Monday March 11

10.45		Opening NCCC XIV (Rotonde)					
11.00	**PL1**	**Photochemical CO_2 Reduction: Current Status and Future Prospects - Etsuko Fujita -** Brookhaven Nat Lab, USA					
11.45	**PL2**	**Chemical Imaging of Individual Catalyst Particles in Space and Time - Bert M. Weckhuysen** - Utrecht University					
12.30		Lunch (12.30-13.45) posters session I on display (Asamblea, Alegria and Oxford 22)					
		Rotonde	Sorbonne 2	Cambridge 32	Cambridge 30		
		Micro- and mesoporous catalytic materials	***Renewables - Biomass, Hydrogen, Solar***	***Applied Catalysis & Processes***	***(Bio)catalysis and Organic Synthesis***		
13.45	**K1**	**Chemistry of nanostructured zeolitic and titania-based materials for catalytic and environmental applications** *Pegie Cool - University of Antwerp*	**5** **A highly active and selective zinc complex as a catalyst for cyclic carbonate synthesis in a green reaction medium** *Masoumeh Taherimehr - KU Leuven*	**9** **A Kinetic and Mechanistic Study on Hydroformylation for Continuous Homogenous Catalysis with Integrated Membrane Separation** *Sabriye Güven - TUE*	**13** **Asymmetric Conjugate Addition of Grignard Reagents to Pyranones: Access to Highly Versatile Intermediates** *Bin Mao - RUG*		
14.10			**6** **Aqueous phase reforming of glycerol over PtRe/C catalysts** *Aysegul Ciftci - TUE*	**10** **Direct synthesis of hydrogen peroxide in a wall coated microreactor** *V. Paunovic - TUE*	**14** **DNA based catalyst: unique reactivity for tandem Friedel-Crafts alkylation/enantioselective protonation reactions in water** *Almudena García-Fernández - RUG*		
14.35	**1**	**A Phosphine-Based Covalent Organic Framework for the Pd-Catalyzed Telomerization of 1,3-Butadiene** *F.C. Hendriks - UU*	**K2** **Catalytic transformation of polyoxygenated derivatives**	**11** **Methanol synthesis beyond chemical equilibrium** *J.G. van Bennekom - RUG*	**15** **Enantioselective Synthesis of 2-Imidazolines using Asymmetric Couterion–Directed Catalysis** *Guido V. Janssen - VUA*		
15.00	**2**	**Quantitative electron tomography study: collective properties of supported metal nanoparticles and their impact on catalyst stability** *Jovana Zečević - UU*		**12** **Cyclometalation of Phosphinines via C-H Activation: Towards Functional Coordination Compounds** *L.E.E. Broeckx - TUE*	**16** **Immobilization of beta-galactosidase on membranes for process intensification** *Peter Jochems - VITO Flemish Institute of*		
15.25	**3**	**Different functionalization routes to fine-tune Periodic Mesoporous Organosilicas** *Els De Canck - University of Ghent*	**7** **Catalytic conversion of bio-ethanol into 1,3-butadiene** *Carlo Angelici - UU*	**K3** **Homogeneous Catalysis: Second Generation Ligands in the Palladium Catalysed Methoxycarbonylation of Ethene. Stage 1 of the New Lucite International Alpha MMA Process**	**17** **Size-enlarged homogeneous catalysts for challenging transformations** *Vital A. Yazerski - UU*		
15.50	**4**	**A Synchrotron-based Micro-X-ray Diffraction Study on the Intergrowth Structure of Large H-ZSM-5 Crystals** *Jan Philipp Hofmann - UU*	**8** **Catalytic pyrolysis over alkali modified amorphous silica alumina** *Masoud Zabeti - UT*	*Graham Eastham - Lucite, UK*	**18** **Emergence of Autocatalysts from Dynamic Combinatorial Libraries** *Elio Mattia - RUG*		
16.15		coffee/tea Poster session I: Posters with even serial numbers (Asamblea, Alegria and Oxford 22)					
18.15		Dinner (18.15 - 19.45)					
19.45		**Career Development & Opportunities** CDO lecture					
20.15		Company Market					

Tuesday March 12, morning

8.30	PL3	**Green Chemistry and the Biorefinery - James Clark** - York University, UK		
9.15	PL4	**Combination of chemo - and biocatalysis in multi-step one-pot processes in aqueous reaction media- Harald Gröger -** Bielefeld University, Germany		
10.00		Coffee/Tea (10.00-10.30)		
	Rotonde	Sorbonne 2	Cambridge 32	Cambridge 30
	Heterogeneous Catalysis	***Coordination Chemistry***	***Renewables - Biomass, Hydrogen, Solar***	***Theory, Spectroscopy, Model Catalysts***
10.30	19 **Surfactant-assisted assembly of stacked MFI sheets as portrayed by insitu SAXS, Raman spectroscopy and electron microscopy** *Maarten Goesten - TUD*	K4 **Artificial Metalloenzymes: Challenges and Opportunities**	27 **Towards catalytic valorization of humin by-products formed during biomass processing** *Ilona van Zandvoort - UU*	32 **A microreactor for electrostatic manipulation combined with ATR in situ characterization technique** *A. Susarrey-Arce - UT*
10.55	20 **B-TUD-1, a novel mesoporous catalyst** *Adeline Ranoux - TUD*	*Thomas Ward - University of Basel, Switzerland*	28 **Solid Acid Catalysts for the Synthesis of Valuable Chemicals from Glycerol and Related Compounds** *Li Li - KU Leuven*	33 **Ab initio based micro-kinetic modeling of benzene hydrogenation on Pd(111) as function of hydrogen coverage** *Gonzalo Canduela Rodríguez - University of Ghent*
11.20	21 **Carbon nanofiber-supported La_2O_3 and MgO as highly active and selective solid base catalysts for aldol coupling** *Anne Mette Frey - UU*	24 **Cu@COMOC-4, a bimetallic Metal-Organic Framework for the size selective epoxidation of cycloalkenes** *Ying-Ya Liu - University of Ghent*	29 **Development of a Continuous Process to Produce 5-HMF based on carbohydrates** *Laurent Weisgerber - RWTH Aachen University*	34 **Identification of sites for low barrier CO dissociation sites in the Fischer-Tropsch Synthesis reaction** *Ivo A. W. Filot - TUE*
11.45	22 **Comprehensive insight in the kinetics of methane steam reforming over a $Ni/NiAl_2O_4$ catalyst** *C. Sprung - UU*	25 **Development of Bifunctional/NHC Complexes for the Conversion of Biomass Platform Molecules** *Eveline Jansen - UvA*	30 **Conversion of (ligno)cellulose feeds to isosorbide with HPA and Ru/C** *Beau Op de Beeck - KU Leuven*	K5 **Computational catalysis for sustainable chemistry**
12.10	23 **Continuous Synthesis of Au@Ag Core-Shell Nanoparticles Using Microreactors** *Barbara M. Kampa - TUD*	26 **Direct Activation of Allylic Alcohols for Alkylation and Amination Reactions** *Yasemin Gümrükçü - UvA*	31 **Direct dehydration of glucose to HMF by NbW_x mixed oxides** *Chaochao Yue - TUE*	*Evgeny Pidko - TUE*
12.35	Lunch (12.35-13.45) posters session II on display (Asamblea, Alegria and Oxford 22)			

Tuesday March 12, afternoon

	Rotonde	Sorbonne 2	Cambridge 32	Cambridge 30
	Heterogeneous Catalysis	***Coordination Chemistry***	***Renewables - Biomass, Hydrogen, Solar***	***Applied Catalysis & Processes***
13.45	35 **Designing stable supported catalysts: interplay between pore size and metal particle nanospatial distribution for the stability of $CuZn/SiO_2$ methanol** *G.Prieto - UU*	39 **N-Heterocyclic Carbene Conformational Change: New Method to Tune the Reactivity of Transition Metal Complexes** *M.K. Rong - VUA*	43 **Hydrogen Production by Aqueous Phase Reforming of a Renewable Carbohydrates in a Washcoated Microchannel** *M. F. Neira D'Angelo - TUE*	47 **MOF-Mixed matrix membranes for natural- and bio-gas upgrading: study of the interaction between the filler and the polymer** *T. Rodenas - TUD*
14.10	36 **Development of SXRO carbons for the catalytic oxidation towards glyphosate** *Mark Kuil - Norit BV Nederland*	40 **Rh-Mediated Carbene Polymerization: from Multistep Catalyst Activation to Alcohol-Mediated Chain-Transfer** *Annemarie J. C. Walters - UvA*	44 **In control of tungsten-based catalysts for the deoxygenation of biomass based fatty acids and derivatives** *R.W. Gosselink - UU*	48 **Process intensification in ring closing metathesis reactions via organic solvent Nanofiltration assisted synthesis** *D. Ormerod - Flemish Institute for Technological Research*
14.35	37 **Direct and straightforward synthesis of Ga_2O_3 nanorods as highly efficient epoxidation catalysts** *W. Lueangchaichaweng - KU Leuven*	41 **Supramolecular ligands in gold(I) catalysis** *Rafael Gramage-Doria - UvA*	45 **New insights in catalytic hydrotreatment of fast pyrolysis oil** *A.R. Ardiyanti - RUG*	49 **UV-Vis spectroscopy of a catalytic solid at work in a pilot scale reactor** *J.J.H.B. Sattler - UU*
15.00	38 **Higher alcohols from (bio)ethanol via the Guerbet reaction** *S. Telalović - UU*	42 **Toward application of complex systems to asymmetric catalysis** *Frédéric G. Terrade - UvA*	46 **Photodeposition of Pt on WO_3 with well-defined facets** *Kasper Wenderich - UT*	50 **Hydrotreating Catalyst Development, Evaluation Methods and Reaction Chemistry** *E. Brevoord - Albemarle, NL*
15.25	Coffee/Tea (15.25-15.45)			
	Rotonde	Sorbonne 2	Cambridge 32	Cambridge 30
	Heterogeneous Catalysis	***Micro- and mesoporous catalytic materials***	***Homogeneous Catalysis***	***Renewables - Biomass, Hydrogen, Solar***
15.45	51 **Highly selective niobia-supported cobalt catalysts for Fischer Tropsch synthesis** *J.H. den Otter - UU*	54 **Gold nanorods, stabilized by a mesoporous silica layer, used as catalyst for the selective hydrogenation of cinnamaldehyde** *A.J. van de Glind - UU*	57 **Asymmetric allylic alkylation of allyl ethers with organolithium reagents** *Martín Fañanás-Mastral - RUG*	60 **Surface Ti^{3+} containing (blue) titania: A unique photocatalyst with high activity and selectivity in visible light stimulated selective oxidation** *Rezvaneh Amrollahi - UT*
16.10	52 **Insights into Deactivation of Ferrierites during Oleic Acid Isomerisation** *Sophie C.C. Wiedemann - UU*	55 **Iron(III)-based metal-organic networks as visible light photocatalysts** *Katrien G.M. Laurier - KU Leuven*	58 **Asymmetric Cyclopropanation Reactions in Polymersome Nanoreactors** *Matthijs C.M. van Oers - RUN*	61 **Stabilization of a CNF supported Ni catalyst under hydrothermal conditions** *T. van Haasterecht - UU*
16.35	53 **Structure Sensitivity of Ru catalyst in Fischer Tropsch Synthesis** *Xian-Yang Quek - TUE*	56 **Metal complex incorporation in MIL-101(Cr) through oxamate postfunctionalization: opportunities for catalysis** *Jana Juan-Alcañiz - TUD*	59 **Catalytic Dioxygenation of Catechol by Non-Heme Iron Complexes: Towards A Sustainable Route to Adipic Acid** *Robin Jastrzebski - UU*	62 **The dehydration of different ketose and aldose feeds to hydroxymethylfurfural** *Robert-Jan van Putten - Avantium, NL*
17.00	NWO Talent workshop (Sorbonne 2) Membershipmeeting KNCV-section Catalysis (Cambridge 30)			
18.00	Poster session II: Posters with odd serial numbers (Asamblea, Alegria and Oxford 22)			
19.30	Conference Dinner			

Wednesday March 13, morning

	Rotonde	Sorbonne 2	Cambridge 32	Cambridge 30
	Micro- and mesoporous catalytic materials	***Homogeneous Catalysis***	***Heterogeneous Catalysis***	***Theory, Spectroscopy, Model Catalysts***
9.00	**63** **Nanoporous hybrid organosilica membranes for energy-efficient molecular separation** *Hessel L. Castricum - UvA*	**K6** **Playing around with oxygen: homogeneous catalysts for the incorporation and removal of oxygen functionalities from biomass**	**67** **The electrocatalytic reduction of nitrate on Pt and Rh: the effect of modifiers and solution pH** *Jian Yang - UL*	**70** **In situ HRTEM of a working catalyst using a nanoreactor at 1 bar** *S.B. Vendelbo - TUD*
9.25	**64** **Nanoscale Chemical Imaging of Catalytic Solids: Single Turnover Quantification of Brønsted Acid Sites in Large H-ZSM-5 Zeolite Crystals** *Zoran Ristanović - UU*	*Bert Klein Gebbink - UU*	**68** **Suppression PVA blocking the surface of supported Pd nanoclusters** *Y. Zhao - UT*	**71** **Insights into NH_3 storage and availability in Cu-SSZ-13 NH3-SCR systems** *I. Lezcano-Gonzalez - UU*
9.50	**65** **Optimizing zeolites for non-oxidative dehydrogenation of methane to benzene: hierarchical structuring and the effect of silylation** *C.H.L. Tempelman - TUE*	**66** **Sustainable Synthesis of Diverse Privileged Heterocycles by Palladium-Catalyzed Aerobic Oxidative Isocyanide Insertion** *Tjøstil Vlaar - VUA*	**69** **Supported nanoalloys based catalysts for hydrogen auto transfer reactions** *Meenakshisundaram Sankar - UU*	**72** **Fe-catalyzed oxidative cleavage of olefins towards aldehydes with hydrogen peroxide** *P. Spannring - UU*
10.15	Coffee/tea (10.15-10.40)			
	Rotonde	Sorbonne 2	Cambridge 32	Cambridge 30
	Heterogeneous Catalysis	***Homogeneous Catalysis***	***Theory, Spectroscopy, Model Catalysts***	***(Bio)catalysis and Organic Synthesis***
10.40	**73** **Nanoscale Distribution in Co/SiO_2 Fischer-Tropsch Catalysts Controlled by Drying** *Peter Munnik - UU*	**77** **Highly Active Materials and Easy Catalysts for Pd-NHC Catalyzed Semi-Hydrogenations of Alkynes** *Ruben Drost - UvA*	**81** **Low-barrier route for the MTO reaction in H-SAPO-34: insight from extended cluster models and molecular dynamics** *Kristof De Wispelaere - University of Ghent*	**K7** **Engineering degradative enzymes into synthetic catalysts**
11.05	**74** **Supported aqueous phase catalyst coating in micro flow** *S.C. Stouten - TUE*	**78** **Micellar Catalysis as synthetic tool for Friedel-Crafts reactions in water** *Jens Oelerich - RUG*	**82** **On the 3-D Location and Orientation of ZSM-5 Crystals within the Matrix of a Fluid Catalytic Cracking Particle** *C. Sprung - UU*	*D.B. Janssen - RUG*
11.30	**75** **Structure and Catalytic Performance of Co Fischer Tropsch catalysts prepared by Homogeneous Deposition precipitation** *T. O. Eschemann - UU*	**79** **Selective Oxidation of Unprotected Methyl Glycosides** *Manuel Jäger - RUG*	**83** **Photocatalytic removal of soot: unraveling of the reaction mechanism by EPR and in situ FTIR spectroscopy** *Marianne Smits - University of Antwerp*	**85** **Cyanation of imine by hydroxynitrile lyases: an example for enzyme promiscuity?** *Guzman Torrelo, TUD*
11.55	**76** **New solid acid/base bifunctional catalysts with potential for chiral synthesis** *Ahmed Elmekawy - University of Huddersfield, UK*	**80** **Ruthenium Catalysed alpha-(Hetero) Arylation of Saturated Cyclic Amines: Reaction Scope and Mechanism** *Veerle Smout - University of Antwerp*	**84** **Stopping the Aggregation of Late-transition Metal Atoms on Supports by Modification of the Silica Surface** *Fernando Rascón - ETH Zurich, Switzerland*	**86** **Gold(I) Catalyzed Cycloaddition Reactions of Propargyl Substrates** *Naseem Iqbal - Norwegian University of Science and Technology*
12.20	Lunch (12.20-13.30)			

Wednesday March 13, afternoon				
	Rotonde	Sorbonne 2	Cambridge 32	Cambridge 30
	Heterogeneous Catalysis	***Micro- and mesoporous catalytic materials***	***Renewables - Biomass, Hydrogen, Solar***	***Theory, Spectroscopy, Model Catalysts***
13.30	**K8** **Towards Tailor Made, Multi-Functional, Fischer-Tropsch Catalysts**	**87** **Synthesis and characterization of particles with both hydrophobic and hydrophilic properties** *C. Franch - UT*	**89** **TiO_2-SiO_2 macroscopic beads as photocatalysts for environmental remediation** *Damiano Cani - KU Leuven*	**91** **Optimization of steric and electronic properties of NHC ligands for an efficient iridium SABRE catalyst** *Bram J.A. van Weerdenburg - RUN*
13.55	*Jorge Gascon - TUD*	**88** **Single-Particle Spectroscopy on Large SAPO-34 Crystals at Work: Methanol-to-Olefins vs. Ethanol-to-Olefins** *Qingyun Qian - UU*	**90** **Surface Reactions of Polyols on Pt/Al_2O_3 in the Presence of Water** *Carsten Sievers - Georgia Institute of Technology, USA*	**92** **The (Non)sense of Surface Photovoltage Spectroscopy in Photocatalysis** *Sammy W. Verbruggen - University of Antwerp*
14.25	**PL5** **In-situ analysis of working catalyst surfaces: can we understand heterogeneous processes without a-priori models? - Robert Schlögl -** Fritz Haber Institut Berlin, Germany			
15.10	Closing session and lecture + poster awards (Rotonde)			