			Monday March	2					
10.45		Opening NCCC X (Rotonde)							
11.00	P1	Molecular Foundations of Heterogeneous Metal Catalysis Prof. dr. Gabor A. Somorjai - University of California, Berkeley, USA							
11.45	P2								
12.30		Lunch (12.30-13.45)							
		Poster session I: Posters with even serial numbers (Asamblea, Alegria and Oxford 18)							
		Rotonde Sorbonne 2 Cambridge 32							
		Homogeneous Catalysis	Heterogeneous Catalysis	To	ools: Theory, Spectroscopy and Model Catalysts		Sustainable Chemistry, Energy & Devices		
13.45	1	Ruthenium-diphosphine Cp complexes as catalysts for the allylation of phenols with allyl alcohol; relation between structure and selectivity J. A. van Rijn Leiden University	On the role of CO2 in the total oxidation of propane over a CuO-CeO2/Al2O3 catalyst V. Balcaen Gent University	<u>K1</u>	Frontiers in multi-scale catalysis modeling	13	Experimental and modeling analysis of catalytic reforming of methane to hydrogen in an adsorption enhanced fixed bed reactor M.H. Halabi TU/e		
14.10	2	Lewis Acid-Controlled Regioselectivity in Styrene Hydrocyanation	The direct production of methanol over Cu-ZSM-5 zeolites: A quantitative structure-performance relationship		Dr. Karsten Reuter - Fritz-Haber-Institut Berlin, Germany	14	Application of Salts as Catalysts for the Conversion of Glucose to HMF and Levulinic Acid		
		Bini, L. B., TU/e	N.V. Beznis University of Utrecht				C.B. Rasrendra Rijksuniversiteit Grongingen		
14.35	3	Single hydrogen bonds to form Supramolecular heterobidentate ligands and for substrate orientation: application in asymmetric hydrogenation	K2 From fundamental insights towards practical catalysts - nanostructured carbons in catalysis	9	Symmetric transition state analysis in computational catalysis]	Catalytic Glycerol Conversion into 1,2- Propanediol in Absence of Added Hydrogen		
		Breuil, PAR, University of Amsterdam, HIMS			Bouke Bunnik TU/e		Sels B. F. Catholic University of Leuven		
15.00	4	Homogeneous hydrogenation of Olefins and Alkynes Using Iron Nanoparticles as Catalyst	Dr. Harry Bitter - University of Utrecht	10	Haloperoxidase reaction events monitored at single molecule level:Comparison between a Haloperoxidase enzyme and its inorganic biomimic	16	Integrated Plasma Catalytic Technology for Hexane Oxi-Cracking		
		Pim Huat Phua DSM			Gert De Cremer Universiteit Leuven		Han Gardeniers TU Twente		
15.25	<u>K3</u>	Supramolecular Concepts in Homogeneous Catalysis	The influence of Vanadium as dopant for La ₂ NiO ₄₊₈ in selective oxidation of propane.	11	Electrooxidation of adsorbed CO on stepped platinum single-crystal electrodes in alkaline media	17	Telomerization of 1,3-butadiene with polyols over a Pd/TOMPP catalytic system		
			Crapanzano S., TU Twente		Gonzalo García Leiden University		A. N. Parvulescu Universtity of Utrecht		
15.50		Prof. dr. Bernhard Breit - University of Freiburg, Germany	Catalytic oxi-cracking as a route to olefins	12	In situ x-ray spectroscopy and spectromicroscopy of catalytic systems Frank M.F. de Groot University of Utrecht	18	Chemical modification of <i>Jatropha curcas</i> oil by co-metathesis reaction		
			C. Boyadjian TU Twente		Nanomatarials		L. Junistia Rijksuniversiteit Groningen		
16.15	1	Coffee/Tea (16.15 - 16.40)							
		Poster session I: Posters with even serial numbers (Asamblea, Alegria and Oxford 22)							
16.15		VIRAN Membership Meeting (16.15-17.45, Cambridge 32)							
18.15		Dinner (18.15 - 19.45)							
19.45 20.15		Career Development & Opportunities CDO lecture Career Development & Opportunities Session							

				Tuesday March 3, n	norni	ng			
8.30	<u>P3</u>	Structure Sensitivity and Insensitivity of Surfa	ce an	l Bulk Chemical Reactions Prof. dr. Rutger van Sa	nten -	TU/e, The Netherlands			
9.15	<u>P4</u>	2 Zeolites meet metal-organic framework materials in chemical industry Dr. Ulrich Müller - BASF Ludwigshafen, Germany							
10.00		Coffee/Tea (10.00-10.30)							
		Rotonde		Sorbonne 2		Cambridge 32		Cambridge 30	
		Homogeneous Catalysis		Heterogeneous Catalysis	Ta	ools: Theory, Spectroscopy and Model Catalysts	(Bio)organic synthesis and catalysis	
10.30	19	Effect of 6-alkyl substituted 2,2'- bipyridines in the Pd-catalyzed styrene carbonylation: shifting the selectivity from polyketones to oligoketones	<u>K4</u>	Heterogeneously catalysed reactions in the liquid phase	27	Grafted Organotin Catalyst and Catalytic Process Monitoring Using Advanced Interface NMR	32	A New Regeneration System for Oxidized Nicotinamide Cofactors	
10.55	20	D Amora, A., Università di Trieste Towards DNA based transition metal catalysts	-	Prof. dr. Chris Hardacre - Queens University Belfast, Ireland	28	Rudolph Willem Vrij Universiteit Brussel Understanding automotive exhaust catalysis: Reaction and interaction between CO and NO on the surface of Rh(100)	33	Seda Aksu TU Delft Recyclable Homogeneous Dendritic Catalysts for Tandem Reactions in Semi- Permeable Compartments	
		Ernsting, J.E, University of Amsterdam, HIMS				Maarten M.M. Jansen TU/e Niemantsverdriet		Niels J.M. Pijnenburg University of Utrecht	
11.20	21	In search for single-component homogeneous catalysts for ethylene oligo- and polymerization: the role of the metal oxidation state	24	Platinum Nano-Particles on and in Colloidal Silica Carriers	29	How the C-C bond breaks in fuel cell ethanol oxidation	34	DNA-based micellar catalysis	
		Duchateau, R. TU/e		Vincenzo Roberto Calderone Utrecht University		Steven E.F. Kleyn Leiden university	ļ	Fiora Rosati Rijksuniversiteit Grongingen	
11.45	22	Asymmetric Nickel-catalysed reductive coupling reactions of 1,3-dienes with aldehydes	25	eq:Highly active CeO2-supported Au clusters for but a diene hydrogenation	30	Zeolites in the act: A combined microspectroscopic approach	<u>K5</u>	Recent Advances in the Combination of Metal and enzyme Catalysis	
		Teichert, F Rijksuniversiteit Grongingen		Yejun Guan TU/e		Marianne H.F. Kox, University of Utrecht			
12.10	23	Aromatic diselenides as catalysts in the oxidation of alcohols: the unexpected effect of substituents	26	On the origin of the cobalt particle size effect in Fischer-Tropsch catalysis	31	A methodology for predictive modeling in homogeneous catalysis: applications in green chemistry		Prof. dr. Jan-Erling Baeckvall- Stockholm University, Sweden	
		Toorn, J.C. TU Delft		J.P. den Breejen Utrecht University		Ana G. Maldonado University of Amsterdam, HIMS			
12.35		Lunch (12.35-13.45) Poster session II: Posters with odd serial numbers (Asa	ımblea	ı, Alegria and Oxford 22)					

		Tuesday March 3, af	ternoon				
13.45	P5 Coordination Chemistry with pi Radical Ligands: Where are the (Valence) Electrons Prof. dr. Karl A. Wieghardt - Max Planck Institut fuer Bioanorganische Chemie, Muelheim a/d Ruhr, Germany						
	Rotonde	Sorbonne 2	Cambridge 32	Cambridge 30			
	Homogeneous Catalysis	Coordination Chemistry and Organometallic Chemistry	Heterogeneous Catalysis	Micro- and Mesoporous Catalytic Materials			
14.35	NMR Studies on the Supramolecular Structure of Catalytically-Important Transition-Metal Complexes	36 Synthesis and Characterization Studies of a Two- Step Spin-Crossover Mononuclear Iron(II) complex with a [HS-LS-LS] Intermediate Phase	Towards an ultra-stable and zero leaching supported metal oxide catalyst for liquid oxidation reactions	Discontinuities in the low coverage adsorption of C1-C14 linear alkanes on Na- CHA and SAPO-34.			
		Bonnet, SA Leiden University	Ilke Muylaert University of Gent	Sarah Couck Vrije Universiteit Brussel			
15.00	Prof. dr. Alceo Macchioni - <i>University of Perugia, Italy</i>	Efficient access to complex ligands for catalysis by MCR chemistry	Operando Raman and ATR-FTIR Spectroscopy of Liquid Phase Heterogeneous Catalytic Processes	Impregnation of Mesoporous Silica Studied with Differential Scanning Calorimetry			
		Ruijter, E. VU	María D. Hernández-Alonso University of Delft	Tamara M. Eggenhuisen University of Utrecht			
15.25	35 Selective hydroformylation of 2,2- disubstituted alkenes using chiral diphosphites	38 Essential Building Blocks	41 Synthesis of Carbon Nano Fiber (CNF) based structured catalyst support layers on fused silica and silicon substrates: model systems towards multi-phase microreactors	Synthesis and integration of diameter and chirality controlled CNTs in zeolites			
	Cornelissen, L.L.J.M., TU/e	Slootweg, J.C. VU	D.B. Thakur TU Twente	J. Van Noyen KU Leuven			
15.50	Coffee/Tea (15.50-16.10)						
	Rotonde	Sorbonne 2	Cambridge 32	Cambridge 30			
	Industrial Catalysis and Bulk Chemicals	Coordination Chemistry and Organometallic	Heterogeneous Catalysis	Tools: Theory, Spectroscopy and Model			
		Chemistry		Catalysts			
16.10	A new proposed mechanism for the activation of iron-based Fischer-Tropsch catalysts based on in-situ TEM-EELS measurements	[NiFe] Complexes as Structural and Functional Models for Hydrogenases	Desilication of ferrierite for mesoporosity generation and improved catalyst effectiveness	Chemical reactivity of high-silica zeolites modified with gallium: the unexpected case of anionic oligomerization of alkenes			
	S. Janbroers Albemarle	Angamuthu, R Leiden University	Adriana Bonilla Sanchez Catalan Institution of Chemical Research (ICIQ-Tarragona)	Evgeny A. Pidko TU/e			
16.35	<u>K7</u> Industrial Catalysis; Challenges and Opportunities	47 Tris(pyrazolyl)phosphines as versatile ligands in coordination chemistry	50 High rates of mass transfer and reaction in rotating foam reactors	Raman spectroscopy as a versatile tool for reaction monitoring in homogeneous oxidation catalysis			
		Tazelaar, C.G.J. VU	R. Tschentscher TU/e	D. Pijper Rijks Universteit Groningen			
17.00	Dr. Carl Mesters - Shell Amsterdam, The Netherlands	Hemilabile donor-functionalized NHCs as ligands in low-valent Palladium complexes	51 Hairy foam: Novel catalyst support for fast mass transfer in liquid phase catalytic reactions	Direct measurement of adsorption behaviour using a sub second liquid transient ATR microreactor			
		Warsink, S University of Amsterdam, HIMS	J. K. Chinthaginjala TU Twente	T.J.A.Renckens TU/e			
17.30	NWO CW Talent workshop (Sorbonne 2)		•	•			
	Membershipmeeting KNCV-section Catalysis (Cambr	idge 30)					
18.15	Poster session II: Posters with odd serial numbers (Asa	amblea, Alegria and Oxford 22)					
20.00	Conference Dinner (VIRAN NCCC Award + KNCV C	Catalysis Award)					

	Wednesday March 4, morning						
	Rotonde		Sorbonne 2		Cambridge 32		Cambridge 30
	Industrial Catalysis & Bi	ılk Chemicals	Coordination Chemistry and Organometallic Chemistry		Micro- and Mesoporous Catalytic Materials		Sustainable Chemistry, Energy & Devices
9.15	55 Deep Desulfurization of Fo in lactone solvent; the rema of a role for Catalysts X. Xu. TU Delft	SSII Fuels by All	K8 Theory-Assisted Elaboration of Catalysts	61	Carbon nanolawn growth from cellulose, an attractive catalyst carrier J. Hoekstra University of Utrecht	65	Alkylation of benzyl cyanide in a microreactor - effect of hydrodynamics on reaction rate and selectivity -
9.30	56 Deactivation of the catalyst MTO process from a molec perspective	_	Prof. dr. Pascal Le Floch - CNRS, France	62	Amino-based Metal Organic Frameworks as stable, highly active basic catalysts	66	Solid acid catalysts for the conversion of trioses to lactates Paolo P. Pescarmona Catholic University of
	Karen Hemelsoet Uni Gent				J. Gascon TU Delft		Leuven
	Homogeneous Ca	-	Coordination Chemistry and Organometallic Chemistry		Micro- and Mesoporous Catalytic Materials		Sustainable Chemistry, Energy & Devices
9.55	57 UREAPhos: Supramolecul Ligands for Asymmetric H and Hydroformylation	ar Bidentate	Phenol-pyrazole based ligands towards the design of polynuclear manganese(III) complexes	63	New families of hierarchical metallosilicate zeolites by desilication	67	Upgrading fast-pyrolysis oil:hydrodeoxygenation of sugar fraction molecules from pyrolysis oil using ru/c catalysts
	Meeuwissen, J. University of A	Amsterdam, HIMS	Viciano-Chumillas, M Leiden University		Johan C. Groen Delft Solids Solutions		J. Wildschut Rijksuniversiteit Groningen
10.20	Homogeneous oxidation ca proline-based manganese c	talysis by	60 Ligand Effects in Z -Selective Linear Dimerization of Phenylacetylenes by Organo Rare Earth Compounds with Mono-anionic N ₄ - based azepine Ligands	64	Support-Dependent Shape Selectivity for Specifically Immobilized Hoveyda-Grubbs Metathesis Catalysts	68	Promoted and supported hydrotalcites for enhanced CO ₂ capture
	Moelands, M.A.H. University	of Utrecht	Ge, S Rijksuniversiteit Groningen		Boris Van Berlo KU Leuven		N.N.A.H. Meis University of Utrecht
10.45	Coffee/tea (10.45-11.10)				111		
	Homogeneous Ca	ıtalysis	Coordination Chemistry and Organometallic Chemistry		Micro- and Mesoporous Catalytic Materials	In	dustrial Catalysis & Bulk Chemicals
11.10	Fast and Selective Hydroami using Xanthene-based Amino Phosphorus Ligands	nomethylation	71 Framework Engineering of Zn(II)/4,4'-bipy Porous Coordination Polymers and Carboxylate-regulator: Synthesis, Structures and Thermal Properties	73	Quantization of pore corrugation in SBA- 15 by image analysis of electron tomograms	75	NOx storage catalysis for ultimate pure CO_2 fertilization in greenhouses
	Hamers, B TU/e		Phuengphai, P Leiden University		Heiner Friedrich University of Utrecht		Michiel Makkee TU Delft
11.35	70 METAMORPhos: Adaptive S Ligands and the Mechanistic for Asymmetric Hydrogenatic	Supramolecular Consequences	Coordination chemistry of polycationic phosphine ligands and their application in homogeneous catalysis	74	Carbon-Silica composites for shape selective separations	76	The preparation of commercially attractive nanocatalysts: a Pd nanocatalyst as a lead-free alternative for the Lindlar catalyst.
	Patureau, F.W. University of HIMS	f Amsterdam,	Snelders, DJM University of Utrecht		Alexios Harkiolakis KU Leuven		Peter T. Witte BASF
12.00	Lunch (12.00-13.15)			1			

	Wednesday March 4, afternoon							
	Rotonde	Sorbonne 2	Cambridge 32	Cambridge 30				
	Tools: Theory, Spectroscopy and Model Catalysts	(Bio)organic synthesis and catalysis	Homogeneous Catalysis	Micro- and Mesoporous Catalytic Materials				
13.15	Co-adsorption of water with hydrogen or oxygen on Ni(111)	Enzymes as Catalysts: New opportunities for selective oxidations	77 Mechanical catalyst activation	81 Thiophene-based Metal-Organic Frameworks				
	Shan, J Gorlaeus Laboratories Leiden Uni		Sijbesma, R.P. TU/e	Gerard P.M. van Klink TU Delft				
13.40	86 Reversible Enzymatic Hydrogen Production at High Temperature	Prof. dr. Isabel Arends - TU Delft, the Netherlands	78 Supramolecular Anchoring of Transition Metal Catalysts on Support: New Materials for "Reverse Flow Reactors"	Introducing mesoporosity in mordenites using alkaline treatment				
	S.A. Tromp TU Delft		Marras, F, University of Amsterdam, HIMS	A.N.C. van Laak				
14.05	K10 Identifying the rate limiting step and its reaction site	Cross-Linked Enzyme Aggregates: an efficient tool for the enantioselective synthesis of protected cyanohydrins	79 Asymmetric Hydrogenation of N-Aryl Imines	83 The shape-selective hydrogenation of FAMEs and vegetable oils				
		Monica Paravidino TU Delft	Mrsic, N.M. Rijksuniversiteit Groningen	Philippaerts An KU Leuven				
14.30	Prof. dr. Ib Chorkendorff - Technical University of Denmark, Denmark	88 Chiral Separation by Enantioselective Liquid- Liquid Extraction	Multimetallic Supramolecular Salen Architectures for Enhanced Cooperative Catalysis	Preparation of supported nickel oxide with tunable particle size via confinement				
		Bastiaan J.V. Verkuijl Rijksuniversiteit Groningen	Wezenberg, S.J. ICIQ	M. Wolters Universty of Utrecht				
15.00	P7 Platinum anticancer coordination compounds: S	Platinum anticancer coordination compounds: Study of DNA binding inspires new drug design Prof. dr. Jan Reedijk - Leiden University, The Netherlands						
15.45	Lecture Awards, Poster Awards and Game Award - Closing (Rotonde)							