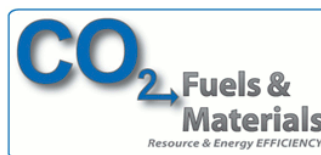


The CO₂ Forum

International Forum
on Sustainable CO₂ Chemical &
Biochemical Utilization
<http://co2forum.cpe.fr>



In association with the
ICCDU
International Conference
on Carbon Dioxide Utilization
<http://iccd2016.org.uk/>



and with the
CO₂Chem
Carbon Dioxide
Utilisation Network
<http://co2chem.co.uk/>



presents its 4th edition

« Large-Volume CO₂ Utilization: Enabling Technologies for Energy and Resource Efficiency »

ICCDU-CO₂ Forum Morning session

“Carbon Dioxide Utilization Deployment : an Industrial Reality”

08:15 - 09:00

Registration and welcome coffee

09:00 - 09:10

Welcome Address

Alessandra QUADRELLI, CO₂ Forum chairwoman (CPE Lyon –CNRS)
Chunsang SONG, ICCDU (Penn State , EMS Energy Institute)

09:10 - 10:30

Session 1- Update on ongoing LARGE SCALE Industrial CDU deployment : part 1 Materials

Chair
Moderator

Chunshan SONG, Penn State , EMS Energy Institute
Hans BOLSCHER, Trinomics

Panelists

Christoph GÜRTLER, Covestro (G) “Markets for Polyurethanes with CO₂”
Ah-Hyung (Alissa) PARK, Columbia University (US) “Development of CSS technologies”
Colin HILLS, Carbon8 (UK), “Inorganic Carbonates: aggregates from CO₂ gas”

10:30 - 11:15

Coffee break

11:15 - 12:15

Session 2- Update on ongoing LARGE SCALE Industrial CDU deployment : part 2 fuels and more

Chair
Moderator

Richard HEYN (Sintef)
Hans BOLSCHER, Trinomics

Panelists

Christian von OLSHAUSEN, Sunfire GmbH (G)
"Power-to-X and automotive sector"

Andrew BOCARSLY, Princeton University (US)
"From lab electrochemistry to liquid Light®"

Tbc

12:15 - 12:30

Closing of 14th ICCDU
Chairs: Peter STYRING, Sheffield (UK)

12:30 - 14:00

Lunch break

CO₂Chem-CO₂ Forum Afternoon session

"Impacts, Policies And Strategies of CDU"

2:00 - 2:10

Welcome Address

Peter Styring, CO₂ chem network, U. Sheffield
Claude Fussler, CO₂ Forum co-chair, CO₂ Forum vice-chair

2:10 - 2:30

Introductory Addresses

2:30 - 2:45

Scene setting warm-up talk to session 3 : The broader context of CDU
Claude FUSSLER, CO₂ Forum "The broader context of CDU "

2:45 - 3:45

Session 3 – Global Economy and Climate Targets

Chair

Claude FUSSLER, CO₂ forum vice-chair, Cleantech advisor

Panelists

Issam DAIRANIEH, The Global CO₂ Initiative
"The big Idea" plan: What will it take to turn 10% of annual CO₂ emissions into competitive commercial products"

Tristan STANLEY IEA
"Energy Analyses on industrial CCS and CO₂ utilisations."

Pierre BARTHELEMY, CEFIC
"Industry needs to create a climate-neutral circular economy of carbon"

Hariette NAIMS IASS Potsdam
"Economic realities: what does the emergence of a knowledge base for decision making tell us for policy incentives"

3:35 - 4:05

Coffee break

4:05 - 4:20

Scene setting warm-up talk to session 4 : Scenarios enabled by CDU massive deployment
Peter Styring, CO₂Chem

4:20 - 5:10

Session 4 : Identified gaps, Policies and Future-looking Strategies

Chair
Moderator

Katy ARMSTRONG, Sheffield (U.K.)
Hans Bolscher (trinomics)

Panelists

Peter Styring, CO₂Chem

Dennis Krämer *Dechema*

Youssef Travaly Greenwin "A Strategic European Research and Innovation Agenda for Smart CO₂ Transformation in Europe"

5:10 - 5:30

Closing of 4th CO₂ forum and of the CO₂ Chem event

Peter STYRING, Sheffield (UK)
Alessandra Quadrelli (CO₂ Forum)

2014 FORUM REPORT

2016 will be the fourth edition of the Forum. The CO₂ forum third edition, which took place Set 25-26th 2014 in the Engineering school CPE Lyon (France), has benefited from 272 registered participants (+ over 100 of our CPE engineers in training!) from 29 countries exchanging over one day and a half filled with 20 plenary lectures and 7 oral presentations, 4 round tables (see Table 1), a rich poster session with 63 posters and for the first time associating two workshops with CEFIC and the SCOT consortium.

The triple helix composition was the red line of the event: industry – academia – and policy orienteers, as can be seen from Table 2 out of the 39 invited speakers and chairs 14 were from academia, 11 policy orienteers and 14 from companies.

More information, all the biographies of the speakers and the released visuals can be found at <http://co2forum.cpe.fr/2014-co2-forum/>

The review «Carbon Dioxide Recycling :Emerging Large Scale Technologies with Industrial Potential » and a short independent "Summary Report" of the 2010 and 2012 and 2014 editions are available upon [request](#).

Table 1. Round tables and session leaders in CO₂ Forum 2014

1. CO₂: GENERAL CONTEXT AND CIRCULAR ECONOMY
Claude FUSSELER Clentech Advisor
2. CO₂ CAPTURE AND ADDED VALUE INORGANIC MATERIALS
Simon BENNETT International Energy Agency
3. FUELS : POWER-TO-GAS AND POWER-TO-LIQUIDS
Jean Pierre WEST EDF (F)
Narasi SRIDHAR DNV (US)
4. CHIMIE FINE : (POLY)CARBONATES, ORGANICS & ARTIFICIAL LEAVES
Thibault CANTAT CEA (F)
Eric PUZENAT CNRS (F)
5. NEW BUSINESSES AND BUSINESS ANALYSES
Daniel CLEMENT Club CO₂ (F)

Table 2. Invited speakers from CO₂ Forum 2014

Matthias BELLER	Leibniz-Initiut für Katalyse (D)
Simon BENNETT	International Energy Agency
Daniel CURULLA FERRE'	Total (F)
Donald DARENSBOURG	Texas A&M University (US)
Donald DE PAOLO	Lawrence Berkeley Nat Lab (US)
Aicha EL KHAMLI	ADEME (F)
Marc FONTECAVE	Collège de France (F)
Eglantine FLOTES	IDEEL (F)
Robert GRESSER	Solvay (B)
John Bøgild HANSEN	Haldor Topsøe (DK)
Colin HILLS	University of Greenwich (UK)
Michel GIMENEZ	Lafarge (F)
Sophie WILMET	² CEFIC
Taewook KWON	SK Innovation (SK)
Brice LALONDE	United Nations Global compact
Walter LEITNER	RWTH, Aachen U (D)
Can LI	St. Key Lab. Catalysis Dalian (CN)
Lothar MENNICKEN	Federal Ministry BMBF (D)
Jean-Paul REICH	GDF Suez (F)
Benjamin SCHÄFFNER	EVONIK (D)
Walter STAHEL	Club of Rome
K-C TRAN	CRI (IS)
Evangelos TZIMAS	European Commission (EU)

Part of the success of the event's previous editions resided in lively round tables on chosen topics, which were:

- Availability, regulatory and economic outlook
- Overview of chemical pathways and technologies
- Saleable products through carbonation reaction (inorganic carbonate, materials and polymers)
- Fuels and biofuels by CO₂ reduction, power-to-gas technologies
- Sustainable Energy Sources and renewable energies
- Emerging Processes and Innovations
- Business perspectives and funding opportunities

KEY DATES

4th CO₂ Forum: September 15th 2016

Regular Registration Deadline: Sept 8th, 2014

CONTACT and INSCRIPTIONS

Information available at

<http://CO2forum.cpe.fr> Contact: quadrelli@cpe.fr

CONFERENCE VENUE

The CO₂ Forum will take place in Sheffield (United Kingdom). This special location is a tribute to the ICCDU- International Conference on Carbon Dioxide Utilisation », a premier conference in research connected to CDU whose fourteenth edition will take place over 5 days in Sheffield (Sept. 11th-15th)

CONFERENCE CHAIR

Alessandra **QUADRELLI** CPE Lyon and CNRS*
Chair

Claude **FUSSLER** Cleantech advisor
Vice chair

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Gabriele CENTI	Università di Messina (I)	Raiendra PACHAURI	IPCC
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Gernot KLOTZ	CEFIC (B)	Sanq-Eon PARK	INHA (KR)
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Claude FUSSLER	Cleantech advisor	Alessandra QUADRELLI	CNRS and CPE (F)
Michel GIMENEZ	Lafarge (F)	G. K. SURYA PRAKASH	U. of South California (US)
John Bøggild HANSEN	Haldor Topsøe (DK)	Imura RYO	Hitachi (J)
Milton HEARN	Australian Research Council	Philippe SOUCAILLE	Metabolic explorer (F)
Richard HEYN	Sintef (N)	Narasi SRIDHAR	Det Norske Veritas (US)
Andrew ISAACS	UC Berkeley (US)		

and Helge **WESSEL** European Union Commission (Observer)

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*CNRS Centre National de la Recherche Scientifique

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ORGANIZER

The CO₂ Forum is an initiative of the Sustainable Development Chair of CPE Lyon, Ecole Supérieure de Chimie Physique Électronique de Lyon. Through this chair, subsidized by Dow France, the school is committed to meet the values of sustainable development and integrate them in the curricula and the working environment of its engineers-in-training, its personnel and its stakeholders.

Mailing policy: This e-mail was sent in the belief that it will be of interest to you. Apologies if you receive it several times. Should you not want to receive further e-mail announcements from CO2forum, then please send an unsubscribe e-mail to co2forum@cpe.fr.