

Monday February 28

10.45	Opening NCCC XII (Rotonde)			
11.00	PL1 From "preparation" to "synthesis" in the generation of solid catalysts - Prof. dr. F. Schuth - Max Planck Institut für Kohlenforschung Muhlheim (Rotonde)			
11.45	PL2 Protein Engineering to Identify or Create Enantioselective Biocatalysts - Prof. dr. Uwe T. Bornscheuer - Greifswald University (Rotonde)			
12.30	Lunch (12.30-13.45) Poster session I: Posters with even serial numbers (Asamblea, Alegria and Oxford 22)			
	Rotonde	Sorbonne 2	Cambridge 32	Cambridge 30
	<i>Homogeneous Catalysis</i>	<i>Heterogeneous Catalysis</i>	<i>Renewables – Biomass, Hydrogen, Solar Energy</i>	<i>(Bio)Organic Synthesis and Catalysis</i>
13.45	K1 The world of sigma-complexes. Bonding and catalytic applications <i>Prof. S. Sabo-Etienne - University of Toulouse</i>	5 Nanoconfinement of Cu/ZnO nanoparticles in a caged Im-3m SiO ₂ mesostructure: towards sintering-stable methanol synthesis catalysts <i>Gonzalo Prieto - Utrecht University</i>	9 Effective Strategies for Enhanced Gasoline Production in the Fluid Catalytic Cracking of Rapeseed Vegetable Oil <i>T.V. Malleswara Rao - Delft University of Technology</i>	13 Direct Asymmetric syn-Aldol Reactions of Linear Aliphatic Ketones with Primary Amino Acid Derived Diamines <i>Anneleen L.W. Demuyneck - Katholieke Universiteit Leuven</i>
14.10		6 Reaction path analysis of toluene total oxidation over CuO-CeO ₂ /Al ₂ O ₃ <i>Unmesh Menon - Ghent University, Belgium</i>	10 Sorbitol dehydration into isosorbide in molten salt hydrate medium <i>Jianrong Li - Delft University of Technology</i>	14 Chemoenzymatic synthesis of enantiopure benzyloquinoline and berbine alkaloids <i>Joerg H. Schrittwieser - University of Graz</i>
14.35	1 A New and Selective Route Towards Hydroxy-Functionalized Imidazole Derivatives via Tandem Reactions <i>Jarno J. M. Weemers - Eindhoven University of Technology</i>	K2 34 years of Methanol to Gasoline (MTG) or Olefins (MTO) research - what is still new? <i>Prof. U. Olsbye - University of Oslo</i>	11 How nanoconfinement in porous carbon and Ni addition can be combined to improve the H ₂ release and uptake behaviour of LiBH ₄ <i>Peter Ngene - Utrecht University</i>	15 Asymmetric Autocatalysis in Organic Reactions: A Spectroscopic Study <i>Pieter H. Bos - University of Groningen</i>
15.00			2 Direct amination of (bio) alcohols using ammonia <i>Dennis Pinggen - Eindhoven University of Technology</i>	12 New Mechanistic Insights in the CoMo Sulfide-Catalyzed Hydrodeoxygenation of Lignin Model Compounds <i>Anna L. Jongorius - Utrecht University</i>
15.25	3 Cooperative H-Bonding in Co(por) Catalyzed Aziridination of Styrene with Sulfonyl Azides as Nitrene Source: A Computational Study <i>Alma I. Olivos Suarez - University of Amsterdam</i>	7 Size and site effects on the dissociation of CO on Rhodium Surfaces, Clusters and Nanoparticles <i>I.A.W. Filot - Eindhoven University of Technology</i>	K3 Ternary metal oxide photoanodes for water splitting: synthesis, charge transport and surface catalysis <i>Dr. Ir. R. van de Krol, TuDelft</i>	17 Selectivity in Pd-catalyzed transformations of Michael Acceptors: Conjugate Addition Vs. Mizoroki-Heck Reactions; Oxidative-Heck Reactions <i>Aditya L. Gottumukkala - University of Groningen</i>
15.50				4 Synthesis of chiral cyclic carbonates using (rac)-epoxides and carbon dioxide mediated by metallosalen complexes <i>Daniele Anselmo - Institute of Chemical Research of Catalonia</i>
16.15	coffee/tea Poster session I: Posters with even serial numbers (Asamblea, Alegria and Oxford 22)			
18.15	Dinner (18.15 - 19.45)			
	Career Development & Opportunities			
19.45	CDO lecture			
20.15	Company Market			

Tuesday March 1, morning

8.30	PL3 Fischer-Tropsch: new light through old windows? Philip Gibson - Sasol Technology Research (Rotonde)			
9.15	PL4 From mechanistic insight towards rational catalyst design Prof. dr. ir. E.J.M.Hensen - Eindhoven University of Technology (Rotonde)			
10.00	Coffee/Tea (10.00-10.30)			
	Rotonde	Sorbonne 2	Cambridge 32	Cambridge 30
	<i>Homogeneous Catalysis</i>	<i>(Bio)Organic Synthesis and Catalysis</i>	<i>Micro- and Mesoporous Catalytic Materials</i>	<i>Applied Catalysis and Processes</i>
10.30	19 Approaches towards chiral amines using asymmetric hydrogenation and transaminase technologies <i>Lavinia Panella - DSM Pharma Chemicals</i>	K4 A Tale of Three Enzymes and Use in Synthesis <i>Prof. Helen C. Hailes - Univ. College London</i>	27 Catalytic opportunities with carbon silica composites <i>M. Dusselier - KULeuven</i>	33 Liquid Phase Oxidative Cleavage of Levulinic Acid to Succinic Acid using Aqueous Hydrogen Peroxide <i>L. Daniel - University of Groningen</i>
10.55	20 Self-assembled, bidentate “box” ligand for the highly selective, asymmetric hydroformylation of unfunctionalised, internal alkenes <i>Tendai Gadzikwa - University of Amsterdam</i>		28 Tracing the Precursor Phase during Supported Catalyst Preparation using Cryo-Electron Tomography <i>Tamara M. Eggenhuisen - Utrecht University</i>	34 Reaction pathway analysis of methanol-to-hydrocarbons conversion <i>Pravesh Kumar - Ghent University</i>
11.20	21 Mechanistic studies on the Pd/TOMPP-catalyzed telomerization of 1,3-butadiene with biomass-based alcohols <i>P.J.C. Hausoul - Utrecht University</i>	24 Catalytic Asymmetric Carbon—Carbon Bond Formation with Organolithium Compounds. <i>Manuel Pérez - University of Groningen</i>	29 Green refinery feedstocks via catalytic flash pyrolysis of biomass <i>T.S. Nguyen - University of Twente</i>	35 Carbon deposits as the active phase in CO2 oxidative dehydrogenation of ethylbenzene to styrene <i>Christian Nederlof - Delft University of Technology</i>
11.45	22 The Role of Water in Metal Catalyzed Transfer Hydrogenation of Ketones, a Computational Study <i>A. Pavlova - University of Amsterdam</i>	25 The application of papain in the substrate mimetics approach <i>Roseri J. A. C. de Beer - Radboud University Nijmegen</i>	30 Interplay of metal connector and amine functionalization in flexible MOFs: repercussions on CO2 separation <i>Pablo Serra-Crespo - Delft University of Technology</i>	K5 Gold titania catalysts for the direct epoxidation of propene <i>Dr.ir. T.A. Nijhuis - Eindhoven University of Technology</i>
12.10	23 Stereomutation of Pentavalent Compounds <i>E.P.A. Couzijn - ETH Zürich</i>	26 Catalytic Asymmetric Synthesis of (-)-Rasfonin <i>Yange Huang - University of Groningen</i>	31 Conversion of Glycerol to Cyclic Acetals by Using Lewis Acid Catalysts <i>Li Li - K.U.Leuven</i>	
12.35	Lunch (12.35-13.45) Poster session II: Posters with odd serial numbers (Asamblea, Alegria and Oxford 22)		32 Nanoscale Chemical Imaging of the Coordination and Distribution of Aluminum in Zeolites by Scanning Transmission X-ray Microscopy <i>L.R. Aramburo - University Utrecht</i>	

Tuesday March 1, afternoon

	Rotonde	Sorbonne 2	Cambridge 32	Cambridge 30
	Heterogeneous Catalysis	Renewables – Biomass, Hydrogen, Solar Energy	Micro- and Mesoporous Catalytic Materials	Tools: Theory, Spectroscopy and Model Catalysis'
13.45	36 Preparation of catalytic coatings on microchannel walls for various applications <i>L.N. Protasova - University of Technology, Eindhoven</i>	40 Rational design of solid catalysts for the conversion of cellulose <i>Stijn Van de Vyver - K.U. Leuven</i>	44 Gold nanorods stabilized by a mesoporous silica layer <i>A.J. van de Glind - University Utrecht</i>	46 Growth of large aromatics in the H-ZSM-5 and H-SAPO-34 catalyst during methanol conversion: a combined DFT and experimental study <i>Karen Hemelsoet - Ghent University</i>
14.10	37 The rate limiting step in methane steam reforming <i>D.A.J.M. Ligthart - Eindhoven University of Technology</i>	41 Highly Selective Bimetallic Catalysts for Renewable H ₂ Production via Aqueous-Phase Reforming of Biomass-Derived Oxygenates <i>Dilek A. Boğa - Utrecht University</i>	K6 Hybrid Ordered Porous Materials in liquid phase catalytic reactions: PMOs, MOFs and porous polymers. <i>Prof. Dr. Pascal Van Der Voort - University Gent</i>	47 Modeling Lewis catalyzed reactions in Metal Organic Frameworks <i>Matthias Vandichel - Ghent University</i>
14.35	38 Sono-Catalysis <i>Thomas Hielscher - Hielscher Ultrasonics GmbH Teltow</i>	42 Insights in the catalytic hydrotreatment of pyrolytic lignin to low molecular weight phenolics <i>A. Kloekhorst - University of Groningen</i>		48 Towards real-time three-dimensional imaging of a single catalyst extrudate in action <i>Simon D.M. Jacques - Utrecht University</i>
15.00	39 Development of a heterogeneous catalyst for the telomerization of 1,3- butadiene with biomass-based alcohols <i>A.N. Parvulescu - Utrecht University</i>	43 Supramolecular porphyrin - Fe ₂ S ₂ hydrogenase assemblies for photocatalytic hydrogen formation <i>Sofia Derossi - University of Amsterdam</i>	45 Using well-defined block amphiphilic copolymers as templates for synthesis of mesoporous silicas with different mesostructures <i>Shiuh-Tzung Liu - Taiwan University</i>	49 Periodic DFT-D study of the adsorption of C1-C4 alcohols in H-ZSM-5 <i>Cuong Manh Nguyen - Gent University</i>
15.25	Coffee/Tea (15.25-15.45)			
	Rotonde	Sorbonne 2	Cambridge 32	Cambridge 30
	Heterogeneous Catalysis	Homogeneous catalysis	Renewables – Biomass, Hydrogen, Solar Energy	Tools: Theory, Spectroscopy and Model Catalysis
15.45	50 Carbon nanofiber-supported and bulk La ₂ O ₃ as solid base catalysts <i>Anne Mette Frey - Utrecht University</i>	53 Difficulties to Start a Chain: the Nature of Low Initiation Efficiencies and the Role of Chain Transfer in the Rh Catalyzed Stereoselective Carbene Polymerization* <i>Markus Finger - University of Amsterdam</i>	56 Solid-state NMR studies of NaAlH ₄ -based hydrogen storage materials <i>Margriet Verkuijlen - Radboud University</i>	59 Chemical transformations of supported iron oxide nanoparticles hydrogen and syngas followed by in-situ X-ray Adsorption <i>Peter Thiine - Eindhoven University of Technology</i>
16.10	51 Mechanism of hydrocarbon oxidation in copper- and iron-exchanged zeolites <i>Peter Vassilev - Eindhoven University of Technology</i>	54 Highly Enantioselective Synthesis of 3-substituted-γ-Butenolide via Palladium-Catalyzed Kinetic Resolution of Unsymmetrical Allyl Acetates <i>Bin Mao - University of Groningen</i>	57 Hydrogen from supercritical water reforming of ethylene glycol using alumina supported metal catalysts <i>D.J.M. de Vlieger - University of Twente</i>	K7 Design of Co Fischer-Tropsch Synthesis catalysts guided by insights from Computational Catalysis. <i>Prof. M. Saeys - National University of Singapore</i>
16.35	52 Direct carbon nanofiber growth on carbon paper by nickel catalyst for use in proton exchange membrane fuel cells <i>S. Celebi - Eindhoven University of Technology</i>	55 Remote Supramolecular Control of Catalyst Selectivity in the Hydroformylation of Alkenes <i>Pawel Dydio - University of Amsterdam</i>	58 Efficient catalytic conversions of trioses to lactic acid using homogeneous catalysts in water <i>C.B. Rasrendra - University of Groningen</i>	
17.00	NWO CW 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 (Poster Awards)			

Wednesday March 2, morning

8.45-9.30 PL5 Selective catalytic oxidation of water and of CH bonds by manganese and iridium catalysts. Prof. Robert Crabtree - Yale University (Rotonde)				
	Rotonde	Sorbonne 2	Cambridge 32	Cambridge 30
	<i>Homogeneous Catalysis</i>	<i>Coordination</i>	<i>Tools: Theory, Spectroscopy and Model Catalysis</i>	<i>Applied Catalysis and Processes</i>
9.35	60 Asymmetric Synthesis of Tetrahydroisoquinolines and Saturated Nitrogen Heterocycles via Intramolecular Enantioselective Ir-catalyzed Allylic Amidation <i>Martin Fañanás-Mastral - University of Groningen</i>	K8 Calcium the "sleeping beauty": from applications in catalysis to investigations in hydrogen storage materials <i>Sjoerd Harder - Universiteit Groningen</i>	62 Electrochemical N ₂ production from nitrite: the quest for the perfect catalyst. <i>M. Duca - Leiden University</i>	64 In-Situ Micro-Spectroscopy study on the Coke formation during the Methanol-to-Olefin Conversion on individual H-ZSM-5 crystals <i>Davide Mores - Utrecht University</i>
10.00	61 The Use of Carbosilane Dendrimer-Immobilized S,S-TsDPEN Ligands in Iron(III)-catalyzed Asymmetric Olefin Epoxidation <i>Vital A. Yazerski - Utrecht University</i>		63 Metal phthalocyanines as catalysts for the fuel cell cathode – an example of oxidation reactions catalyzed by metal phthalocyanines <i>P.S. Miedema - Utrecht University</i>	65 Adsorption as a solution to “The Great Acetonitrile Shortage”? <i>Tom Van Assche - Vrije Universiteit Brussel</i>
10.25	Coffee/tea (10.25-10.50)			
	Rotonde	Sorbonne 2	Cambridge 32	Cambridge 30
	<i>Renewables Biomass, Hydrogen, Solar Energy</i>	<i>Heterogeneous Catalysis</i>	<i>(Bio)Organic Synthesis and Catalysis</i>	<i>Applied Catalysis and Processes</i>
10.50	66 Photocatalytic CO ₂ Activation into CH ₄ over Titania Dispersed Materials – Catalyst Screening and Mechanism Exploration <i>Chieh-Chao Yang - University of Twente</i>	70 Spatial Reactivity of Individual Fluid Catalytic Cracking Catalyst Particles throughout Different Life Stages <i>Inge L. C. Buurmans - Utrecht University</i>	74 A Sequential Asymmetric Conjugate Addition/Oxidative Dearomatization Strategy for the Synthesis of Chiral Spirocyclic Cyclodienones <i>Alena Rudolph - University of Groningen</i>	78 Kinetic study of direct propylene epoxidation over Au/Ti-SiO ₂ in the explosive regime <i>J. Chen - Eindhoven University of Technology</i>
11.15	67 Catalytic Water Splitting with High Turnover Rate by a New Class of Single Site Oxygen Evolving Complexes <i>Khurram Saleem Joya - Leiden Institute of Chemistry</i>	71 Cellulose conversion into alkylglycosides in the ionic liquid 1-butyl-3-methylimidazolium chloride <i>Igor A. Ignatyev - K.U. Leuven</i>	75 Biomolecular Catalytic Assemblies - Creation of an Artificial Metalloenzyme <i>Jeffrey Bos, RUG</i>	79 Mechanistic Insight in the Gold Catalyzed Oxidation of Cyclohexane <i>B. P. C. Hereijgers - Utrecht University</i>
11.40	68 CO ₂ photoreduction using NiO/InTaO ₄ in a novel photoreactor for renewable energy <i>Jeffrey C. S. Wu - National Taiwan University</i>	72 Gold surfaces and clusters on TiO ₂ with remarkable reactivity for CO oxidation and the water gas shift reaction <i>A. Hussain - Eindhoven University of Technology</i>	76 Ionic liquids catalyzed synthesis of β-hydroxy ketones <i>Sanjib Kumar Karmee - Delft University of Technology</i>	80 Effects of Process Parameters on Carbon Deposition during Iron Catalyzed Fischer-Tropsch Synthesis studied with a Tapered Element Oscillating Microbalance <i>Ard C. J. Koeken - Utrecht University</i>
12.05	69 How to selectively reduce glycerol <i>Jeroen ten Dam - Delft University of technology</i>	73 Application of new nickel(II) thiosemicarbazone supported on nano porous silica as a catalyst for selective oxidation of alcohols <i>Mohammad Hakimi - Payame Noor University</i>	77 Pd-Catalyzed Synthesis of N-heteroaromatics by Isonitrile Insertion Reactions <i>Gitte van Baelen - VU-University Amsterdam</i>	81 Ionic Liquids – Are they worth their salts? <i>Patrick S. Bäuerlein - KWR Watercycle Research Institute</i>
12.30	Lunch (12.30-13.30)			

Wednesday March 2, afternoon

	Rotonde	Sorbonne 2	Cambridge 32	Cambridge 30
	<i>Coordination chemistry</i>	<i>Heterogeneous Catalysis</i>	<i>Micro- and Mesoporous Catalytic Materials</i>	<i>Renewables - Biomass, Hydrogen, Solar Energy</i>
13.30	82 Oxidative Addition of Alkyltin trichlorides on Pd(0): Unprecedented Sn-Calkyl bond activation and Catalytic Dehydrostannylation <i>Yves Cabon - Utrecht University</i>	88 Conversion of Linear C4 Olefins with Modified Acid ZSM-5 Zeolites <i>M. Henry - K.U.Leuven</i>	94 Template Removal and Methanol-to-Olefin Conversion on Individual CHA Zeolite Crystals: Effect of Crystal Size as Revealed by In-Situ UV-Vis Micro-Spectroscopy <i>Qingyun Qian - Utrecht University</i>	100 Application of Metathesis in the Simultaneous Production of Bioderived <i>J. Le Nôtre - Wageningen University and Research Centre</i>
13.55	83 Switching the Ligand Coordination by Supramolecular Interactions Implication in Hydroformylation Catalysis <i>Rosalba Bellini - University of Amsterdam</i>	89 Bifunctional catalytic conversion of cellulose into hexitols <i>Jan A. Geboers - Catholic University Leuven</i>	95 Zeolite Y crystals with trimodal porosity as ideal hydrocracking catalyst <i>Jovana Zečević - Utrecht University</i>	101 Oxidative esterification of glycerol over heterogeneous gold and platinum catalysts <i>Rajeesh K.Pazhavelikkath Purushothaman - University of Groningen</i>
14.20	84 New Reactivity with Cooperative and Adaptive Phosphorus Ligands <i>Jarl Ivar van der Vlugt - University of Amsterdam</i>	90 Iron-based catalysts for the Fischer-Tropsch synthesis of lower olefins studied by Mössbauer spectroscopy <i>Hirsa M. Torres Galvis - Utrecht University</i>	96 Ethane/Ethene Separation Turned on its Head: Selective Ethane Adsorption on the Metal Organic Framework ZIF-7 Through a Gate-Opening Mechanism <i>Canan Gücüyener - Delft University of Technology</i>	102 Ionic Liquid Stabilized Rh Nanoparticles for Citral Cyclodehydration <i>Xian-Yang Quek - Eindhoven University of Technology</i>
14.45	85 Synthesis and Catalytic Properties of Heterobimetallic Pincer Complexes <i>Sohail Anjam - Utrecht University</i>	91 Droplet Evaporation on Superhydrophobic Carbon-nanofiber Surfaces <i>Hrudya Nair - University of Twente</i>	97 Methane dehydroaromatization: the influence of hierarchical structuring of ZSM-5 <i>Victor O. Rodrigues - Eindhoven University of Technology</i>	103 How to control the reversibility of H₂ sorption in nanoconfined NaAlH₄ <i>Jinbao Gao - Utrecht University</i>
15.10	86 Redox Non-innocent Ligands in Open-Shell Organometallic Chemistry <i>Bas de Bruin - University of Amsterdam</i>	92 Cathodic corrosion – a quick, clean and versatile method for the synthesis of metallic nanoparticles <i>A. I. Yanson - Leiden Institute of Chemistry</i>	98 Localization and Reactivity of Sulphur Poisons within Individual Fluid Catalytic Cracking Particles <i>Javier Ruiz-Martínez - Utrecht University</i>	104 Hydrogen production using Sorption Enhanced Sour Water-Gas Shift process. <i>S. Walspurger - Energy Research Centre of the Netherlands</i>
15.35	87 Supramolecular chirogenesis in metallosalen structures using carboxylic acids <i>Arjan W. Kleij - Institute of chemical research of Catalonia</i>	93 Aqueous phase reduction of bromate contaminants in drinking water - Design of efficient microreactors <i>K. Seshan - University of Twente</i>	99 Sulfonated Metal Organic Frameworks (MOFs) A new class of strong acid catalysts and proton conducting materials <i>E.V. Ramos-Fernández - Delft University of Technology</i>	105 Solubilisation and aqueous phase reforming of lignin for the production of aromatic chemicals and hydrogen <i>Joseph Zakzeski - Utrecht University</i>
16.05	Closing session (Rotonde)			