26.8

4th EuCheMS Congress - Preliminary Scientific Programme

08:00-19:00	**Registration**	08:00-19:00
14:00-16:00	**Opening Ceremony**	14:00-15:00
16:00-17:00	**Plenary Session: Lehn J. M.** (ISIS, Université de Strasbourg, France) From Supramolecular Chemistry towards Adaptive Chemistry	**10:00-10:30**
17:00-19:00	BASF The Chemical Company **Welcome Reception**	**17:00-19:00**
19:00-19:30	**Break**	**19:00-19:30**
19:30-21:00	**Concert**	**19:30-21:00**

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	Analytical chemistry Electrochemistry, Analysis, Sample manipulation *Brett Christopher M.A., Convener*	Education and History, Professional chemists Ethics, Employability, Labels *Facchetti Sergio, Convener*	Environment and Green Chemistry *Giger Walter, Convener*	Food Chemistry Food/Agriculture/Agrochemistry/Nanotechnology, food and processing *Wedzicha Bronek, Convener*	Inorganic Chemistry plus Young inorganic chemistry day *van Eldik Rudi, Convener*	Life Sciences SANOFI *Mihovilovic Marko, Convener*	Nanochemistry/ Nanotechnology/ Molecular machines, Carbon tubes, sheets, balls *Credi Alberto, Convener*	Organic Chemistry, Polymers *Muellen Klaus, Convener*	Organic Chemistry, Polymers *Muellen Klaus, Convener*	Physical, Theoretical and Computational Chemistry *Eisenstein Odile, Convener*	Solid State Chemistry Materials chemistry / New materials *Sozzani Piero, Convener*	Special Symposium: Jam Session plus Young National Winners in Bio-Organic Chemistry *Drašar Pavel, Convener*	
08:00-19:00	**Registration**												08:00-19:00
09:00-10:00	**Plenary Session: Ertl Gerhard** (Fritz-Haber-Institut der Max-Planck-Gesellschaft, Berlin, DE): Catalysis at surfaces: From atoms to complexity												09:00-10:00
10:00-10:30	**Coffee Break**	**Coffee Break**	**Coffee Break**	**Coffee Break**	**Coffee Break**	**Coffee Break**	**Coffee Break**	**Coffee Break**	**Coffee Break**	**Coffee Break**	**Coffee Break**	**Coffee Break**	**10:00-10:30**
SESSION	**Elektroanalytical methods - I** *Chair: Christopher M.A. Brett. Jiri Barek*	**Ethics and Employability of Professional Chemists - I** *Chair: Sergio Facchetti*	**Environmental Radiochemistry "Fukushima and Chernobyl"** *Convener: Heinz Gäggeler* *Chairs: Jan John, Heinz Gäggeler*	**Sustainable food production** *Chairs: Mark Gronnow, Hans Steinhart*	**New trends in organometallic chemistry - I** *Chair:*	**Biocatalysis Session - I** *Chair: Mihovilovic Marko*	**Nanochemistry, nanotechnology and nanostructured materials - I** *Chair: Andreas Hirsch*	**Organometallic Chemistry, catalysis, new frontiers - I** *Chair: Vincent Gandon*	**Physical organic methods - I** *Chair: Carlos Afonso*	**Novel Materials - I** *Chair: Xavier Assfeld*	**Self-assembly, Molecular Recognition and Biomaterials - I** *Chair: Nadrian Seeman*	**Special symposium - I**	**SESSION**
10:30	**Jiri Janata** *(USA)* Arrays for gas potentiometry and amperometry	**Hartmut Frank** *(Germany)* Ethics and Chemistry	**Tarja K. Ikaheimonen** *(Finland)* Environmental effects of the Fukushima accident - compared to the Chernobyl accident	**Bronek Wedzicha** *(United Kingdom)* Chemistry for sustainable food production	**Zeev Gross** *(Israel)* Controlling and utilizing the catalytic pro- and anti-oxidant properties of corrole metal complexes	**Uwe Bornscheuer** *(Germany)* In silico Discovery and application of transaminases in organic synthesis	**Stephen J. Loeb** *(Canada)* Metal-organic frameworks with dynamic interlocked components	**Paul Knochel** *(Germany)* Polyfunctional organometallics as key intermediates in organic synthesis	**Sijbren Otto** *(Netherlands)* Systems Chemistry: Catalysis and self-replication in dynamic molecular networks	**Michael Ashfold** *(United Kingdom)* pi-sigma* states in the photochemistry of heteroaromatic molecules	**Lia Addadi** *(Israel)* Plant cystoliths: complex functional biocomposites designed to scatter light	**Hisashi Yamamoto** *(USA)* Super Bronsted Acid Catalyst and Super Silyl Enol Ether - Rapid Synthesis of Polyketides	10:30
11:00	**Glen O'Neil** *(USA)* Carbon Nanomaterial-based Electrochemical Sensors in Microfluidic Total Analysis Systems	**Boguslaw Buszewski** *(Poland)* The man and the progress of civilization. Who are we and where are we going?	**Kamila Stastna** *(Czech Republic)* Establishing Cs-137 and Cs-134 levels in seawater in the Pacific Ocean between Fukushima and Hawaii	**Martinus van Boekel** *(Netherlands)* Food production and food quality: a sustainable match	**Georg Suss-Fink** *(Switzerland)* Catalytic Potential of Ruthenium Nanoparticles Intercalated in Hectorite for Selective Hydrogenation Reactions	**Maliha Uroos** *(United Kingdom)* Synthetic studies towards Dihypoestoxide	**Elisha Krieg** *(Israel)* Recyclable supramolecular membrane: separation of nanoparticles and proteins according to size	**Annaliese Franz** *(USA)* New methods of enantioselective synthesis with scandium and silanediol catalysis	**Estelle Leonard** *(France)* Novel photochromic surfactant for organic reactions in aqueous media	**Svemir Rudic** *(United Kingdom)* Conformational effects in sugar ions: spectroscopic investigations of the protonated alpha and beta anomers of D-xylopyranosyl imidazolium in the gas phase and in solution	**Ehud Gazit** *(Israel)* Self-Assembled Bio-inspired Nanostructures of Unique Chemical, Physical, and Mechanical Properties	**Raffael Wende** *(Germany)* Evolution of Asymmetric Organocatalysis - Retrocatalysis and the Multicatalyst Approach	11:00
11:15	**Pasta Mauro** *(USA)* A desalination battery		**Hidetoshi Kuramochi** *(Japan)* Behavior of radioactive cesium during incineration of municipal wastes contaminated by radioactive fallout from the Fukushima Nuclear Accident		**Piero Stoppioni** *(Italy)* Iodide Activation of Coordinated White Phosphorus: Formation and Transformation of 1,3-dihydride-2-iodidecyclotetraphosphane	**Terrence Neumann** *(USA)* Solution Structures and Models Describing the Thioredoxin System from Mycobacterium tuberculosis	**Valerie Mondes** *(Germany)* Preparation of Ordered Metallic Nanostructures for the Investigation of Nonlinear Optical Processes	**Jan Cermak** *(Czech Republic)* Cyclopentadienyl titanium(IV) complexes with fluorous ponytails immobilized on carbosilane dendrimers via a Ti-O bond	**Benjamin Dietzek** *(Germany)* Photoinduced dynamics in a terpyridine-based zinc(II) coordination polymer and their molecular fragements	**Israel Temprano** *(United Kingdom)* Catalytic studies of FeS2 towards ammonia synthesis under ambient conditions		**Florian Adanitsch** *(Austria)* Synthesis of a non-reducing disaccharide scaffold for novel Lipid A mimetics	11:15
11:30	**Carlos Alberto Castro Ruiz** *(Canada)* New asymmetric supercapacitor based on high surface area porous MnO2 and activated carbon in Protic Ionic liquids		**Eiliv Steinnes** *(Norway)* Importance of chemical speciation on the mobility of radiocaesium in the terrestrial environment	**General discussion**	**Vito Gallo** *(Italy)* Reactions of a phosphinito bridged diplatinum(I) complex with coinage metal electrophiles	**Alessio Garrone** *(Germany)* The light makes it works. Molecular reaction dynamics investigation at ultrafast time scale on NADPH: protochlorophyllide oxidoreductase	**Thomas Hendel** *(Germany)* Mixed aerogels from metal and semiconductor nanoparticles	**Hermann A. Wegner** *(Switzerland)* Bidentate Lewis Acid Catalysis – A New Entry to Highly Substituted Naphthalenes	**Ernst Horkel** *(Austria)* Fluorescence spectra prediction of oligothiophene derivatives: color tuning by substituent variation	**Dimitrios Zaouris** *(United Kingdom)* UV photodissociation dynamics of thioanisoles: The effect of substitution	**Hana Svobodova** *(Finland)* Design, preparation, and study of steroid-based gelators, their gels and metallogels	**Balazs Nemeth** *(Hungary)* Complexation of primary amines with borane or trimethylaluminum	11:30
11:45-12:00	**Break**	**Break**	**Break**	**Break**	**Break**	**Break**	**Break**	**Break**	**Break**	**Break**	**Break**	**Break**	**11:45-12:00**

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	Analytical chemistry Electrochemistry, Analysis, Sample manipulation *Brett Christopher M.A., Convener*	Education and History, Professional chemists Ethics, Employability, Labels *Facchetti Sergio, Convener*	Environment and Green Chemistry *Giger Walter, Convener*	Food Chemistry Food/Agriculture/Agrochemistry/Nanotechnology, food and processing *Wedzicha Bronek, Convener*	Inorganic Chemistry plus Young inorganic chemistry day *van Eldik Rudi, Convener*	Life Sciences SANOFI *Mihovilovic Marko, Convener*	Nanochemistry/ Nanotechnology/ Molecular machines, Carbon tubes, sheets, balls *Credi Alberto, Convener*	Organic Chemistry, Polymers *Muellen Klaus, Convener*	Organic Chemistry, Polymers *Muellen Klaus, Convener*	Physical, Theoretical and Computational Chemistry *Eisenstein Odile, Convener*	Solid State Chemistry Materials chemistry / New materials *Sozzani Piero, Convener*	Special Symposium: Jam Session plus Young National Winners in Bio-Organic Chemistry *Drašar Pavel, Convener*	
	Electroanalytical methods - II *Chair: Leif Nyholm*	**Ethics and Employability of Professional Chemists - II** *Chair: Sergio Facchetti*	**Environmental Radiochemistry "Environmental studies using radionuclides"** *Convener: Heinz Gäggeler* *Chairs: Jan John, Heinz Gäggeler*	**Analytical chemistry supports sustainable food production** *Chair: Jane Parker*	**New trends in organometallic chemistry - II**	**Biocatalysis Session - II** *Chair:*	**Nanochemistry, nanotechnology and nanostructured materials - II** *Chair: Ben Feringa*	**Organometallic Chemistry, catalysis, new frontiers - II**	**Physical organic methods - II** *Chair: Sijbren Otto*	**Novel Materials - II** *Chair: Juan Manuel Garcia-Ruiz*	**Self-assembly, Molecular Recognition and Biomaterials - II** *Chair: Ehud Gazit*	**Special symposium - II**	
12:00	**Christopher M.A. Brett** *(Portugal)* Materials strategies for electroanalytical sensors and biosensors	**Antonio De Pace** *(Italy)* Flexible and Multidisciplinary training of young Chemists	**Markus Ammann** *(Switzerland)* Chemistry on Aerosol Particles and Ice	**Hans Steinhart** *(Germany)* Analytical Chemistry Supports Sustainable Food Production	**Olivier Roubeau** *(Spain)* Triazole and tetrazole Fe(II) coordination compounds exhibiting spin crossover.	**Kurt Faber** *(Austria)* Biocatalytic Carboxylation	**Hanadi Sleiman** *(Canada)* Three-Dimensional DNA Nanostructures for Biological and Materials Applications	**Thomas Ward** *(Switzerland)* Artificial metalloenzymes based on biotin-avidin technology: Recent advances and challenges	**AnnMarie O'Donoghue** *(United Kingdom)* Probing proton transfer reactions in catalysis: physical organic tools	**Petra Rudolf** *(Netherlands)* The hybrid Langmuir-Schaefer deposition – a new bottom-up approach to create low dimensional functional nanostructures	**Akira Harada** *(Japan)* Macroscopic self-assembly and self-healing through molecular recognition	**Daniel Rozbesky** *(Czech Republic)* Chemical cross-linking and Hydrogen/Deuterium exchange as an alternative approach to studying the protein structure	12:00
12:15												**Filip Hessler** *(Czech Republic)* Synthesis of Ferrocenestrone	12:15
12:30	**Eric Pasquinet** *(France)* Nitromethane electrochemical sensing method for an explosive trace detector by concentration in liquid media	**Guillaume Poisson** *(France)* Young chemist expectations from a career in IndustryWhat do young graduates want from a job in Industry?	**Alexander Zapf** *(Switzerland)* Radiocarbon dating of ice cores	**Hassan Hassan** *(Egypt)* 14C- ethion Residues in Soybean Seeds: Metabolic pathway, Effect of Processing, Bioavailability, Toxicity and Protective Action of artichoke leaves powder towards Experimental Animals	**Stefano Zacchini** *(Italy)* Bimetallic molecular carbonyl clusters containing interstitial carbide atoms: structural features and physical properties	**Florian Capito** *(Germany)* Feasibility of attenuated total reflexion spectroscopy in monitoring and quantification of antibody and host cell proteins using mammalian cell culture	**Mauri Kostiainen** *(Finland)* Self-assembly and optically triggered disassembly of dendron-virus complexes	**Ivana Fleischer** *(Germany)* Alternative methods for carbonylation reactions of alkenes and alkynes	**Guillaume Bastien** *(France)* Synthesis and dynamics of crystalline polyfunctional chiral rotors	**Vitalina Kukueva** *(Ukraine)* Theoretical search for environmentally friendly fire extinguishing substances	**Angiolina Comotti** *(Italy)* Charge-assisted hydrogen bonds and weak intermolecular interactions as tools to fabricate complex supramolecular architectures	**Vladimir Khripach** *(Belarus)* Brassinosteroids, synthetic challenge for human medicine	12:30
12:45	**Jacobus Van Staden** *(Romania)* Nanotechnology and multianalyte platform flow systems		**Jiri Janata** *(USA)* Nuclear Footprint	**Bahira Hegazi** *(Egypt)* Fate of Ethion in selected organs of crayfish	**Guillaume Izzet** *(France)* Tailor-made photosensitized polyoxometalates; towards the development of devices for photocumulative electron transfer	**Ulf Hanefeld** *(Netherlands)* Michael Addition of Water: an Enzymatic Enantioselective Approach	**Laura Maggini** *(Belgium)* Supramolecular functionalsiation of MWCNTs with Eu(III) complexes: novel luminescent materials for photonic applications	**Alex Szpilman** *(Israel)* Design and Catalytic Activity of Nitroxide OrganoCatalysts	**Han Zuilhof** *(Netherlands)* Tuning of transparant substrates: selective anti-biofouling and/or specific cell growth onto ITO via organic monolayers.	**Bruno Morain** *(Germany)* Influence of support confinement on ionic liquid crystal based catalysts			12:45
13:00-14:00	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**13:00-14:00**

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SESSION	**Electroanalytical methods - III** *Chair: Jiri Janata*	**Chemistry for Cultural Heritage** *Chair: Kim Simonsen*	**Environmental Radiochemistry "Speciation of actinides in the environment"** *Convener: Heinz Gäggeler* *Chairs: Jan John, Heinz Gäggeler*	**Microconstituents and analysis** *Chair: Hans Steinhart*	**New trends in organometallic chemistry - III**	**Biocatalysis Session - III** *Chair:*	**Nanoscale particles, cages, sheets and tubes - I** *Chair: Itamar Willner*	**Organometallic Chemistry, catalysis, new frontiers - III**	**Physical organic methods - III** *Chair: AnnMarie O'Donoghue*	**Biointerface and Colloids** *Chair: Petra Rudolf*	**Self-assembly, Molecular Recognition and Biomaterials - III** *Chair: Lia Addadi*	**Special symposium - III**	**SESSION**
14:00	**Leif Nyholm** *(Sweden)* Electrochemistry coupled to electrospray mass spectrometry	**Sona Strbanova** *(Czech Republic)* Preserving scientific heritage: Prague monuments related to history of chemistry	**Tobias Reich** *(Germany)* Environmental applications of XAFS spectroscopy	**Jane Parker** *(United Kingdom)* The role of the flavour chemist in maintaining sustainable food production	**Valerio Zanotti** *(Italy)* C-C bond forming reactions at bridging ligands in diiron complexes	**Sergio Riva** *(Italy)* The quest for mild and efficient oxidative agents: synthetic exploitation of laccases	**Makoto Fujita** *(Japan)* Reaction and Property Control in Self-assembled Coordination Cages	**Vincent Gandon** *(France)* Well-Defined Cationic Gallium(III) Complexes: a New Tool in Organic Synthesis	**Carlos Afonso** *(Portugal)* EFFICIENT CATALYST REUSE BY DISSOLUTION IN NON-CONVENTIONAL MEDIA	**Juan Manuel Garcia-Ruiz** *(Spain)* Inorganic routes to self-assembled complex shapes	**Nadrian Seeman** *(USA)* DNA materials and nanomachines	**Bruce Lipshutz** *(USA)* Need to make a bond? Try it in water at room temperature	14:00
14:30	**Jiri Barek** *(Czech Republic)* Possibilities and limitaions of amalgam electrodes	**Miroslav Novák** *(Czech Republic)* Alchemical Cryptography	**Melissa A. Denecke** *(Germany)* Actinide and lanthanide speciation with X-ray spectroscopy: micro- to nano- and other dimensions	**Manos Vlasiou** *(Cyprus)* Characterization of Cypriot honeys by using nuclear magnetic resonance Spectroscopy	**Javier Garcia Martinez** *(Spain)* Sol-gel Coordination Chemistry: A Novel Approach to Incorporate Chemical Functionality in Porous Materials	**Michael J. Fink** *(Austria)* Quantitative comparison of chiral catalysts' selectivity and performance:a generic concept illustrated with cyclododecanone monooxygenaseas Baeyer-Villiger biocatalyst	**Harry Anderson** *(United Kingdom)* Templated Synthesis of Molecular Wire Nanorings	**Martin Wills** *(United Kingdom)* New Ru(II) catalysts for the asymmetric reduction of ketones.	**Denis Ermolatev** *(Belgium)* Microwave-Assisted Cu(I)-Catalyzed Coupling of Amines, Aldehydes and Acetylenes	**Jorge Arenas-Valganon** *(Spain)* Homotaurine nitrosation: a kinetic study	**Kenneth Harris** *(United Kingdom)* Fundamental and applied aspects of solid organic inclusion compounds	**Peter Tisovsky** *(Slovak Republic)* Strategies, design and synthesis of highly electroluminescent devices made with a conveniently synthesised 2-thienyl -2? - (1H-pentafluorophenyl) pyrrole building blocks	14:30
14:45	**Guzel Ziyatdinova** *(Russia)* Voltammetry of antioxidants in surfactant media and its analytical application			**Chryssoula Drouza** *(Cyprus)* New Method for the analysis of olive oil using 19F NMR Spectroscopy	**Luis Oro** *(Spain)* Ammonia Activation Processes Leading to Novel Amido and Imido Iridium and Rhodium Complexes	**Katharina Neufeld** *(Germany)* From rings and chains – synthesis of high value compounds via monooxygenase-catalysed reactions		**Mario Waser** *(Austria)* Design, Syntheses and Applications of TADDOL-Derived Asymmetric Phase-Transfer Catalysts	**Jonathan Bryant** *(Germany)* A series of bis-triazolyl benzochalcogendiazole trimers and their use as metal ion sensors	**Tomas Bleha** *(Slovak Republic)* Detection of chain backfolding in simulation of DNA in nanofluidic channels		**Sylwia Studzinska** *(Poland)* Retention mechanism of nucleotides and their separation with the use of high performance liquid chromatography	14:45
15:00	**Ana Maria Oliveira-Brett** *(Portugal)* Electroanalytical detection of cyanobacterial hepatotoxins microcystin-LR and nodularin and their interaction with DNA		**Robin Steudtner** *(Germany)* Uranium Chemistry in Cit+B24ric Acid Solution	**Augustin-Catalin Mot** *(Romania)* The free radical involved in the oxidation of flavonoids by laccase. An assay for pro-oxidant reactivity	**Armando Pombeiro** *(Portugal)* Metal-catalyzed, metal-promoted and metal-free functionalization of alkanes	**Marco Fraaije** *(Netherlands)* Knowledge-based (re)design of flavin-containing biocatalysts	**Salvatore Zarra** *(United Kingdom)* Guanidinium binding modulates guest exchange within a metal-organic tetrahedral capsule	**Nuno Maulide** *(Germany)* Catalytic molecular rearrangements as tools for C-C bond formation	**Eric Pasquinet** *(France)* Nitroaromatic explosives sensing using non porous, nano-organized fluorescent oligophenyleneethynylene films: how does it work ?	**Mario Gonzalez Jimenez** *(Spain)* New kinetic studies of the nitrosation of complex molecules	**Jaume Veciana** *(Spain)* Towards charge storage memory devices based on electroactive organic molecules	**Jay Siegel** *(Switzerland)* Functional Molecules Based on Aromatic Architectures	15:00
15:15	**Raluca-ioana Stefan-van Staden** *(Romania)* Simultaneous neurotransmitters analysis using microelectrodes based on porphyrins		**Katharina Gueckel** *(Germany)* Comparative investigation of the neptunium(V) sorption onto gibbsite by means of ATR FT-IR spectroscopy	**Leticia Goncalves** *(Brazil)* Antiradical Capacity and Redox Potential of Phenolic Betalains			**Haralampos Miras** *(United Kingdom)* Oscillatory template exchange in polyoxometalate capsules: A ligand triggered, redox powered, chemically damped oscillation	**Junichiro Yamaguchi** *(Japan)* Synthesis of Biologically Active Compounds via Direct Arene-Assembling Reaction	**Joeri Kuil** *(Netherlands)* Phosphorescent iridium complexes conjugated to CXCR4-targeting peptides for lifetime imaging	**Victoria Mooney** *(USA)* Low-temperature, solid-state NMR of the V49A bacteriorhodopsin mutant			
15:30-16:00	**Coffee Break**	**Coffee Break**	**Coffee Break**	**Coffee Break**	**Coffee Break**	**Coffee Break**	**Coffee Break**	**Coffee Break**	**Coffee Break**	**Coffee Break**	**Coffee Break**	**Coffee Break**	**15:30-16:00**
16:00-17:00	**Plenary Session: Manfred T. Reetz** (Philipps-University Marburg): Directed Evolution of Stereoselective Monooxygenases as Catalysts in Organic Chemistry												16:00-17:00
17:00-19:00		**Poster session**	**Poster session**			**Poster session**	**Poster session**		**Poster session**	**Poster session**	**Poster session**		**17:00-19:00**
19:00	**Students and doctoral candidates will get together with scientists**												**19:00**

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08:00-19:00	**Registration**												08:00-19:00
09:00-10:00	**Plenary Session: Bonačić-Koutecký Vlasta** (Humboldt Universität zu Berlin, DE): Simulation and Control of Photochemistry												09:00-10:00
10:00-10:30	**Coffee Break**	**Coffee Break**	**Coffee Break**	**Coffee Break**	**Coffee Break**	**Coffee Break**	**Coffee Break**	**Coffee Break**	**Coffee Break**	**Coffee Break**	**Coffee Break**	**Coffee Break**	**10:00-10:30**
SESSION	**Separation methods - I** *Chair: Wolfgang Lindner*	**European Chemistry Thematic Network - I** *Chair: Paul Yates*	**Mining and the Environment "Biogeochemical processes governing mining"** *Convener: Jürg Zobrist* *Chairs: Jürg Zobrist, Mihaela Sima*	**EYCN - The art of writing** *Chairs: Frederique Backaert*	**Water, contaminants and food waste** *Chair: J.C. Hanekamp*	**Inorganic/bioinorganic reaction mechanisms - I** *Chair:*	**Life Science Multisymposium - I** *Chair: Madder Annemieke*	**Molecular devices and machines** GDCh *Chair: Alberto Credi*	**Organometallic Chemistry, catalysis, new frontiers - IV** *Chair: Alois Fuerstner*	**Polymer chemistry - I** *Chair: Yusuf Yagci*	**Theoretical Chemisry - I** *Chair: Odile Eisenstein*	**Supramolecular Chemistry and Nanostructured Materials - I** *Chair: Mir Wais Hosseini*	**SESSION**
10:30	**Frank Svec** *(USA)* Monolithic columns for HPLC: Use of nanoscience to tailor their porosity and chemistry	**Antony Smith** *(France)* The role of ECTN and EC2E2N in the development of Higher education in chemistry in Europe	**Bernhard Dold** *(Germany)* Sustainability in metal mining from the exploration, through exploitation to final waste management - The biogeometallurgical approach	**Santiago Gomez-Ruiz** *(Spain)* The art of writing: From tell to sell	**Hessy Taft** *(USA)* Sustaining Water Resources in Agriculture	**Alexander Ryabov** (USA) Green Mechanistic Challenges of Catalysis via TAML Iron(IV)- and Iron(V)oxo Species (TAML = TetraAmidoMicrocyclic Ligand)	**Hiroshi Sugiyama** *(Japan)* Chemical biology of nucleic acids	**Fraser Stoddart** *(USA)* From Molecular Switches to Molecular Machines	**Mark Gandelman** *(Israel)* New bonding and reactivity in synthetic chemistry	**Nikos Hadjichristidis** *(Saudi Arabia)* Multicompartment micelles from multiblock multicomponent polymers in selective solvents	**Pekka Pyykko** *(Finland)* Recent examples on relativistic effects in chemistry	**Jerry Atwood** *(USA)* Frustrated' organic solids	10:30
11:00	**Pavel Jandera** (Czech Republic) Separations of ""difficult"" polar compounds: Avantages and pitfalls of aqueous normal-phase and reversed-phase liquid chromatography	**Antonio Lagana** *(Italy)* Virtual communities in Science and Education	**D. Barrie Johnson** *(United Kingdom)* Using bioprocessing technologies to reduce the environmental impact of metal mining on the environment		**Carmen Hura** *(Romania)* Heavy Metals Levels in Soil and Vegetables in Different Growing Systems	**Iztok Turel** *(Slovenia)* Physicochemical studies and anticancer potency of ruthenium(p-cymene) complexes containing antibacterial quinolones	**Silke Fahnemann** *(Germany)* New Bispidine-Derivative for dual-modality imaging	**Massimo Baroncini** *(Italy)* Photoactivated Directionally Controlled Transit of a Non-Symmetric Molecular Axle Through a Macrocycle	**Sabine Grupe** *(Germany)* The Iron app – practicable Iron-catalyzed C-C and C-H bond formations	**Sophie Bistac** *(France)* Crystalline Properties of PVAc-b-PCL block copolymers : influence of the synthesis route	**Stephan Steinmann** *(Switzerland)* Why are the interaction energies of charge-transfer complexes challenging for DFT?	**Giuseppe Resnati** *(Italy)* Reactivity in halogen bonded crystalline materials	11:00
11:15	**Slavica Razic** *(Serbia)* Analysis of volatile fraction of Thymus pannonicus and correlations with innorganic plant composition by static headspace gas chromatography, mass spectrometry and atomic spectrometry			**Santiago Gomez-Ruiz** *(Spain)* Writing proposals efficiently and effectively	**Mark Gronnow** *(United Kingdom)* Alternative methods of adding value to food waste	**Lars Valentin** *(Germany)* Reactivity of Ni(0)-complexes towards alkenes and alkynes	**Roberto Corradini** *(Italy)* Multifunctional Peptide Nucleic Acids (PNA) for MicroRNA targeting	**Victor Blanco Suarez** *(United Kingdom)* A rotaxane-based switchable organocatalyst	**Stephen Thomas** *(United Kingdom)* Iron-Catalysed, Hydride-Mediated Reductive Cross-Coupling	**Alfonso Grassi** *(Italy)* Sulfonation of polybutadiene and butadiene-styrene copolymers as versatile route for the production of polyelectrolytes and ionomers with enhanced thermal stability and controlled morphology	**Shunnian Wu** *(Singapore)* Adjusting electronic structure and conductive properties of Li3N via phosphorus and arsenic substitution		11:15
11:30	**Agnes Melanie Funa** (United Kingdom) Development of hydrophilic interaction liquid chromatography (HILIC) stationary phases in monolithic capillary formats	**Antonio Lagana** *(Italy)* e-TOOLS FOR THE CHEMSITRY VIRTUAL EDUCATION COMMUNITY	**Annika Parviainen** *(Finland)* Geochemical and mineralogical implications at decommissioned mine tailings for choosing a remediation scheme			**Alexander Schiller** *(Germany)* NO and CO releasing materials	**Anselm H. C. Horn** *(Germany)* Single versus double layer fibrillar amyloid-beta oligomers: size does matter	**Jean Wilfried Fredy** *(France)* Design and Synthesis of Polyrotaxanes for Bimodal Imaging	**Joaquim Fernando Mendes da Silva** *(Brazil)* Use of magnetite nanoparticles as catalyst for C-C and C-N coupling reactions under microwave irradiation	**Javier Sanchez-Nieves** *(Spain)* Amphiphilic cationic Carbosilane-PEG dendrimers: synthesis and applications in gene therapy	**Jiri Klimes** *(Austria)* Importance of van der Waals forces to surface studies	**Yasuhide Inokuma** *(Japan)* Solution-like chemistry in crystals of networked molecular hosts	11:30
11:45-12:00	**Break**	**Break**	**Break**	**Break**	**Break**	**Break**	**Break**	**Break**	**Break**	**Break**	**Break**	**Break**	**11:45-12:00**

28.8	Analytical chemistry Electrochemistry, Analysis, Sample manipulation *Brett Christopher MA, Convener*	Education and History, Professional chemists Ethics, Employability, Labels *Facchetti Sergio, Convener*	Environment and Green Chemistry *Giger Walter, Convener*	European Young Chemists' Network *Fluxa Viviana, Convener*	Food Chemistry Food/Agriculture/Agrochemistry/Nanotechnology, food and processing *Wedzicha Bronek, Convener*	Inorganic Chemistry plus Young inorganic chemistry day *van Eldik Rudi, Convener*	Life Sciences SANOFI *Mihovilovic Marko, Convener*	Nanochemistry/ Nanotechnology/ Molecular machines, Carbon tubes, sheets, balls *Credi Alberto, Convener*	Organic Chemistry, Polymers *Muellen Klaus, Convener*	Organic Chemistry, Polymers *Muellen Klaus, Convener*	Physical, Theoretical and Computational Chemistry *Eisenstein Odile, Convener*	Solid State Chemistry Materials chemistry / New materials *Sozzani Piero, Convener*	
	Separation methods - II *Chair: Frank Svec*	**European Chemistry Thematic Network - II** *Chair: Paul Yates*	**Mining and the Environment "Remediation of pollution"** *Convener: Jürg Zobrist* *Chairs: Jürg Zobrist, Mihaela Sima*	**EYCN - Putting your degree to work** *Chair: Frederique Backaert*		**Inorganic/bioinorganic reaction mechanisms - II** *Chair:*	**Life Science Multisymposium - II** *Chair:*	**Molecular devices and machines - II** *Chair: Maurizio Prato*	GDCh **Organometallic Chemistry, catalysis, new frontiers - V** *Chair: Mark Gandelman*	**Polymer chemistry - II** *Chair: Ullrich Scherf*	**Theoretical Chemisry - II** *Chair: Xavier Assfeld*	**Supramolecular Chemistry and Nanostructured Materials - II** *Chair: Miyata Mikiji*	
12:00	**Boguslaw Buszewski** *(Poland)* New fibers for SPME and LC/MSn monitoring of selected drugs and their metabolites	**Evangelia Varella** *(Greece)* Teaching Key Competences to Chemistry Students – An Initiative in the Frame of the European Chemistry Thematic Network	**Carlos Ayora** *(Spain)* Acid Mine Drainage in the Iberian Pyrite Belt: sources and remediation strategies	**Sarah Hobbs** *(United Kingdom)* Putting your degree to work	**5 minute presentations by authors of posters to give preview of poster session**	**Wonwoo Nam** **(***South Korea)* Structural and spectroscopic characterization and reactivities of metal-oxygen intermediates	**Hubbell Jeffrey** *(Switzerland)* Nanomaterial and Protein Engineering for Modulating Immune Responses	**Ben Feringa** *(Netherlands)* Molecular rotary motors	**Alois Fuerstner** *(Germany)* Catalysis for total synthesis	**Yusuf Yagci** *(Turkey)* Photo, Electro, Bio and Thermally Functional Polymers by Click Chemistry	**Benedetta Mennucci** *(Italy)* QM/classical methods to describe properties and processes of excited states in complex environments	**Mir Wais Hosseini** *(France)* Perspectives in molecular tectonics	12:00
12:30	**Michael Raessler** *(Germany)* Chromatographic determination of carbohydrates in plants – an overview of several attempts	**Evangelia Varella** *(Greece)* Intensive Schools and Units on Languages for Specific Purposes – Hybrid Educational Initiatives in the Frame of the European Chemistry Thematic Network	**Oriol Gibert** *(Spain)* Performance of a biological permeable reactive barrier for in-situ remediation of acid mine drainage: successes and shortcomings			**Anastasios Keramidas** *(Cyprus)* Novel hydroquinonate/p-semiquinonate vanadium(IV/V) bioinorganic models, effective catalysts for the selective reduction of O2 to H2O2	**Felix Weiher** *(Germany)* Synthesis, properties, and applications of covalently tethered minicollagens	**Gero Harzmann** *(Switzerland)* An applied voltage-triggered single molecular spin switch	**Johan Van der Eycken** *(Belgium)* A modular approach to chiral imidates: a new class of nitrogen-based chiral ligands	**Regis Gauvin** *(France)* Catalysts immobilization : a simple and efficient tool to enforce stereoselective production of commodity and biodegradable polymers	**Ravi Fernandes** *(Germany)* Towards a detailed combustion model for Furan and its derivatives through Theoretical Study of their H-abstraction rate constants	**Christof Woell** *(Germany)* Interfacial Systems Chemistry: Surface-templated assembly of three-dimensional functional frameworks.	12:30
12:45	**Yury Tsybin** *(Switzerland)* Molecular structure on the balance in the XXI century – rapid high resolution and tandem mass spectrometry		**Akos Redey** *(Hungary)* The red mud disaster of Ajka in Hungary and its consequences			**Ralph Puchta** *(Germany)* Apparent or real? The interesting case of water exchange reactions on [Zn(H2O)4(L)]2+•2H2O (L = nitrogen donor ligands)	**Olalla Vázquez Vázquez** *(Spain)* DNA recognition: new specific agents and fluorescent probes	**Adeline Pujol** *(France)* Design and synthesis of molecular devices for insulating surfaces	**Syuzanna Harutyunyan** *(Netherlands)* Taming the reactivity of organometallic reagents in asymmetric catalysis: new vistas in copper(I) chemistry		**Mazharul M Islam** *(Germany)* Theoretical study for lithium diffusion in solid state materials		
13:00-14:00	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break** Sondermann Anne (EVONIK Ind., DE): EYCN CV Clinic (on lunch break)	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**13:00-14:00**

28.8

	Analytical chemistry Electrochemistry, Analysis, Sample manipulation *Brett Christopher MA, Convener*	Education and History, Professional chemists Ethics, Employability, Labels *Facchetti Sergio, Convener*	Environment and Green Chemistry *Giger Walter, Convener*	European Young Chemists' Network *Fluxa Viviana, Convener*	Food Chemistry Food/Agriculture/Agrochemistry/Nanotechnology, food and processing *Wedzicha Bronek, Convener*	Inorganic Chemistry plus Young inorganic chemistry day *van Eldik Rudi, Convener*	Life Sciences SANOFI *Mihovilovic Marko, Convener*	Nanochemistry/ Nanotechnology/ Molecular machines, Carbon tubes, sheets, balls *Credi Alberto, Convener*	Organic Chemistry, Polymers *Muellen Klaus, Convener*	Organic Chemistry, Polymers *Muellen Klaus, Convener*	Physical, Theoretical and Computational Chemistry *Eisenstein Odile, Convener*	Solid State Chemistry Materials chemistry / New materials *Sozzani Piero, Convener*	
SESSION	**Life science, clinical and environmental applications** *Chair: Boguslaw Buszewski*	**European Chemistry Thematic Network - III** *Chair: Antony Smith*	**Mining and the Environment "Assessing environmental impacts"** *Convener: Jürg Zobrist Chairs: Bernhard Dold, D. Barrie Johnson*	**EYCN - Chemethics and eCV** *Chair: Mariana Sardo*	**Sustainable food production - II** *Chair: Martinus van Boekel, J.C. Hanekamp, Jane Parker, Hans Steinhart*	**Inorganic/bioinorganic reaction mechanisms - III** *Chair:*	**Life Science Multisymposium - III** *Chair:*	**Molecular devices and machines - III** *Chair: Dieter Schluter*	**General synthetic methods - I** *Chair: Thorsten Bach*	**Polymer chemistry - III** *Chair: Bernadette Charleux*	**Theoretical Chemisry - III** *Chair: Sason Shaik*	**Supramolecular Chemistry and Nanostructured Materials - III** *Chair: Piero Sozzani*	**SESSION**
14:00	**Wolfgang Lindner** *(Austria)* Enantioselective Chromatography, a Key Technology in Life Sciences	**Terence Mitchell** *(Germany)* A Roadmap for Eurolabels in Chemistry	**Nada Rapantova** *(Czech Republic)* Impact of Uranium Mines Closure and Abandonment on Groundwater Quality	**Alexandre Quintanilha** *(Portugal)* Ethics in science and technology	**J.C. Hanekamp** *(Netherlands)* 'Thought for Food': Chemistry as the Bridge between the Molecular and the Global	**Ivana Ivanovic-Burmazovic** *(Germany)* Catalytic transformation of superoxide, nitric oxide, peroxynitrite and hydrogen sulfide for medical and industrial applications	**C. I. Edvard Smith** *(Sweden)* Oligonucleotides for splice-switching and strand-invasion	**Itamar Willner** *(Israel)* DNA nanomachines and nanodevices	**Dieter Enders** *(Germany)* Asymmetric Organocatalytic Domino Reactions	**Ullrich Scherf** *(Germany)* Synthesis as key towards improved (opto)electronic materials	**Walter Thiel** *(Germany)* Theoretical Studies of Enzymatic Reactions	**Mikiji Miyata** *(Japan)* Supramolecular-tilt-chirality for designing organic crystals and polymers	14:00
14:15			**Mihaela Sima** *(Romania)* The impact of metal mining on selected river systems in Romania										
14:30	**Elena Savonina** *(Russia)* Dynamic Methods for Fractionation of Trace Metals and Metalloids in the Speciation Analysis of Soils and Sediments: a Comparative Study	**Reiner Salzer** *(Germany)* Entrepreneurial attitude: What we already teach and what not (yet)	**Eleonore Resongles** *(France)* Past and current metal and metalloid contamination from abandoned mining sites in the surface waters of the Gardon River watershed (Southeastern France)		**Bronek Wedzicha** *(United Kingdom)* Mathematical models: a key tool in sustainable food production	**Maria Strianese** (*Italy)* A FRET enzyme-based probe for monitoring hydrogen sulfide	**Bruno Pignataro** *(Italy)* Ink-jet printing for drug screening by droplet microarrays	**Devens Gust** *(USA)* Analog and digital control of molecular function by photochromes	**Filip Sembera** *(Czech Republic)* Acetylenes carryin fluorinated carborate anions	**Torben Peters** *(Germany)* Synthesis and performance of polythiophene bearing thermocleavable solubilizing side chains	**Merle Roehr** *(Germany)* Optical Properties and Ultrafast Dynamics of Porphyrin Arrays	**Luisa De Cola** *(Germany)* Mesoporous and microporous materials for biomedical applications	14:30
14:45	**Paul Worsfold** *(United Kingdom)* Investigating trace element speciation in the marine environment using chemical separation strategies combined with spectrometric detection		**William Mayes** *(United Kingdom)* Mine water geochemistry and metal flux in a major historic Pb-Zn-F orefield			**Stefan Pfirrmann** (United Kingdom) New Insights into the Polymerisation Mechanisms for Polyphosphazene Precursors	**Savvas Georgiades** *(Cyprus)* Design and synthesis of novel G-quadruplex DNA stabilizing molecules		**Matthias D'hooghe** *(Belgium)* Regio- and stereoselective ring transformations of small-ring azaheterocycles via aziridinium and azetidinium intermediates	**Ahmed Iraqi** *(United Kingdom)* New low energy gap polymers for application in solar cells	**Lente Gabor** *(Hungary)* Stochastic kinetic modeling of the Soai reaction		14:45
15:00	**Vaclav Kasicka** *(Czech Republic)* Chiral analysis of acyclic nucleoside phosphonates-based anti-AIDS drugs by capillary electrophoresis	**Paul Yates** *(United Kingdom)* The Eurolecturer award for chemistry and chemical engineering university teachers	**Nebojsa Atanackovic** *(Serbia)* Hydrochemical Characteristics of Mine Waters from Abandoned Mines in Serbia and Their Impact on the Environment	**Marta Agostinho** *(Portugal)* Your e-CV: Optimizing social media	**Livia Simon Sarkadi** *(Hungary)* Effect of high hydrostatic pressure on biogenic amine formation in fermented foods	**Istvan Fabian** *(Hungary)* Redox reactions of the peroxomonosulfate ion in the ferroin/ferriin system	**Marc Greenberg** *(USA)* DNA damage chemistry in nucleosome core particles	**Paola Ceroni** *(Italy)* Light-harvesting antennae based on luminescent dendrimers	**Makoto Shimizu** *(Japan)* Umpoled Tandem Reaction of Alpha-Imino Esters	**Martin D. Hager** *(Germany)* Self-healing polymer coatings based on the (retro) Diels-Alder reaction	**Ilya Vorotyntsev** *(Russia)* An IR and DFT study of ammonia interaction with fossil pattern in KBr matrix	**Vincenzo Schettino** *(Italy)* Chemical reactions of molecular crystals and aggregates under high pressures	15:00
15:15	**Dodzi Zigah** (France) An original method to produce Janus micro- and nanoparticles in the bulk phase		**Maria Hojdova** *(Czech Republic)* Legacy mercury in soils and tree rings in the Czech Republic		**Summary of conference and conclusion**			**Carmen Villegas** *(Spain)* A Hybrid Donor-Acceptor1-Acceptor2 Triad based on Different Electron Accepting Fullerenes	**Wojciech Dzik** *(Germany)* Decarboxylative Etherification of Aromatic Carboxylic Acids	**Maria Luísa Cardoso do Vale** *(Portugal)* Design and synthesis of novel serine based gemini surfactants: How does structural modification affect micellization and cytotoxicity	**Masaki Hiratsuka** *(Japan)* Car-Parrinello molecular dynamics simulations with Grimme vdW correction for clathrate hydrates consisting of alcohol and fluorocarbon molecules		15:15
15:30-16:00	**Coffee Break**	**Coffee Break**	**Coffee Break**	**Coffee Break**	**Coffee Break**	**Coffee Break**	**Coffee Break**	**Coffee Break**	**Coffee Break**	**Coffee Break**	**Coffee Break**	**Coffee Break**	**15:30-16:00**
16:00-17:00	**Plenary Session: Wüthrich Kurt** (The Scripps Research Institute, La Jolla, USA): NMR– Where Physical Chemistry Meets Biology and Medicine												16:00-17:00

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SESSION			**Environmental Chemistry "Emerging contaminants, POPs, phototransformation"** *Convener: Walter Giger* *Chairs: Walter Giger, Fritz H. Frimmel, Herve Sirna*					*Chair: Schlueter Dieter*				*Chair: Piero Sozzani*	**SESSION**
17:00	**Poster session**		**Allan Astrup Jensen** *(Denmark)* Hexabromocyclododecane (HBCDD) - a brominated flame retardant used in polystyrene insulation		**Poster session**			**Poster session**	**Poster session**	**Poster session**		**Poster session**	**17:00**
17:15			**Roland Kallenborn** *(Norway)* Quantitative Monitoring of persistent organic pollutants in background Antarctic air: monitoring at the Norwegian Troll Atmospheric Research station										**17:15**
17:30			**Md. Iqbal Rouf Mamun** *(Bangladesh)* Residues of DDT and its metabolites in food and environmental samples of Bangladesh										**17:30**
17:45			**Christian Gagnon** *(Canada)* Distribution, fate and bioavailability of antidepressants and their metabolites in wastewater effluents and aquatic environment										**17:45**
18:00			**Kai Bester** *(Denmark)* Dynamics of biocide and biocide metabolite concentrations in storm water in a residential catchment area										**18:00**
18:15			**Elena Appiani** *(Switzerland)* Assessing the indirect photoreaction of particle-bound pollutants										**18:15**
18:30			**Katalin Osz** *(Hungary)* Kinetic studies on the photo-oxidation reaction of water by quinones										**18:30**
18:45			**Waleed M.M. Mahmoud Ahmed** *(Germany)* Photodegradation of thalidomide: Identification of transformation products by LC-UV-FL-MS/MS, assessment of biodegradability, cytotoxicity and mutagenicity										**18:45**
19:00-22:00						**Congress Dinner**							**19:00-22:00**

29.8

	Analytical chemistry Electrochemistry, Analysis, Sample manipulation *Brett Christopher MA, Convener*	Education and History, Professional chemists Ethics, Employability, Labels *Facchetti Sergio, Convener*	Environment and Green Chemistry *Giger Walter, Convener*	European Young Chemists Award 2012 *(sponsored by CNC and SCI)* *Pignataro Bruno, Convener*	Inorganic Chemistry plus Young inorganic chemistry day *van Eldik Rudi, Convener*	Life Sciences SANOFI *Mihovilovic Marko, Convener*	Nanochemistry/ Nanotechnology/ Molecular machines, Carbon tubes, sheets, balls *Credi Alberto, Convener*	Organic Chemistry, Polymers *Muellen Klaus, Convener*	Organic Chemistry, Polymers *Muellen Klaus, Convener*	Physical, Theoretical and Computational Chemistry *Eisenstein Odile, Convener*	Solid State Chemistry Materials chemistry / New materials *Sozzani Piero, Convener*	
08:00-19:00	**Registration**											08:00-19:00
09:00-10:00	**Plenary Session: Tsien Roger Y.** (Howard Hughes Medical Institute La Jolla, USA): Breeding and building molecules to image cells, electric fields, and disease processes											09:00-10:00
10:00-10:30	**Coffee Break**	**Coffee Break**	**Coffee Break**	**Coffee Break**	**Coffee Break**	**Coffee Break**	**Coffee Break**	**Coffee Break**	**Coffee Break**	**Coffee Break**	**Coffee Break**	**10:00-10:30**
SESSION	**Spectrometric methods - I** *Chair: Lisa Hall*	**History of Chemistry** *Chair: Ilka Parchmann*	**Environmental Chemistry "Metals, transformation"** *Chairs: Philippe Garrigues, Allan Astrup Jensen*	**Presentation of finalists - I** *Chair: Bruno Pignataro*	**Symposium on CO2 chemistry - I** *Chair:*	**Medicinal Chemistry session - I** *Chair: Jitka Ulrichova*	**Nanoscale particles, cages, sheets and tubes - II** *Chair: Francisco Raymo*	**General synthetic methods - II** *Chair: Dieter Enders*	**Polymer chemistry - IV** *Chair: Nikos Hadjichristidis*	**Computational Chemistry - I** *Chair: Walter Thiel*	**Nanoporous Materials - I** *Chair: Michael Froeba*	**SESSION**
10:30	**Halina Abramczyk** *(Poland)* Mechanisms of energy dissipation and ultrafast primary events in photostable systems: H-bond, excess electron, biological photoreceptors	**Elisa Maia** *(Portugal)* Historical and Philosophical Approaches to the Teaching/Learning of some Fundamental Chemistry Concepts.	**Imad Ahmed** *(United Kingdom)* Testing predictive capabilities of speciation models in freshwaters using a laboratory-assay approach	**FIRST SET OF FINALISTS** *(10 minutes each)* **Baroncini M.** *(Italy)* Photoactivated Directionallz Controlled Transit of a Non-Symmetric Molecular Axle Through a Macrocycle	**Torsten Katz** *(Germany)* CO2 capture from flue gases: existing options and perspectives	**Thorsten Bach** *(Germany)* Stereoselective Access to New Scaffolds by Photochemical Reactions	**Maurizio Prato** *(Italy)* Supramolecular Chemistry with Carbon Nanostructures	**Janine Cossy** *(France)* Synthesis of complex molecules. Problems and solutions	**Bernadette Charleux** *(France)* Polymerization-induced self-assembly of amphiphilic block copolymers in water	**Sason Shaik** *(Israel)* The Valence Bond Way in Chemistry	**Andreas Stein** *(USA)* Controlling and Maintaining the Structure of Templated Porous Materials	10:30
10:45			**Ahmed Messadi** *(France)* Task specific ionic liquids synthesis : application to metal ions extraction	**Collini E.** *(Italy)* Role of chromophores arrangement in coherent energy migration in lightharvesting Complexes								
11:00	**Günter Gauglitz** *(Germany)* Direct optical detction of biomolecular interaction	**Antonio Marchal** *(Spain)* You are made up of elements. A theatrical performance of the periodic table of the elements for the researchers night	**Claudia B. Lopes** *(Portugal)* Cork application for cleaning metal contaminated waters	**D'Hooghe M.** *(Belgium)* Regio- and stereo selective ring transformation of small ring aza heterocycles via aziridinium and azetidinium intermediates	**Konstantin Kraushaar** *(Germany)* CO2 - Insertion into Si-N-Bonds - A Mechanistic Study	**Mariam Traore** *(France)* Concise routes for expanding the diversity of selective cyclopeptides histone deacetylase inhibitors	**Mirja Hartmann** *(United Kingdom)* Fabrication, characterisation, and health care applications of carbohydrate-carbon hybrid nanomaterials	**Milan Kivala** *(Germany)* Triangulene-derived push-pull chromophores	**Smahan Toughrai** *(Switzerland)* Synthesis and controlled immobilization of amphiphilic block copolymers on solid supports	**Israel Fernandez** *(Spain)* Dyotropic and Double Group Transfer Reactions: Origins of the Reaction Barriers	**Osamu Terasaki** *(Sweden)* Silica mesoporous crystals with icosahedral and dodecagonal-prism morphologies; multiply twinned or quasicrystalline?	11:00
11:15	**Jakub Hranicek** *(Czech Republic)* Determination of heparin by sequential injection analysis with spectrophotometric and spectrofluorimetric detection	**Marco Taddia** *(Italy)* The international congress of applied chemistry, 1912: different views on the role of science in feeding world population	**Anna Tugarova** *(Russia)* Reduction of selenite to elemental red selenium by the rhizobacterium Azospirillum brasilense	**Inoue S.** *(Germany)* Synthesis, structure and catalytic properties of transition metal complexes with spacer-separated bis-silylene ligands	**Kamil Sokolowski** *(Poland)* Unprecedented alkylzinc carbonate via bio-inspired route involving RZnOH and CO2	**Holger Stephan** *(Germany)* Polyoxometalates as versatile enzyme inhibitors	**Ana Martin-Lasanta** *(Spain)* Synthesis of stapled pi-conjugated helical scaffolds. A bottom-up approach to chiral carbon nanocoils	**Reinhard Neier** *(Switzerland)* *Hydrogenation of heterocyclic calixarenes*	**Maurice Brogly** *(France)* New PDMS-b-PCL and PCL-b-PDMS-b-PCL block copolymers for surface nano and micro-patterning	**Eduard Matito** *(Spain)* Theoretical Characterization and Identification of Electrides		11:15
11:30	**Akimitsu Kugimiya** *(Japan)* Luminol chemiluminescence detection of amino acids with Enzymatic Reactions	**Dusan Velic** *(Slovak Republic)* European Congress? European Society? … and the First Institute of Technology since 1762	**Rebekka Baumgartner** *(Switzerland)* Hydrodefluorination and hydrogenation of polyfluorinated benzenes under mild aqueous conditions	**Devadoss A.J.** *(Germany)* Supramolecular recognition of bioanalytes **Maulide N.** *(Germany)* Catalytic molecular rearrangements as tools for C-C bond formation **Haralampos M.** (United Kingdom) Oscillatory template exchange in polyoxometalate capsules: A ligand triggered, redox	**Simon Kern** *(Germany)* Mechanistic insight from activation parameters for the reaction of a ruthenium hydride complex with carbon dioxide in conventional solvents and an ionic liquid	**Manja Kubeil** *(Germany)* Cyclammonopropionic acid- a promising chelating system for radiocopper isotopes	**Laura Rodriguez Perez** *(Spain)* Electroactive carbon-nanoforms: functionalization and properties	**Bianca Rossi** *(Italy)* One-pot nucleophilic radical addition to ketimines generated in situ	**Joana S. Amaral** *(Portugal)* Chitosan-based leather functional coatings with improved antimicrobial properties	**Daniel Holden** *(United Kingdom)* Understanding the Diffusion of Small Gases through Porous Organic Cage Nanocrystals via Molecular Dynamics Speaker: Daniel Holden (United Kingdom)	**Peter Hesemann** *(France)* Ionosilicas: Periodic mesoporous organosilicas from ionic precursors	11:30
11:45-12:00	**Break**											**11:45-12:00**

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SESSION	**Spectrometric methods - II** *Chair: Halina Abramczyk*	**Education in Chemistry - I** *Chair: Ilka Parchmann*	**Green Chemistry and Energy "Green Chemistry - I"** *Convener: Pietro Tundo* *Chair: Pietro Tundo*	**Presentation of finalists - II** *Chair: Bruno Pignataro*	**Symposium on CO2 chemistry - II** *Chair:*	**Medicinal Chemistry session - II** *Chair: Jitka Ulrichova*	**Nanoscale particles, cages, sheets and tubes - III** *Chair: Hedi Mattoussi*	**General synthetic methods - III** *Chair: Janine Cossy*	**Supramolecular Chemistry - I** *Chair: Enrico Dalcanale*	**Computational Chemistry - II** *Chair: Benedetta Mennucci*	**Nanoporous Materials - II** *Chair: Teng Ben*	**SESSION**
12:00	**Reiner Salzer** *(Germany)* Intra-operative application of vibrational spectroscopy	**Jan Apotheker** *(Netherlands)* How to advertise the perception of chemistry through the IYC?	**Manfred Grasserbauer** *(Austria)* The Climate and Energy Policy of the European Union: Challenges for Green Chemistry	**Neouze M.A.**, *(Austria)* Ionic nanoparticle networks: new versatile hybrid materials **Noël T.** *(Netherlands)* Micro Flow Chemistry - New possibilities for synthetic chemists **Tsybin Y.** *(Switzerland)* Molecular structure on the balance in the XXI century – rapid high resolution and tandem mass spectrometry **Loget G.** *(France)* Translation, rotation and levitation of micro molecular machines, carbon tubes, and nano-objects by bipolar electrochemistry **Questions by the jury and the audience**	**Angela Dibenedetto** *(Italy)* Chemicals and fuels from CO2: the existing barriers to exploitation **Sanehiro Muromachi** (Japan) Experimental investigations of nonstoichiometry for a simple clathrate hydrate of carbon dioxide **Luigi di Bitonto** *(Italy)* Catalytic synthesis of 2-hydroxymethyl-oxazolidinones from glycerol carbonate or glycerol and urea	**Bert Maes** *(Belgium)* C-2 Functionalization of piperidines via directed transition metal-catalyzed sp3 C-H activation **Darci Trader** *(USA)* Development and application of reversible enrichment tags for natural product discovery **Julia Hesse** *(Germany)* Biofunctionalisation and 64Cu-labeling of pyridine-containing TACN ligands for specific targeting of EGF-receptor	**Andreas Hirsch** *(Germany)* Chemical Functionalization of Synthetic Carbon Allotropes **Jonathan Veinot** *(Canada)* Silicon nanocrystals: Why do some exhibit size dependent photoluminescence while others simply have the blues? **Juraj Dian** *(Czech Republic)* Functionalized silicon nanocrystals for photoluminescence based chemosensors	**Jean Rodriguez** *(France)* Recent developments of new stereoselective multiple bond-forming transformations **Jindrich Jindrich** *(Czech Republic)* Preparations of regioselectively monosubstituted alpha-, beta- and gamma-cyclodextrin derivatives - precursors for further synthesis. **Gregor Strle** *(Slovenia)* Convenient Silylation of Phenols by Using Chlorosilanes in Br/Mg-Exchange Reaction	**Agnieszka Szumna** *(Poland)* Chiral capsules with reversed polarity **Fatima Garcia Melo** *(Spain)* Chiral supramolecular organization of oligo(phenylene ethynylene) (OPE)-based discotics: Induction of helicity and amplification of chirality **Roberto Corradini** *(Italy)* Peptide Nucleic Acids (PNA) bearing C5-modified uracil derivatives: highly selective probes combining stacking interactions and base pairing	**Xavier Assfeld** *(France)* How to Treat Excited States of Biomolecules **Achim Stolle** *(Germany)* Thermal isomerization of compounds from the pinane series as model systems for kinetic study and modelling of substituent effects **Tomas Trnka** *(Czech Republic)* Quantum-chemical study of the reaction mechanism of polypeptide UDP-GalNAc transferase 2, a retaining glycosyltransferase	**Michael Froeba** *(Germany)* Nanoporous Organic-Inorganic Hybrid Materials: Porosity meets Surface Chemistry **Stefan Braese** *(Germany)* Porous organic materials	12:00
12:30	**Sergey Shtykov** (Russia) Luminescent analysis based on the energy transfer	**Corina Brown** *(USA)* Assessment of topics deemed relevant in a nursing chemistry course	**José Ricardo Sodré** *(Brazil)* Energy conversion efficiency of a diesel power generator fuelled with ethanol-biodiesel-diesel oil blends									12:30
12:45	**Vijetha Mogilireddy** (France) Stability and chemical inertness studies of novel gadolinium complexes used in MRI		**Javier Garcia Martinez** *(Spain)* Mesostructured Y Zeolite as Superior FCC Catalyst—From Lab to Refinery									12:45
13:00-14:00	**Lunch Break**		**Lunch Break** Sondermann Anne (EVONIK Ind., DE): EYCN CV CLINIC (on lunch break)				**Lunch Break**					**13:00-14:00**

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	Analytical chemistry Electrochemistry, Analysis, Sample manipulation *Brett Christopher MA, Convener*	Education and History, Professional chemists Ethics, Employability, Labels *Facchetti Sergio, Convener*	Environment and Green Chemistry *Giger Walter, Convener*	European Young Chemists Award 2012 *(sponsored by CNC and SCI)* *Pignataro Bruno, Convener*	Inorganic Chemistry plus Young inorganic chemistry day *van Eldik Rudi, Convener*	Life Sciences SANOFI *Mihovilovic Marko, Convener*	Nanochemistry/ Nanotechnology/ Molecular machines, Carbon tubes, sheets, balls *Credi Alberto, Convener*	Organic Chemistry, Polymers *Muellen Klaus, Convener*	Organic Chemistry, Polymers *Muellen Klaus, Convener*	Physical, Theoretical and Computational Chemistry *Eisenstein Odile, Convener*	Solid State Chemistry Materials chemistry / New materials *Sozzani Piero, Convener*	
SESSION	**Biosensor strategies** *Chair: Ana Maria Oliveira-Brett*	**Special symposium: Ethics in Science - I** *Convener: Hartmut Frank* *Chair: Francesco Dondi*	**Green Chemistry and Energy "Green Chemistry - II"** *Convener: Pietro Tundo* *Chair: Marja Lajunen*	**Presentation of finalists - III** *Chair: Cristina Todasca*	**Symposium on CO2 chemistry - III** *Chair:*	**Medicinal Chemistry session - III** *Chair: Hein Coolen*	**Nanochemistry, nanotechnology and nanostructured materials - III** *Chair: Kimoon Kim*	**General synthetic methods - IV** *Chair: Jean Rodriguez*	**Supramolecular Chemistry - II** *Chair: Agnieszka Szumna*	**Computational Chemistry - III** *Chair: Philippe Sautet*	**Nanoporous Materials - III** *Chair: Andreas Stein*	**SESSION**
14:00	**Lisa Hall** *(United Kingdom)* Synthetic biology and new materials for biosensors	**Attila Pavlath** *(USA)* Moderation and common sense	**Carlos Miro Sabate** *(France)* Green energetic materials	**SECOND SET OF FINALISTS** *(10 minutes each)*	**Ron Zevenhoven** *(Finland)* Fixation of CO2 as carbonates of	**Giralt Ernest** (IRB Barcelona, Spain): Molecular Recognition at Protein Surfaces, EFMC lecture	**Paolo Samori** *(France)* Multifunctional supramolecular	**Thorsten Bach** *(Germany)* C-H activation reactions at sp2- and sp3-carbon	**Ivan Huc** *(France)* Foldamers: expanding the chemical space	**Gianfranco Pacchioni** *(Italy)* Oxides films at the nanoscale: new	**Teng Ben** *(China)* Porous Aromatic Frameworks: Synthesis,	14:00
14:15			**Roberto Ballini** *(Italy)* One-Pot Synthetic Processes by Beta-Nitroacrylates: Preparation of Pentasubstituted Anilines	**Waser J.** *(Switzerland)* Catalytic cyclization and annulation reactions of aminocyclopropanes **Fernandez I.** *(Spain)* Dyotropic and Double Group Transfer Reactions: Origins of the Reaction Barriers **Steinmann S.N.** (Switzerland) Why are the interaction energies of charge-transfer complexes challenging for DFT?								
14:30	**Chee-Seng Toh** *(Singapore)* Ultra-specific virus biosensor using redox antibody probe interaction with nanochannel adsorbed virus particles	**Marina Frontasyeva** *(Russia)* Living Ethics for the global chemistry youth	**Do Hyung Kim** *(Republic of Korea)* Keeping high surace area of catalytic supports at high temperature with FeCrAl metallic foam	**Shan J.** (United Kingdom) Porous amorphous organic cages : an experimental and molecular dynamic simulation	**Paolo Stufano** *(Italy)* Photo-electrochemical NADH regeneration for enzymatic carbon dioxide reduction to methanol: efficient metal-modified semiconductor electrodes	**Marta Correia-da-Silva** *(Portugal)* Dual anticoagulant/antiplatelet polysulfated small molecules: a medicinal chemistry case-study	**Thomas Bjornholm** *(Denmark)* Molecular electronics at the ultimate limit of single molecules interrogated in solid-state devices	**Cyril Martini** *(France)* The synthesis of giant calixarenes	**Andreas Herrmann** *(Netherlands)* Supramolecular Nucleic Acid Structures for Nanomedicine and Diagnostics	**Marc Garcia Borras** *(Spain)* The Frozen Cage Model: a computationally low-cost tool for predicting the exohedral regioselectivity of cycloaddition reactions involving endohedral metallofullerenes	**George Shimizu** *(Canada)* Metal organic frameworks for clean energy applications	14:30
14:45	**Armando Duarte** *(Portugal)* Biosensors based on carbon nanotubes: the role of calibration on the reproducibility of devices	**Karine Ndjoko Ioset** *(Switzerland)* Responsibility for the world we have shaped	**Hanno Erythropel** *(Canada)* Designing greener plasticizers: influence of geometry of central group and side chains	**Casitas A.** *(Spain)* Nucleophilic Aryl-Fluorination and Aryl-Halide Exchange Reactions mediated by a Cu(I)/Cu(III) Catalytic Cycle **Tskhovrebov A.** *(Switzerland)* Fixation of nitrous oxide by carbenes and the reactivity of activated N2O		**Laurin Wimmer** *(Austria)* Synthesis of piperine analogs as GABAA receptor ligands		**Viktor Milata** *(Slovak Republic)* FROM IMIDAZOQUINOLINES TO IMIDAZOQUINOLINES THROUGH TRICYCLIC QUINOLINES		**Prokopis C. Andrikopoulos** *(France)* Oxidation of alkanes: In Silico Catalyst Design		14:45
15:00	**Young-Seon Ko** *(Republic of South Korea)* Glucose oxidase-functionalized mesoporous zirconia thin films for electrochemical glucose detection	**Jan Mehlich** *(Germany)* *Betrayal in the lab – Internal ethics of science*	**Achim Stolle** *(Germany)* Ball Milling: An Emerging Tool for Organic Synthesis	**Vázquez O.,** *(Spain)* DNA recognition: new specific agents and fluorescent pr **Questions and concluding remarks**	**Panel discussion on future uses of CO2**	**Floris Rutjes** *(Netherlands)* Design and synthesis of small molecules aimed at new antibiotics	**Bruno Pignataro** *(Italy)* Controlled molecular self-organization for electronic devices with enhanced performance	**Araceli Gonzalez-Campana** *(Spain)* Water mediated proton-coupled electron transfer in enzymes and in free-radical chemistry by coordination to metal complexes	**Goncalo Bernardes** *(Switzerland)* Building Synthetic and Therapeutic Proteins	**Enric Canadell** *(Spain)* Bridges between the physics and chemistry of molecular conductors	**Marchese L.** *(Italy)* Luminescent molecules confined in porous and layered materials: enhanced photoemission properties and optoelectronic applications	15:00
15:15	**Zhongshu Li** *(Switzerland)* The Intrinsic Non-covalent Interactions within Complexes of a-Cyclodextrin and Benzoate Derivatives	**Jan Van Der Westhuizen** *(Republic of South Africa)* Ethical problems in South African education	**Isabella Concina** *(Italy)* Fabrication of hierarchically structured ZnO photoanodes for highly efficient dye sensitized solar cells				**Gabriel Loget** *(France)* Translation, rotation and levitation of micro and nano-objects bybipolar electrochemistry	**Malek Nechab** *(France)* Cascade rearrangement of enediynes with memory of chirality	**Ofer Reany** *(Israel)* Unprecedented bistable host-guest complexes of cucurbit[6]uril and aromatic diammonium salts			15:15

15:30-16:00	**Coffee Break**	**15:30-16:00**

16:00-17:00	**Plenary Session: Schwarz Helmut** (Technische Universität Berlin, Institut für Chemie): Chemistry with Methane: Concept Rather than Recipes	16:00-17:00

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SESSION	Analytical chemistry Electrochemistry, Analysis, Sample manipulation *Brett Christopher MA, Convener*	Education and History, Professional chemists Ethics, Employability, Labels *Facchetti Sergio, Convener*	Environment and Green Chemistry *Giger Walter, Convener*	European Young Chemists' Network *Fluxa Viviana, Convener*	Inorganic Chemistry plus Young inorganic chemistry day *van Eldik Rudi, Convener*	Life Sciences SANOFI *Mihovilovic Marko, Convener*	Nanochemistry/ Nanotechnology/ Molecular machines, Carbon tubes, sheets, balls *Credi Alberto, Convener*	Organic Chemistry, Polymers *Muellen Klaus, Convener*	Organic Chemistry, Polymers *Muellen Klaus, Convener*	Physical, Theoretical and Computational Chemistry *Eisenstein Odile, Convener*	Solid State Chemistry Materials chemistry / New materials *Sozzani Piero, Convener*	SESSION
	New analytical methodologies *Chair: Reiner Salzer*	**Special symposium: Ethics in Science - II** *Convener: Hartmut Frank* *Chair: Zdzislaw Chilmonczyk*	**Green Chemistry and Energy "Green Chemistry - III"** *Conveners: Pietro Tundo, Walter Giger* *Chairs: José Ricardo Sodré, Anna Tugarova*	**EYCN - Making chemistry work for you** *Chair: Mike Neumann*	**New trends in organometallic chemistry - IV** *Chair:*	**Medicinal Chemistry session - IV** *Chair: Hein Coolen*	**Nanochemistry, nanotechnology and nanostructured materials - IV** *Chair: Harry Anderson*	**General synthetic methods - V** *Chair: Milan Kivala*	**Supramolecular Chemistry - III** *Chair: Andreas Herrmann*	**Computational Chemistry - IV** *Chair: Odile Eisenstein*	**Novel Materials and Molecular Interactions** *Chair: Luisa De Cola*	
17:00	**Arda Atakol** *(Turkey)* The Investigation of Energetic Benzaldoximes with Thermoanalytical and Computational Methods.	**Jerzy Vetulani** *(Poland)* Cultural restrains of science	**Ulrich Kettling** *(Germany)* The Cellulosic Sugar Platform: Sustainable Biofuels and Green Chemicals	**Viviana Fluxa** *(Switzerland)* EYCN makes chemistry work for you	**Simon Lotz** *(Republic of South Africa)* STRUCTURE AND REACTIVITY OF FISCHER BISCARBENE COMPLEXES	**Marko Mihovilovic** *(Austria)* Small molecule mediated regenerative medicine – novel lead compounds for cardiomyogenesis	**Johannes Barth** *(Germany)* Nanochemistry at surfaces: From single molecules to complex ensembles	**Anne Staubitz** *(Germany)* Nucleophile selective cross-coupling reactions	**Enrico Dalcanale** *(Italy)* Supramolecular sensors	**Philippe Sautet** *(France)* Tuning catalytic reactivity on metal and oxide surfaces: insights from DFT	**Shan Jiang** *(United Kingdom)* Porous Amorphous Organic Cages: An Experimental and Molecular Dynamic Simulation Study.	17:00
17:15	**Julien Billeter** *(Switzerland)* Simultaneous or incremental identification of reaction systems ?				**Ulrich Siemeling** *(Germany)* Surprises from old friends: Nitron, the Alder carbene, and relatives	**Joeri Kuil** *(Netherlands)* Dual-labeled peptide dendrimers for fluorescence and SPECT/CT imaging of CXCR4-expressing cells and tumors		**Agustina La Venia** *(Czech Republic)* Solid-phase synthesis of diversely constrained peptidomimetics		**Computational Chemistry,** *Antonio Lagana, Organiser*	**Dan George Dumitrescu** *(Romania)* Aminoguanidine and diaminoguanidine as adaptive cationic building blocks in organosulfonate structures	17:15
17:30	**Alexander Schiller** (Germany) Saccharide probes for enzyme assays and molecular logic	**Frank Moser** *(Italy)* The Ethical Basis of Multilateral Environmental Agreements	**Graca Rocha** *(Portugal)* Baeyer-Villiger oxidations with ionic liquids intercalation compounds into layered zirconium phosphates		**Lars Rohwer** *(Germany)* Asymmetric P-C cage compounds and their transition metal complex chemistry	**Alessandra Tolomelli** *(Italy)* Dehydro-beta-amino acid containing peptidomimetics as integrin receptor ligands	**Stefan-Sven Jester** *(Germany)* Nanopatterning by molecular polygons	**Antoine Leliege** *(France)* Triphenylamine based D-A or D-A-D p conjugated systems as molecular donors for organic solar cells	**Martin Putala** *(Slovak Republic)* Azobenzene macrocyclic chiroptical switches	**Computational Chemistry round table**	**Qian Cao** *(Finland)* Matrix-isolation and ab initio study of the complex between formic acid and xenon	17:30
17:45	**Andreas Hennig** (Germany) Scope and limitations of surface functional group quantification methods	**Luigi Dei** *(Italy)* Primo Levi: Chemistry, literature and ethics	**Francoise Quignard** *(France)* New chitosan based catalysts for azide-alkyne Huisgen's [1,3-dipolar] cycloaddition reaction		**Viktoria Gessner** *(Germany)* Lithium carbenoids - Uncovering new reactivities for long-known compounds	**Khaled Abouzid** *(Egypt)* Discovery of New HER2/EGFR Dual Kinase Inhibitors Based on Anilinoquinazoline Scaffold as Potential Targeting Anti-cancer Agents	**Volodymyr Sashuk** *(Poland)* Self-assembly of charged nanoparticles at fluid interfaces	**Antje K. C. Echterhoff** *(Germany)* Janus-Head Type Diphosphorus Trication [pyr3P2]3+ (pyr = 3,5-dimethylpyrazole) as Reagent for the Functionalisation of Organic Molecules	**Sebastien Bivaud** *(France)* Self-assembled TTF-based redox-active receptors: from 2D polygons to 3D cages		**Marie-Alexandra Neouze** *(Austria)* Ionic nanoparticle networks: new versatile hybrid materials	17:45
18:00	**Birgit Esser** (Germany) Detection of Ethylene Gas Using Carbon Nanotube Based Devices: Utility in the Determination of Fruit Ripeness		**Piotr Biernacki** *(Germany)* Model based optimization of biomethane plants	**Klaus Roth** *(Germany)* Beer: From the first glass to a hangover	**Anna Trzeciak** *(Poland)* Asymmetric P-C cage compounds and their transition metal complex chemistry	**Ekaterina Gasilova** *(Russia)* Polysaccharide-assisted clustering of palladium nanoparticles	**James Hutchison** *(France)* Chemistry in nano-scale optical cavities	**Cihangir Tanyeli** *(Turkey)* Cu Catalyzed Selective mono-N-Pyridylization: 2-aminoDMAP/Sulfonamides as Bifunctional Organocatalysts	**Markus Willibald Schneider** *(Germany)* Modular Syntheses of Porous Organic Cage Compounds		**Julie Rutter** *(United Kingdom)* A new monazite phase formed from strontium fluorophosphate	18:00
18:15		**Round table discussion**	**Makoto Mitarai** *(Japan)* Surfactant Effects on Crystal Growth of Clathrate Hydrate at Interface Between water		**Guy Lavigne** *(France)* Polyfunctional N-heterocyclic Carbenes and their Tunable Transition Metal Complexes	**Daria Giacomini** *(Italy)* Monocyclic beta-lactams and Cystic Fibrosis: facing antioxidant and antimicrobial activity of N-thiomethyl-azetidinones	**Pierre-Antoine Bouit** *(France* Exploiting P chemistry for gap fine-tuning and coordination-driven assembly of polycyclic aromatic hydrocarbons		**Nikos Chronakis** *(Cyprus)* One-pot Regioselective Synthesis and X-ray Crystal Structure of a Stable [60]Fullerene Trisadduct with the eedge,eface,trans-1 Addition Pattern			18:15
18:30			**Emilio Tagliavini** *(Italy)* Novel catalysts from waste biomass: synthesis, properties and application to the obtainment of biodiesel from algae		**Conclusion of Chairs**	**Chiara Nardon** *(Italy)* Gold-based peptidomimetics anticancer agents targeting peptide transporters	**A. Dieter Schlueter** *(Switzerland)* Rational Synthesis of 2D Polymers		**Andreas Vargas Jentzsch** *(Switzerland)* Anion-pi interactions and halogen bonds in action			18:30
18:45			**Christopher Cadigan** *(USA)* Investigation of catalytic and photocatalytic properties of ZnO nanoflowers with novel faceting			**Martin Vlk** *(Czech Republic)* Selectively labelled Betulinines			**Yanmei Li** *(China)* Rational design of anti-amyloid multipotent molecules based on a 'Recognition-Cleaving'strategy			18:45
19:00-19:30	**Break**	**Break**	**Break**	**Break**	**Break**	**Break**	**Break**	**Break**	**Break**	**Break**	**Break**	**19:00-19:30**
19:30-21:00	**Special guest of Congress and dramatic interlude of the Special Symposium Chemistry and Ethics: Djerassi Carl, Stanford University, USA, author of "Insufficiency"**											**19:30-21:00**

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	Analytical chemistry Electrochemistry, Analysis, Sample manipulation *Brett Christopher MA, Convener*	Education and History, Professional chemists Ethics, Employability, Labels *Facchetti Sergio, Convener*	Environment and Green Chemistry *Giger Walter, Convener*	Inorganic Chemistry plus Young inorganic chemistry day *van Eldik Rudi, Convener*	Life Sciences SANOFI *Mihovilovic Marko, Convener*	Nanochemistry/ Nanotechnology/ Molecular machines, Carbon tubes, sheets, balls *Credi Alberto, Convener*	Organic Chemistry, Polymers *Muellen Klaus, Convener*	Organic Chemistry, Polymers *Muellen Klaus, Convener*	Physical, Theoretical and Computational Chemistry *Eisenstein Odile, Convener*	Solid State Chemistry Materials chemistry / New materials *Sozzani Piero, Convener*	
08:00-19:00	**Registration**										08:00-19:00
09:00-10:00	**Plenary Session: Yonath Ada** (Weizmann Institute of Science, Rehovot, IL): The amazing ribosome										09:00-10:00
10:00-10:30	**Coffee Break**										**10:00-10:30**
SESSION	**Chemometrics - I** *Convener & Chair: Roma Tauler*	**Education in Chemistry - II** *Chair: Marek Frankowicz*	**Green Chemistry IV** *Convener: Tundo Pietro* *Chair: Ryo Ohmura*	**Young inorganic chemistry day - I** *Chair:*	**Mass Spectrometry in Life Science - I** *Chair: Francesco De Angelis*	**Nanoscale particles, cages, sheets and tubes - IV** *Chair: Johannes Barth*	**Natural products, Drugs - I** *Chair: Helma Wennemers*	**Frontiers and Advances of Organic Chemistry - I** *Chair: Stefan Matile*	**Structural research for tomorrow** *Chair: Eckart Ruehl*	**Molecular and Hybrid Porous Crystals** *Chair: George Shimizu*	**SESSION**
10:30	**Peter Wentzell** *(Canada)* Chemometrics for Pre-processing of Quantitative Proteomics Data	**Ilka Parchmann** *(Germany)* School Teachers Training	**Michael North** *(United Kingdom)* Synthesis of cyclic carbonates from waste carbon dioxide	**Lutz Ackermann** *(Germany)* Base-assisted metal-catalyzed C-H bond functionalizations	**Frank Turecek** *(USA)* Tandem Mass Spectrometry in Clinical Enzymology: Recent Progress in Newborn Screening for Inborn Errors of Metabolism	**Hedi Mattoussi** *(USA)* Controlling the Photoemission of Quantum Dots by Metal and Redox Active Complexes	**Ian Paterson** *(United Kingdom)* Challenges and discoveries in complex natural product synthesis	**Karl Anker Jorgensen** *(Denmark)* New Directions in Organocatalysis	**Maya Kiskinova** *(Italy)* Microscopic insights on chemical state and morphology of key components in operating model fuel cells using synchrotron-based methods	**Michael Mastalerz** *(Germany)* Permanent Porous Materials from Shape-Persistent Organic Molecules	10:30
11:00	**Beata Walczak** *(Poland)* Dissimilarity based modelling of chemical data	**Iwona Maciejowska** *(Poland)* Another Ten Important Ideas for University Lecturers	**Fabio Arico** *(Italy)* Dimethyl carbonate as green reagent for chlorine-free synthesis	**Natalya Izarova** *(Germany)* Noble metals - containing polyoxometalates	**Lenka Monincova** *(Czech Republic)* Preparation of modified oligonucleotides by nicking enzyme amplification reaction	**Jose Paulo Farinha** *(Portugal)* LUMINESCENT QUANTUM-DOT/POLYMER/GOLD NANOPARTICLE ASSEMBLIES	**Horst Kunz** *(Germany)* Synthetic Antitumor Vaccines Based on Mucin Glycopeptide Antigens	**Timothy Noel** *(Netherlands)* Micro flow chemistry - new possibilities for synthetic chemists	**Zdzislaw Kinart** *(Poland)* Volumetric properties of some aliphatic mono and dicarboxylic acids and their sodium salts in water at 298.15 K	**Martin Schroder** *(United Kingdom)* Gas Storage and Selectivity in Porous Metal Organic Framework Materials	11:00
11:15			**Arjan Kleij** *(Spain)* New Catalytic Technologies for Sustainable CO2 Fixation Chemistry	**Thomas Boyd** *(United Kingdom)* POMzites: a new class of microporous inorganic frameworks from a minimal building block library	**Petra Menova** *(Czech Republic)* Preparation of modified oligonucleotides by nicking enzyme amplification reaction	**Nelsi Zaccheroni** *(Italy* LUMINESCENT CORE-SHELL NANOPARTICLES FOR IMAGING AND SENSING		**Julien Leclaire** *(France)* CO2 as a molecular tecton in system chemistry	**Theodor Milek** *(Germany)* Molecular Modeling of ZnO Nanoparticle Nucleation: from pre-nucleation clusters to functionalized particles		11:15
11:30	**Federico Marini** *(Italy)* Application of nature-inspired methods in chemometrics	**Steven Meyers** *(USA)* Outcomes and benefits of international collaboration: Evaluations of the ACS Global Research Experiences, Exchanges, and Training (GREET) program	**Kento Iino** *(Japan)* Phase equilibria of clathrate hydrates suitable for carbon dioxide capture	**Marat Khusniyarov** *(Germany)* Towards room temperature photomagnetic molecular switches: transition metal complexes with photoactive ligands	**Zoltan Vagfoldi** *(Hungary)* Preparation of modified oligonucleotides by nicking enzyme amplification reaction	**Christian Stutz** *(Germany)* Superparamagnetic core-shell nanoparticles as colloidal support for peptide synthesis	**Takashi Takahashi** *(Japan)* Synthesis of biologically important oligosaccharides containing alpha(2,8)oligosialic acids	**Johann Sattler** *(Austria)* Redox-neutral bio-cascade to amines from prim-alcohols	**Maximilian Braeutigam** *(Germany)* QA of dye-sensitized NiO nanoparticle layers via resonance Raman microspectroscopy: dye desorption dynamics in water	**Abbie Trewin** *(United Kingdom)* Modelling complex structure, porosity, and co-operative diffusion behaviour in molecular porous organic materials	11:30
11:45-12:00	**Break**										**11:45-12:00**

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SESSION	**Chemometrics - II** *Convener & Chair: Roma Tauler*	**Workshop for University Teaching Staff**	**Green Chemistry - V** *Convener: Tundo Pietro* *Chair: Ryo Ohmura*	**Young inorganic chemistry day - II** *Chair:*	**Mass Spectrometry in Life Science - II** *Chair: Francesco De Angelis*	**Nanoscale particles, cages, sheets and tubes - V** *Chair: Paolo Samori*	**Natural products, Drugs - II** *Chair: Horst Kunz*	**Frontiers and Advances of Organic Chemistry - II** *Chair: Karl Anker Jorgensen*	**Ultra Fast Processes - I** *Chair: Michael Ashfold*	**Hybrid Zeolites and Nanochemistry** *Chair: Martin Schroder*	**SESSION**
12:00	**Lutgarde Buydens** *(Netherlands)* Fusion of metabolomics data for a better understanding of Multiple sclerosis	**Iwona Maciejowska** *(Poland)* **Paul Yates** *(United Kingdom)* Workshop for University Teaching Staff	**Luigi Vaccaro** *(Italy)* New synthetic tools for the definition of sustainable continuous-flow reactors	**Sylvestre Bonnet** *(Netherlands)* (Leiden Inst. Chem., NL): Ruthenium complexes hopping at lipid bilayers via a light-sensitive supramolecular bond	**Magda Claeys-Maenhaut** *(Belgium)* Liquid chromatography/mass spectrometry in atmospheric fine particulate matter and secondary organic aerosol research	**Francisco Raymo** *(USA)* Luminescent Nanoswitches	**Helma Wennemers** *(Switzerland)* Bioinspired chemistry with peptides	**Dirk Guldi** *(Germany)* Artificial Photosynthesis - Low Dimensional Carbons	**Majed Chergui** *(Switzerland)* Ultrafast optical and x-ray studies of the charge, spin and structural dynamics in solutions	**Roberto Millini** *(Italy)* Eni Carbon Silicates: truly hybrid organic-inorganic zeolites	12:00
12:30	**Douglas Rutledge** *(France)* Simultaneous significant factor detection and variable selection using multi-block analysis methods		**Martina Hoffmann** *(Germany)* Successful application of porous glasses as support for methane emission reduction catalysts	**Maria Waechtler** *(Germany)* Structural control of photoinduced dynamics in 4H-imidazole Ruthenium complexes	**Stefano Sforza** *(Italy)* MS-based peptidomics for authentication of food and non-food commodities	**Donus Tuncel** *(Turkey)* Conjugated polymer nanoparticles for cell labelling, imaging and drug delivery	**Rob Liskamp** *(Netherlands)* Peptido Sulfonyl Fluorides as New Protease Inhibitors	**Yung-Sing Wong** *(France)* Activation of epoxide by phenolic oxidation, a new entrance in cascade reaction	**Dusan Velic** *(Slovak Republic)* ULTRAFAST DYNAMICS, COMPOSITION, AND STRUCTERE OF CONFINED SYSTEMS TOWARDS 4D CHARACTERIZATION	**Lydie Tzanis** *(France)* High pressure water intrusion investigation on pure silica cage-like STT-type zeolite: Influence of the mineralizing agent	12:30
12:45	**Lea Johnsen** *(Denmark)* How to access hidden information in chromatographic data		**György Dormán** *(Hungary)* Heterogeneous catalytic oxidation and carbonylation reactions in a gas/liquid continuous flow reactor	**Maximilian Hemgesberg** *(Germany)* Chromophore containing inorganic-organic hybrid silica for photonic applications: design, sol-gel synthesis and luminescence properties	**Liz O'Donovan** *(United Kingdom)* A novel caged carbonyl for biomaterial modification and cell patterning	**Salvatore Sortino** *(Italy)* Photoactivated Nanoassemblies with Bimodal Photodynamic Action		**Kamal Kumar** *(Germany)* Building Privileged Complexity With Cascade Transformations: From Ring- to Functional Diversity	**Kristen Brown** *(USA)* Structural dynamics of covalent perylene-based systems probed with femtosecond stimulated Raman spectroscopy	**Daniela Meroni** *(Italy)* Surface modification of ITO layers by AFM-based electrooxidative lithography	12:45
13:00-14:00	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**13:00-14:00**

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	Analytical chemistry Electrochemistry, Analysis, Sample manipulation *Brett Christopher MA, Convener*	Education and History, Professional chemists Ethics, Employability, Labels *Facchetti Sergio, Convener*	Environment and Green Chemistry *Giger Walter, Convener*	Inorganic Chemistry plus Young inorganic chemistry day *van Eldik Rudi, Convener*	Life Sciences SANOFI *Mihovilovic Marko, Convener*	Nanochemistry/ Nanotechnology/ Molecular machines, Carbon tubes, sheets, balls *Credi Alberto, Convener*	Organic Chemistry, Polymers *Muellen Klaus, Convener*	Organic Chemistry, Polymers *Muellen Klaus, Convener*	Physical, Theoretical and Computational Chemistry *Eisenstein Odile, Convener*	Solid State Chemistry Materials chemistry / New materials *Sozzani Piero, Convener*	
SESSION	**Chemometrics - III** *Convener: Roma Tauler* *Chair: Federico Marini*	**Round Table on Bologna implementation in HEIs in Europe** *Chair:*	**Green Chemistry - VI** *Convener: Tundo Pietro* *Chair: Hanno Erythropel*		**Mass Spectrometry in Life Science - III** *Chair: Vladimir Havlicek*	**Nanoscale particles, cages, sheets and tubes - VI** *Chair: Thomas Bjornholm*	**Natural products, Drugs - III** *Chair: Rob Liskamp*	**Frontiers and Advances of Organic Chemistry - III** *Chair: Dirk Guldi*	**Ultra Fast Processes - II** *Chair: Maya Kiskinova*	**Solid State Chemistry and Nanochemistry** *Chair: Roberto Millini*	**SESSION**
14:00	**Luis Sarabia** *(Spain)* Multiobjective experimental optimization	**Marek Frankowicz** *(Poland)* Round Table on: Implementation of Bologna Reforms - state of the art and emerging trends	**Yoel Sasson** *(Israel)* Novel Methodologies for Abatement, Concentration and Utilization of Flue Gas Pollutants Based on Ionic Liquids	**Umberto Piarulli** *(Italy)* Libraries of Monodentate Phosphorus Ligands for Rhodium-Catalyzed Asymmetric Reactions	**Simon Gaskell** *(United Kingdom)* Enhanced understanding of ion chemistry for - and through - the characterisation of peptides by mass spectrometry and ion mobility spectrometry	**Mathias Brust** *(United Kingdom)* Unexpected electrocatalytic properties of monolayer protected gold clusters	**Miroslav Strnad** *(Czech Republic)* Phytohormones as leads for anticancer drug development	**Stefan Matile** *(Switzerland)* Synthetic Supramolecular Systems at Work	**Wolfgang Kautek** *(Austria)* Ultra-fast laser materials processing	**Sven Barth** *(Austria)* Metal-assisted Growth of Germanium Nanowires: Opportunities Using Solid Metal Seeds	14:00
14:15										**Abhay Dasadia** *(India)* Structural characterization and transport properties of CVT grown ZrSe3 and ZrS3 crystals.	14:15
14:30	**Marina Cocchi** *(Italy)* Coupling 2D-Wavelet decomposition and Multivariate Image Analysis	**Round table discussion**	**Fabrizio Mani** *(Italy)* Non Aqueous Solvent Formulations Based on 2-amino-2-methyl-1-propanol (AMP) for Efficient CO2 Absorption and Low Temperature Desorption	**Daniela Bezuidenhout** *(Republic of South Africa)* Novel N,N'-diarylated bis(mesoionic carbene) amido pincer ligands and applications of their metal complexes	**Tomas Jecmen** *(Czech Republic)* Utilization of photoactivable nanoprobe and mass spectrometry for structural determination of cytochrome P450 2B4 and cytochrome b5 interaction	**Kimoon Kim** *(Republic of South Korea)* Nanostructured materials by covalent self-assembly	**Vaclav Jurcik** *(United Kingdom)* Case studies of asymmetric hydrogenation of challenging pharmaceutically relevant substrates	**Frank Klose** *(Germany)* Precious metal doped zeolites in environmental catalysis	**Danielle Marie Buckley** *(USA)* Degenerate Femtosecond Pump Probe Studies of Lead Sulfide Nanocrystals at the Band Gap	**J. Christian Schoen** *(Germany)* Structure prediction and ab initio energy landscape exploration of PbS and of the pernitrides of Ca, La and Ti	14:30
14:45	**Yulia Monakhova** *(Russia)* Chemometrics as a tool to increase efficiency of spectroscopic analysis of food and environmental matrices		**Elsayed Mousa** *(Egypt)* Mitigation of CO2 emissions in ironmaking process by reduction of iron oxide with blast furnace top gas	**Carsten Streb** *(Germany)* Molecular metal-oxides as visible-light driven synthetic oxygen evolving catalysts	**Samantha Reale** *(Italy)* Mass spectrometric investigation of in vitro synthesized polyphenolic biopolymers: lignins and eumelanins		**Eva Kudova** *(Czech Republic)* Novel anionic steroid inhibitors of phasically and tonically activated NMDA receptors	**Davide Bonifazi** *(Belgium)* Doped pi-conjugated organic emitters: synthesis, properties and supramolecular organization	**Elisabetta Collini** *(Italy)* Role of chromophores arrangement in coherent energy migration in light-harvesting complexes	**Felix Fahrnbauer** *(Germany)* New thermoelectrics by combination of CoSb3 with Ge/Sb/Te materials	14:45
15:00	**Roma Tauler** *(Spain)* GC×GC-TOFMS combined to multivariate curve resolution for the analysis of complex mixtures of polycyclic aromatic hydrocarbons		**Pedro Molina Sanchez** *(United Kingdom)* Redox-active vanadium polyoxometalates for energy production and storage	**Alicia Casitas** *(Spain)* Nucleophilic Aryl-Fluorination and Aryl-Halide Exchange Reactions Mediated by a Cu(I)/Cu(III) Catalytic Cycle	**Catherine Fenselau** *(USA)* Differential analysis of an exosome proteome	**Robert Fenger** *(Germany)* Step by step growth of gold nanoparticles and gold nanorods and their behavior in catalysis	**Joerg Pietruszka** *(Germany)* Chemoenzymatic Natural Product Synthesis	**Oscar Verho** *(Sweden)* Highly dispersed palladium nanoparticles on mesocellular foam: an efficient and recyclable heterogeneous catalyst for alcohol oxidation	**Eckart Ruehl** *(Germany)* Gas-Solid-Shift in Molecular Inner-Shell Transitions	**Tobias Rosenthal** *(Germany)* Varying the nanostructure of ternary germanium tellurides and its influence on thermoelectric properties	15:00
15:15			**Pedro Lopez-Aranguren Oliver** *(Spain)* Traces of degradation by pyrolysis under ultrasound: it's getting hot in ionic liquids!	**Shigeyoshi Inoue** *(Germany)* Synthesis, structure and catalytic properties of transition metal complexes with spacer-separated bis-silylene ligands		**Thomas Burgi** *(Switzerland)* Intrinsically chiral thiolate-protected gold clusters: Enantioseparation, chiroptical properties and flexibility of Au38	**Paola Galletti** *(Italy)* Chemical and biological potential of new azetidinone derivatives	**Yao-Ting Wu** *(Taiwan)* Metal-Catalyzed Cascade Reactions of Alkynes: Useful Protocols for Synthesis of Polycyclic Aromatic Hydrocarbons and Oligoenes	**Maria Waechtler** *(Germany)* Excited-state properties in pH-switchable Ruthenium dyes	**Paul Sermon** *(United Kingdom)* The Role of Domain Size, Structure and Transformation in Defining p-x-T Hysteresis in Hydrogen Sorption by Transition Metal Oxides (TOn) and sulphides (TSn) to form HxTOn and HxTSn bronzes when Activated by Spillover	15:15
15:30									**Isaac Cespedes-Camacho** *(Spain)* Kinetic determination of the alkylating potential of vinyl compounds		15:30
15:30-16:00	**Coffee Break**	**Coffee Break**	**Coffee Break**	**Coffee Break**	**Coffee Break**	**Coffee Break**	**Coffee Break**	**Coffee Break**	**Coffee Break**	**Coffee Break**	**15:30-16:00**
16:00-17:00	**Plenary Session: Grubbs Robert H.** (California Institute of Technology, Pasadena, USA): Design and applications of selective reactions of olefins										16:00-17:00
17:00-18:00	**Closing Ceremony**										**17:00-18:00**