

sc | nat 

**Chemistry**  
Platform of the Swiss Academy of Sciences

### 2013 SCNAT/SCS Chemistry Travel Award

Adrien K. Lawrence\*

\*Correspondence: Dr. A. K. Lawrence, Swiss Academy of Sciences (SCNAT), Platform Chemistry, Schwarztorstrasse 9, CH-3007 Bern, E-mail: chemistry@scnat.ch

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



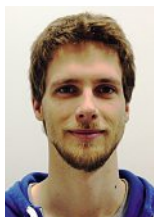
**Pierre Charbonnaz**

Stefan Matile, University of Geneva  
‘Oriented Multicomponent Photosystems with Central Peryleneimide 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 Guillaume, 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 Piguet, 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'  
 XVIth 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



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



**Felix Kurth**  
Petra S. Dittrich, ETH Zurich  
'Mechano-actuated Ca<sup>2+</sup> Transit on a Microfluidic Device Reveals spatial and Temporal Characteristics'  
7th International Conference on Microtechnologies in Medicine and Biology, Marina del Rey 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



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



**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



**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



**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



**Alexandra Maegli**  
Anke Weidenkaff, EMPA  
'Perovskite-type LaTiO<sub>2</sub>N for PEC water splitting'  
European Materials Research Society Spring Meeting (E-MRS 2013), Strasbourg France



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



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



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



**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



**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(sp<sup>3</sup>)-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](http://www.chemistry.scnat.ch)



Follow the «Platform Chemistry» on Twitter @SCNATChemistry