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| **8.45 – 9.00****International Conference on Carbon Dioxide Utilisation****Monday 12th September 2016** | **LT1: Welcome:****Prof Jim**  **Litster, Head of Department, Chemical and Biological Engineering****Prof Peter Styring, Chair of Local Organising Committee****Prof**  **Chunshan Song , Chair of International Organising Committee** |
| **9.00-9.45** | **LT1: Plenary:****Dr Christoph Gürtler, Covestro** **Chair: Chunshan Song**  |
| **9.50-10.20** | Keynote:**Dr Stefanie Schlager,**Joahannes Kepler University Chair: Aaron Appel  | Keynote:**Professor Arjun Kelij,**Institute of Chemical Research of Catalonia (ICIQ)Chair: Mike North | Keynote:**Professor Peter Styring**,University of SheffieldChair: Chunshan Song |
| 10.20-10.50 | Coffee |
|   | **ElectroChemistry**Chair: Aaron Appel | **Cyclic carbonates**Chair: Mike North | **Capture**Chair: Chunshan Song |
| **10.50-11.10** | **Prof Richard I. Masel**Dioxide Materials,The effect of membrane composition on CO2 electrolysis using novel Sustainion™ membranes | **Claudio Mota**Federal University of Rio de JanerioZeolite Y Impregnated with Metal Halides as Efficient Heterogeneous System for the Synthesis of Cyclic Carbonates | **Lidija Siller**University of Newcastle,Nickel nanoparticles (NiNPs) versus nickel nanowires (NiNWs): increased activity towards CO2 carbon capture in water solutions |
| **11.10-11.30** | **Marjut Suomalainen**VTT Technical Research Centre for Finland,Utilisation of SOEC simulation model both in experimental data analysis and in techno-economic evaluation | **Paul Reiss**University of York,Immobilisation of a Bimetallic Aluminium-Salen Complex onto a Structured Silica Support and its Influence on Cyclic Carbonate Synthesis | **Dongwoo Kang**Yonsei University,Carbon dioxide utilisation using concentrated industrial wastewater through aqueous approach |
| **11.30-11.50** | **Ann Call,**University of Sheffield,Investigation of Co-Electrolysis Processes in Solid Oxide Cells using Electrochemical and Surface Spectroscopy Methods | **Carmine Capacchione**Università di SalernoNew [OSSO]-type iron(III) complexes as efficient catalysts for the coupling of carbon dioxide with epoxides | **Rebecca Taylor**Queen's University BelfastCO2 Capture and Electrochemical Conversion Utilisation in Superbase Ionic Liquids |
| **11.50-12.10** | **Xavier Angles**UCL,A DFT Study of the Catalytic Activity of Ni Nanoparticles on Yttria-Stabilized Zirconia and Gadolinium-Doped Ceria (111) Surfaces for Solid Oxide Fuel Cell Applications | **Xiao Wu**University of York,Synthesis of Cyclic Carbonates Catalysed by Chromium and Aluminium(Salphen) Complexes | **Robert Dawson**University of Sheffield,Carbon capture in Microporous Organic Polymers |
| **12.10-12.30** | **Denis Cumming**University of SheffieldThe Chemical Server: Materials and devices for on demand conversion of CO2 directly to chemicals | **Richard H. Heyn,**SINTEF,Mechanistic studies into the formation of propylene carbonate from propylene glycol and CO2 | **Xiaoxing Wang**Pennsylvania State University,Advanced Solid Sorbents for CO2 Capture from Flue Gas |
| 12.30-13.30 | Lunch |
| **13.30-15.30** | **Flash Presentations**Please see separate timetable for this session |
| 15.30-16.00  | Coffee |
|  | **PtoX**Chair: Youssef Travely | **CO2-Derived Fertilisers and Carbamates**Chair: Willy Offermans | **TEA/LCA**Chair: Stefan Bringazu |
| **16.00-16.20** | **Heriberto Pfieffer**, Unversidad Nacional Autonoma de MexicoCO2 capture on alkaline ceramics and its catalytic conversion to added value products | **Peter Hammond,** CCm Research, Utilisation of Carbon Dioxide within Biogenic Fertiliser Production | **Rebecca Frauzem,** Technical University of Denmark, A generic methodology for the design of sustainable carbon dioxide utilization processes using superstructure optimization |
| **16.20-16.40** | **Mr Iker García García**, Faculty of Engineering (UPV/EHU),SpainPower-to-Gas: Storing Surplus Electrical Energy. Catalytic systems based on unconventional supports. | **Mei-Yan Wang**, Nankai University, Upgrading carbon dioxide by incorporation into heterocycles: Carboxylative cyclization of propargylic amines with CO2 promoted by bifunctional polyoxometalate-based ionic liquids | **Arno Zimmerman,** TU Berlin, Techno-economic-environmental assessment: state of literature and integrated assessment method for CO2-utilization in chemicals production |
| **16.40-17.00** | **Dennis Krämer**,Dechema,  Power to X: Drawbacks and opportunities | **Terry Makenyire**, University of SheffieldIonic Liquids as Catalysts for the Synthesis of Urea and N,N' Disubstituted Ureas From Carbon Dioxide | **Ioanna Dimitriou,** University of Sheffield, Production of Synthetic Gasoline and Diesel from Carbon Dioxide/Methane Reforming: A Comprehensive Techno-economic Assessment |
| **17.00-17.20** | **Karen Callebaut,** Antwerp Port AuthorityPower-to-Methanol and CCU potential | **Min-Gu Lee,** Yonsei UniversityIntroduction of various processes for the carbon dioxide utilization using ammonia compounds | **Sarah, Deutz,** RWTH Aachen University, Reactions with benefits? Screening the environmental potential of CO2 reactions |
| **17.20-17.40** | **Steven Chiuta**, North-West University South Africa, Power-to-methane and power-to-syngas business models for sustainable carbon dioxide utilization in coal-to-liquid facilities: A techno-economic assessment | **Richard Heyn**SINTEFExperimental and theoretical investigations of industrially relevant binary CO2-propylene oxide and ternary CO2-propylene oxide-poly(propylene carbonate) systems | **Dimitri Mignard**, Univerisity of Edinburgh, Simulating a chemical process for the co-utilization of electrolytic hydrogen and CO2 at variable feed rate. |
| **17.40 –** **19.00** | **SCOT Matchmaking Event** **WORKROOM 2****Find partners for your research** |

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| **9.00-9.45****International Conference on Carbon Dioxide Utilisation****Tuesday 13th September 2016** | **Plenary:****Professor Ron Zevenhoven****Åbo Akademi University****Chair: Mike North** |
| **9.50-10.20** | Keynote:**Professor Chang-Jun Liu,** Tianjin UniversityChair: Nannan Sun |  Keynote:**Professor Walter Leitner,**RWTH Aachen UniversityChair: Christoph Guertler | Keynote:**Bernard David,** Global CO2 InitiativeChair: Peter Styring |
| 10.20-10.50 | Coffee |
|   | **CO2 Reduction**Chair: Nannan Sun | **CO2-Derived Acids**Chair: Christoph Guertler | **Policy**Chair: Peter Styring |
| **10.50-11.10** | **Aaron Appel,**Pacific Northwest National LaboratoryUsing free energy for H-plus and H-minus transfers to design catalysts for the reduction of CO2. | **Sang Eon Park,**Inha University,Utilization of methane and carbon dioxide in continuous process for direct formation of acetic acid | **Bu Jie**,A\*STARThe Impact of CO2 Emissions Data Management and Scenario Predictions on National Energy Policies |
| **11.10-11.30** | **Reynald Henry**University of Oslo,Study of CO2 reduction by cerium oxide nanoparticles with transient response experiments | **George Dowson**,University of Sheffield,Direct conversion of carbon dioxide from the gas phase under mild conditions using reactive metal cycling | **Henriette Naims**,Institute for Advanced Sustainability Studies,CO2 Recycling – An Option for Policymaking and Society? Twelve Theses on the Societal and Political Significance of Carbon Capture and Utilisation (CCU) Technologies |
| **11.30-11.50** | **Himeda Yuichiro,**AIST,Efficient Iridium Catalysts with Imidazoline Ligands for CO2 Hydrogenation | **Wen-Zhen Zhang**,Dalian University of Technology,Sequential organic reactions using carbon dioxide | **Hans Bolscher,**TrinomicsHow CCU is affected by European policies in general and on CCS and ETS especially |
| **11.50-12.10** |  **Chunshan Song**Pennsylvania State University, Bimetallic Pd-Cu Catalysts for CO2 Hydrogenation to Methanol | **Ben Buckley,**Loughborough University,Exploiting Electrosynthesis to Enable Selective Hydrocarboxylation | **Stefanie Roth**,Forschungszentrum Jülich GmbHFrom Waste to Resource - Can CO2 replace crude oil in the future? |
| **12.10-12.30** | **Sunil Josi**,National Chemical Laboratory Hydrogenation of Carbon Dioxide to N, N dimethyl formamide using Hydrotalcites as a catalyst | **Gaia Neri**University of LiverpoolA Highly Active Nickel Electrocatalyst shows Excellent Selectivity for CO2 Reduction in Acidic Media | **Ted Grozier,**ClimateKIC,EnCO2re: Acheivements and Ambitions in Enabling CO2 Re-use |
| **12.30-12.50** | **TBC** | **Xinkui Wang**Dalian University of TechnologyA Schiff base modified gold catalyst for efficient carbon dioxide hydrogenation to formic acid | **Youssef Travely**SCOTWhat are the strategic research and innovation targets for CO2 utilisation? Findings of the SCOT Project |
| 12.50-13.50 | Lunch |

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|  | **Plasma Reactions**Chair: Rachel Elder | **Mineralisation**Chair: Alissa Park | **Carbon Capture**Chair: Hans Bolscher |
| **13.50-14.10** | **Tom Butterworth**,  University of SheffieldTowards optimisation of packed bed plasma reactors for CO₂ reduction | **Yeo Tze Yuen,** Institute of Chemical and Engineering Sciences, SingaporeAn Analysis of the Current State, Limitations, and Potential for Improvement of Direct Aqueous Pressure Carbonation Processes | **Arturo Castillo-Castillo,** Imperial College LondonTipping point analysis of carbon capture and transportation |
| **14.10-14.30** | **Bryony Ashford,**  University of LiverpoolConversion of CO2 into value-added chemicals in a packed bed plasma-catalytic reactor | **Katie Joanna Lamb,**University of YorkElectrochemically driven CO2 Capture and Mineralisation | **Dan Reed,** University of Sheffield,  Advances in pressure swing carbon capture using low complexity sorbents |
| **14.30-14.50** | **G Rooij,** DIFFERUnderstanding dynamics of a pulsed microwave plasma for efficient CO2 dissociation | **Abdallah Dindi,** Masdar Institute of Science and TechnologyCarbon dioxide utilization for the production of precipitated silica and sodium bicarbonate | **Nadeen Al-Janabi,** University of ManchesterAssessment of MOF’s structure quality: quantifying defects content in crystalline porous materials; A case study: CuBTC |
| **14.50-15.10** | **James Comerford,** University of York, Synthesis of functionalized benzoic acids using non-thermal plasma generated carbon monoxide | **Inseong Hwang**Pusan National UniversityKinetics and Extent of Accelerated Carbonation of MgO-Based Binder | **Susana Garcia**Heriot Watt UniversityCO2 capture using high-temperature lithium silicate sorbents: A process integration study |
| **15.10-15.30** | **Khelifa Yanallah**, University of Algeria/University of SheffieldExperimental and Numerical Investigation of CO2 Splitting in a Nanosecond Pulsed Corona Discharge. |  **Georg Baldauf-Sommerbauer**Graz University of TechnologyReductive Calcination - A means of Carbon Dioxide Utilisation in Minerals Processing |  **Shengping Wang**Tianjin UniversityIncorporation of (Zr-Ce) into Calcium Oxide for Improving the Stability of CO2 Capture Sorbent |
| **15.30-18.00** | **Poster Session with Afternoon Tea** |

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| **9.00-9.45****International Conference on Carbon Dioxide Utilisation****Wednesday 14th September 2016** | **Plenary:** **Professor Andy Bocarsly****Princeton University****Chair: Peter Styring** |
| **9.50-****10.20** | Keynote:**Professor Ah-Hyung (Alissa) Park**, Columbia University Chair: Alessandra Quadrelli | Keynote:**Professor Mike North,**University of YorkChair: Richard Heyn | Keynote:**Dr Chris Jones**, University of Sheffield and **Dr. Barbara Olfe-Kräutlein**, IASS PotsdamChair: Katy Armstrong |
| 10.20-10.50 | Coffee |
|   | **CO2-Derived Fuels**Chair: Alessandra Quadrelli | **CO2-Derived Methanol**Chair: Richard Heyn | **TEA/LCA**Chair: Katy Armstrong |
| **10.50-11.10** | **Peter Edwards,**University of OxfordEffective utilization of CO2 in flue gas with alkane conversion | **Ki-Won Jun,**Korea Research Institute of Chemical Technology (KRICT) ,Carbon Dioxide Utilization in a Gas-to-Methanol Process Composed of CO2/Steam‒Mixed Reforming and Methanol Synthesis | **Mar Perez-Fortes**,European Commission, Joint Research Centre (JRC)Evaluation of the CO2 utilisation potential of urea production |
| **11.10-11.30** | **Alan Chaffee,**Monash University.Gas-Phase Conversion of CO2 Using a MIL-140C-(Ru) Metal-Organic Frameworks as Catalyst | **Andres Garcia Trenco,**Imperial College London,Highly active Pd/Ga colloids for the liquid phase synthesis of methanol from CO2 | **Leonard Müller,**RWTH Aachen UniversitySelecting environmentally optimal CO2 sources for CO2 utilization |
| **11.30-11.50** | **Xinwen Guo,**Dalian University of TechnologyA combined experimental and density functional theory study on Co/ZrO2 and Co/Al2O3 catalysts for CO2 methanation | **Feng Li,**Chinese Academy of Science,Cu-based perovskite metal complex oxide catalysts for methanol synthesis from CO2 hydrogenation | **Jin Xuan**,Heriot-Watt UniversityEnergy and CO2 emission assessment of CO2-to-liquid electrochemical processes |
| **11.50-12.10** | **Peng Gao**Shanghai Advanced Research InstituteHigh-performance and long-lived Cu-ZnO-based catalysts for slurry methanol synthesis from CO2 hydrogenation | **Sigrid Douven,**University of ChesterUtilisation of CO2 from an Industrial source for Methanol production | **Stefan Bringezu,**Kassel UniversityIntegration of renewable energy supply and carbon recycling for chemical production: Life cycle assessment of a CO2-based production of basic chemicals and polymers |
| **12.10-12.30** | **Frans van Berkel,**ECN,Thermodynamic limitations and how to overcome them in carbon utilization | **Christian Ahoba-Sam, University** College of Southeast Norway,Low temperature methanol synthesis over copper nanoparticles | **Marvin Kant,**TU BerlinAn enabling start-up support system for CO2 utilisation: A case study on barriers to commercial success |
| 12.30-13.30 | Lunch |
|  | **Photocatalysis**Chair: Andy Bocasley | **Cyclic Carbonates**Chair: Claudio Mota | **Biological**Chair: Stefanie Schlagar |
| **13.30-13.50** | **Junwang Tang,**University College LondonVisible light driven CO2 conversion by rational designed junctions | **Willy Offermans**,RWTH Aachen UniversityOn the Mechanism of the Cycloaddition of Carbon Dioxide and Epoxides | **Marianne Haberbauer**,ACIB GmbH,Microbial electrosynthesis systems for the production of methane from CO2 |
| **13.50-14.10** | **Wei Chen,**Shanghai Advanced Research InstituteSize-Dependent Photoelectrocatalytic Reduction of CO2 over Graphene/SiC composites | **Bemjamin Bousquet,**University of Lyon,Zn-azatrane complexes as efficient catalysts for CO2 conversion | **Lindsey Garcia-Gonzalez**,VITO,Biotechnological routes for valorization of CO2 to polymers |
| **14.10-14.30** | **Alessandra Quadrelli,**CPE Lyon,Carbon Dioxide Utilisation for Renewable enegy harvesting : Context elements and examples with a Novel MOF-Based Photocatalyst | **William Webb,**University of SouthamptonEngineering heterogeneous organocatalysts for the sustainable utilisation of carbon dioxide | **Seetharaman Vaidyanathan**, University of Sheffield,Carbon dioxide uptake by microalgae and relevance to lipid accumulation |
| **14.30-14.50** | **Mercedes Moto Valer**,Herriot Watt UniversitySolar Fuels from Photocatalytic Reduction of CO2 via Engineering innovation | **Veronique Dufaud,**CNRS,Organocatalysis in confined space for the production of cyclic carbonates from CO2 and epoxides | **Karolien Vanbroekhoven,**VITOBioelectrochemical CO2 Reduction integrated with product separation: a prospect for future application |
| **14.50-15.10** | **Yuaka Amao,**Osaka City University,Visible-light induced conversion of carbon dioxide to formic acid with the system consisting of water-soluble zinc porphyrin and formate dehydrogenase electron-mediated bipyridinium salt | **Antione Buchard,**University of BathSynthesis of 6-membered cyclic carbonates from 1,3-diols and low CO2 pressure: a novel mild strategy to replace phosgene reagents and enable new sustainable polymers from sugars | **Nannan Sun**Shanghai Advanced Research InstituteCO2 fixation via microalgae and successional conversion to bulk chemicals |
| **15.10-15.30** | **Coffee** |
|  | **CO2-Derived Fuels**Chair: Sang Eon Park | **Organic Carbonates and Capture**Chair Ajian Kelji | **Enabling Technologies and LCA**Chair: Annika Stute |
| **15.40-16.00** | **Jere Elfving,**VTT Technical Research Centre of FinlandSupporting Power-to-X with CO2 Capture from air: Initial experiences, challenges and opportunities | **Cecile Daniel,**IRCELYON,Unravelling mechanisms of DMC synthesis from CO2 and MeOH on very active CeZr oxides | **Steve Woolass**Tata steel,The Application of Carbon Dioxide Capture and Utilisation Technologies wthin the Steel Industry |
| **16.00-16.20** | **Hui Wang,**Shanghai Advanced Research InstituteSustainable performance of Ni-based ferrite for thermochemical CO2 conversion into fuels |  **Amélie Boyaval,**CNRS Université Bordeaux,Cyclic carbonates by organocatalytic coupling of CO2 with propargylic alcohol | **Pelayo Garcia Gutierrez,**University of ManchesterProduction of Liquid Fuels from Biogas through High-Temperature Co-Electrolysis of Steam and Carbon Dioxide: an Environmental Assessment |
| **16.20-16.40** | **Grant Wilson,**University of Sheffield,Why we need CO2 utilisation fuels in the future for energy integration | **Markus Scharfenberg,**Johannes Gutenberg UniversityMulti-arm star polyether-polycarbonates based on tailored epoxides and carbon dioxide | **Maria Grahn**,Chalmers University of Technology,Cost-analysis utilizing CO2 in industrial flue gases for the production of electrofuels |
| **16.40-17.00** | **Liguo Wang**Chinese Academy of SciencesInfluence of ordered mesoporous KIT-6, MCM-41 and SBA-15 supported copper catalysts for the hydrogenation of ethylene carbonate derived from CO2 | **Nannan Sun**Shanghai Advanced Research InstituteSynthesis of high performance SAPO-34 zeolite membrane for CO2 capture | **Zhiyong Tang**Shanghai Advanced Research InstituteResearch of industry related carbon dioxide emission and opportunities of integrated systems in a carbon-constrained world |
| **17.00-17.20** |  | **Nannan Sun**Shanghai Advanced Research InstituteOne-pot solvent-free synthesis of mesoporous carbons and enhancing their low pressure CO2 adsorption by surface modification | **Wei Chen**Shanghai Advanced Research InstituteAdvanced manganese based electrocatalysts free of precious metals for efficient low and intermediate temperature water electrolysis 43 |
| **19.00** | **Conference Dinner @ Cutlers Hall,****Church St, Sheffield, S1 1HG** |

**International Conference on Carbon Dioxide Utilisation**

**Thursday 15th September 2016**

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| **The CO2 Forum** International Forum on Sustainable CO2 Chemical & Biochemical Utilizationhttp://co2forum.cpe.fr | **CO2forum_logo2013.gif** |
| In association with the |  |
| **ICCDU**International Conferenceon Carbon Dioxide Utilizationhttp://iccdu2016.org.uk/ | Afficher l'image d'origine |
| and with the |  |
| **CO2Chem**Carbon Dioxide Utilisation Networkhttp://co2chem.co.uk/ | Afficher l'image d'origine |
| presents its 4th edition |   |

**« Large-Volume CO2 Utilization:**

**Enabling Technologies for Energy and Resource Efficiency»**

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| ICCDU-CO2 Forum **Mo**rning session **“Carbon Dioxide Utilization Deployment : an Industrial Reality”** |
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| 08:15 - 09:00 | ***Registration***  |
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| 09:00 - 09:10 | Welcome Address**Alessandra QUADRELLI**, CO2 Forum chairwoman (CPE Lyon –CNRS)**Chunsang SONG**, ICCDU (Penn State , EMS Energy Institute) |
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| 09:10 - 10:30  | **Session** 1- **Update on ongoing LARGE SCALE Industrial CDU deployment : part 1 Materials** |
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| ChairModerator | Chunshan SONG, Penn State , EMS Energy Institute Hans BOLSCHER, Trinomics  |
| Panelists(pres. 8’ each)  |  **Christoph GUERTLER,** 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 |
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| 10:30 - 11:00 | ***Coffee break***  |
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| 11:00 - 12:20 | **Session** 2- **Update on ongoing LARGE SCALE Industrial CDU deployement : part 2 fuels and more** |
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| ChairMonderator | Richard HEYN (Sintef) Hans BOLSCHER, Trinomics  |
| Panelists(pres. 8’ each)  | **Andy BOCARSLY,**Princeton University (US) “*From lab electrochemistry to liquid Light®***Eelco Dekker***, Methanol Institute*  |
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| 12:20 - 12:30  | **Closing of 14th ICCDU**Chairs: Peter STYRING, Sheffield (UK)  |
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| 12:30 - 14:00 | ***Lunch break*** |
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| CO2Chem-CO2 Forum **Afternoon** session **“Impacts, Policies And Strategies of CDU””** |
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| 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  |
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| 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 “** |
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| 2:45 - 3:45 | **Session 3** **– Global Economy and Climate Targets** |
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| ChairModerator ? | Claude FUSSLER, CO2 forum vice-chair, Cleantech advisorHans Bolscher (trinomics) |
| Panelists(5’ pres) | **Bernard DAVID,** The Global CO2 Initiative “The Big Idea” plan**Juho LIPPONEN iea “Storage and/or utilization?”****Pierre Barthélemy** (**CEFIC)** **(TBC) Henriette NAIMS** IASS Potsdam |
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| 3:35 - 4:05 | ***Coffee break*** |
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| 4:05 - 4:20  | **Scene setting warm-up talk to session 4 : Scenarios enabled by CDU massive deployment**  |
|  | Peter Styring, CO2Chem  |
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| 4:20 - 5:10 | **Session 4** **: Identified gaps, Policies and Future-looking Strategies**  |
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| ChairModerator  | Katy ARMSTRONG, Sheffield (U.K.)Hans Bolscher (trinomics) |
| Panelists(8’ pres) | **Dennis Krammer,** *Dechema***Youssef Travaly,** *SCOT* |
|  |  |
| 5:10 - 5:30  | **Closing of 4th CO2 forum and of the CO2Chem event** Pete STYRING, Sheffield (UK) Alessandra Quadrelli (CO2 Forum ) |

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