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Chemistry

Platform of the Swiss Academy of Sciences

2013 SCNAT/SCS Chemistry Travel Award

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At the beginning of the year, the fourth «SCNAT/SCS Chemistry Travel Award» was announced jointly by the «Platform Chemistry» of the Swiss Academy of Sciences (SCNAT), the Swiss Chemical Society (SCS), and, for the first time, the Swiss Society for Food and Environmental Chemistry (SSFEC). This scheme was designed to support PhD students from Swiss institutions to participate and present their work (poster or oral presentation) at international conferences. Following our call for nominations, **a record number of 123 applications** were received. The applications were reviewed by a selection committee composed of representatives of all three organisations: Prof. Dr. Gérard Hopfgartner (chair, SCS, University of Geneva), Prof. Dr. Karl Gademann (SCNAT, University of Basel), Prof. Dr. Philippe Renaud (SCS, University of Bern), Dr. Umberto Piantini (SSFEC & SCNAT, University of Applied Sciences Western Switzerland). The high level and high quality of the applications made the selection process challenging. Therefore, a two-round system was designed where the successful applicants were selected based on scientific merit. For the first time, **45 «SCNAT/SCS Chemistry Travel Awards»** were distributed. The 2013 laureates are:

**Oliver Allemann**

Jay S. Siegel, University of Zurich
‘Synthesis of small polycyclic aromatic hydrocarbons by CF activation using silylation chemistry’
15th International Symposium on Novel Aromatic Compounds (ISNA-15), Taipei Taiwan

**Philipp Anstätt**

Gilles Gasser, University of Zurich
‘PNA-modified Nanoparticles: The Next Step in Self-Assembly’
12th International Symposium on Applied Bioinorganic Chemistry (ISABC12), Guangzhou China

**Maurizio Bernasconi**

Andreas Pfaltz, University of Basel
‘New Pyridyl Phosphinites Ligand for the Iridium Catalysed Asymmetric Hydrogenation of Maleic Acid Dimethyldiester’
Organometallic Chemistry Directed Toward Organic Synthesis (OMCOS17), Fort Collins USA

**Nadine Bohni**

Jean-Luc Wolfender, University of Geneva
‘Targeted isolation of induced and bioactive metabolites from fungal co-cultures’
61st International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research (GA), Münster Germany

**Elizabeth Brunk**

Ursula Röthlisberger, EPF Lausanne
‘The Role of Environment on the Catalysis of the MutY Enzyme’
245th ACS National Meeting & Exposition, Chemistry of Energy & Food, New Orleans USA

**Andreas Bünzli**

Catherine E. Housecroft, University of Basel
‘Efficient Green Light-Emitting Electrochemical Cells Based on a Sulfone Substituent on the Cyclometalating Ligands in an Iridium(III) Complex’
20th International Symposium on the Photophysics and Photochemistry of Coordination Compounds, Traverse City USA

**Patrick Burch**

Karl Gademann, University of Basel
‘SAR Study of the Neuritogenic Natural Product Farinosone C and Investigations on its Mode of Action’
49th International Conference on Medicinal Chemistry (RICT 2013), Nice France

**Pierre Charbonnaz**

Stefan Matile, University of Geneva
‘Oriented Multicomponent Photosystems with Central Perylenediimide Stacks’
8th International Symposium on Macrocyclic and Supramolecular Chemistry (ISMCS-8), Crystal City USA

**Alessandro Cumbo**

Patrick Shahgaldian, FHNW
‘Surface Imprinting Approach for the Design of Virus Recognition Nanoparticles’
Frontiers in Chemistry, Yerevan Armenia



Florian de Nanteuil
 Jérôme Waser, EPF Lausanne
 'Use of aminocyclopropanes and
 aminocyclobutanes as formal dipoles'
 Gordon Research Conference: Natural
 Products, Andover USA



Luca Garbuio
 Gunnar Jeschke, ETH Zurich
 'Orthogonal Spin Labeling and Gd(III)-
 Nitroxide Distance Measurements on
 Bacteriophage T4- Lysozyme'
 IXth International Workshop on EPR in
 Biology and Medicine, Krakow Poland



Piotr de Silva
 Tomasz Wesolowski, University of Geneva
 'Exact Non-Additive Kinetic Potentials in
 Realistic Chemical Systems'
 15th International Conference on Density
 Functional Theory and its Applications,
 Durham UK



Alexandre Grand-Guillaume Perrenoud
 Jean-Luc Veuthey, Davy Guillarme,
 University of Geneva
 'Kinetic performance and MS/MS
 hyphenation: possibilities and limitations of
 state-of-the-art SFC instrumentation'
 7th International Conference on Packed
 Column Supercritical Fluid Chromatography
 (SFC 2013), Boston USA



Marian Dreher
 Frédéric Vogel, Paul Scherrer Institute
 'Sulfur Poisoning and On-Stream
 Regeneration of a Ru/C Catalyst for
 Hydrothermal Biomass Reforming'
 23rd North American Meeting of the
 Catalysis Society, Louisville USA



P. Morten Hundt
 Rainer Beck, EPF Lausanne
 'Vibrationally Promoted Chemisorption of
 Water on Ni(111)'
 Gordon Research Conference: Dynamics at
 Surfaces, Newport USA



Thibault Dutronc
 Claude Pigué, University of Geneva
 'Tuning Liquid-Crystalline Properties with
 Methylated Cyanobiphenyls'
 12th European Conference on Liquid Crystals
 (ECLC-2013), Rhodes Greece



Mehdi Jorfi
 Johan Foster, University of Fribourg
 'Mechanically-Adaptive Materials for Direct
 Neural Interfaces'
 245th ACS National Meeting & Exposition,
 Chemistry of Energy & Food, New Orleans
 USA



Luca Fornelli
 Yury O. Tsybin, EPF Lausanne
 'Antibodies characterization by top-down and
 middle-down electron transfer dissociation
 high-field Orbitrap FTMS'
 61st ASMS Conference on Mass
 Spectrometry and Allied Topics, Minneapolis
 USA



Marius Koch
 Eric Vauthey, University of Geneva
 'Mutual Orientation of Reactants in
 Bimolecular Photoinduced Electron Transfer
 in Solution'
 XVth International Conference on Time-
 Resolved Vibrational Spectroscopy (TRVS
 2013), Beppu Japan



Karol Furman
 Christophe Copéret, ETH Zurich
 'Ruthenium nanoparticle supported on
 hydrophobic silica: a change on surface
 properties and reactivity'
 23rd North American Catalysis Society
 Meeting, Louisville USA



Isabelle Kohler
 Serge Rudaz, University of Geneva
 'Highly sensitive capillary electrophoresis-
 mass spectrometry for rapid screening and
 accurate quantitation of drugs of abuse in
 urine'
 39th Int. Symposium on High-Performance
 Liquid-Phase Separations and Related
 Techniques, Amsterdam The Netherlands



Hailey Gahlon
 Shana J. Sturla, ETH Zurich
 'Synthetic nucleosides: chemical tools to
 probe mechanisms of mutagenesis and DNA
 damage tolerance'
 Gordon Research Conference: Bioorganic
 Chemistry, Andover USA



Christian König
 Nachtegaal Maarten, Paul Scherrer Institute
 'Sensitive detection of Ru-sulfides using
 modulated excitation X-ray absorption
 spectroscopy under reaction conditions'
 Spring Meeting of the European Materials
 Research Society (E-MRS), Strasbourg
 France



Anton Kozhinov
Yury O. Tsybin, EPF Lausanne
'Advanced signal processing methods for FTMS: implementation and characterization'
61st ASMS Conference on Mass Spectrometry and Allied Topics, Minneapolis USA



Rachel Lundeen
Kristopher McNeill, ETH Zurich
'Singlet Oxygen-mediated Photodegradation of Dissolved Combined Amino Acids (DCAAs)'
245th ACS National Meeting & Exposition, Chemistry of Energy & Food, New Orleans USA



Peter Kraus
Hans Jakob Wörner, ETH Zurich
'Probing attosecond charge migration in oriented molecules'
4th International Conference on Attosecond Physics (ATTO 2013), Paris France



Alexandra Maegli
Anke Weidenkaff, EMPA
'Perovskite-type LaTiO₂N for PEC water splitting'
European Materials Research Society Spring Meeting (E-MRS 2013), Strasbourg France



Felix Kurth
Petra S. Dittrich, ETH Zurich
'Mechano-actuated Ca²⁺ Transit on a Microfluidic Device Reveals spatial and Temporal Characteristics'
7th International Conference on Microtechnologies in Medicine and Biology, Marina del Rey USA



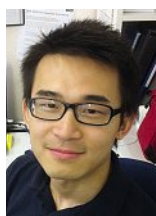
Arianna Marchioro
Jacques-E. Moser, EPF Lausanne
'Photoinduced processes in lead iodide perovskite sensitized solar cells'
NanoScience + Engineering SPIE Optics + Photonics, San Diego USA



Anna Leonidova
Gilles Gasser, University of Zurich
'Substitutionally Inert Ru(II) Complexes as Potential Anti-Cancer Agents: Synthesis and Mechanism of Action'
12th International Symposium on Applied Bioinorganic Chemistry (ISABC12), Guangzhou China



Georg Meseck
Stefan Seeger, University of Zurich
'Silicone Nanofilaments as a Novel Carrier Material for Catalysts'
AVS 60th International Symposium & Exhibition, Long Beach USA



Hailing Li
Alexandre Alexakis
'Copper-Catalyzed Enantioselective Synthesis of Axially Chiral Allenes'
10th International Symposium on Carbanion Chemistry, Kyoto Japan



Marc-André Müller
Andreas Pfaltz, University of Basel
'Selective Asymmetric Hydrogenation of α,β -Unsaturated Nitriles Using Chiral Iridium N,P Ligand Complexes'
14th European Symposium on Organic Reactivity, Prague Czech Republic



Marc Liniger
Karl-Heinz Altmann, ETH Zurich
'Total synthesis of 2,3-desepoxy rhizoxin based on ring-closing alkyne metathesis (RCAM)'
245th ACS National Meeting & Exposition, Chemistry of Energy & Food, New Orleans USA



Lydia Paul
Julien Furrer, University of Bern
'Assessing the reactivity of various hexaruthenium assemblies towards nucleotides and DNA using NMR spectroscopy'
12th International Symposium on Applied Bioinorganic Chemistry (ISABC12), Guangzhou China



Franziska Lissel
Heinz Berke, University of Zurich
'Probing Electronic Properties through Specific Design of Organometallic Molecules'
12th European Conference on Molecular Electronics (ECME 2013), London UK



Inmaculada Rentero Rebollo
Christian Heinis, EPF Lausanne
'Bicyclic peptides as antimicrobial agents'
2013 ISACS 11: Challenges in Chemical Biology, Boston USA



Lars Ruddigkeit
Jean-Louis Reymond, University of Bern
'Virtual Screening of Billions of Small Molecules from the Chemical Universe Database GDB-17'
6th Joint Sheffield Conference on Chemoinformatics, Sheffield UK



Tomáš Šolomek
Thomas Bally, University of Fribourg
'Design of Stable Open-Shell Diradicaloids by Using Ring Strain and Aromatic Stabilization'
Radicals in the Rockies VII, Telluride USA



Tanguy Saget
Nicolai Cramer, EPF Lausanne
'A Palladium-Catalyzed Enantioselective C(sp³)-H Functionalization Strategy to Access Multiple Chiral Nitrogen-Containing Heterocycles'
Gordon Research Conference: Natural Products, Andover USA



Michaela Stach
Jean-Louis Reymond, University of Bern
'Dendritic Antimicrobial Peptides against Pathogenic Bacteria'
23rd American Peptide Symposium, Hawaii USA



Gabriel Schäfer
Jeffrey W. Bode, ETH Zurich
'Facile synthesis of sterically hindered and electron-deficient secondary amides from isocyanates'
14th Tetrahedron Symposium, Vienna Austria



Boris Tchitchanov
François Diederich, ETH Zurich
'Strain-promoted [2+2] Cycloaddition-Retroelectrocyclization Reactions: Towards Chiral Butadienes'
15th International Symposium on Novel Aromatic Compounds (ISNA-15), Taipei Taiwan



Luca Schweighauser
Hermann Wegner, University of Basel
'Investigation of Cyclotetraazocarbazole – A Multinary Molecular Switch'
15th International Symposium on Novel Aromatic Compounds (ISNA-15), Taipei Taiwan



Yanlin Zhang
Sönke Szidat, University of Bern
'Radiocarbon-based source apportionment of EC and OC in fine particulate matter at a regional background site on Hainan Island, South China'
32nd Annual Conference of the American Association for Aerosol Research, Portland USA

Additional information about the «Platform Chemistry» and its activities may be found at www.chemistry.scnat.ch



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