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Chemistry

Platform of the Swiss Academy of Sciences

2011 SCNAT/SCS Chemistry Travel Award

Barbara Winter-Werner*

*Correspondence: Dr. B. Winter-Werner, Swiss Academy of Sciences (SCNAT), Platform Chemistry, Schwarztörstrasse 9, CH-3007 Bern, E-mail: barbara.winter@scnat.ch

At the beginning of the year the «Platform Chemistry» of the Swiss Academy of Sciences (SCNAT) and the Swiss Chemical Society (SCS) jointly announced for the second time the «SCNAT/SCS Chemistry Travel Award», which supports the active participation of PhD students at international conferences. Almost 100 applications were received and the award committee (Prof. Dr. Frédéric Merkt, ETH Zurich; Prof. Dr. Gérald Hopfgartner, University of Geneva; Prof. Dr. Karl Gademann, University of Basel; Prof. Dr. Katharina Fromm, University of Fribourg) was very impressed by the high scientific level of applications. The successful applicants were selected mainly based on scientific merit and in a second round based on additional criteria such as advancement of studies, past allocation of grants and distribution of research areas. The winners of the «2011 SCNAT/SCS Chemistry Travel Award» are:

**Lilit Aboshyan Sorgho**

Claude Piguet, University of Geneva
‘Molecular Near-infrared to Visible Light Upconversion in a Trinuclear D-F-D Complex’
19th Int. Symposium on the Photophysics and Photochemistry of Coordination Compounds, Strasbourg F

**Blaise Bridier**

Javier Pérez-Ramirez, ETH Zurich
‘Chemo- and Regioselectivity of Heterogeneously Catalyzed Conjugated Unsaturation Hydrogenation’
EuropaCat X Glasgow, Glasgow UK

**Johannes Burkhard**

Erick M. Carreira, ETH Zurich
‘New Building Blocks for Drug Discovery: Synthesis and Evaluation of Azaspiro[3.3]heptanes’
ESOC 2011, Crete GR

**Basile Curchod**

Ursula Roethlisberger, EPF Lausanne
‘Trajectory-based Solution of the Nonadiabatic Quantum Dynamica Equations: an On-the-fly Approach for Molecular Dynamics Simulations’
9th Triennial Congress of the World Association of theoretical and computational Chemists, Santiago de Compostela E

**Heidi Dahlmann**

Shana J. Sturla, ETH Zurich
‘Oxygen-linked 8-phenoxy-deoxyguanosine nucleoside analogues’
242th ACS National Meeting, Denver USA

**Teresa de Haro**

Cristina Nevado, University of Zurich
‘Flexible Gold-Catalyzed Regioselective Oxidative Difunctionalization of Unactivated Alkenes’
OMCOS 16, Shanghai China

**Emma Drinkel**

Reto Dorta, University of Zurich
‘Synthesis, Structure and Initial Catalytic Studies of Novel Palladium and Platinum Complexes with Bissulfoxide ligands’
OMCOS 16, Shanghai China

**Thomas Eaton**

Marcel Mayor, University of Basel
‘Synthetic Strategies towards Carbazole Based Macrocycles’
ISACS6, Beijing China

**Veronika Ehmke**

Francois Diederich, ETH Zurich
‘Potent and Selective Inhibition of Cysteine Proteases from *Plasmodium falciparum* and *Trypanosoma brucei*’
Fall 2011 National Meeting & Exposition, Denver USA

**Daniel Emery**

Jiri Mareda, University of Geneva
‘Modeling of Anion- π Interactions of Substituted Naphthalendiimides: Structure and Function’
14th International Density Functional Theory Conference, Athens GR

**David Garayalde**

Cristina Nevado, University of Zurich
‘Gold-Catalyzed Cyclopenta/heptannulation Cascades: A Stereocontrolled Approach to the Scaffold of Frondosins A and B’
OMCOS 16, Shanghai China

**Jérôme Girard**

Katharina Fromm, University of Fribourg
‘New Polyether Ether Ketone (PEEK) with Silver for Implants’
EUROMAT 2011, Montpellier F



Reto Glaus
Detlef Günther, ETH Zurich
‘Mobile’ Laser Ablation ICPMS – Access to Samples Beyond the Lab’
European Winter Conference on Plasma Spectrochemistry, Zaragoza E



Yogesh Madan Harshe
Massimo Morbidelli, ETH Zurich
‘PBE Breakage Kernel through Stokesian Dynamics Simulations of Breakup of Colloidal Aggregates’
85th Annual Symposium on Colloid and Surface Science, Montreal CAN



Agnieszka Jagoda
Wolfgang Meier, University of Basel
‘Polymer-Inorganic Composite Materials for Bone Tissue Engineering’
ESF-EMBO Symposium, Sant Feliu de Guixols E



Dmitry Katayev
E. Peter Kündig, University of Geneva
‘Asymmetric Catalysis in 3,3-disubstituted Oxindole’
OMCOS 16, Shanghai China



Simon Kessler
Hermann Wegner, University of Basel
‘Bidentate Lewis Acids as Efficient Catalysts for Organic Synthesis’
14th International Symposium on Novel Aromatic Compounds, Eugene USA



Martin Krättli
Massimo Morbidelli, ETH Zurich
‘Cycle to Cycle Model Predictive Control in Continuous Chromatography (MCSGP)’
PREP 2011, Boston USA



Phillip Kuhn
Petra Dittrich, ETH Zurich
‘A Microfluidic Liposome Screening Platform for Kinetic Studies of Drug Membrane Permeation’
Gordon Research Conference on Chemistry and Physics of Microfluidics, Waterville Valley USA



Petra Lüders
Gunnar Jeschke, ETH Zurich
‘Distance Measurements on Lanthanide Ion – Nitroxide Radical Spin Pairs in the Nanometre Range by Relaxation Enhancement’
44th Annual Int. Meeting of the ESR Spectroscopy Group of the RSC, York UK



Daniel Merki
Xile Hu, EPF Lausanne
‘Amorphous Molybdenum Sulfide as Catalyst for Electrochemical Hydrogen Production in Water’
ElecNano4, Paris F



Bill Morandi
Erick M. Carreira, ETH Zurich
‘Tandem Diazotization/Metal-Catalyzed Carbene Transfer with *in situ* Generated Trifluoromethyl Diazomethane in Aqueous Media’
ESOC 2011, Crete GR



Ulrich Neuenschwander
Ive Hermans, ETH Zurich
‘Oxyfunctionalization of Terpenes by Aerobic Oxidation’
241st ACS National Meeting & Exposition, Anaheim USA



Stefano Nicolai
Jérôme Waser, EPF Lausanne
‘Intramolecular Aminoalkynylation of Olefins as an Entry to Pyrrolizidine and Indolizidine Heterocycles’
ESOC 2011, Crete GR



Katrin Niedermann
Antonio Togni, ETH Zurich
‘A New Ritter-Type Reaction: Direct Electrophilic Trifluoromethylation at Nitrogen Atoms Using Hypervalent Iodine Reagents’
Fall 2011 National Meeting of the ACS, Denver USA



Adrien Nyakas
Stefan Schürch, University of Bern
‘Tandem Mass Spectrometry of Platinated Oligonucleotides’
59th Conference on Mass Spectrometry and Allied Topics, Denver USA



Fivos Perakis
Peter Hamm, University of Zurich
‘Two-Dimensional Infrared Spectroscopy (2DIR) of Ice Ih’
19th International conference on ‘Horizons in Hydrogen Bond’, Göttingen D



Anaïs Pitto-Barry
Robert Deschenaux, University of Neuchâtel
‘Anticancer Activity of Host-Guest Systems: Dendrimers Encapsulated in Arene Ruthenium Metalla-Prisms’
19th EuCOMC, Toulouse F



Tiffany Porta
Gérard Hopfgartner, University of Geneva
‘Surface Sampling and Differential Ion Mobility Spectrometry for the Direct Analysis of Illicit Drug Metabolite Isomers from Tissue Sections’
59th ASMS Conference, Denver USA



Pablo Rivera-Fuentes
Francois Diederich, ETH Zurich
‘Enantiopure, Monodisperse Allenol-acetylenic Oligomers and Cyclooligomers’
Fall 2011 National Meeting & Exposition, Denver USA



Patrick Ryan
Claude Piguet, University of Geneva
'Losing Rotational Degrees of Freedom: Are Neutral Ligands for Triple-stranded Dinuclear Lanthanide Helicates Really Affected?'
EICC-1, Manchester UK



Andreas Vargas Jentzsch
Stefan Matile, University of Geneva
'Anion Transport with Halogen Bonds'
ISACS6, Beijing China



Takuya Segawa
Geoffrey Bodenhausen, EPF Lausanne
'Pulse Trains with Variable Nutation Angles for Homonuclear Decoupling'
EUROMAR 2011, Frankfurt am Main D



Linglin Wu
Reto Dorta, University of Zurich
'Room Temperature Synthesis of Tetra-ortho-Substituted Biaryls via NHC- Palladium Catalyzed Suzuki-Miyaura Couplings'
OMCOS 16, Shanghai China



Marita Skarpeli-Liati
Thomas Hofstetter, Eawag
'Carbon, Hydrogen, and Nitrogen Isotope Analysis Associated with Oxidative N-Dealkylation of Substituted N-Methylanilines'
242th ACS National Meeting, Denver USA



Xianghua Yang
Heinz Berke, University of Zurich
'Metal Free Transfer Hydrogenation of Polar Unsaturated Compounds with Ammonia-Borane: A Mechanistic Study'
EICC-1, Manchester UK



Daniel Sprecher
Frédéric Merkt, ETH Zurich
'The Gerade Rydberg States of Molecular Hydrogen'
66th Int. Symposium on Molecular Spectroscopy, Columbus USA



Kai Zhou
Felix Zelder, University of Zurich
'A New Class of Vitamin B12 with tuneable Coordination and Redox properties'
EICC-1, Manchester UK



Silvan Stucki
Stefan Schürch, University of Bern
'Tandem Mass Spectrometry of Unplatinated- and Platinated DNA Quadruplexes'
59th Conference on Mass Spectrometry and Allied Topics, Denver USA

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



Pascal Tanner
Cornelia Palivan, University of Basel
'How to Fight Oxidative Stress with Enzymes Acting in Tandem inside Polymer Vesicles?'
NanoBioEurope 2011, Cork IRE

Annual Congress 2011 of the Swiss Academy of Sciences | Berne, 18 November 2011

Dimensionality

Dimensionality adds depth to our perception of Nature, broadens the natural sciences, and takes art and architecture to new heights. Simply put: dimensionality makes life fascinating. This year the Annual Congress of the Swiss Academy of Sciences (SCNAT) – the capstone of the International Year of Chemistry 2011 – will project a lively picture of the interdisciplinary aspects of chemistry and its sister disciplines.

For more information / RSVP: www.congress11.scnat.ch

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Académie des sciences naturelles



International Year of
CHEMISTRY
2011