



16. ÖSTERREICHISCHE CHEMIETAGE

16th Austrian Chemistry Days

**Joint Meeting of the
Italian & Austrian
Chemical Societies**

September 21 – 24, 2015

UNIVERSITY OF INNSBRUCK



Program



Scientific Committee

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Conference Office

21.09.2015	10.00 – 17.30
22.09.2015	08.15 – 17.30
23.09.2015	08.30 – 16.00

Conference Office is on the ground floor of the main entrance of the CCB Center, Innrain 80 – 82, 6020 Innsbruck

Media Center Room L.01.125

21.09.2015	10.00 – 17.00
22.09.2015	08.15 – 17.00
23.09.2015	08.30 – 15.00

Media Center is on the first floor – room L.01.125 of the CCB Center, Innrain 80 – 82, 6020 Innsbruck

Exhibition opening hours:

21.09.2015	11.00 – 17.30
22.09.2015	08.15 – 17.30
23.09.2015	08.30 – 16.00

Oral and poster presentations

There is a time limit for oral presentations of 15 minutes and 5 minutes for discussion. Oral presentations will be held in parallel sessions.

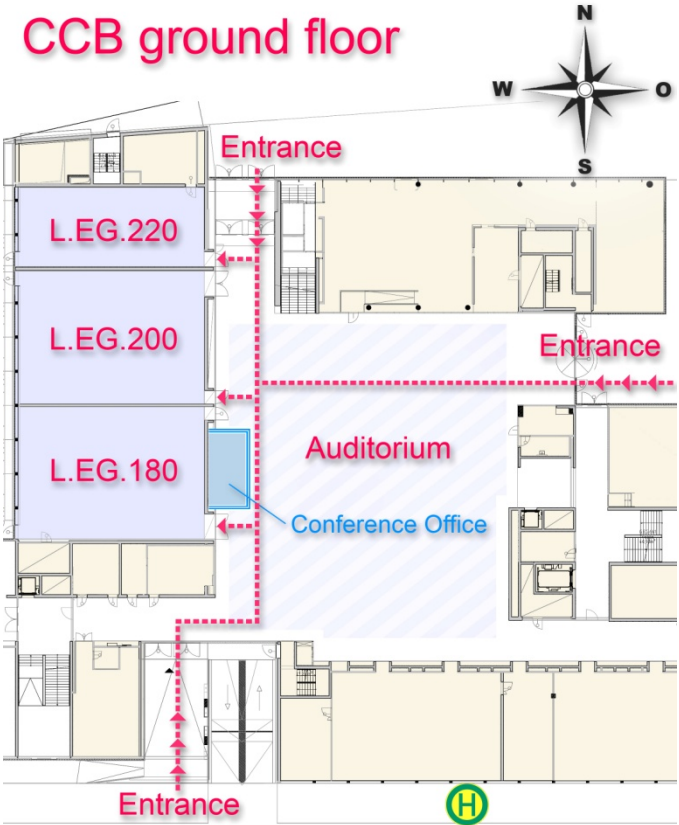
Generally 45 minutes will be allowed for plenary lectures.

Beamer projection (Power Point) is provided. CD or USB stick are accepted.

Poster size is A1 (width 595 mm x height 841 mm) up to a maximum A0 format (width 84,1 cm x height 118,9 cm). Posters should be designed in portrait orientation. They have to be presented from Monday afternoon to Wednesday afternoon.

GROUND FLOOR

CCB ground floor

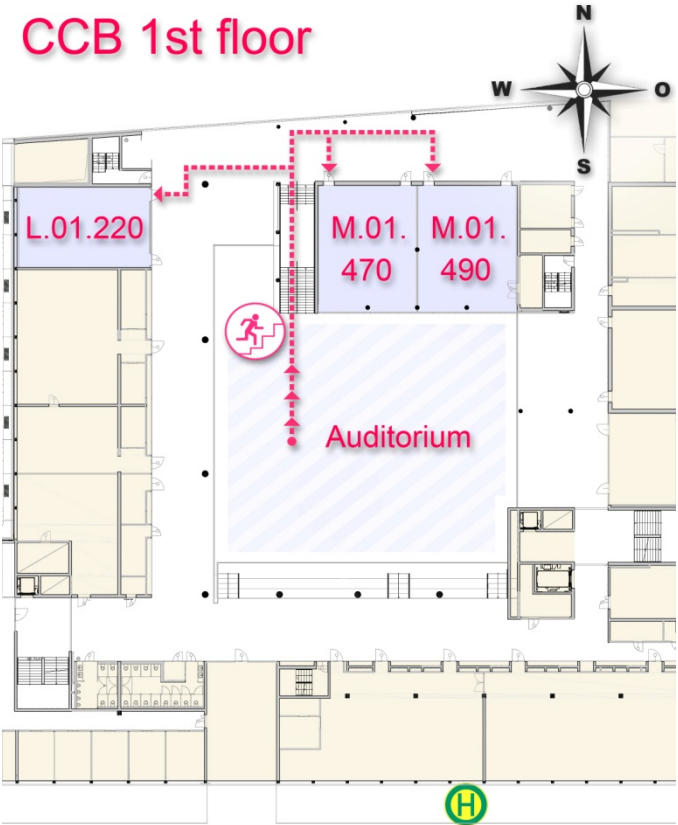


Innrain - - - Innrain - - - Innrain



FIRST FLOOR

CCB 1st floor



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		Monday, September 21, 2015
	10:00	Conference Office opens
	12:00 - 15:00	Young Chemists – Chemistry a_side M.01.392
	12:00 - 15:00	Minisymposia • Surface Chemistry and Catalysis • Modern Trends in Physical Chemistry • ASAC – Analytic Chemistry • Materials and Molecules in Nuclear Magnetic Resonance • Medicinal and Bioorganic Chemistry • Biochemistry and Biotechnology
	15:00 - 15:30	Postersession, exhibition visit, coffee break
		Invited Lectures L.EG.220
	15:30 IL-1	M.M. Unterlass Geomimetics for highly crystalline polymers
	16:15 IL-2	G. Straganz Tricking nature - unravelling how nature controls hydroxylations at an enzymatic nonheme iron(II) center in order to invert its stereoselectivity
		Invited Lecture M.01.470
	15:30 IL-3	M. Hall Biocatalytic Disproportionation of α -Substituted Aldehydes
	15:30 - 17:00	Young Chemists – Chemistry a_side M.01.392
	15:30 - 17:00	Minisymposia • Surface Chemistry and Catalysis • Modern Trends in Physical Chemistry • Materials and Molecules in Nuclear Magnetic Resonance • Medicinal and Bioorganic Chemistry
	17:00 - 18:00	GÖCH General Assembly M.EG.180

	18:00 - 19:00	Postersession
	19:15	Get together - Welcome Party

M.01.392	Young Chemists Chemistry a_side Chair: S. Felderer	
	13:00	Lara Balacco Chemistry and Scent
	13:30	Stefan Stolz Eso matters - Sollten sich Wissenschaftler auch mit unwissenschaftlichen Themen befassen?
	14:00	Simon Albertini A brief History of Chemistry and the Elements
	14:30 - 15:30	Coffee break
	15:30	Simon Hofer Chemie für den Stammtisch
	16:00	Jean-Christophe Noël Do you know about dough? The principles of bread making.
	16:30	Winfried Löffler Science and Religion

L.01.220	Mini Symposium Surface Chemistry and Catalysis Chair: G. Rupprechter	
	13:20 MS-1	S. Penner Water-Gas Shift and Methane Reactivity on Reducible Perovskite-Type Oxides
	13:40 MS-2	N. Yigit Synthesis and Characterization of ABO_3 Perovskites Via Complex Precursor Methods
	14:00 MS-3	C. Rüdiger Synthesis and stability of TiO_xC_y films for electrocatalysis application
	14:20 MS-4	H. Gruber-Wölfler Chemically Treatment of Glass Surfaces to Reduce Alkali Ion Diffusion into Aqueous Solutions
	14:40 - 15:30	Coffee break
	15:30 MS-5	V. Pramhaas Investigation of ALD prepared model catalysts by SFG spectroscopy
	15:50 MS-6	M. Fuchs Biocatalysis in Natural Product Synthesis – Success and Failure
	16:10 MS-7	L. Mayr Inverse Cu/Zr and Cu/Zn Model Catalysts for CO_2 -selective methanol steam reforming and CO-oxidation
	16:30	General Discussion and Meeting of the Workgroup (Elections)

M.01.490	Mini Symposium Modern Trends in Physical Chemistry Chair: Wolfgang Kautek	
	12:00 MS-8	J. Kunze-Liebhäuser Research Highlights from the Institute of Physical Chemistry at the University of Innsbruck
	12:25 MS-9	Th. Berger Semiconductor oxide photoelectrodes: design and doping challenges
	12:50 MS-10	P. Stadler A detailed magneto-electric view to conductive polymers: Approaching polymeric metals
	13:15 MS-11	A.W. Hassel Combinatorial Preparation and Investigation of Oxide Libraries
	13:40 MS-12	W. Sitte Mixed conducting oxide ceramics as electrodes in solid oxide electrolyzers and fuel cells
	14:05 MS-13	J. Fleig Defect chemistry of oxides upon voltage load: What happens in electrochemically polarized fuel cell electrodes and dielectrics?
	14:30 MS-14	G. Grampp Magnetic Field Effect on P-type Delayed Fluorescence in Solution
	15:30 MS-15	A. Naghilou Physical Chemistry and Nanotechnology of Interfaces
	15:55 MS-16	G. Zifferer Mesoscopic and Atomistic Simulations of (macro)molecular Systems
	16:20 MS-17	G. Rupprechter Molecular level studies of catalytic reactions: Synergies of technological catalysts and surface science model systems

M.01.470	Mini Symposium ASAC - Analytical Chemistry Chair: Ch. Seger / G. Bonn	
	12:05 MS-18	Ch.W. Huck Advanced infrared spectroscopic technologies for natural products quality control
	12:40 MS-19	S. Masselter S.M.S. Innovative Analytical Solutions for Pesticide Residue Analysis
	13:15 MS-20	H. Oberacher Applying bioanalytical mass spectrometry to personalize adjuvant chemotherapy with tamoxifen
	13:50	ASAC Young Analytical Chemistry Award
	13:55 MS-21	E. Haller Chemical Recognition of Oxidation-Specific Epitopes in Oxidized LDL by a Nanoparticle based Concept for Trapping, Enrichment and LC-MS/MS Analysis of Biomarkers of Oxidative Stress
	14:25 MS-22	M. Rainer Development of new enrichment strategies based on lanthanide chemistry

M.EG.180	Mini Symposium - Materials and Molecules in Nuclear Magnetic Resonance Chair: M. Tollinger / Ch. Kreutz	
	12:05	W. Schöfberger Opening
	12:05 MS-23	M. Schubert Detection of posttranslational modifications of intact proteins detected by NMR spectroscopy
	12:30 MS-24	Ch. Kreutz Advanced stable isotope labeling for RNA NMR spectroscopy
	12:55 MS-25	G.E. Wagner A membrane-embedded cation-pi interaction facilitates proton transport in vacuolar ATPase
	13:20 MS-26	Ch. Hartlmüller Structural Characterization of RNA by NMR using Solvent-Accessibility Data
	13:45 MS-27	A. Rathner Psb proteins of Photosystem II studied by solution NMR
	14:10 MS-28	O. Steinhauser On the interpretation of the intermolecular NOE
	14:35 MS-29	A.D. Wexler Magnetic resonance imaging of electrohydrodynamic liquid bridges: measurement of relaxation times in electrically stressed polar liquids
	15:00 - 15:30	Coffee break
	15:30 MS-30	S. Grutsch Insights into the world of allergens
	15:55 MS-31	W. Robien Combined Application of Automatic Structure Verification, Similarity Searches and isomer Generation based on Carbon-NMR Data
	16:20	L. Brecker / W. Schöfberger Generalversammlung der AG NMR 2015

L.E.G.200	Mini Symposium Medicinal & Bioorganic Chemistry Chair: M. Mihovilovic	
	12:00 MS-32	T. Langer Feature-based 3D Pharmacophores: Model Extension Using Molecular Dynamics Simulation
	12:30 MS-33	M. König Solution phase synthesis of PNA-Oligomers on hydrophobic anchoring groups
	12:45 MS-34	M. Schmidlehner Novel (thio)pyrone-derived organometallics with anticancer properties
	13:00 MS-35	A. Gioiello In-Flow Generation of PARP-1 Inhibitors with Promising Therapeutic Potential
	13:30 MS-36	M. Leybold Racemization-Free Chemoenzymatic Peptide Synthesis via a Combination of Transition Metal and Enzyme Catalysis
	13:45 MS-37	M. Trobe A modular synthesis of teraryl-based α -helix mimetics for inhibition of protein-protein interactions
	14:00 MS-38	H. Stuppner A successful interdisciplinary Austrian network project
	14:30 MS-39	M. Grininger Microbial synthesis of short fatty acids for biofuel production
	14:45	Technical meeting AG MedChem
	15:00 - 15:30	Coffee break
	15:30 MS-40	F. Nicotra Glyco-Tools for Regenerative Medicine
	16:00 MS-41	M. Winkler Hydroxynitrile lyase from fern: a unique Biocatalyst

	16:15 MS-42	M. Mihovilovic Chemo-Enzymatic Cascade Reactions
	16:30 MS-43	R. Breinbauer Design and Synthesis of Tool Compounds for Target Validation

L.EG.220	Mini Symposium Biochemistry and Biotechnology Chair: Ch. Gosch	
	12:00 MS-44	A. Rompel Latent and active <i>abPPO4</i> mushroom tyrosinase
	12:45 MS-45	Ch. Gosch Blue ^{Ea} LAMP – a specific and sensitive method for the fast detection of the plant pathogenic bacterium <i>Erwinia amylovora</i>
	13:30 MS-46	S. Zeilinger-Migsich From Genes to Biocontrol: Molecular Mechanisms of a Mycoparasitic Fungus
	14:15 MS-47	A. Farnleitner New generation of faecal pollution diagnostics supports drinking water resource management at all time scales

		Tuesday, September 22, 2015
	09:00	Opening Ceremony and Festive Lecture Celebrating the Retirement of o.Univ.Prof. Dr. Bernhard Kräutler M.EG.180
		Plenary Lectures M.EG.180
	09:15 PL-1	H. Schwarz Ménage-à-Trois: Single-atom Catalysis, Mass Spectrometry, and Computational Chemistry
	10:00 PL-2	Th. Jüstel Inorganic Luminescent Materials as the Basis of Highly Efficient Solid State Light Sources
	10:45 - 12:00	Postersession, exhibition visit, coffee break
	12:00 - 13:00	Lunch
	13:00 - 15:00	Young Chemists – Careers in Concept M.01.392
	13:00 - 15:00	Short Lectures • Analytical Chemistry • Inorganic Chemistry • Materials Chemistry • Organic Chemistry • Physical Chemistry • Polymer Chemistry
	15:00 - 16:00	Postersession, exhibition visit, coffee break
	16:00 - 17:00	Young Chemists – Careers in Concept M.01.392

	16:00 - 17:00	Short Lectures • Analytical Chemistry • Chemical Engineering • Inorganic Chemistry • Materials Chemistry • Organic Chemistry • Physical Chemistry • Polymer Chemistry • Solid State Chemistry
		Plenary Lecture M.EG.180
	17:00 PL-3	V. Barone The SMART cyberinfrastructure: Space-Time Multiscale Approaches for Research and Technology
	17:45 - 19:15	Chemistry Awards, Anton Paar Science Award & Postdoctoral Lecture, Qualification Award 2015

M.01.392	Young Chemists Careers in Concept Chair: V. Huber	
	13:00	Wachtler Helmuth Der Beruf Lehrer
	13:30	Tobias Obwegeser Der Beruf Projektleiter
	14:00	Barbara Enders Der Beruf Mutter
	14:30	Karl Schwaha Der Beruf Manager
	16:00	Anette Fölske-Schmitz Der Beruf Forscher
	16:30	Werner Stadlmayr Der Beruf Lektor

L.01.220	Short Lectures Analytical Chemistry	
	13:00 OP-1	Ch. Klampfl Capillary Electrophoresis-Mass Spectrometry: How to achieve more information using Sheath- Flow Chemistry
	13:20 OP-2	D. Kreutz Investigation of novel metal-based anticancer drug candidates' mechanisms of action by in- depth proteome profiling
	13:40 OP-3	D. Großegger Bitumen Ageing determined by fluorescence spectroscopy
	14:00 OP-4	M. Cziferszky Probing the Biological Activity of Zeise's Salt by Mass Spectrometry
	14:20 OP-5	M. Brandstetter Process Analytical Chemistry - success stories and current developments within the Austrian research network PAC (www.k-pac.at)
	14:40 OP-6	M. Oberhuber Chemodiversity, an underestimated aspect of biodiversity: A case study on apples

M.01.490	Short Lectures Physical Chemistry	
	13:00 OP-7	J.Ph. Kollender In-situ monitoring of metal dissolution during anodisation of Al and Ti
	13:20 OP-8	Ch. Rameshan Interaction of Metal and Oxide Model Surfaces with Water studied by in-situ XPS
	13:40 OP-9	N. Barrabes $\text{Pd}_2\text{Au}_{36}(\text{SC}_2\text{H}_4\text{Ph})_{24}$: chirality, structure and reactivity studies
	14:00 OP-10	Th. Berger Excess electrons in mesoporous semiconductor oxides - Reactive species and interface probes

	14:20 OP-11	J. Schneider Porphyrin Adsorption Studies on MgO Nanocubes
	14:40 OP-12	A. Márquez Physico-chemical and biological aspects of the protein/oxide interface in synthetic nanostructures

M.01.470	Short Lectures Polymer Chemistry	
	13:00 OP-13	G. Trimmel Dye functionalized polymers via ROMP for advanced optical applications
	13:20 OP-14	A. Eder Natural dyes - Diffusion behaviour in white thermoset coatings
	13:40 OP-15	B. Gyarmati <i>In situ</i> gelling poly(aspartic acid)s for pharmaceutical applications
	14:00 OP-16	F. Zeppetzauer Quantification of particles and pulp degradation products in rayon spinning baths
	14:20 OP-17	R. Tiefenthaller Hydrothermal Aging of an Epoxide Adhesive System
	14:40 OP-18	H.W.G. van Herwijnen Describing the Tack of Aminoplastic Adhesives

M.EG.180	Short Lectures Organic Chemistry	
	13:00 OP-19	Th. Magauer Collective Total Synthesis of Antifeedant Leucosceptroids
	13:20 OP-20	C. Li Metal Complexes of Coloured Phyllobilins
	13:40 OP-21	V. Pace Homologation Reactions in Organic Synthesis: The Case of Lithium Halocarbenoids

	14:00 OP-22	K. Proisl The Synthesis and Potential Applications of Novel Anthranilic Acid Derivatives
	14:20 OP-23	S. Aichhorn The Construction of six-membered Nitrogen Heterocycles catalyzed by Tin and Indium Chlorides using N-Propargylaniline Derivatives
	14:40 OP-24	B. Riedl Synthesis of N-Acetylgalactosamine Starting from Tartaric acid

Short Lectures Materials Chemistry and Solid State Chemistry		
L.EG.200	13:00 OP-25	E. Felbermair Covalent Embedding of Ni^{2+} - Fe^{3+} Cyanometallates with Intriguing Magnetic Properties in Silica by Sol-Gel Processing
	13:20 OP-26	Ch. Enengl Polaronic Absorption Bands in P3HT upon Doping using In-situ Spectroscopy
	13:40 OP-27	J. Schoiber Solvothermal Synthesis of $\text{Li}_2\text{CoPO}_4\text{F}$
	14:00 OP-28	T.S. Ortner Hydrothermal Synthesis and Characterization of Rare-earth borate-nitrates
	14:20 OP-29	P. Kainzbauer Experimental investigations in the binary Mn-Sb and ternary Mn-Sb-Bi System

Short Lectures Materials Chemistry and Inorganic Chemistry		
L.EG.220	13:00 OP-30	D. Reishofer Synthesis of Bi_2S_3 -Nanoparticles in a Thin Film Cellulose Matrix
	13:20 OP-31	E. Portenkirchner Quantitative determination of Li content in TiO_{2-x} -C and Si/ TiO_{2-x} -C nanotubes by prompt gamma activation analysis

	13:40 OP-32	B. Peles-Lemli Non-covalent interactions of low dimensional carbon nanomaterials
	14:00 OP-33	G. Bourret Recent advances in templated synthesis of hybrid nanostructures for plasmonics
	14:20 OP-34	S. Gross Pursuing crystallisation at very low temperature: wet-chemistry and colloidal routes for mono- and polymetallic nanosized crystalline inorganic compounds
	14:40 OP-35	P. Dolcet Unravel the structural evolution of nanocrystalline copper and zinc manganites during a green and low temperature hydrothermal synthesis: a combined analytical approach

L.01.220	Short Lectures	
	Analytical Chemistry	
	16:00 OP-36	E. Masolo Synthesis and characterization of new donor-acceptor architectures for photo-sensitive devices
	16:20 OP-37	M. Zeiner Trace element analysis of walnuts and walnut oils by inductively coupled plasma atomic emission spectroscopy and inductively coupled plasma mass spectroscopy
	16:40 OP-38	J. Labuda Evaluation of damage to DNA by quantum dots using a DNA based biosensor

Short Lectures Physical Chemistry and Chemical Engineering		
M.01.490	16:00 OP-39	M. Mazur Proton NMR spectroscopy of grape wines
	16:20 OP-40	R. Kothencz Study on the solubility properties of surfactant mixtures
	16:40 OP-41	G.J. Lichtenegger Palladium Substituted Mixed Cerium-Tin-Oxides as Heterogeneous Catalysts for Continuous Suzuki Cross-Coupling Reactions

Short Lectures Polymer Chemistry		
M.01.470	16:00 OP-42	I. Chodak Structure of reinforcing carbon black filler network in polymer composites determined from electrical conductivities
	16:20 OP-43	L.M. Uiberlacker An AFM study of epoxy resin nanocomposites
	16:40 OP-44	M. Jehser Dissipative Particle Dynamics Study of Loops and Tails attached to a Surface

Short Lectures Organic, Analytical and Materials Chemistry		
M.EG.180	16:00 OP-45	J. Novacek Bifunctional Ammonium Salt/(Thio)Urea Catalysts as Versatile Tool for the Functionalization of β -Ketoesters and more
	16:20 OP-46	T.O. Nagy Multiple Wavelength Stratigraphy by Laser-Induced Breakdown Spectroscopy of Ni-Co Alloy Coatings on Steel
	16:40 OP-47	J. Kastner Graphene Ink as Replacement for PEDOT:PSS in Organic Solar Cells

Short Lectures Materials Chemistry and Solid State Chemistry		
L.EG.200	16:00 OP-48	G. Heymann High-pressure/High-temperature Synthesis and Characterization of Lithium Transition-Metal Chalcogenides $\text{Li}_2\text{M}_3\text{X}_4$ (M = Pd, Pt, X = S, Se)
	16:20 OP-49	N. Dengo Functionalising transition metal sulphide surfaces: a challenging playground for inorganic materials chemists
	16:40 OP-50	F. Biegger Thioether-functionalized alkoxides: a novel precursor system for gallium and indium oxysulphides

Short Lectures Materials Chemistry		
L.EG.220	16:00 OP-51	F. Putz Synthesis of Hierarchically Organized and Anisotropic Porous Silica Monoliths
	16:20 OP-52	N. Hayati-Roodbari Nanostructured Silicon: Synthesis, Alloying and Electrochemical Applications
	16:40 OP-53	Th. Schwab Tribiochemically induced optical Property Changes in MgO Nanoparticle Powders

		Wednesday, September 23, 2015
		Plenary Lecture M.EG.180
	09:00 PL-4	F. Lottspeich Concepts after 20 years of proteomics
		Invited Lecture M.EG.180
	09:45 IL-4	G. Bourret Electrochemical approaches for controlling plasmonic nanostructures
	09:45 - 12:00	Young Chemists – Workshops
	10:30 - 11:00	Postersession, exhibition visit, coffee break
	11:00 - 12:00	Short Lectures • Analytical Chemistry • Biotechnology • Electrochemistry • Inorganic Chemistry • Materials Chemistry • Organic Chemistry • Polymer Chemistry
	12:00 - 13:00	Lunch
		Invited Lectures M.EG.180
	13:00 IL-5	Ch. Kreutz Ligand detected CPMG relaxation dispersion NMR - a versatile tool in drug discovery
	13:45 IL-6	H. Mikula Radiolabeled 1,2,4,5-Tetrazines: Tools for Bioorthogonal PET Imaging
	13:00 - 15:35	Young Chemistry – Workshops

	13:45 - 15:05	Short Lectures • Electrochemistry • Environmental and Sustainable Chemistry • Inorganic Chemistry • Materials Chemistry • Theoretical Chemistry
	15:05 - 15:35	Postersession, exhibition visit, coffee break
	15:35 - 16:00	Poster Awards M.EG.180
		Plenary Lecture M.EG.180
	16:00 PL-5	A. Credi Photoactive molecular devices, machines and materials

	Young Chemists Workshop	
	09:45	Emanuel Ehmki LaTeX - Kurs für Fortgeschrittene M.01.392
	09:45	Veronika Huber LaTeX – Grundkurs L.EG.380
	09:45	Simon Albertini Presenting Scientific Data SR 4U102a (GeiWi Turm – Meeting Point: Aula CCB)
	09:45	Martin Wieser Statistik - Die Essenz der Wissenschaft L.03.112

Organic Chemistry and Physical Chemistry		
L.01.220	11:00 OP-54	D. Pressnitz Asymmetric Pictet-Spengler Reaction via Strictosidine Synthases to Access Tetrahydro- β -carboline - Protein Expression and Substrate Scope
	11:20 OP-55	K. Anic Cobalt Oxide Model Catalysts – Structure and Surface Reactivity

Short Lectures Electrochemistry		
M.01.490	11:00 OP-56	M.C. Doppler Sulfur Poisoning of Micro-Patterned Ni Anodes on Yttria Stabilized Zirconia Solid Electrolytes
	11:20 OP-57	S. Enengl <i>In situ</i> Spectroelectrochemistry on Quinacridone as Compared to Pentacene
	11:40 OP-58	A.W. Hassel New approaches in electrochemical cell design by 3D printing

Short Lectures Polymer Chemistry and Biotechnology		
M.01.470	11:00 OP-59	S. Eisenhaber Dissipative Particle Dynamics Study of Shielding Effects in Surface initiated Polymerization
	11:20 OP-60	Th. Werzer Electrochemical Quartz Microbalance Analysis of the Adsorption Behaviour of Polymeric Model Membrane Systems on Gold

Short Lectures Inorganic Chemistry and Materials Chemistry		
M.E.G.180	11:00 OP-61	M. Schmitt High-Pressure Synthesis of the new Nickel Borate HP-NiB ₄ O ₇
	11:20 OP-62	A.A. Altun Development and Evaluation of Photocurable Ceramic Suspensions for Lithography-Based Ceramic Manufacturing
	11:40 OP-63	K. Niederwimmer Analysis of metal-polymer laminates used in electrical appliances of high efficiency

Short Lectures Analytical Chemistry		
L.E.G.200	11:00 OP-64	F. Weigang 2D HPLC on its way to routine - the 1290 infinity 2D-UHPLC
	11:20 OP-65	C. Schwarzing Analysis of Topaz Gemstones with Modern Spectroscopic Techniques
	11:40 OP-66	M. List Determination of inorganic compounds in polyolefines

Short Lectures Theoretical Chemistry		
L.01.220	13:45 OP-67	J.E. Fuchs Specificity of Macromolecular Interfaces: A Question of Flexibility?
	14:05 OP-68	Th. Hofer Combining 2d-periodic quantum chemistry with molecular force fields: a novel QM/MM procedure for the treatment of solid-state surfaces and interfaces
	14:25 OP-69	F. Plasser Understanding Electronic Excitations in Complex Systems
	14:45 OP-70	M. Podewitz Novel B ₁₂ Derivatives as Potential Antivitamins: Understanding their Functioning by Quantum Chemical Investigation

Short Lectures Environmental and Sustainable Chemistry		
M.01.470	13:45 OP-71	M. Bichler Biological Ice Nucleation
	14:05 OP-72	L. Felgitsch Macromolecular ice nucleation activity of birch pollen
	14:25 OP-73	Th. Häusler Cellulose and Their Characteristic Ice Nucleation Activity
	14:45 OP-74	L.T. Mika Asymmetric reduction of levulinic acid to γ -valerolactone: synthesis of a chiral platform molecule

Short Lectures Materials Chemistry		
M.01.490	13:45 OP-75	N. Lasemi Laser Ablation Synthesis of Colloidal Dispersions of Nickel Nanoparticles
	14:05 OP-76	H.-T. Ngo Sorption behaviour of reactive dye marked silk – the blue silk approach
	14:25 OP-77	C.C. Mardare Synthesis of Molybdates with Antimicrobial Properties
	14:45 OP-78	K. Niegelhell Protein Adsorption - A Key Parameter in Tissue Engineering

Short Lectures Electrochemistry		
M.EG.180	14:30 OP-79	A. Mardare Anodic behavior of superimposed ultra-thin valve metal films
	14:50 OP-80	M. Pfaffeneder-Kmen Electrochemistry of Graphene Oxide on Noble Metals: an <i>in-situ</i> FTIR and <i>in-situ</i> QMB study

Short Lectures Inorganic Chemistry		
L.EG.200	13:45 OP-81	I. Nemec Relationships between the structure and magnetic anisotropy in tetra and pentacoordinate Co(II) compounds
	14:05 OP-82	U. Monkowius Strongly Luminescent Copper(I) Complexes for Singlet Harvesting in OLEDs based on TADF
	14:25 OP-83	M. Kaiser Synthesis and Characterization of Iron-Sulfur-Clusters for the Development of Novel Hydrogenase Model Compounds
	14:45 OP-84	I. Hackl Metallo-Scorpionates

Short Lectures Materials Chemistry		
L.EG.220	13:45 OP-85	M. Roiaz Sum Frequency Spectroscopy for Investigations in Heterogeneous Catalysis
	14:05 OP-86	N. Schrödl Long-term stability of the IT-SOFC cathode material $\text{La}_2\text{NiO}_{4+\delta}$ against chromium and silicon poisoning
	14:25 OP-87	M. Perz Electrochemical Degradation and Phase Decomposition of Silicon-poisoned $\text{La}_{0.6}\text{Sr}_{0.4}\text{Co}_{0.2}\text{Fe}_{0.8}\text{O}_{3-\delta}$ SOFC Cathodes
	14:45 OP-88	E. Bucher Chromium and Silicon Poisoning of the SOFC Cathode Material $\text{La}_{0.6}\text{Sr}_{0.4}\text{CoO}_3$

Poster Presentation

Analytical Chemistry

PO-1	T. Bajer Aroma profiles of fruit spirits from Moravia, Czech Republic
PO-2	T. Baumgartner Screening of toxic pyrrolizidine alkaloids in plant extracts
PO-3	S.N.H. Bokhari Plasma chemistry of Rare earth elements in NH ₃ and O ₂ gas
PO-4	A. Eder Investigation on the migration of contaminants from printed food packaging materials
PO-5	R. Farre Preliminary study on amperometric polythiophene-based biosensors for polyphenols detection
PO-6	R. Henn Near-Infrared spectroscopy applied to selected groceries for establishing multivariate predictive models for the quantitative analysis of carbohydrates
PO-7	Ch. Hutterer Lignin content determination in alkaline process lyes by size exclusion chromatography
PO-8	J. Labuda Electrochemical sensing of DNA damage in the presence of Au nanoparticles and UV-C radiation
PO-9	G. Kreisberger Identification of degradation products of antioxidants in engine oils
PO-10	D. Kremr In vitro dissolution testing of chlorogenic acid in food supplement
PO-11	P. Mikecz Trace element determination using MP-AES instrument
PO-12	A. Nagl Aggregation of diamond nanoparticles in biological media. A chance for protein analysis?

PO-13	J. Santer Measurement of Amisulbrom with LC/MS/MS in ESI+ und ESI- Mode
PO-14	D. Schemeth Purification and isolation of phenolic acids using an imidazole based polymer
PO-15	C. Schwarzing Identification of Turquoise and its Imitations with Infrared spectroscopy
PO-16	S. Silbermann Overall SEC analysis of poorly soluble cellulose samples in one day
PO-17	V. Vezočník AF4 characterization of lipid droplets and large unilamellar vesicles
Biochemistry	
PO-18	S. Flür Role of a ribosomal RNA phosphate oxygen during the EF-G-triggered GTP hydrolysis
PO-19	M. Frener Conditional gene expression in E.coli through engineering of preQ1 riboswitch motives
PO-20	M. Winkler 7-Cyano-7-deazaguanine synthase: a reverse Nitrilase?
Chemical Engineering	
PO-21	F. Anders Measuring the reaction kinetics of free radical polymerizations of n-butylacrylate
Electrochemistry	
PO-22	A. Hutterer Al-doped ZnO as Current Collector in Oxide Anodes for Solid Oxide Fuel Cell (SOFCs): Preparation, Stability and Electrochemical Properties
PO-23	A. Schmid Electrochemical properties of $\text{La}_{0.6}\text{Sr}_{0.4}\text{FeO}_{3-\delta}$ thin film electrodes upon polarization

PO-24	Th. Werzer Protein Electrochemistry on Gold in Cosmotropic versus Chaotropic Electrolytes: In-situ FT-IRRAS and EQMB Investigations
Environmental and Sustainable Chemistry	
PO-25	T. Zolles Ice Nucleation Active Sites on Silicate Dust Particles
Inorganic Chemistry	
PO-26	I. Berasaluce Synthesis and characterisation of scorpionato Mo(IV) complexes bearing different ligand scaffolds
PO-27	J. Prock From Precious to Non-Precious Metal Complexes in Artificial Photosynthesis
PO-28	V. Christopoulos Functionalization of Higher Hydrosilanes
PO-29	S. Diodati Easy and green route to ZnO-abundant based functional materials for application in the field of H ₂ S gas sensors
PO-30	E. Garribba Speciation of vanadocene dichloride in the blood plasma
PO-31	M. Jochriem Chemoselective Synthesis of Mono-Functionalized Rhodocenium Salts
PO-32	E. Kianfar Synthesis, Characterization and Photoreactivity of Rhenium and Molybdenum Carbonyl Complexes with Iminopyridine Ligands
PO-33	M. Lampl π -Stacking in the Realm of the 5,5'-Azotetrazolates
PO-34	A. Minelli Green, low temperature and easy synthesis of Cu and Zn-based nanostructured manganites

PO-35	S. Mokesch The leaving group variation of an 1,3-dioxoindane-based ruthenium(II)-cymene half-sandwich complex
PO-36	R. Pehn Synthesis and Coordination Chemistry of Functionalized Phosphane Ligands
PO-37	B. Petermüller High-Temperature Synthesis of the New Strontium Borogermanate $\text{Sr}_{3-x/2}\text{B}_{2-x}\text{Ge}_{4+x}\text{O}_{14}$ ($x = 0.32$)
PO-38	D. Sanna Biotransformation in the blood serum of potential antitumor V(IV)O^{2+} complexes and interaction with red blood cells
PO-39	L. Schuh Photoinduzierte Ringerweiterung von cyclischen Acylsilanen
PO-41	E. Schwarz Theoretical and synthetic investigations of cyclic α, α' - phosphorus stabilised group 14 carbene analogues
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PO-42	A.F. De Fazio Thermal evolution of nanostructured ZnS obtained via different wet chemistry routes
PO-43	P. Gemeiner Spectroscopic comparison between printed TiO_2 and ZnO electrodes sensitized by one-step and two-step preparation method of perovskites
PO-44	Th. Götsch From Zirconia to Ytria — Sampling the YSZ Phase Diagram Using Sputter-Deposited Thin Films
PO-45	M. Hatala Preparation of hybrid organic-inorganic perovskite solar cells at ambient conditions
PO-46	J. Hofer Synthesis of donor doped barium titanate and characterization via electrochemical impedance spectroscopy

PO-47	K. Kocsis Powders and colloidal dispersions of ZnO nanoparticles: a comparative photoluminescence study
PO-48	M.C.J. Marker Phase equilibria in the system Bi-Mn-Pt
PO-49	B. Naier Synthesis of New Ferrocenyl Derivatives of Meldrum's Acid
PO-50	C. Németh Polymer films based on cationic polyaspartamides
PO-51	M. Niedermaier Dependence of paramagnetic defects of metal oxide powders on the chemical environment
PO-52	P. Pertl Microwave-assisted Synthesis of Crystalline Germanium/Tin Alloy Nanostructures
PO-53	M. Rauch The Mystery of [1166837-27-9]
PO-54	G.R. Reisinger Isothermal section and new compounds in the system Al-Fe-Ge
PO-55	N. Hüsing Highly Porous Monolithic Alumina Aerogels from Glycolated Precursors
PO-56	A. Vittadini Interaction between polypyrrolic macrocycles and TiO ₂ (110): experiments and theoretical modeling
PO-57	M. Wassner Synthesis of spherical carbon/titanium (oxy)nitride core/shell composites
Medicinal Chemistry	
PO-58	M. Bräuer NMR Studies of de novo-designed antimicrobial peptides
PO-59	N. Fahrner Design and stereospecific synthesis of 4,5-diaryl-2-imidazolines as potential nuclear receptor alternate site modulators for estrogen receptor alpha

PO-60	V. Follia Structure activity relationship of novel GPR30 ligands
PO-61	C.M. Gallati Synthesis and preliminary biological investigations of novel NHC gold(I) complexes as potential anticancer agents
PO-62	C.M. Hackl Thiomaltol-based organometallic complexes with 1-methylimidazole as leaving group
PO-63	D. Höfer Tetracarboxylatoplatinum(IV) complexes featuring monodentate leaving ligands - a novel class of platinum(IV) prodrugs
PO-64	A. Knox Design and synthesis of new diethylstilbestrol derivatives as anti-breast cancer agents
PO-65	J. Kóna Computer-assisted design of selective inhibitors of glycoside hydrolases from the GH family 38
PO-66	M. Nadlinger Synthesis of Imidazoquinolines for Antibody-Based Cancer Immunotherapeutics
PO-67	V. Obermoser Antitumour active cobalt alkyne complexes derived from acetylic salicylic acid: studies on impact of fluorination and chlorination of Co-ASS
PO-68	J. Pletz Synthesis of chemical probes to investigate the mechanism of PhzA/B
PO-69	A. Weninger Novel Zeise-type complexes with aspirin substructure as potential COX-inhibitors
PO-70	M. Winkler Drug Metabolizing Enzymes: From heterologous Expression to Drug Metabolite Synthesis

Mini Symposium Surface Chemistry and Catalysis

PO-71	M. Grünbacher Studies on Adsorption Properties and Redox Reactivities of Perovskites
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Organic Chemistry

PO-72	M. Baráth Chemical Synthesis of a Chromogenic Substrate for GH30 Glucuronoxylanases
PO-73	A. Bazgir Synthesis of spirooxindols fused indenopyridine
PO-74	M. Bella Towards inhibitors of glycosyltransferases: Synthesis of saccharide part of UDP-GlcNAc TS analogue
PO-75	T. Dao-Huy Palladium catalyzed direct arylation for the synthesis of lignan analogs, potential anti-inflammatory agents
PO-76	F. Faraji Multi-component Synthesis of indenopyrazolopyridines
PO-77	H. Glasner CAD and EDD for the identification, localization, and relative quantitation of base methylations of RNA
PO-78	Z. Hricovíniová Mo(VI)-catalyzed transformations of carbohydrates: The scope and limitations
PO-79	L. Jud Expanding the scope of 2'-SCF3 modified RNA
PO-80	S. Jurečková A Convenient Synthesis of 2-(Indol-2-carboxamido)benzamides
PO-81	Ch. Kieninger Photo-induced bond cleavage suppressed in an antivitamin B ₁₂
PO-82	F. Křemen Reduction of N-nitrosoaminoquinolinediones with lithium aluminium hydride—an easy path to new tricyclic benzooxadiazocines

PO-83	S. Kulkarni Binding properties of novel adamantane-based homotritopic guests
PO-84	P. Mirzaei Nef-isocyanide -based one-pot two-step three component dihydrobenzo[4,5]imidazo[2,1-b]thiazoles synthesis
PO-85	A.A. Mohammadi Synthesis, in vitro antibacterial activities, and in silico studies of novel fused dihydropyridine and tetrahydropyridine derivatives
PO-86	S. Monticelli A Robust, Eco-Friendly Access to Secondary Thioamides through the Addition of Organolithiums to Isothiocyanates in CPME
PO-87	S. Neuner The speedy Gonzales synthesis of atom-specific ¹⁵ N imino/amido-labeled RNA
PO-88	G. Parisi Lithium/Magnesium-Sulfoxide Exchange as Strategy to Access Fluorocarbenoids: Mechanistic Aspects and Synthetic Applications
PO-89	M. Poláková Synthesis of carbohydrate-based model compounds for inhibition of α -mannosidases from the GH family 38
PO-90	C. Puchner Synthesis and binding pattern studies of methyl-4-keto-sugars to glcua decarboxylase
PO-91	Ch. Riml A novel building block to synthesize 5-hydroxymethylcytidine modified RNA by solid-phase synthesis
PO-92	L. Roiser Towards a more general understanding of ammonium ylide-mediated epoxide synthesis
PO-93	M. Roiser 'Clickable' Chlorophyll Catabolites
PO-94	M. Schennach The effect of solvent on the structure of gaseous KIX ions from electrospray ionization

PO-95	E.-M. Schneeberger Probing charge sites in gaseous peptide ions by electron capture dissociation
PO-96	J. Schörghumer Towards an asymmetric α -cyanation of β -ketoesters
PO-97	N. Sudzukovic Synthesis of Secoiridoid Analogues Based on Secologanin
PO-98	M. Tiffner Stereoselective Synthesis of Heterocycles using Glycine Schiff Bases and Bifunctional Ammonium Salt Catalysis
PO-99	N. Vusurovic Facile synthesis of a 2'-O-aminoalkylated guanosine building block for RNA synthesis and subsequent labeling applications
PO-100	K. Zielke Enantioselective Ammonium Ylide-Mediated Epoxide Syntheses
Physical Chemistry	
PO-101	Ch. Berger Synthesis and Characterization of Calcium Substituted LaFeO_3 as a Potential SOFC Cathode
PO-102	D. Derdak Host-guest interactions of citrinin mycotoxin with macrocyclic oligomers
PO-103	B. Erdelyi Metal/CNTs catalysts in pyrolysis hydrogen production from methane
PO-104	V. Fuentes Landete Dynamics enhanced by HCl doped triggers full Pauling entropy release at the ice XII-XIV transition
PO-105	M. Jehser Studies of Amorphous Ice by Molecular Dynamics Simulations
PO-106	W. Kautek Femtosecond Yb-Doped Fiber Oscillator and μJ -Level Amplifier based on a Novel Polarization-Maintaining Higher-Order-Mode Fiber

PO-107	W. Kautek Hot Electron Electrochemistry induced by Femtosecond Laser Pulses
PO-108	E.-M. Köck High Temperature Study of SOFC anode relevant oxides
PO-109	M. Kogler C1-chemistry on SOFC relevant anode materials
PO-110	A.N. Koyun Imaging and spectroscopy analysis of bitumen surface
PO-111	M. Leprich Characterization of the electrical properties of barium titanate doped with 2.1% La and 1.0% Mn
PO-112	H. Li The activation of CO ₂ on a ZrO ₂ thin film
PO-113	A. Naghilou The Role of Irradiation Area on the Formation of High Spatial Frequency Laser-Induced Periodic Surface Structures
PO-114	A. Naghilou Sub-30fs Pulse Laser Irradiation Area Dependence of the Modification Behaviour of Steel, Silicon and Polystyrene
PO-115	U. Pacher Physical Chemistry of the Passive State: Laser-Induced Repassivation Investigations on Aluminium
PO-116	J. Pann Investigation of MOF incorporated proton reduction catalyst intermediates
PO-117	P. Waldner Thermodynamic modeling of Cu-Fe-S phase equilibria
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PO-118	B. Baumgartner Highly Crystalline Polyimides via Hydrothermal Polymerization

PO-119	Z. Bekova The performance of the compact (blocking) sol-gel TiO _x layer in hybrid solar cells on plastic substrates
PO-120	M. Belovičová FTIR-PCA analysis of laser prints for forensic analysis of documents
PO-121	T. Cavalli Synthesis of Highly Crystalline Polyimide/Graphitic Carbon Composite Nanoparticles by Hydrothermal Polymerization
PO-122	D.A. Cerron-Infantes Synthesis of Non-Spherical Polymer Particles of Controlled Size and Shape
PO-123	S. Eisenhaber Monte Carlo Simulation Study of Shielding Effects in Surface initiated Star Polymerization
PO-124	M. Heschik Copolymerization of 2,4-bis-dimthylamino-6-methylvinylamino-1,3,5-triazin with common monomers
PO-125	Z. Machatová Stability of natural red colorants in liquid model systems
PO-126	J. Oravec Progress in the adhesion properties of unvulcanised natural rubber blends to metal surfaces
PO-127	M. Oravec NIR Spectral Data and Principal Component Analysis as Chemometric Method for Analyzing Inkjet Prints
PO-128	M. Schroffenegger Synthesis of Main-Chain Ferrocene-Containing Condensation Polymers
PO-129	B.A. Szilágyi Thiolated poly(aspartic acid): an in situ gelling mucoadhesive polymer

Solid State Chemistry	
PO-130	A. Albinati Crystal Growth of Coordination Polymers by Gel Diffusion
PO-131	S. Bräuchle Synthesis and Structural Characterization of the New Rare-Earth Borosilicate $\text{Pr}_3\text{BSi}_2\text{O}_{10}$
PO-132	H. Flandorfer New intermetallic anode materials: Experimental investigation of the Cu-Li-Sn system
PO-133	M. Glätzle Synthesis and Single Crystal Structure of the New Rare-earth Oxide Tb_3O_5
PO-134	S. Haslinger Triazolium-based N-Heterocyclic Carbene Ligands Containing Ferrocenyl and Cobaltocenium Substituents
PO-135	S. Haslinger Cobaltcarbonyl Complexes of Dicationic Alkyne-bridged Imidazolium and Triazolium Derivatives
PO-136	M. Jochriem Crystal Structures of 1-Alkyloxy-2-bromo-3-methoxyimidazolium Tribromides
PO-137	G. Laus Crystal Structures of Azolo[b]1,3,4-thiadiazinium Bromides
PO-138	G. Laus Crystal Structures of 2,4,5-Tribromo-1-methoxyimidazole and Quaternary Salts
PO-139	G. Laus Crystal Structures of Imidazoline-2-thiones and 1,2,4-Triazoline-5-thiones
PO-140	G. Partl Co-stacking of Fluorinated Alkyl Chains in Methimazole-based Ionic Liquids and Related Salts
PO-141	G. Partl Synthesis of stabilised bismuth vanadate via vanadyl modified zeolite precursors

PO-142	L. Petschnig High-Temperature Investigations on a Flux-assisted Solid State Synthesis of LaFeO_3
PO-143	B. Rietzler Methimazole-based Bidentate Ligands
PO-144	D. Schildhammer High-Temperature Synthesis and Characterization of Rare-Earth Molybdenum-Oxynitrides
PO-145	D. Vitzthum Synthesis and Characterization of the New High-Pressure Gallium Borate $\text{Ga}_2\text{B}_3\text{O}_7(\text{OH})$
Theoretical Chemistry	
PO-146	S. Monteleone Binding pose of G-Protein Coupled Estrogen Receptor 1 selective ligands
PO-147	M. Schauperl Antifreezing Protein Dynamics with Polarizable Multipole Force Fields
PO-148	Y. Wang Simulation of Stratum Corneum Lipid Bilayer Using Coarse-Grained Models
PO-149	M. Wiedemair Tuning the reactivity of a dissociative force field: proton transfer properties of aqueous H_3O^+ and their dependence on the three-body contribution

