Managing Scientific Director
**Institute For Advanced Sustainability
Studies E.V (IASS)**

11:05 **MORNING REFRESHMENTS**

11:35 **CONFERENCE SESSION FIVE**
CO₂ to Fuels

- SUN-to-LIQUID: Solar-thermochemical synthesis of hydrocarbon fuels from H₂O and CO₂
- Air fuel industry developments – challenges & opportunities
- Fuels for the future- an algae biofuel case study

Valentin Batteiger
Senior Expert Solar Fuels Research
Bauhaus Luffahrt E.V.

Ralph-Uwe Dietrich
Research Area Manager Alternative Fuels
**Institute Of Engineering
Thermodynamics (DLR)**

13:25 **LUNCH**

14:40 **CONFERENCE SESSION SIX**
**CO₂ Utilisation Game Changers:
Discovering Innovative R&D Concepts**

- R&D applications – several new projects in the pipeline that have received investment; direct activation of CO₂ (more efficient & cheaper)
- Recent developments in microbial electro synthesis
- Power to X (the utilisation of CO₂ for various sources chemicals, fuels, gas, liquid etc.)
- New patents filed and status of new developments
- The developments of new conversion routes from CO₂ to product
- Power to cosmetics – algae developments for speciality oils
- Biomass & microorganism - popular topic of research

Youssef Travalay
Senior Project Manager - SCOT Project
Greenwin

16:30 **CHAIRMAN'S CLOSING REMARKS**

16:40 **END OF CONFERENCE & AFTERNOON
REFRESHMENTS**



For commercial & sponsorship opportunities please contact:
Maureen Ignacio
+44 203 141 0636/
mignacio@acieu.net


7th Carbon Dioxide Utilisation Summit

Lyon, France

19th-20th
October
2016


Registration Is Simple

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

 +44 (0) 203 141 0601

 claire@acieu.net

 <http://www.acieu.net>

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

Registration Is Simple

Conference (Includes Documentation Packet)

19th & 20th October 2016

£1,495.00

Documentation Packet Only

£420.00

Please Note.

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

For more information please call +44 (0) 203 141 0601

Documentation Packet Available

We are selling the 7th Carbon Dioxide Utilisation Summit 2016 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 the maritime, energy, oil and gas 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.

Discounts are available for multiple/group bookings. Please call
+44 (0) 203 141 0601

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