



Requested: 2024-05-03 18:05

Monday: March 4th				
10:45 - 11:00	Opening			
11:00 - 11:45	<b>PL1</b> <i>S.S. Stahl – University of Wisconsin-Madison</i> Maximizing the Potential of Dioxygen in Synthetic Aerobic Oxidation Reactions			
11:45 - 12:30	<b>PL2</b> <i>E. Reisner – University of Cambridge</i> Integrated Solar Chemistry Devices for Sustainable Synthesis			
12:30 - 13:30	Lunch break			
	<b>Rotonde</b>	<b>Sorbonne</b>	<b>Boston 17-19</b>	<b>Cambridge 30</b>
	Heterogeneous Catalysis - CO2 Hydrogenation	Biomass - Carbohydrates	Homogeneous Catalysis/Coordination Chemistry	Heterogeneous Catalysis - Light Alkanes
13:30 - 13:55	<b>KN1</b> The role of catalysis in decarbonizing the petrochemical industry <i>G. Pollefeyt – DOW</i>	<b>O1</b> Relationship between Lewis acid sites and activity over carbohydrates conversion <i>Y.B. Boudjema – IFPEN</i>	<b>O2</b> Hydride as a Leaving Group in Nucleophilic Aromatic substitution <i>S. Melnikov – Utrecht University</i>	<b>O3</b> Support Effects in Vanadium Incipient Wetness Impregnation for Oxidative and non-oxidative Propane Dehydrogenation Catalysis <i>I.A. Khan – Katholieke Universiteit Leuven</i>
13:55 - 14:20		<b>O4</b> Novel Pt/CNF mixed matrix membranes for the catalytic dehydrogenation of glucose <i>E. van Keulen – Wageningen University and Research Centre</i>	<b>O5</b> Presentation canceled due to personal circumstances	<b>O6</b> Measuring Local Exothermic Effects during the Oxidative Coupling of Methane using Operando Luminescence Thermometry <i>D.W. Groefsema – Utrecht University</i>
14:20 - 14:45	<b>O7</b> Selectivity control between Reverse Water-Gas Shift and Fischer-Tropsch Synthesis in Carbon-supported Iron-based Catalysts for CO2 Hydrogenation <i>W. Meng – University of Groningen</i>	<b>O8</b> A tunable CoOx@NC catalyst for highly efficient and selective hydrogenation of 5-hydroxymethylfurfural with water <i>T.W Wang – University of Groningen</i>	<b>O9</b> Expanding the toolbox of β-diketimate chemistry: A π-extended benzo[f,g]tetracene-based ligand <i>L. Killian – Utrecht University</i>	<b>O10</b> Shape-dependent activity of Pd/CeO2 nanorods, nanocubes, and nano-octahedrons on lean methane oxidation <i>M.C.P. Chiquetto Policano – University of Twente</i>
14:45 - 15:00	Coffee break			
	<b>Rotonde</b>	<b>Sorbonne</b>	<b>Boston 17-19</b>	<b>Cambridge 30</b>
	Heterogeneous Catalysis - CO2 Hydrogenation	Heterogeneous Catalysis	Energy Storage	Materials Characterisation
15:00 - 15:25	<b>O11</b> Understanding the high CO2 methanation activity of Co/CoO interfaces: a density	<b>O12</b> Probing Catalyst Stability during Unsaturated Fatty Acid Hydrogenation in the	<b>O13</b> Potential of the S-Pt/TiO2 catalyst for Hydrogen Loading and Release of the LOHC	<b>O14</b> Observing atmosphere dependent segregation in Au-Pd core-shell nanoparticles using in

	functional theory study <i>R.D.E. Krosschell – Eindhoven University of Technology</i>	Liquid Phase by In-Situ Fluorescence Spectroscopy <i>J.W. Bos – Utrecht University</i>	system Benzyltoluene/Perhydro Benzyltoluene <i>B.B. Bong – RWTH Aachen University</i>	situ TEM <i>M. Perxés Perich – Utrecht University</i>
15:25 - 15:50	<b>015</b> Structure-sensitive Reactivity of CO2 Hydrogenation Intermediates on Supported Nickel Catalysts as Probed by In-situ Infared Spectroscopy <i>B.T. Kappé – Utrecht University</i>	<b>016</b> The coupling of ethylene and benzene towards styrene: ligand design and immobilisation <i>F.M. Martens – Katholieke Universiteit Leuven</i>	<b>017</b> Engineering durable hydrogen evolution & oxidation catalysts for the H2-Br2 flow battery <i>W.M. Berkers – University of Twente</i>	<b>018</b> 3D visualization of impregnated catalyst supports - in wet and dry state <i>J.M.J.J. Heinrichs – Eindhoven University of Technology</i>
15:55 - 16:25	Workshop CAS: Unique Catalytic Sythesis Search Strategies in CAS SciFinder-n	Workshop Metler Toledo: Automation and Digitalization in the Chemical and Pharmaceutical Industry	Workshop RSC: How do I publish research and what is it with referee 2?	Workshop VIRAN/Young NIOK: Catalysis Col Engagement
16:25 - 16:55	Workshop Surface Measurement Systems: Carbon Dioxide Capture			Workshop VIRAN/Young NIOK: Catalysis Col Engagement
16:30 - 18:15	Poster session A			
18:15 - 20:15	Dinner with CDO lecture			
20:15	CDO session	KNCV carreer workshop in Room B9		
Tuesday: March 5th				
09:00 - 09:45	<b>PL3</b> <i>A.N. Alexandrova – University of California, Los Angeles</i> Interfacial fluxionality in electrocatalysis			
	<b>Rotonde</b>	<b>Sorbonne</b>	<b>Boston 17-19</b>	<b>Cambridge 30</b>
	Electrocatalysis - C2 Products	Photocatalysis	Heterogeneous Catalysis - Catalyst Preparation	Materials Characterisation
09:50 - 10:15	<b>019</b> What is the role of Nafion in the electroreduction of CO2 into ethylene <i>D. Curulla Ferre – TotalEnergies S.E.</i>	<b>020</b> Photocatalytic Dihydroxylation of Light Olefins to Glycols by Water <i>Y. Wang – Université de Lille, CNRS</i>	<b>021</b> Aspects of catalyst preparation and performance prediction - an alternative approach <i>M. Li – Shell</i>	<b>022</b> Spectromicroscopic Techniques as a Toolbox for Chemical and Morphological Characterization of Micro- and Nanoplastics in Human Tissue <i>L.M. Zoutendijk – Utrecht University</i>
10:15 - 10:40	<b>023</b> Insights into the Structure and Activity of Bimetallic Au/Cu2O Catalysts during CO2 Electroreduction to C2 Products <i>B. Ligt – Eindhoven University of Technology</i>	<b>024</b> Photocatalytically Active Coatings for the Removal of Indoor Air Pollutants <i>N.T.C. Costa – University of Twente</i>	<b>025</b> Precise Tin Loading on PdSn Bimetallic Catalysts Leveraging in-situ Controlled Surface Deposition for Nitrate reduction <i>J.B. Betting – University of Twente</i>	<b>026</b> Computer Vision Assisted Analysis of the Effect of the Zeolite Synthesis Medium Composition on ZSM-5 Membrane Quality at Various Substrates <i>R.L.R. Riemersma – Utrecht University</i>

10:40 - 10:55	Coffee break			
	<b>Rotonde</b>	<b>Sorbonne</b>	<b>Boston 17-19</b>	<b>Cambridge 30</b>
	Heterogeneous Catalysis	Photocatalysis	Homogeneous Catalysis	Electrocatalysis - Oxidation Reactions
10:55 - 11:20	<b>KN2</b> Leveraging Polymer Coatings on Heterogeneous Catalysts to Modulate Diffusion and Transition States <i>J.A. Faria Albanese - University of Twente</i>	<b>O27</b> Development of a flow platform for solar-assisted CO2 conversion over heterogeneous catalysts <i>T. Masson - University of Amsterdam</i>	<b>O28</b> Xylose dehydration to furfural in deep eutectic solvents over homogeneous Lewis acid catalyst <i>C.R. Ruan - University of Groningen</i>	<b>O29</b> A novel, straightforward method to prepare a Fe-doped Ni3S2 Electrocatalyst for Oxygen Evolution Reaction with high stability at industrially-relevant current density <i>J. Zhu - University of Groningen</i>
11:20 - 11:45		<b>O30</b> Boosting gas phase TiO2 photocatalysis with weak electric field strengths of V/cm <i>M.N.T. Tran - University of Lille</i>	<b>O31</b> Product inhibition in Aromatic Hydroxylation by Bio-inspired Manganese catalysts <i>M.R. Saha - Utrecht University</i>	<b>O32</b> Directing the selectivity of the oxygen reduction reaction by confinement of a catalyst in a metal organic framework <i>M.E. Hoefnagel - Leiden University</i>
11:45 - 12:10	<b>O33</b> On the Activation of W/ZSM-5 Catalysts for Methane Dehydroaromatization as Probed with Operando Spectroscopy <i>J.J.G. Kromwijk - Utrecht University</i>	<b>O34</b> RoboChem: Automated Optimization of Photocatalysis with AI-Powered Robotics <i>A. Slattery - University of Amsterdam</i>	<b>O35</b> Elucidating the mechanism of lignin diol-stabilized acidolysis of C3-β-O-4 lignin models using triflic Brønsted acidic salt catalysts <i>G. Guo - University of Groningen</i>	<b>O36</b> Functionalization of 3D-structured Electrodes by Atomic-Layer-Deposited NiO for Efficient Water Oxidation <i>S. Haghverdi Khamene - Eindhoven University of Technology</i>
12:10 - 13:30	Lunch break			
13:30 - 14:15	<b>PL4</b> “Standing on Strong Catalysis Shoulders” – Some Highlights of The Netherlands Catalysis and Celebrating N3C - Prof. M. Tromp			
	<b>Rotonde</b>	<b>Sorbonne</b>	<b>Boston 17-19</b>	<b>Cambridge 30</b>
	Computational	New Polymers	Materials Characterization	Electrocatalysis
14:20 - 14:45	<b>KN3</b> Mechanistic and structural sources of complexity in the atomic scale simulation of Brønsted acidic zeolite catalysts <i>C. Chizallet - IFP Energies nouvelles</i>	<b>O37</b> Novel bio-based cyclic carbonates and investigation on their ROP to polycarbonates <i>G. Chiarioni - University of Groningen</i>	<b>O38</b> Operando XAS and DRIFTS Investigations into Bi-Promotion of the CO Oxidation Reaction over Supported Pt Nanoparticles <i>J. Siewe - Utrecht University</i>	<b>O39</b> Selective Electrochemical Oxygen Reduction to Hydrogen Peroxide by Confinement of Cobalt Porphyrins in a Metal-Organic Framework <i>D. Rademaker - Leiden University</i>
14:45 - 15:10		<b>O40</b> Renewable and Intrinsically Recyclable Polymers: Ring-Opening (Metathesis) Polymerization of Furan Diels-Alder Adducts <i>E. Harsevoort - Utrecht University</i>	<b>O41</b> Developing an in-situ DRIFTS Method to Study the Kinetics of Ethylene Polymerization by Metallocene-based Catalysts <i>A.S.M. Falodah - Utrecht University</i>	<b>O42</b> Tuning the textual properties of carbon-based catalysts for enhanced CO2 electrolysis <i>S. Fu - Delft University of Technology</i>

15:10 - 15:25	Coffee break			
	Rotonde	Sorbonne	Boston 17-19	Cambridge 30
	Electrocatalysis	Heterogeneous Catalysis	Biomass	Polymers
15:25 - 15:50	<b>O43</b> Exploring the Electrocatalytic Upgrading of 5-HMF on Nickel Boride Nanocrystals <i>J. Hong – University of Groningen</i>	<b>O44</b> Stability of highly dispersed Pd/CeO2 catalysts under hydrothermal and realistic three-way catalysis conditions <i>V.A.J. Jestl – Eindhoven University of Technology</i>	<b>O45</b> Crystal phase effects on the structure and performance of Ni and Ru nanoparticles for H2-free glycerol conversion to alanine <i>J. Li – University of Groningen</i>	<b>O46</b> Post Polymerisation Modification of Polyethylene by Photochemical Oximation <i>M. Otten – Utrecht University</i>
15:50 - 16:15	<b>O47</b> Self-Supported Ni-based Nanostructures for Anion Exchange Membrane Water Electrolysis <i>A. Ranade – Eindhoven University of Technology</i>	<b>O48</b> Supported Transition Metal Sulfides in Selective High-Pressure Ring-Opening: Mechanistic Studies and Poison Resilience <i>C.G. Gross – Technical University Munich</i>	<b>O49</b> Bifunctional catalysts for C-C cleavage of lignin <i>A. Radu – Eindhoven University of Technology</i>	<b>O50</b> Oxidative Conversion of Polyethylene towards Di-carboxylic Acids with O2/NO <i>T.J. Smak – Utrecht University</i>
16:15 - 16:40	<b>KN4</b> Probing electrode-electrolyte interactions under operando conditions <i>M.C.O. Monteiro – Fritz Haber Institute of the Max Planck Society</i>	<b>O51</b> Selective Epoxidation of ethylene to ethylene oxide: A model for chloride effects over an industrial EO catalyst <i>V.P. Santos – Dow Benelux</i>	<b>O52</b> Walking up the value chain: the development of catalytic and electrochemical pathways to access high-value products from lignin <i>A.A. Castillo Garcia – University of Graz</i>	<b>O53</b> Utilizing Mesoporous Materials to Assess the Catalytic Performance of Polyethylene Pyrolysis <i>J.H. Minkelis – Utrecht University</i>
16:40 - 17:05		<b>O54</b> Effect of CO2 Pretreatment on the CO Oxidation Performance of Pt/Al2O3 Catalysts <i>J. Yan – Utrecht University</i>	<b>O55</b> Cu-Mn Spinel Oxide for Enhanced Solvolysis of Enzymatic Hydrolysis Lignin <i>D.F. de Waard – Eindhoven University of Technology</i>	<b>O56</b> External Acidity as Performance Descriptor for Assessing Catalytic Cracking of Polyolefins over Zeolite-based Materials <i>S. Rejman – Utrecht University</i>
17:05 - 18:30	Poster session B			
18:30	Dinner			
21:00 - 01:00	25th Anniversary party with music from TOF!			
Wednesday: March 6th				
09:00 - 09:45	<b>PL5</b> <i>J. Andexer – University of Freiburg</i> Polyphosphate-driven enzyme cascades for biocatalytic alkylation			
	Rotonde	Sorbonne	Boston 17-19	Cambridge 30
	Homogeneous Catalysis	Materials Chemistry - CO2	CO/CO2 Hydrogenation	Materials Characterisation
09:50	<b>KN5</b> Bismuth Redox	<b>O57</b> Dual Functional	<b>O58</b> Unravelling the	<b>O59</b> On the microstructure

- 10:15	Catalysis <i>J. Cornella – Max-Planck-Institut für Kohlenforschung</i>	Material of Ruthenium and K <sub>2</sub> CO <sub>3</sub> for Direct Air Capture and Conversion of CO <sub>2</sub> <i>F. Karaçoban – Wageningen University and Research Centre</i>	Site-Density Effect of Highly Dispersed Zn in Catalytic CO <sub>2</sub> Hydrogenation to Methanol and Dimethyl Ether <i>X. Yu – Utrecht University</i>	of the electrode-electrolyte interface during oxygen evolution reaction (OER) using operando XAS <i>N. Deka – Leiden University</i>
10:15 - 10:40		<b>O60</b> Effects of deliquescence on DAC performance on carbon supported K <sub>2</sub> CO <sub>3</sub> sorbents with different surface polarity <i>T.G. de Groot – Wageningen University and Research Centre</i>	<b>O61</b> CO and CO <sub>2</sub> hydrogenation to hydrocarbons over promoted phase-pure $\chi$ -Fe <sub>5</sub> C <sub>2</sub> catalysts <i>S.L. Li – Eindhoven University of Technology</i>	<b>O62</b> Ultrafast Carrier Dynamics in LaFeO <sub>3</sub> Perovskite Thin Films <i>M. Lazemi – Utrecht University</i>
10:40 - 10:55	Coffee break			
	<b>Rotonde</b>	<b>Sorbonne</b>	<b>Boston 17-19</b>	<b>Cambridge 30</b>
	Biocatalysis	Heterogeneous Catalysis - CO <sub>2</sub>	Photo- and Electrochemistry	Catalysis for Organic Synthesis
10:55 - 11:20	<b>KN6</b> PET Recycling: from Enzyme and Process Optimization to an Industrial Plant <i>A. Marty – Carbios</i>	<b>O63</b> Tuning Metal-Support Interactions in the CO <sub>2</sub> Hydrogenation over Ni Supported on TiO <sub>2</sub> Polymorphs <i>A.E.M. Melcherts – Utrecht University</i>	<b>O64</b> Enabling Efficient Electrocatalytic Hydrogen Peroxide Production: The Role of Nanoparticle Geometry <i>I.J. van Luijk – Wageningen University and Research Centre</i>	<b>O65</b> Introducing molecular complexity using organolithium cross-coupling chemistry <i>P. Visser – University of Groningen</i>
11:20 - 11:45		<b>O66</b> Selectivity descriptors for light olefins selectivity in tandem CO <sub>2</sub> conversion to olefins over mixed metal oxide – small pore zeolite catalysts <i>A. Sajid – Katholieke Universiteit Leuven</i>	<b>O67</b> Tuning the Active Phase of a CO <sub>2</sub> Hydrogenation Co/TiO <sub>2</sub> Catalyst with UV Light <i>D.N.M. Maaskant – Utrecht University</i>	<b>O68</b> Non-directed C–H Arylation of Electron-rich Arenes via Palladium/S,O-ligand Catalysis <i>K. Deng – University of Amsterdam</i>
11:45 - 12:10	<b>O69</b> Enzymatic cascade towards statins <i>R.K. Kuijpers – Delft University of Technology</i>	<b>O70</b> Efficient CO <sub>2</sub> hydrogenation to methanol by Cu clusters in interaction with single-site Zn in zincosilicate CIT-6 <i>Y. Gao – Eindhoven University of Technology</i>	<b>O71</b> Enhanced metal-support interaction in dewetted Pt nanoparticles for electrochemical hydrogen evolution reaction <i>S. Harsha – University of Twente</i>	<b>O72</b> Highly stereoselective electrochemical semi-hydrogenation of alkynes with nickel complexes <i>S. Verbeek – Leiden University</i>
12:10 - 12:35	<b>O73</b> Discovery of bacterial reductive aminases as versatile biocatalysts to synthesize chiral amines <i>E.P.J. Jongkind – Delft University of Technology</i>	<b>O74</b> A Confined Inverse Zn <sub>2</sub> +/CuO <sub>x</sub> Structure for the Selective CO <sub>2</sub> -CH <sub>3</sub> OH Conversion <i>X. Ye – Utrecht University</i>	<b>O75</b> Magnetic field enhancement of CoFe <sub>2</sub> O <sub>4</sub> spinel for alkaline OER <i>L.B. Donk – Eindhoven University of Technology</i>	<b>O76</b> Dyes as efficient organocatalysts for converting CO <sub>2</sub> and epoxides into cyclic carbonates <i>J. Chen – University of Groningen</i>
12:35 - 13:20	Lunch break			
	<b>Rotonde</b>	<b>Sorbonne</b>	<b>Boston 17-19</b>	<b>Cambridge 30</b>

	Plastic as Feedstock	Materials Characterisation	Polymers	Organometallic Chemistry
13:20 - 13:45	<b>KN7</b> Catalytic processing of the new circular feedstocks <i>L.A. Boot – Ketjen Netherlands BV</i>	<b>O77</b> An In Situ TEM Study of the Influence of Water Vapor on Reduction of Nickel Phyllosilicate – Retarded Growth of Metal Nanoparticles at Higher Rates <i>S.J. Turner – Utrecht University</i>	<b>O78</b> Photocatalytic Degradation of PFOA over Gold and Silver Modified TiO <sub>2</sub> and In <sub>2</sub> O <sub>3</sub> Catalysts <i>G. Scandura – University of Antwerp</i>	<b>O79</b> Decoding the active site in supported organometallic catalysts via autonomous configurational space exploration <i>A.A. Kolganov – Delft University of Technology</i>
13:45 - 14:10		<b>O80</b> Using X-ray spectroscopy to evaluate the electrocatalytic interface between Au and aqueous electrolytes <i>S. Louisia – Leiden University</i>	<b>O81</b> Mechano-catalytic conversion of polyolefins in the ball mill <i>C.L. Seitzinger – Utrecht University</i>	<b>O82</b> Shape selective cross-coupling of arylboronic acids and simple arenes by Pd-zeolite catalysts <i>J.V. Vercammen – Katholieke Universiteit Leuven</i>
14:10 - 14:55	<b>PL6</b> <i>M. Muhler – Max-Planck-Institut</i> Redox Catalysis at Surfaces – from Thermal to Photo-, Electro- and Plasmacatalysis			
14:55 - 15:15	Prizes & Closure			
15:15	Buses to Leiden Central Station			