Bute Hall

10:00 - 10:30	Coffee break
	metal catalysis, and in their sintering
	Thermodynamics and kinetics of elementary reaction steps on late transition
09:00 - 10:00	Plenary lecture: Prof C. Campbell (University of Washington)
08:30 - 09:00	Opening ceremony

Session on Industrial Application – Kelvin Gallery.

10:30 - 10:50	IO1: Professor Zinfer Ismagilov, (Boreskov Institute of Catalysis)
	Selective catalytic oxidation of sulfur organic compounds of hydrocarbon fuels to
	sulfur dioxide over heterogeneous catalysts
10:50 - 11:10	IO2: Mr Colin Dupont, (UPMC, CNRS)
	Tetralin ring opening on supported molybdenum carbide catalysts
11:10 - 11:30	IO3: Dr. Alak Bhattacharyya, (UOP Honeywell)
	Catalytic desulfurization of hot gases from gasification units and refineries
11:30 - 11:50	IO4: Mr Oleg Klimov, (Boreskov Institute of Catalysis)
	Usage of bimetallic complexes for industrial preparation of the supported
	catalysts for deep hydrotreatment
11:50 - 12:10	IO5: Dr Dejin Kong, (SINOPEC)
	Synthesis of ZSM-5/silicalite-1 core-shell catalyst and its application in highly
	selective formation of para-xylene
12:10 - 12:30	IO6: Miss Teresa M. Portilla, (UPV-CSIC)
	A new zeolite with pore diameter between those of 10 and 12 mr zeolites as an
	excellent catalyst for aromatic alkylation
12:30 - 14:00	Lunch break
14:00 - 14:20	IO7: Nuno Batalha (University of Poitiers)
	BEA zeolite germination over a support: improvement of the n-C16
	hydroisomerisation performance
14:20 - 14:40	IO8: Mr Jeremy Francis (IFP Energies nouvelles)
	Beneficial effect of nickel addition on USY zeolite used in hydrocracking
	catalysts
14:40 - 15:00	IO9: Dr. Kai Chung Szeto (CNRS - CPE Lyon)
	Direct transformation from gas to liquid alkanes catalyzed by metal hydride
	supported on silica-alumina
15:00 - 15:20	IO10: Professor Hilde Venvik (Norwegian University of Science and
	Technology)
	Direct synthesis of dimethyl ether in microstructured reactors
15:20 - 15:40	IO11: Mr. Xian-Yang Quek (Eindhoven University of Technology)
	Unprecedented oxygenate selectivity in Fischer-Tropsch synthesis catalyzed by
	Ru nanoparticles
15:40 - 16:10	Tea break
16:10 - 16:30	IO12: Ms Patricia Benito (University of Bologna)
	Development of catalysts for the reforming of the producer gas: the greensyngas
	experience
16:30 - 16:50	IO13: Dr Fábio Noronha (Instituto Nacional de Tecnologia)
	The $LaNiO_3$ perovskite-type oxides for the production of hydrogen through steam
	reforming of ethanol. The effect of the preparation method
16:50 - 17:10	IO14:

Bute Hall

10:00 - 10:30	Coffee break
	metal catalysis, and in their sintering
	Thermodynamics and kinetics of elementary reaction steps on late transition
09:00 - 10:00	Plenary lecture: Prof C. Campbell (University of Washington)
08:30 - 09:00	Opening ceremony

Session on Kinetics and Mechanism – Humanities Lecture Theatre

10:30 - 10:50	KO1: Prof. Simon Podkolzin (Stevens Institute of Technology) Studies of methane aromatization over molybdenum/ZSM-5 catalysts with
	operando molecular spectroscopy and DFT calculations
10:50 - 11:10	KO2: Prof. Claude Mirodatos (IRCELYON-CNRS-Université Lyon)
	Quantitative structure descriptor relationships (QSDR) in heterogeneous
	catalysis: combining formulation and microkinetic modeling in methane
	oxidative coupling catalyst optimization
11:10 - 11:30	KO3: Dr. Raimund Horn, (Fritz Haber Institute)
11.10 11.50	Syngas formation by catalytic partial oxidation of methane on rhodium and
	platinum catalysts: a mechanistic study by spatial reactor profiles, in situ raman
11:30 - 11:50	spectroscopy and microkinetic simulations KOA: Prof. Vladialay Sodykay (Dorockay Institute of Catalysia)
11.30 - 11.30	KO4: Prof. Vladislav Sadykov (Boreskov Institute of Catalysis)
	Mechanism of CH_4 dry reforming on nanocrystalline doped ceria-zirconia with
11 50 10 10	supported Pt, Ru, Ni And Ni–Ru
11:50 - 12:10	KO5: Professor Gianpiero Groppi (Politecnico di Milano)
	Optimization of the thermal behavior of an adiabatic reformer for the catalytic
	partial oxidation of CH_4 at short contact time
12:10 - 12:30	KO6: Davide Ferri (Empa, Swiss Federal Laboratories for Materials Science and
	Technology)
	Activity improvement of $La(Fe,Pd)O_x$ for CH_4 oxidation under periodic red-ox
	conditions
12:30 - 14:00	Lunch break
14:00 - 14:20	KO7: Emiel Hensen (Eindhoven University of Technology)
	Supported rhodium oxide nanoparticles as highly active CO oxidation catalyst
14:20 - 14:40	KO8: Dr. Georges Sitja (Centre Interdisciplinaire de Nanoscience de Marseille)
	Size dependence of CO adsorption energy on regular arrays of palladium
	nanoparticles in the size range 5 to 1200 atoms
14:40 - 15:00	KO9: Dr Wei Yang (Beijing University of Chemical Technology)
	Evolution of the oxygen mobility in iron-based perovskite structures: correlation
	with mixed-oxide activity for low temperature co oxidation
15:00 - 15:40	K Keynote 1: Dr Chuck Peden (Pacific Northwest National Laboratory)
	Excellent Activity and Selectivity of Cu-SSZ-13 in the Selective Catalytic
	Reduction of NOx with NH3
15:40 - 16:10	Tea break
16:10 - 16:30	KO10: Dr Marco Conte (Cardiff University)
	Au/C catalysts for the hydrochlorination of higher alkynes: a study of the
	reaction mechanism
16:30 - 16:50	KO11: Bart Hereijgers (Utrecht University)
	Gold catalyzed aerobic oxidation of cyclohexane: new mechanistic insight by
	thorough product analysis
16:50 - 17:10	KO12: Marie Holz (Ruhr University – Bochum)
	Conversion of CH_3OH over Au/ZnO and Au/TiO_2 under thermal and
	photocatalytic conditions.

Bute Hall

10:00 - 10:30	Coffee break
	metal catalysis, and in their sintering
	Thermodynamics and kinetics of elementary reaction steps on late transition
09:00 - 10:00	Plenary lecture: Prof C. Campbell (University of Washington)
08:30 - 09:00	Opening ceremony

Session on Theory and Modelling – Senate Room

10:30 - 11:10	T Keynote 1: Prof. Dionisios Vlachos (University of Delaware)
	Design of Emergent-Behaving Catalytic Materials
11:10 - 11:30	TO1: Cuong Manh Nguyen (Ghent University)
	Ab initio study of the adsorption of C1-C4 alcohols in H-ZSM-5 zeolite
11:30 - 11:50	TO2: Dr Petr Koci (Institute of Chemical Technology, Prague)
	Integrated multiscale methodology for virtual prototyping of porous catalysts
11:50 - 12:10	TO3: Dr Mercedes Boronat (Instituto Tecnologia Quimica UPV-CSIC)
	Mechanistic differences between methanol and dimethyl ether carbonylation in
	side pockets and large channels of mordenite
12:10 - 12:30	TO4: Pascal Raybaud (IFP Energies Nouvelles)
	DFT study of the hydrodeoxygenation mechanisms over MOS ₂ and NiMOS active
	phases
12:30 - 14:00	Lunch break
14:00 - 14:20	TO5: Dr Pieter Van Helden (Sasol Technology)
	Hydrogen on cobalt surfaces – a DFT and TPD study
14:20 - 14:40	TO6: Pascal Raybaud (IFP Energies Nouvelles)
	H_2 induced reconstruction of supported Pt clusters: metal-support interaction
	versus surface hydride
14:40 - 15:00	TO7: Prof Jean-François Paul (UCCS - Univ. Lille)
	DFT study of the HDO reaction on sulphide catalyst
15:00 - 15:20	TO8: Andreas Heyden (University of South Carolina)
	Multiscale modeling of the water-gas shift reaction at the three phase boundary
	of Pt/Tio ₂ catalysts
15:20 - 15:40	TO9: Dr Françoise Delbecq (Ecole Normale Supérieure de Lyon)
	Mechanism of selective hydrogenation of crotonaldehyde on ceria supported
	platinum particles: a DFT study.
15:40 - 16:10	Tea break
16:10 - 16:30	TO10: Prof Chris Hardacre (Queen's University, Belfast)
	Correction for reversible adsorption over the "inert" material
16:30 - 16:50	TO11: Adriana Trinchero (Chalmers University of Technology)
	A DFT-based kinetic model for methane oxidation over Pd
16:50 - 17:10	TO12: Dr Mercedes Boronat (Instituto Tecnologia Quimica UPV-CSIC)
	Oxidation active sites on gold nanoparticles

Bute Hall

10:00 - 10:30	Coffee break
	metal catalysis, and in their sintering
	Thermodynamics and kinetics of elementary reaction steps on late transition
09:00 - 10:00	Plenary lecture: Prof C. Campbell (University of Washington)
08:30 - 09:00	Opening ceremony

Session on Catalyst Preparation – James Watt South Lecture Theatre

10:30 - 10:50	PO1: Dr Christian Schulze Isfort (Evonik Degussa GmbH)
	Thermal and hydrothermal stability of flame synthesized silica-titania mixed oxides
10:50 - 11:10	PO2: Dr Wolfgang Kleist (Karlsruhe Institute of Technology)
	Design, characterization and applications of catalysts based on metal-organic frameworks
11:10 - 11:30	PO3: Dr Olga Zalomaeva (Boreskov Institute of Catalysis)
	Cyclic carbonate synthesis from epoxides and CO_2 over metal organic framework Cr-mil-101
11:30 - 12:10	P Keynote 1: Dr Shin Mukai (Hokkaido University)
	Synthesis Of A Tubular Radial Flow Module Equipped With A Hierarchical Pore System
12:10 - 12:30	PO4: Prof Christopher Jones (Georgia Institute of Technology)
	Silica-supported poly(styrene sulfonic acid) brush materials and their application in ethyl lactate hydrolysis
12:30 - 14:00	Lunch break
14:00 - 14:40	P Keynote 2: Prof. Shi-Gang Sun (Xiamen University) Metal nanocrystals of high surface energy and high catalytic activity
14:40 - 15:00	PO5: Prof Edman Tsang (University of Oxford)
11.10 15.00	Studies of nanaocatalysts for cleaner energy provisons
15:00 - 15:20	PO6: Keita Taniya (Kobe University)
10.00 10.20	Selective hydrogenation of cinnamaldehyde over silica coated tin-platinum
15.20 15.40	nanoparticle catalysts
15:20 - 15:40	PO7: Prof Weixin Huang (University of Science and Technology of China) In-situ formation of catalytically active sites via the shape-controlled surface
	restructuring of oxide nanocrystals
15:40 - 16:10	Tea break
16:10 - 16:30	PO8: Dr Sergei Vereshchagin (Institute of Chemistry and Chemical Technology SB RAS)
	<i>Ferric oxide based microspheres as catalyst for OCM process – a new approach to catalyst design</i>
16:30 - 16:50	PO9: Eng. Susana Lopes Silva (ENS Lyon/IFPEN Lyon)
	Polyoxometalates encapsulation at mesoporous materials: application in ultra
16:50 - 17:10	low sulfur diesel production PO10: Martin Høj (Technical University of Denmark)
10.30 - 17.10	$CoMo/Al_2O_3$ hydrotreating catalysts prepared by flame synthesis
	Compositive of the contract of

Bute Hall

10:00 - 10:30	Coffee break
	metal catalysis, and in their sintering
	Thermodynamics and kinetics of elementary reaction steps on late transition
09:00 - 10:00	Plenary lecture: Prof C. Campbell (University of Washington)
08:30 - 09:00	Opening ceremony

10:30 - 11:10	C Keynote 1: Prof Bert Weckhuysen (Debye Institute for NanoMaterials Science)
	Closing The Operando Gap: The Application Of High Energy Photons For Studying Catalytic Solids At Work
11:10 - 11:30	CO1: Karin Föttinger (TU Vienna)
	In situ x-ray and vibrational spectroscopic studies on Pd/ZnO and Pd/Ga ₂ O ₃ methanol steam reforming catalysts
11:30 - 11:50	CO2: Ms Diana Angarita Arias (Universitat Rovira i Virgili)
	Characterization of Mg-Al-hydrotalcites catalysts modified with phosphoric acid used for synthesis of dimethyl carbonate from methanol and carbon dioxide
11:50 - 12:10	CO3: Christian Weilach (Vienna University of Technology)
	Formation and catalytic properties of PdZn/Pd(111) surface alloys
12:10 - 12:30	CO4: Prof. Jose M. Lopez Nieto (Instituto Tecnologia Quimica)
	Oxidative dehydrogenation of ethane over NiO-CeO ₂ mixed oxides catalysts. The promoter effect of cerium oxide
12:30 - 14:00	Lunch break
14:00 - 14:20	CO5: Dr. Katrin F. Domke (FOM Institute AMOLF)
	Glycol etherification on H-beta zeolites followed in 3D with nonlinear
	spectromicroscopy
14:20 - 14:40	CO6: Sylvia Reiche (Fritz-Haber-Institute)
	Acidified carbon catalysts for liquid phase reactions in biomass conversion
	chemistry
14:40 - 15:00	CO7: Carsten Sievers (Georgia Institute of Technology)
	Stabilization of alumina supported catalysts for aqueous phase conversion of biomass
15:00 - 15:20	CO8: Prof. Antonella Gervasini (Università degli Studi di Milano)
	Intrinsic and effective acidity of K^+ , Ba^{2+} , and Nd^{3+} added to Nb_2O_5 related to stability in biomass reactions
15:20 - 15:40	CO9: Kiyotaka Nakajima (Materials and Structures Laboratory)
15.20 - 15.40	HMF production from glucose aqueous solution over water-tolerant
	heterogeneous Lewis acid catalyst
15:40 - 16:10	Tea break
16:10 - 16:30	CO10: Dr. Petr Sazama (J. Heyrovsky Institute of Physical Chemistry of the
10.10 - 10.50	ASCR)
	Analysis of Si- and Al- related defect sites in micro- and micro-mesoporous high-
	silica zeolites. Effect on selectivity and durability in MTH
16:30 - 16:50	CO11: Prof. Yasushige Kuroda (Okayama University)
	On the peculiar adsorption and activation behaviours of molecular hydrogen on
16.50 17:10	copper-ion-exchanged MFI-type zeolite
16:50 - 17:10	CO12: Miss Nidhi Gupta (The Energy and Resources Institute)
	Application of red mud for catalytic hydrocarbon cracking and characterisation
	of the nature of the resultant carbon deposits

	Bute Hall
09:00 - 10:00	Plenary lecture: Prof Manfred Reetz (Max-Planck-Institut für Kohlenforschung, Mülheim)
	Tuning Monooxygenases by Genetic and Chemical Means
10:00 - 10:30	Coffee break

Session on Industrial Application – Kelvin Gallery

10:30 - 11:10	I Keynote 1: Dr Joseph Kocal (UOP) Conversion of 2nd Generation Renewable Feedstocks to Fungible Liquid
	Transportation Fuels
11:10 - 11:30	IO15: Prof. Aline Auroux (IRCELYON-CNRS)
	Development of catalysts for production of fatty nitriles at low temperature
11:30 - 11:50	IO16: Dr Catia Cannilla (CNR-ITAE)
	Transesterification of vegetable oils on Mn-based catalysts for biodiesel
	production: correlation between surface and textural properties
11:50 - 12:10	IO17: Hidetoshi Ohta (Catalysis Research Center, Hokkaido University)
	Aqueous-phase hydrodeoxygenation of phenols under acid-free conditions with
	bifunctional carbon-supported Pt catalysts
12:10 - 12:30	IO18: Dr Juan Manuel Coronado (IMDEA Energy)
	<i>Ni</i> ₂ <i>P/SBA-15</i> : a new type of nonsulfide hydrotreating catalyst for green diesel
	production
12:30 - 14:00	Lunch break
14:00 - 14:20	IO19: Chuan Wang (Institute of Chemical and Engineering Sciences)
	Mild condition hydrogenation of furfural on Pt/MWNT catalysts - stabilization of
	furfural in bio oil upgrading
14:20 - 14:40	IO20: Dr Eleni Iliopoulou (CPERI/CERTH)
	Catalytic upgrading of biomass pyrolysis vapours using transition metal-
	modified ZSM-5 zeolite
14:40 - 15:00	IO21: Prof Dmitry Murzin (Åbo Akademi University)
	Aqueous phase reforming of biomass feedstocks as an approach to hydrogen
	production
15:00 - 15:20	IO22: Samuel Blass (Department of Chemical Engineering and Materials
	Science, University of Minnesota)
	Biomass upgrading in millisecond autothermal staged reactors
15:20 - 15:40	IO23: Kameh Tajvidi (Max-Planck-Institut für Kohlenforschung)
	Efficient utilization of cellulose and wood via hydrolytic hydrogenation
15:40 - 16:10	Tea break
16:10 - 16:30	IO24: Prof Ye Wang (Xiamen University)
	Polyoxometalate-supported Ru nanoparticles for conversions of cellobiose and
	cellulose into sorbitol in hydrogen in water
16:30 - 16:50	IO25: Marcelo D Kaufman-Rechulski (Paul Scherrer Institut)
	Supported ruthenium catalyst for cleaning biomass producer gas at elevated
	temperatures
16:50 - 17:10	IO26: Oihane Sanz (University of Basque Country)
	Metallic monoliths for nitrates reduction in water

	Bute Hall
09:00 - 10:00	Plenary lecture: Prof Manfred Reetz (Max-Planck-Institut für Kohlenforschung, Mülheim)
10:00 - 10:30	Tuning Monooxygenases by Genetic and Chemical Means Coffee break
Session on Kinetic	es and Mechanism – Humanities Lecture Theatre
10:30 - 10:50	KO13: Dr AlexeyFedotov (A.V.Topchiev Institute of Petrochemical Synthesis) Mechanistic aspects of high-rate biofermentation products conversion into hydrogen containing gas using porous membrane- catalytic systems
10:50 - 11:10	KO14: Oliver Korup (Fritz Haber Institute of the Max Planck Society) Autothermal catalytic partial oxidation (CPO) of methane on platinum investigated by high resolution spatial reactor profiles
11:10 - 11:30	KO15: Mrs Ewelina Leino (Abo Akademi University) Kinetics of the synthesis of diethyl carbonate starting from CO ₂ and ethanol over heterogeneous catalysts
11:30 - 11:50	KO16: Dr Ursula Bentrup (Leibniz -Institute for Catalysis at the University of Rostock) Mechanistic investigations of the oxidative carbonylation of methanol to dimethyl
11:50 - 12:10	carbonate over CuY zeolite: an operando drifts/uv-vis-drs/ms study KO17: Dr Olga Ovsitser (Leibniz -Institute for Catalysis at the University of Rostock) Selective dehydrogenation of propane and iso-butane over well-defined
12:10 - 12:30	VO_x/SiO_2 -Ti O_2 catalysts KO18: De Chen (Norwegian University of Science and Technology) Selective C-H and C-C bond activation of propane on platinum nanoparticles with different sizes and shapes
12:30 - 14:00	Lunch break
14:00 - 14:20	KO19: Prof Alfons Drochner (Technische Universität Darmstadt) Isotopic studies on Mo/V/W-mixed oxide catalysts during the selective oxidation of acrolein
14:20 - 14:40	KO20: Dr Sonia Carre (Université de Lille) Comparative kinetic and ir spectroscopic measurements on Rh-based ngv catalyst: toward an integrated approach
14:40 - 15:00	KO21: Amol Amrute (ETH Zurich) Mechanism-performance relationships of metal oxides in catalyzed HCl oxidation
15:00 - 15:40	K Keynote 2: Prof Javier Pérez-Ramírez (ETH Zurich) Transient Mechanistic Studies In Heterogeneous Catalysis: Recent Success Stories
15:40 - 16:10	Tea break
16:10 - 16:50	K Keynote 3: Dr Mathias Laurin (Friedrich-Alexander-Universität Erlangen- Nürnberg)
16:50 - 17:10	Ionic Liquid Based Model Catalysts KO22: Prof Jorg Libuda (University Erlangen-Nuremberg) Spillover processes at the microscopic level

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	Bute Hall
09:00 - 10:00	Plenary lecture: Prof Manfred Reetz (Max-Planck-Institut für Kohlenforschung,
	Mülheim)
	Tuning Monooxygenases by Genetic and Chemical Means

10:00 – 10:30 Coffee break

Session on Homogeneous Catalysis – Senate Room

H Keynote 1: Dr Mizuki Tada (University of Tokyo) Design Of Molecularly Imprinted Metal-Complex Catalysts For Selective Catalysis
HO1: Dr EvgenyPidko (Eindhoven University of Technology)
Molecular aspects of ionic liquid-mediated glucose dehydration by metal chlorides
HO2: Dr Christophe Michon (CNRS - UCCS UMR 8181 - Univ. Lille 1)
Hydroamination of unactivated alkenes catalysed by a combination of copper
and silver salts: the unveiling of a bronstedt acid catalysis
HO3: Prof Christopher Jones (Georgia Institute of Technology)
<i>Highly regioselective ring-opening of terminal epoxides with Co(III)- porphyrin, salen and salphen catalysts</i>
HO4: Dr Ralf Jackstell (Leibniz Institut für Katalyse an der Universität Rostock) A general and efficient iridium-catalyzed hydroformylation of olefins
Lunch break

Session on Environmental Catalysis – Senate Room

14:00 - 14:40	E Keynote 1: Xavier Auvray (Chalmers University of Technology) Spatiotemporal Analysis Of SCR Reactions In Zeolite SCR Catalysts
14:40 - 15:00	EO1: Eleonora Aneggi (Fisica e Ambiente, Università di Udine)
15:00 - 15:20	<i>Evidence of a redox route mechanism in soot oxidation over ceria</i> EO2: Benat Pereda-Ayo (University of the Basque Country)
10.00 10.20	Studies on nitrogen formation pathways during the regeneration of NO_x storage and reduction catalysts assisted by isotope labelling techniques
15:20 - 15:40	EO3: Dr Petr Koci (Institute of Chemical Technology, Prague)
	Modelling of N_2O formation during the regeneration of NO_x storage catalyst
15:40 - 16:10	Tea break.
16:10 - 16:30	EO4: Andrew Beale (Utrecht University)
	Isolated Cu^{2+} : active sites for selective catalytic reduction of NO
16:30 - 16:50	EO5: Alexandre Baylet (Université de Lyon)
	Sulphated TiO ₂ for selective catalytic reduction of NO _x by decane
16:50 - 17:10	EO6: Luis J. Alemany (University of Malaga)
	Nanofibrous Pt-Ba lean NO_x catalyst with improved sulfur resistance and
	thermal durability

	Bute Hall
09:00 - 10:00	Plenary lecture: Prof Manfred Reetz (Max-Planck-Institut für Kohlenforschung, Mülheim)
	Tuning Monooxygenases by Genetic and Chemical Means
	Tuning including charges by Concile and Chemical Incluis

10:00 – 10:30 Coffee break

10:30 - 10:50	CO13: Prof Wolfgang Grünert (Ruhr University Bochum)
	New facets of a proven catalyst system: the response of V_2O_5 -WO ₃ /TiO ₂ deNO _x
	catalysts to thermal stress and what it tells about the V-W interaction
10:50 - 11:10	CO14: Dr William Partridge (Oak Ridge National Laboratory)
	Axial redistribution of NO_x storage and resulting impact on lean NO_x trap
	performance under fast lean/rich cycling conditions
11:10 - 11:30	CO15: Prof Emrah Ozensoy (Bilkent University)
	NO_x uptake and storage properties of $BaO_x/Pt(111)$ model catalyst: influence of
	Ba coverage, surface morphology and stoichiometry
11:30 - 11:50	CO16: Andrzej Kotarba (Jagiellonian University)
	Assignment of active sites in cobalt spinel catalyst for low temperature N_2O
	decomposition
11:50 - 12:10	CO17: Mr Naresh Muddada (University of Oslo)
	Influence of dopants on oxychlorination catalyst: an insight through combined
	spectroscopy and kinetic tests
12:10 - 12:30	CO18: Dr Elena Golubina (M.V.Lomonosov Moscow State University)
	The role of support in formation and stabilization of catalytically active metal
	nanoparticles for hydrodechlorination
12:30 - 14:00	Lunch break
14:00 - 14:40	C Keynote 2: Prof Jan-Dierk Grunwaldt, (Karlsruhe Institute of Technology)
	Probing Catalysts In Action: Time And Spatially Resolved Information Using X-
	Ray Absorption Spectroscopy
14:40 - 15:00	CO19: Patricia Benito (University Of Bologna)
	X-ray absorption and XRD/XRF tomography at micro and nanoscale for the
	characterization of structured catalysts
15:00 - 15:20	CO20: Matthias Bauer (Karlsruhe Institute of Technology)
	Synchrotron radiation and catalysis: new insights into structure and electronic
	details by exotic but powerful methods
15:20 - 15:40	CO21: Christiane Kartusch (ETH Zurich)
	In situ determination of the oxidation state of gold supported on ceria in the
	liquid phase hydrogenation of nitrobenzene
15:40 - 16:10	Tea break
16:10 - 16:30	CO22: Prof Michael Claeys (University of Cape Town)
	Study on formation and stability of cobalt carbide in the Fischer-Tropsch
	synthesis using an in-situ magnetometer
16:30 - 16:50	CO23: Prof Dragomir Bukur (Texas A&M University at Qatar)
	Fischer-Tropsch synthesis on Co/Al_2O_3 catalyst – effect of reductant type
16:50 - 17:10	CO24: Laure Braconnier (IFP Energies nouvelles)
	Orientation of the crystalline phase during cobalt catalysts activation followed
	by operando XRD and DRIFTS

	Bute Hall
09:00 - 10:00	Plenary lecture: Prof Manfred Reetz (Max-Planck-Institut für Kohlenforschung, Mülheim)
	Tuning Monooxygenases by Genetic and Chemical Means
10:00 - 10:30	Coffee break
Session on Catalys	t Preparation – James Watt South Lecture Theatre
10:30 - 10:50	PO11: DrIng. Ralph Kraehnert (Technical University of Berlin) Mesoporous IrO ₂ films templated by peo-b-pb-b-peo block-copolymers: self- assembly, crystallization behaviour and electro-catalytic OER performance
10:50 - 11:10	PO12: Dr Xiaowei Chen (University of Cadiz) Synthesis of ceria-praseodymia nanotubes with high catalytic activity for CO oxidation
11:10 - 11:30	PO13: Annelies Peeters (K.U. Leuven) Lewis acid double metal cyanide catalysts for hydroamination
11:30 - 11:50	PO14: Dr Sergei Vereshchagin (Institute of Chemistry and Chemical Technology SB RAS) Ferric oxide based microspheres as catalyst for OCM process – a new approach
11:50 - 12:10	to catalyst design PO15: Dr Jonathan Bartley (Cardiff University) Synthesis of high surface area CuMnO _x catalysts by supercritical antisolvent
12:10 - 12:30	precipitation PO16: Zhili Dong (Nanyang Technological University) Facile synthesis of hierarchical titanate catalysts by electrochemical spark discharge spallation
12:30 - 14:00	Lunch break
14:00 - 14:20	PO17: Mr James Charles Pritchard (Cardiff University) Direct synthesis of hydrogen peroxide using Au-Pd/C catalysts prepared by sol- immobilization
14:20 - 14:40	PO18: Mr Kevin Guillois (IRCELYON) Design of a silica-supported gold catalyst for the aerobic epoxidation of trans- stilbene in methylcyclohexane
14:40 - 15:00	PO19: Dr Krisztina Frey (Institute of Isotopes, Hungary) SiO ₂ supported Ag-Au alloy nanoparticles with high catalytic activity in different reactions
15:00 - 15:20	PO20: Dr. Jennifer. K. Edwards (Cardiff University) Effect of the reaction conditions on the performance of Au-Pd/C catalysts for the direct synthesis of hydrogen peroxide
15:20 - 15:40	PO21: Dr Wenjie Shen (Dalian Institute of Chemical Physics) Stabilized gold particles on ceria nanorods for WGS reaction
15:40 - 16:10	Tea break
16:10 - 16:30	PO22: Shanshan Wang (Max-Planck-Institut für Kohlenforschung)
16.20 16.50	Highly active supported copper nanoparticles in methanol synthesis
16:30 - 16:50	PO23: Ying Guo (Humboldt-Universität zu Berlin)
16:50 - 17:10	Sol-gel synthesis and characterization of nanoscopic transition metal fluorides PO24: Kazuhiko Maeda (University of Tokyo) Improvement of photocatalytic activity of tantalum oxynitride for hydrogen evolution from water under visible light by introducing zirconia nanoparticles

Bute Hall

09:00 - 10:00	Plenary lecture: Prof. Rutger van Santen (University of Eindhoven, FG lecturer)
	Structure sensitivity and insensitivity in heterogeneous catalysis
10:00 - 10:30	Coffee break

Session on Catalyst Preparation – James Watt South Lecture Theatre

10:30 - 11:10	P: Keynote 3: Prof Eric Marceau (UMR7197 CNRS – UPMC) In Situ Study Of The Impact Of Sorbitol Addition And Ruthenium Promotion On
	The Structure And Performance Of SiO ₂ -Supported Cobalt Catalysts For
11:10 - 11:30	<i>Fischer-Tropsch Synthesis</i> PO25: Hirsa Torres Galvis (Utrecht University)
	Stable iron catalysts for the selective production of lower olefins from synthesis
	gas
11:30 - 11:50	PO26: Karolina Rohan (Unité de Catalyse et de Chimie de Solide)
	New heteropolyanionic niobium-tungsten based precursors for fluid catalytic
	cracking and hydrocracking pre-treatment catalysts
11:50 - 12:10	PO27: José Antonio Díaz (Universidad de Castilla - la Mancha)
	Gas-phase hydrogenation of 2-tert-butylphenol using Ni catalysts supported on carbonaceous materials
12:10 - 12:30	PO28: Professor Youzhu Yuan (Xiamen University)
	High activity and selectivity of carbon nanotube supported Ag catalysts for
	hydrogenation of dimethyl oxalate
12:30 - 14:00	Lunch break

Bute Hall

09:00 - 10:00	Plenary lecture: Prof. Rutger van Santen (University of Eindhoven, FG lecturer)
	Structure sensitivity and insensitivity in heterogeneous catalysis
10:00 - 10:30	Coffee break

10:30 - 10:50	CO25: Kazuhiko Amakawa (Fritz-Haber-Institut der Max-Planck-Gesellschaft) Insight into the active site of molybdenum oxide supported on SBA-15 in propene metathesis
10:50 - 11:10	CO26: Andreas Haghofer (Vienna University of Technology)
	Pd/Ga_2O_3 methanol steam reforming catalysts: an in situ x-ray absorption study
11:10 - 11:50	C:Keynote 2: Davide Ferri (Empa, Swiss Federal Laboratories for Materials
	Science and Technology)
	Making EXAFS Surface Sensitive? A Concentration Modulation Study Of CO-
	NO On Rh/Al ₂ O ₃ And Pd/Al ₂ O ₃
11:50 - 12:10	CO27: Dr.Michael Haevecker (Helmholtz-Zentrum Berlin / BESSY II)
	Surface evolution of a phase-pure M1 MoVTeNb oxide catalyst under selective propane oxidation conditions
12:10 - 12:30	CO28: Mrs Dorothee Laurenti (CNRS)
	Clean preparation method for a proper evaluation of the support effect for CoMo
	and NiMo catalysts
12:30 - 14:00	Lunch break

Bute Hall

09:00 - 10:00	Plenary lecture: Prof. Rutger van Santen (University of Eindhoven, FG lecturer)
	Structure sensitivity and insensitivity in heterogeneous catalysis
10:00 - 10:30	Coffee break

Session on Kinetics and Mechanism – Humanities Lecture Theatre

10:30 - 11:10	K Keynote 4: Prof. Xinhe Bao (Dalian Institute of Chemical Physics)
11:10 - 11:30	Catalytic Chemistry of the Nano-confined Systems KO23 Prof. Toshihiro Miyao (University of Yamanashi)
	Effect of various additives on selective CO methanation over Ru-doped Ni-Al oxide catalyst
11:30 - 11:50	KO24: Xenophon Verykios (University of Patras)
	Mechanistic aspects of the selective methanation of CO over Ru/TiO_2 catalyst
11:50 - 12:10	KO25: Barbara Graf (Laboratory of Industrial Chemistry,
	Ruhr-University Bochum)
	The coupling of transient kinetic measurements with adsorption calorimetry for
	the investigation of CO adsorption and methane formation on iron catalysts applied in Fischer-Tropsch synthesis
12:10 - 12:30	KO26: Anders Holmen (Norwegian University of Science and Technology)
	A study of chain propagation and termination on a 20% cobalt supported on
	carbon nanotube (CNT) Fischer-Tropsch catalyst
12:30 - 14:00	Lunch break

Bute Hall

09:00 - 10:00	Plenary lecture: Prof. Rutger van Santen (University of Eindhoven, FG lecturer)
	Structure sensitivity and insensitivity in heterogeneous catalysis
10:00 - 10:30	Coffee break

Session on Catalyst Deactivation – Senate Room

10:30 - 10:50	DO1: Dr. Ard Koeken (Utrecht University)
	Carbon deposition during iron catalyzed Fischer-Tropsch synthesis studied with
	a tapered element oscillating microbalance
10:50 - 11:10	DO2: Majid Sadeqzadeh (Ecole Centrale de Lille)
	Sintering of cobalt-based catalysts in a fixed bed Fischer-Tropsch reactor:
	mechanism and modelling
11:10 - 11:30	DO3: Cathrin Welker-Nieuwoudt (Sasol Technology)
	The impact of cobalt aluminate formation on the deactivation of cobalt-based
	Fischer-Tropsch synthesis catalysts
11:30 - 11:50	DO4: Dr. Ludovic Pinard (Université de Poitiers)
	Identification of carbonaceous compounds resistant at the "rejuvenation
	treatment" of a spent cobalt-based Fischer-Tropsch synthesis catalyst.
11:50 - 12:30	D Keynote 1: Dr. Andrei Khodakov (UCCS, UMR8181 CNRS)
	Different cobalt species in working alumina supported catalysts and their role in
	Fischer-Tropsch synthesis
12:30 - 14:00	Lunch break

Bute Hall

09:00 - 10:00	Plenary lecture: Prof. Rutger van Santen (University of Eindhoven, FG lecturer)
	Structure sensitivity and insensitivity in heterogeneous catalysis
10:00 - 10:30	Coffee break

Session on Industrial Application – Kelvin Gallery

10:30 - 10.50	IO27: Prof Rasmus Fehrmann (Technical University of Denmark)
10.50 11.10	Novel deNOx catalysts for biomass fired units
10:50 - 11:10	IO28: Prof. Isabella Nova, (LCCP, dip. Energia, Politecnico di Milano) A fundamental study of the enhanced SCR reaction over a V_2O_5 - WO_3/TiO_2 catalyst for stationary applications
11:10 - 11:30	IO29: Prof Alessandro Trovarelli (University of Udine)
	NH_3 SCR catalysts based on mixed FeEr vanadates
11:30 - 11:50	IO30: Masaoki Iwasaki (Toyota Central R&D Labs., Inc.)
	Fe/zeolite catalysts for NO reduction by NH_3 : quantification of active sites and enhancement of hydrothermal stability
11:50 - 12:10	IO31: Dmitry Doronkin (Technical University of Denmark, CINF)
	Combining Ag/Al_2O_3 and Fe-BEA to obtain active and stable catalyst for H_2 -assisted NOx SCR by NH ₃
12:10 - 12:30	IO32: Dr.Antonio Eduardo Palomares (Instituto Tecnologia Quimica (UPV-
	CSIC))
	TNU9, a new active zeolite for the NOx selective catalytic reduction
12:30 - 14:00	Lunch break

Bute Hall

09:00 - 10:00	Plenary lecture: Prof. Istvan Horvath (City University of Hong Kong)
	Heterogenization of Homogeneous Catalytic Systems
10:00 - 10:30	Coffee break

Session on Industrial Application – Kelvin Gallery

10:30 - 11.10	I: Keynote 2: Prof. Erik Fridell (IVL Swedish Environmental Research Institute)
	Shipping - emissions, regulations and aftertreatment
11:10 - 11:30	IO33: Shailesh S Sable (Universitat Rovira i Virgili)
	Clofibric acid degradation by ozonation using hydrotalcite-like catalysts
11:30 - 11:50	IO34: Lucio Ronchin (University Ca' Foscari of Venice)
	Hydrogenation of nitrobenzene to 4-aminophenol in a fully reusable solvent
	system, by using Pt, Rh, Pd supported on carbon-CF ₃ COOH catalytic system
11:50 - 12:10	IO35: Lioubov Kiwi-Minsker (Ecole Polytechnique Fédérale de Lausanne)
	Gold-promoted chemoselective production of aromatic amines over molybdenum
	nitride in both gas and liquid phase
12:10 - 12:30	IO36: Silvia Morales-delaRosa (Instituto de Catálisis y Petroleoquímica, CSIC)
	Catalytic epoxidation of cyclohexene with tertbutyl hydroperoxide using
	molybdenum heterogeneous catalysts
12:30 - 14:00	Lunch break

 Bute Hall

 14:00 – 15:00
 Plenary lecture: Prof. James A. Dumesic (University of Wisconsin – Madison) Routes for Production of Liquid Transportation Fuels by Liquid-phase Catalytic Processing

Session on Industrial Application – Kelvin Gallery

15:40	Tea break
	Alkylation of amines by alcohols in a continuous flow reactor
15:20 – 15:40	IO38: Dr Mimi Hii (Imperial College)
	channel reactors
	A simple and highly active palladium chloride based catalyst for glass micro
15:00 - 15:20	IO37: Clemens Horn (Corning European Technology Center)

Bute Hall

09:00 - 10:00	Plenary lecture: Prof. Istvan Horvath (City University of Hong Kong)
	Heterogenization of Homogeneous Catalytic Systems
10:00 - 10:30	Coffee break

Session on Kinetics and Mechanism – Humanities Lecture Theatre

10:30 - 10.50	KO27: Shuichi Koso (Tohoku University) Mechanism of the hydrogenolysis of ethers over silica-supported rhodium catalyst modified with rhenium oxide
10:50 - 11:10	KO28: Prof Chris Hardacre (Queen's University, Belfast) Highly selective and efficient titania supported Pt and Pt-Re catalysts for liquid phase hydrogenation of carboxylic acids and amides at low temperatures and
11:10 - 11:30	pressures KO29: Agnieszka Soltysek (Silesian University of Technology)
11:30 - 11:50	Activity investigations of oxysalts prepared from nitrate and oxide KO30: Willinton Yesid Hernández Enciso (Université Claude Bernard Lyon 1 / IRCELYON)
	Electrochemical Pt-Ba/YSZ catalyst for NOx storage-reduction
11:50 - 12:10	KO31: Peter Hausoul (Utrecht University)
	Pd-catalysed telomerization of 1,3-butadiene with biomass-based alcohols: substrate screening, mechanism and heterogenization.
12:10 - 12:30	KO32: Tobias Hamerla (Technical University Berlin)
	Rhodium catalyzed hydroformylation of 1-dodecene in microemulsions
12:30 - 14:00	Lunch break

Bute Hall

14:00 – 15:00Plenary lecture: Prof. James A. Dumesic (University of Wisconsin – Madison)
Routes for Production of Liquid Transportation Fuels by Liquid-phase Catalytic
Processing

Session on Kinetics and Mechanism – Humanities Lecture Theatre

15:40	Tea break
	the presence of a novel heterogeneous chiral dimer Cr(III)-salen complex
	The epoxidation/epoxide ring-opening reaction of trans-methylcinnamate ester in
15:20 - 15:40	KO34: Prof Vasile Parvulescu (University of Bucharest)
	hydrogenation of ketones? A DFT study
	Iron diphosphine diamine complexes as alternative catalysts for asymmetric
15:00 - 15:20	KO33: Dr. Devis Di Tommaso (University College)

Bute Hall

09:00 - 10:00	Plenary lecture: Prof. Istvan Horvath (City University of Hong Kong)
	Heterogenization of Homogeneous Catalytic Systems
10:00 - 10:30	Coffee break

Session on Catalyst Deactivation – Senate Room

10:30 - 11:10	D: Keynote 2: Dr Stewart Parker (STFC ISIS Facility)
	Carbon Lay Down From Dry Reforming Of Methane Over Ni/Alumina Catalysts
	– What Is It And Where Does It Come From?
11:10 - 11:30	DO5: Jesper Sattler (University of Utrecht)
	Combined in situ time-resolved UV-vis, Raman and x-ray absorption
	spectroscopy study during deactivation of Pt and PtSn propane dehydrogenation
	catalysts
11:30 - 11:50	DO6: Dr James McGregor (University of Cambridge)
	Characterisation of coke deposits using terahertz time-domain spectroscopy
11:50 - 12:10	DO7: Laurent Sauvanaud (Instituto De Tecnología Química)
	Dealing with high coke yields from extra-heavy feeds: removal of coke through
	steam reforming in FCC
12:10 - 12:30	DO8: Dr Benjamin Katryniok (Ecole Centrale de Lille)
	Heteropoly acid catalysts with increased long-term performance in the
	dehydration of glycerol
12:30 - 14:00	Lunch break
	Bute Hall

14:00 – 15:00Plenary lecture: Prof. James A. Dumesic (University of Wisconsin – Madison)
Routes for Production of Liquid Transportation Fuels by Liquid-phase Catalytic
Processing

Session on Catalyst Deactivation – Senate Room

15:40	Tea break
	hydrotreating catalysts
	Atomic-scale insight into the origin of pyridine inhibition of MoS_2 -based
15:20 - 15:40	DO10: Dr Burcin Temel (Haldor Topsoe A/S)
	hydrodesulfurization catalysts
	New efficient maleic acid additive for the activation of regenerated $CoMo/Al_2O_3$
15:00 - 15:20	DO9: Dr Gilles Berhault (IRCELYON)

Bute Hall

09:00 - 10:00	Plenary lecture: Prof. Istvan Horvath (City University of Hong Kong)
	Heterogenization of Homogeneous Catalytic Systems
10:00 - 10:30	Coffee break

Session on Catalyst Preparation – James Watt South Lecture Theatre

	Bute Hall
12:30 - 14:00	Lunch break
	FTIR study of CO hydrogenation on Co/SiO ₂ and CuCo/SiO ₂
12:10 - 12:30	PO34: Miranda Smith (Louisiana State University)
	catalyst preparation
11.00 12.10	(Cryo-)electron tomography to visualise fundamental processes of supported
11:50 - 12:10	oxidation PO33: Tamara Eggenhuisen (Utrecht University)
	Cu complex on SBA-15: application in the liquid-gas phase cycloalkane O_2
	Synthesis, x-ray structural characterization and immobilization of scorpionate
11:30 - 11:50	PO32: Prof Gopal Mishra (University of Trás-os Montes and Alto Douro)
	asymmetric aldol reaction
	Nanohybrid materials based on l-proline and hydrotalcites as catalysts for direct
11:10 - 11:30	PO31: Dr Anna M Segarra (University Rovira i Virgili)
	and catalysis
10:50 - 11:10	PO30: David Xuereb (University of Southampton) Strategies for organocatalyst heterogenization: effects on active site environment
10.50 11.10	Heterogenisation of Mn salen complexes for epoxidation
10:30 - 10.50	PO29: Mr Alan McCue (University of Aberdeen)
10.00 10.50	

14:00 – 15:00Plenary lecture: Prof. James A. Dumesic (University of Wisconsin – Madison)
Routes for Production of Liquid Transportation Fuels by Liquid-phase Catalytic
Processing

Session on Catalyst Preparation – James Watt South Lecture Theatre

15:40	Tea break
	Nano sized alkaline earth metal oxide on carbon nanofibers as solid base catalysts: influence of base strength on the catalytic properties
15:20 - 15:40	PO36: Dr Anne Mette Frey (Utrecht University)
	supporting on non-microporous carbons
	Enhancement of the basic properties of magnesium-zirconium oxides by
15:00 - 15:20	PO35: Salvador Ordonez (University of Oviedo)

Bute Hall

09:00 - 10:00	Plenary lecture: Prof. Istvan Horvath (City University of Hong Kong)
	Heterogenization of Homogeneous Catalytic Systems
10:00 - 10:30	Coffee break

Session on Catalyst Characterisation – Bute Hall

10:30 - 10.50	CO29: Dr Malte Behrens (Fritz-Haber-Institut, Berlin)
	<i>Defect analysis of high performance catalysts. What makes Cu active in methanol synthesis?</i>
10:50 - 11:10	CO30: Timur Kandemir (Fritz-Haber-Institut, Berlin)
	In-situ neutron diffraction under high pressure - providing an insight into a
	working catalyst
11:10 - 11:30	CO31: Tegan Roberts (University of Cambridge)
	Probing surface interactions with magnetic resonance
11:30 - 12:10	C Keynote 3: Dr Detre Teschner (Fritz-Haber-Institut, Berlin)
	Application of Prompt Gamma Activation Analysis in catalytic research
12:10 - 12:30	CO32: Dr Margarita Kantcheva (Bilkent University)
	Gold supported on ceria doped by Al(III) and Sm(III) as catalyst for water gas
	shift reaction
12:30 - 14:00	Lunch break

 Bute Hall

 14:00 – 15:00
 Plenary lecture: Prof. James A. Dumesic (University of Wisconsin – Madison) Routes for Production of Liquid Transportation Fuels by Liquid-phase Catalytic Processing

15:40	Tea break
	properties at a gas-solid interface
	Solid acid catalysts based on $H_3PW_{12}O_{40}$ heteropoly acid: acid and catalytic
15:20 - 15:40	CO34: Prof Ivan Kozhevnikov (University of Liverpool)
	2-butanol reaction ?
	How to take advantage of Dawson heteropoly compounds reorganisation in the
15:00 - 15:20	CO33: Eglantine Arendt (Université catholique de Louvain)

Bute Hall

09:00 - 10:00	Plenary lecture sponsored by the Royal Society of Chemistry: Prof. Matthias Beller (Leibniz Institute for Catalysis, Rostock)
	Development of Practical Molecular-defined Catalysis, for Industrial
	Applications and Hydrogen Technology
10:00 - 10:30	Coffee break

Session on Catalyst Preparation – James Watt South Lecture Theatre

10:30 - 10:50	PO37: Paolo Pescarmona (University of Leuven (K.U. Leuven))
	Chemical fixation of carbon dioxide catalysed by multilayered supported ionic
	liquids
10:50 - 11:10	PO38: Ir. Christa Ros (TU Delft)
	Copper deposition for the preparation of new catalysts for the electrocatalytic
	reduction of CO_2
11:10 - 11:30	PO39: Hirokazu Kobayashi (Hokkaido University)
	Conversion of cellulose by supported ruthenium catalysts
11:30 - 11:50	PO40: Zhen Zhao (China University of Petroleum)
	Facile synthesis of three-dimensionally ordered macroporous $La_{1-x}K_xCoO_3$
	catalysts and their high activities for the catalytic combustion of soot
11:50 - 12:10	PO41: Robert French (University of Twente)
	Micro and nano-structuring for photoreactor intensification
12:10 - 12:30	PO42: Dr Nadezhda Shikina (Boreskov Institute of Catalysis)
	Synthesis and study of Pt-Pd-catalysts for inlet section of combined catalyst
	packages of gas turbines
12:30 - 14:00	Lunch break

Bute Hall

09:00 - 10:00	Plenary lecture sponsored by the Royal Society of Chemistry:
	Prof. Matthias Beller (Leibniz Institute for Catalysis, Rostock)
	Development of Practical Molecular-defined Catalysts for Industrial
	Applications and Hydrogen Technology
10:00 - 10:30	Coffee break

10:30 - 10:50	CO35: Dr Patricia Kooyman (Delft University of Technology)
	Real in-situ TEM at atmospheric pressure using a nanoreactor
10:50 - 11:10	CO36: Javier Ruiz-Martinez (Utrecht University)
	Imaging catalytic activity in individual cracking catalyst particles by selective
	staining
11:10 - 11:50	C: Keynote 4: Prof. Gary Attard (Cardiff University)
	Electrochemical perspectives on Catalysis
11:50 - 12:10	CO37: Ms Cristina Stere (Queen's University Belfast)
	SPACIMS - spatial and temporal operando resolution of structured catalysts
12:10 - 12:30	CO38: Dr Krisztina Frey (Institute of Isotopes, Hungary)
	High catalytic activity in CO oxidation over MnOx nanocrystals
12:30 - 14:00	Lunch break

Bute Hall

09:00 – 10:00	Plenary lecture sponsored by the Royal Society of Chemistry: Prof. Matthias Beller (Leibniz Institute for Catalysis, Rostock)
	Development of Practical Molecular-defined Catalysis, for Industrial
	Applications and Hydrogen Technology
10:00 - 10:30	Coffee break

Session on Kinetics and Mechanism – Humanities Lecture Theatre

10:30 - 10:50	KO35: Dr James McGregor, (University of Cambridge)
	Solvent structure and dynamics in heterogeneous catalysis
10:50 - 11:10	KO36: Dr. Thomas Müller (RWTH Aachen University)
	Selective hydrogenation of aldoximes to primary amines on heterogeneous
	catalysts
11:10 - 11:30	KO37: Mr Erik Hagebols (University of Aberdeen)
	Pd catalysed hydrogenation of hexyne modified by sulfur and tin.
11:30 - 11:50	KO38: Rocio Micaela Crespo Quesada (Ecole Polytechnique Fédérale de
	Lausanne)
	Shape and size-tailored Pd nanoparticles to study the structure sensitivity of 2- methyl-3-butyn-2-ol hydrogenation
11:50 - 12:10	KO39: Prof Chris Hardacre (Queen's University, Belfast)
	Insights into the influence of solvent structure on the rate and selectivity in the
	hydrogenation of citral and butan-2-one
12:10 - 12:30	KO40: Maarten Sabbe (Universiteit Gent)
	Benzene hydrogenation on Pt ₃ M bimetallic catalysts: a first principles study
12:30 - 14:00	Lunch break

Bute Hall

10:00 - 10:30	Coffee break
	Applications and Hydrogen Technology
	Development of Practical Molecular-defined Catalysts for Industrial
	Prof. Matthias Beller (Leibniz Institute for Catalysis, Rostock)
09:00 - 10:00	Plenary lecture sponsored by the Royal Society of Chemistry:

Session on Catalyst Deactivation – Senate Room

10:30 - 11:10	D: Keynote 3: Dr Petra E de Jongh, (Utrecht University)
	Confinement Of Cu/ZnO Methanol Synthesis Catalysts In Caged SiO ₂
	Mesostructures: A Strategy Towards Enhanced Sintering Resistance
11:10 - 11:30	DO11: Dr Frederic Meunier (CNRS - University of Caen)
	Correlation between deactivation and Pt-carbonyl formation during toluene
	hydrogenation using a H_2/CO_2 mixture.
11:30 - 11:50	DO12: Sebastian Fogel (Haldor Topsøe A/S)
	Optimising Al_2O_3 for H_2 -assisted NH ₃ -SCR for NOx-removal
11:50 - 12:10	DO13: Dr Irina Simakova (Boreskov Institute of Catalysis)
	Kinetic and deactivation aspects in the transformation of pinene to camphene
	over gold catalysts
12:10 - 12:30	DO14: Prof Chris Hardacre (Queen's University Belfast)
	Influence of methyl halide treatment on gold nanoparticles supported on
	activated carbon
12:30 - 14:00	Lunch break

Bute Hall

09:00 – 10:00	Plenary lecture sponsored by the Royal Society of Chemistry: Prof. Matthias Beller (Leibniz Institute for Catalysis, Rostock)
	Development of Practical Molecular-defined Catalysts for Industrial
	Applications and Hydrogen Technology
10:00 - 10:30	Coffee break

Session on Industrial Application – Kelvin Gallery

10:30 - 11.10	I: Keynote 3: Dr Chris Mitchell (Huntsman Polyurethanes)
	Development Of A New Aniline Process: Lowering The Carbon Footprint Of The
	MDI Manufacturing Chain
11:10 - 11:30	IO39: N Shiju (University of Amsterdam)
	Liquid-phase Beckmann rearrangement of cyclohexanone oxime to caprolactam
	over WOx/ZrO_2 catalysts
11:30 - 11:50	IO40: Dr. Cecilia Mondelli (ETH Zurich)
	Shaped RuO_2/SnO_2 - Al_2O_3 catalyst for large-scale stable Cl_2 production by HCl
	oxidation
11:50 - 12:10	IO41: Katharina Teinz (Humboldt Universität zu Berlin)
	Highly active and selective metal fluoride catalysts for dehydrohalogenation of
	3-chloro-1,1,1,3-tetrafluorobutane
12:10 - 12:30	IO42: Dr Christophe Dujardin (Université de Lille1)
	Thermal stability of perovskite based catalysts ($LaCoFeO_3$) for the
	decomposition of nitrous oxide from nitric acid plants
12:30 - 14:00	Lunch break