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Monday: March 4th

10:45 - 11:00	Opening NCCC XX by E. Pidko and M. Tromp (Rotonde)			
11:00 - 11:45	PL1 <i>C.W. Jones – Georgia Tech</i> Reflections on the State of Catalysis Research & Development and Linkages Between Catalysis Subdisciplines Prof. C. Jones (Rotonde)			
11:45 - 12:30	PL2 <i>T. Bach – Technische Universität München</i> ENANTIOSELECTIVE CATALYSIS OF PHOTOCHEMICAL REACTIONS Prof. T. Bach (Rotonde)			
12:30 - 13:30	Lunch & Poster session I			
	Rotonde	Sorbonne 2	Boston 17-19	Cambridge 30
13:30 - 13:55	KN1 Generating functionality in metal oxide catalysts for selective oxidation of light alkanes <i>M. Sanchez-Sanchez – Technical University Munich</i> Dr. M. Sanchez-Sanchez	O1 Stabilization of homogeneous Mo catalysts by bulky β -diketonate ligands in deoxydehydration reactions <i>M. Stalpaert – Katholieke Universiteit Leuven</i> HOM1	O2 Design of Cr- and Fe-containing MOF catalysts for mild oxidation of methane <i>D.Y. Osadchii – Delft University of Technology</i> ZEO1	O3 Near-surface Concentrations of Molecules during Carbon Dioxide Electroreduction Studied by in-situ Surface Enhanced Infrared Absorption Spectroscopy <i>R.K. Kas – Delft University of Technology</i> PHEL1
13:55 - 14:20		O4 Chiral Self-Assembled FeII ₂ L ₃ Cages: Can We Do Asymmetric Catalysis with Nonchiral Catalysts in Chiral Cages? <i>B.S Sun – University of Amsterdam</i> HOM2	O5 Diels-Alder Conversion of Biomass-derived Compounds over Metal-organic Framework Films <i>L.D.B. Mandemaker – Utrecht University</i> ZEO2	O6 The Unusual Electrocatalytic Water Oxidation Mechanism by [Cu(Hbbpya)](OTf) ₂ <i>D. Boer – Leiden University</i> PHEL2
14:20 - 14:45	O7 Correlating the Structural and Catalytic Properties of Bimetallic Au-Pd Nanoparticles <i>J.E.S. van der Hoeven – Utrecht University</i> FHC1	O8 The role of Sc ³⁺ in the activation of [Mn ²⁺ (μ -O) ₃ (TMTACN) ₂](PF ₆) ₂ ·H ₂ O in the catalytic oxidation of alkenes with H ₂ O ₂ <i>J.D. Steen – University of Groningen</i> HOM3	O9 Supramolecular isomerism of metal-organic frameworks built from Zn(II) and 2,5-dioxidoterephthalate <i>A Gheorghe – University of Amsterdam</i> ZEO3	O10 Photochemically Driven Reverse Water-Gas Shift Reactivity <i>F.S. Schneck – Georg-August University</i> PHEL3

14:45 - 15:00	Coffee Break			
	Rotonde	Sorbonne 2	Boston 17-19	Cambridge 30
15:00 - 15:25	O11 Operando Near-Ambient Pressure XPS study of CO oxidation over Pd/CeO ₂ powder catalysts <i>V. Muravev - Eindhoven University of Technology</i> FHC2	O12 Regioselective CH borylation and hydroformylation via supramolecular control <i>S. Bai - University of Amsterdam</i> HOM4	KN2 Imaging Hierarchically Complex Catalyst Bodies at Multiple Length Scales <i>F Meirer - Utrecht University</i> Dr. F. Meirer	O13 Elucidation of the Surface Structure of a Molecular Copper Complex anchored on Gold via a Self-Assembled Monolayer <i>N.W.G. Smits - Leiden University</i> CC1
15:25 - 15:50	O14 Conversion of Synthesis Gas to Olefins and Aromatics using Bifunctional Catalysis at Industrially Relevant Conditions <i>J.L. Weber - Utrecht University</i> FHC3	O15 Supramolecular Regulation Of Click Chemistry <i>T.G. Breve - Delft University of Technology</i> HOM5		O16 Concerted oxidative addition of aryl halides to Ni(0) enabled by a PPP pincer ligand: a mechanistic study <i>P.M. Pérez García - Utrecht University</i> CC2
15:50 - 16:15	O17 Two-faced steps: a unique study of molecular alignment effect to O ₂ reaction on nanostructured Pt <i>LBF Juurlink - Leiden University</i> FHC4	O18 Para-Selective C–H Olefination of Aniline Derivatives via Pd/S,O-Ligand Catalysis <i>K. Naksomboon - University of Amsterdam</i> HOM6	O19 Advanced Characterization of HZSM-5/Al ₂ O ₃ Extrudates after Catalytic Fast Pyrolysis <i>B. Luna Murillo - Utrecht University</i> THSP1	O20 Non-Heme Metal Thiolate Complexes of Novel NNO Phenolate Ligands and their Oxidation Chemistry <i>E.C. Monkcom - Utrecht University</i> CC3
16:15 - 16:40	O21 Bridging the Materials Gap with Nano-island Model Catalysts: The Co/TiO ₂ Fischer-Tropsch Showcase <i>I.C. ten Have - Utrecht University</i> FHC5	O22 Regioselective hydroformylation of fatty acids via supramolecular substrate preorganization <i>P.R. Linnebank - University of Amsterdam</i> HOM7	O23 Why gold is activated on ceria <i>M.W.C Chang - Eindhoven University of Technology</i> THSP2	O24 Thermo-, solvato- and mechanochromism in mononuclear Cu(I) emitters is governed by a common mechanism. <i>G. Filonenko - Delft University of Technology</i> CC4
16:40 - 18:00	Poster Session I			
18:00 - 20:00	Dinner - N3C Award and DCS Quiz			

20:00 - 22:00	Company Market & Career Workshops
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Tuesday: March 5th

09:00 - 09:45	PL3 <i>S. Bordiga - Università di Torino</i> Partial oxidation of methane to methanol: is it feasible? Prof. S. Bordiga (Rotonde)			
	Rotonde	Sorbonne 2	Boston 17-19	Cambridge 30
09:45 - 10:10	O25 Pore-confined NaNH ₂ and KNH ₂ as catalysts for low temperature ammonia decomposition <i>F.C. Chang - Utrecht University</i> FHC6	O26 Mechanistic studies on titanium-based catalysts for the esterification reaction <i>L.A. Wolzak - University of Amsterdam</i> HOM8	O27 Modeling Solvent Effects in Catalytic Reactions for Energy Conversion <i>N Govindarajan - University of Amsterdam</i> THSP3	O28 Flow by and flow through copper electrodes for the electrochemical conversion of CO ₂ into CO <i>A.C. Sustrunk - University of Twente</i> PHEL4
10:10 - 10:35	O29 Structure-dependent activity of CeO ₂ supported Ru catalysts for CO ₂ methanation <i>T. Sakpal - University of Twente</i> FHC7	O30 Organocatalytic control over a fuel-driven esterification network <i>M.P. Van der Helm - Delft University of Technology</i> HOM9	O31 Spectroscopic investigation of a chromium-pyrrolyl ethene trimerization catalyst <i>B. Venderbosch - University of Amsterdam</i> THSP4	O32 B- and P-doped ordered mesoporous carbon electrocatalysts for the reduction of CO ₂ into formic acid <i>P.P. Pescarmona - University of Groningen</i> PHEL5
10:35 - 10:50	Coffee Break			
10:50 - 11:15	O33 Ostwald Ripening at the Individual Nanoparticle Level: In Situ TEM of TiO ₂ Supported Gold Nanoparticle Growth <i>M.J. Meijerink - Utrecht University</i> FHC8	KN3 Synthetic enzyme cascades – an eco-friendly, selective synthesis strategy <i>D. Rother - Forschungszentrum Juelich GmbH</i> Prof. D. Rother	O34 Octene cracking in acid zeolite catalysts: Insights from molecular simulations <i>P. Cnudde - Ghent University</i> THSP5	O35 Deposition of Pt onto P25 via Atomic Layer Deposition and its role on the photocatalytic activity <i>D Benz - Delft University of Technology</i> PHEL6
11:15 - 11:40	O36 Elucidating the roles of copper and oxygen in heterogeneous Wacker oxidation over Pd-Cu-exchanged zeolite Y catalyst via time-resolved multi-edge XAS studies <i>J. Imbao - ETH Zurich</i> FHC9		O37 The optimum particle size for Cobalt based Fischer-Tropsch synthesis <i>M.P.C. Etten - Eindhoven University of Technology</i> THSP6	O38 Why does Oxide-Derived Silver work so well as an Electrocatalyst for CO ₂ Reduction? – an operando EXAFS Study <i>N.J. Firet - Delft University of Technology</i> PHEL7

11:40 - 12:05	O39 Novel MXene based materials as acid catalysts <i>T.K. Slot - University of Amsterdam</i> FHC10	O40 g-C3N4: Tunable photocatalysts generating H2O2 for biocatalytic purposes <i>M.M.C.H. van Schie - Delft University of Technology</i> BOC1	O41 Applying modulation excitation spectroscopy to characterize the active species in homogeneous copper catalysts <i>J.P.H. Oudsen - University of Amsterdam</i> THSP7	O42 Elucidating the interface energetics of CuBi2O4 photoelectrodes for enhanced performance <i>F.E. Oropeza - Eindhoven University of Technology</i> PHEL8
12:05 - 12:30	O43 Tweaking CO2 Hydrogenation over Ni by Tuning Metal-Support Interactions <i>M.M. Monai - Utrecht University</i> FHC11	O44 Synergistic catalysis: a new concept for enzyme design <i>Z Zhou - University of Groningen</i> BOC2	O45 Regenerability of sulfur-poisoned Ru catalyst: the effect of sulfating and non-sulfating support <i>D. Kuzmenko - Paul Scherrer Insitute</i> THSP8	O46 Maximizing catalyst use in CO2 electrochemical reduction: A metal-organic framework mediated approach <i>R. Wang - Delft University of Technology</i> PHEL9
12:30 - 13:30	Lunch & Poster Session II; Mentoring session on publishing by Prof. C. Jones			
13:30 - 14:20	PL4 Winner N3C Award (Rotonde)			
	Rotonde	Sorbonne 2	Boston 17-19	Cambridge 30
14:20 - 14:45	O47 Structure effects of supported silver catalysts prepared via melt infiltration in the selective hydrogenation of cinnamaldehyde <i>P.H. Keijzer - Utrecht University</i> AHC1	O48 Sustainable Pathways for the Production of Chiral Amines by Enzymes in Batch and Continuous Flow <i>W Böhmer - University of Amsterdam</i> BOC3	O49 Dynamic interplay between defective UiO-66 and confined solvent: insights into a reaction environment at operating conditions <i>C. Caratelli - Ghent University</i> THSP9	O50 Critical Impact of Transition Metal Promoters in the MOF-Mediated Synthesis of Co@C Solid Catalysts <i>M Rivera-Torrente - Utrecht University</i> ZEO4
14:45 - 15:10	O51 Optimizing the CeO2 support by transition metal doping for highly active Pd catalysts for NO reduction with CO <i>L Zhang - Eindhoven University of Technology</i> AHC2	O52 Promiscuous and selective C-C and C-H bond breaking: monooxygenases on the brink of "nice on paper" to "where can I buy this?" <i>M.J.L.J. Fuerst - University of Groningen</i> BOC4	O53 In situ Local Temperature Mapping in Microscopy Nano-Reactors with Luminescence Thermometry <i>I.K. van Ravenhorst - Utrecht University</i> THSP10	O54 Peptide cyclizations in confined spaces <i>A.P.T. Hartendorp - University of Amsterdam</i> ZEO5

15:10 - 15:35	O55 Tuning the Cr(III) and Cr(II) Population in Cr/SiO ₂ Phillips-type Ethylene Polymerization for Controlling the Catalyst Activity, Induction Period and Polymer Properties <i>M.K. Jongkind - Utrecht University</i> AHC3	O56 Formate oxidase to promote biocatalytic oxidation <i>S.J. Willot - Delft University of Technology</i> BOC5	O57 SPECTROSCOPICALLY VALIDATED ELUCIDATION OF THE ZEOLITIC α -Fe/ α -O ACTIVE SITES AND INTERMEDIATES FOR SMALL MOLECULE ACTIVATION <i>M.L.B. Bols - Katholieke Universiteit Leuven</i> THSP11	O58 A versatile imidazole-based surfactant for the preparation of hierarchically porous (alumino)silicates <i>A. Bolshakov - Eindhoven University of Technology</i> ZEO6
15:35 - 15:50	Coffee Break			
15:50 - 16:15	KN4 Dr. L. Bini	O59 Polymeric nanoreactors templating CLEA formation. Synthesis, characterization, activity and reusability. <i>M. De Martino - Eindhoven University of Technology</i> BOC6	O60 Copper catalyzed coupling of acylnitrenes to terminal alkynes. A fast and atom efficient road to N-acyl amidines. <i>K.M. van Vliet - University of Amsterdam</i> HOM10	O61 Creating Heterogeneous SURMOF Surfaces via Self-Assembly <i>G Delen - Utrecht University</i> ZEO7
16:15 - 16:40		O62 Substrate vs. ligand control over absolute and relative stereochemistry in Pd-catalyzed intramolecular allylation reactions <i>E. Ruijter - VU University Amsterdam</i> BOC7	O63 A Cptt-based Trioxo-Rhenium Catalyst for the Deoxydehydration of Diols and Polyols <i>J. Li - Utrecht University</i> HOM11	O64 The origin of metal loading heterogeneities in Pt/zeolite-Y bifunctional catalysts <i>L.I. van der Wal - Utrecht University</i> ZEO8
16:40 - 17:05	O65 Particle Size Effects for Carbon-Supported Cu and CuZnO _x Catalysts in Methanol Synthesis <i>R Beerthuis - Utrecht University</i> AHC4	O66 One-pot conversion of aromatic alkenes to enantiopure 1,2-amino alcohols via biocatalytic cascades <i>M.L. Corrado - University of Amsterdam</i> BOC8	O67 Making Amines out of Thin Air: Iron-Mediated Synthesis of Anilines from Unactivated Arenes and Dinitrogen <i>D.L.J. Broere - Utrecht University</i> HOM12	O68 Tuning the catalytic activity of metal-organic frameworks (UiO-66) through the linker: defects or functional group? <i>G.X.F Fu - Katholieke Universiteit Leuven</i> ZEO9
17:05 - 18:30	Poster session II			
17:30 - 18:30	Dutch Catalysis Society meeting (Cambridge 30)			
18:30 - 21:00	Special Anniversary Dinner - DCS Thesis Award, NCC Award			

21:00 - 23:00	Party with Live Band (Rotonde)			
21:00 - 23:00	Drinks reception (Sportsbar "Cheers")			
Wednesday: March 6th				
	Rotonde	Sorbonne 2	Boston 17-19	Cambridge 30
09:00 - 09:45	PL5 <i>M. Robert - University Paris Diderot</i> Running the clock: catalytic reduction of CO ₂ with 2, 6 and 8 electrons with Co and Fe molecular catalysts Prof. M. Robert (Rotonde)			
09:45 - 10:10	O69 1T-MoS ₂ is not the active phase for the direct synthesis of methanethiol from syngas and H ₂ S <i>M. Yu - Eindhoven University of Technology</i> AHC5	O70 Towards an Industrial Process for Au-Catalyzed Carbohydrate Oxidations: Evaluation of Batch- vs. Continuous Reactors <i>F. van der Klis - Wageningen University and Research Centre</i> REN1	O71 Microkinetic modeling of the Fischer-Tropsch reaction on metallic cobalt nanoparticles <i>B. Zijlstra - Eindhoven University of Technology</i> THSP12	O72 Understanding the Competition between Two-Electron Reduction Products for Carbon Dioxide Electrocatalysis <i>D. Bohra - Delft University of Technology</i> PHEL10
10:10 - 10:35	O73 Support effects on the catalytic behaviour of cobalt-nickel alloy catalysts for the Fischer-Tropsch synthesis <i>C. Hernandez Mejia - Utrecht University</i> AHC6	O74 Biobased chemicals: Selective aerobic oxidation of tetrahydrofuran-2,5-dimethanol to tetrahydrofuran-2,5-dicarboxylic acid using hydrotalcite-supported gold catalysts <i>Q Yuan - University of Groningen</i> REN2	O75 Turkevich synthesis of plasmonic gold-silver bimetallic nanoparticles revisited <i>N. Blommaerts - University of Antwerp</i> THSP13	O76 Ag@CeO ₂ photocatalyst: Method, Characterization, Model, and Application <i>D.B.O. O'Neill - University of Twente</i> PHEL11
10:35 - 10:50	Coffee Break			
10:50 - 11:15	O77 Ethylene - the main intermediate of the methane dehydroaromatization reaction? <i>I. Vollmer - Delft University of Technology</i> AHC7	KN5 Carbohydrate based conversions - from catalyst preparation to reactor choice <i>J.H. Bitter - Wageningen University and Research Centre</i> Prof. J. H. Bitter	O78 Utilizing π - π Interactions for Non-Covalent Binding of Transition Metal Complexes in Self-Assembled Cages <i>R Plessius - University of Amsterdam</i> HOM13	O79 Single Particle Diagnostics: Liquid Phase Hydrogenation Reactions Inside a Microreactor <i>A.E. Nieuwelink - Utrecht University</i> FLOW1

11:15 - 11:40	O80 Metal-acid bifunctional catalysts for hydro-isomerization of alkanes : Impact of intimacy for mesoporous solid acids <i>J. Harmel - Utrecht University</i> AHC8		O81 Ruthenium-Catalyzed Reductive Arylation of N-(2-Pyridinyl)amides with Isopropanol and Arylboronate Esters <i>E. Renders - University of Antwerp</i> HOM14	O82 Catalytic biomass conversion in continuous flow microreactors <i>J. Yue - University of Groningen</i> FLOW2
11:40 - 12:05	O83 Microcapillary enabled direct conversion of methane to methanol <i>A. Delparish - Eindhoven University of Technology</i> AHC9	O84 Synthesis of 5-Hydroxymethylfurfural from Glucose over Titania-based Water-tolerant Bifunctional Solid Acid Catalysts in a Biphasic System <i>W. Guo - University of Groningen</i> REN3	O85 NEW CATALYTIC ROUTES FOR THE ENANTIOSELECTIVE SYNTHESIS OF CHIRAL PIPERIDINES <i>L Lefort - InnoSyn B.V.</i> HOM15	O86 Antagonistic tandem catalysis in Pickering emulsions using droplet microfluidics studied by in situ Raman spectroscopy <i>C.M. Vis - Utrecht University</i> FLOW3
12:05 - 12:30	O87 Understanding methanol synthesis from CO ₂ over Cu/CeO ₂ <i>J Zhu - Eindhoven University of Technology</i> AHC10	O88 Base-free selective oxidation of acidic carbohydrates using supported gold catalysts <i>R.K Pazhavelikkath - Wageningen Food and Biobased Research (WFBR)</i> REN4	O89 Novel mesoionic carbene ligands for robust iron based water oxidation catalysis <i>J. Hessels - University of Amsterdam</i> HOM16	O90 Preventing phase-distortion: on-flow NMR monitoring of a solid/liquid/gas reaction <i>G.J. Wierda - Wageningen University and Research Centre</i> FLOW4
12:30 - 13:15	Lunch			
	Rotonde	Sorbonne 2	Boston 17-19	Cambridge 30
13:15 - 13:40	KN6 Time resolved and resonance Raman spectroscopy in the elucidation of mechanisms in transition metal catalyzed oxidative transformations <i>W.R. Browne - University of Groningen</i> Prof. W. Browne	O91 Selective production of biobased phenol from lignin <i>X Huang - Eindhoven University of Technology</i> REN5	O92 Influence of intimacy and micropore size on the catalytic performance of bifunctional catalysts <i>J. Oenema - Utrecht University</i> AHC11	
13:40 - 14:05		O93 Assessing the influence of reactivity and diffusivity of different molecular weight fractions in the conversion of polydisperse feedstocks <i>T.M. Hoogstad - Wageningen University and Research Centre</i> REN6	O94 Novel ε-iron carbide Fischer-Tropsch catalysts with stable and low-CO ₂ selectivity <i>W.P. Wang - Eindhoven University of Technology</i> AHC12	
14:05 - 14:50	PL6 <i>P. Sautet - UCLA Engineering</i> Heterogeneous catalysts are dynamic Prof. P. Sautet			

14:50 - 15:10	Lecture and Poster Awards, DCS, Closing remarks
15:15	Buses depart for Leiden Central Station