

ETH Zürich
Campus Science City
(Hönggerberg)
HPH Building



SCG

Schweizerische
Chemische
Gesellschaft

SSC

Société Suisse
de Chimie

SCS

Swiss Chemical
Society

16 September 2010, 9:30 – 18:15

Fall Meeting 2010

For further information:
www.scg.ch/fallmeeting



Hosted by
ETH Department of Chemistry
and Applied Biosciences

ETH

Eidgenössische Technische Hochschule Zürich
Swiss Federal Institute of Technology Zurich

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 Laboratorium für Physikalische Chemie, ETH Zürich, Wolfgang-Pauli-Strasse 10, 8093 Zürich
 Tel. +41 44 632 43 64, E-mail: scs-fallmeeting@ethz.ch

Dr. Ferdinand Wild (Job Fair)
 Anorganisch-Chemisches Institut, Universität Zürich, Winterthurerstrasse 190, 8057 Zürich
 Tel. +41 44 635 46 46

Information

No admission fee is required for **SCS members** to participate at the 2010 Fall Meeting.
 However, *SCS members must identify themselves at the registration desk with their membership card.*

Non-members of the SCS will be asked to pay a CHF 50.– admission fee.

Lunch: Sandwiches, pastries and drinks will be offered by the SCS in the vicinity of the poster session. Cafeterias and restaurants are located next to the meeting venues.

Coffee breaks: Coffee and drinks will be available until 11.00 and between 16.45 and 17.00, before the Paracelsus Prize Lecture and the SCS DSM and the SCS Metrohm Foundation Awards Presentation.

No additional copies of the program or abstracts will be available at the meeting. All information on the Fall Meeting is contained in this issue of CHIMIA. Please remember to bring it with you.

For more information, please visit the conference homepage <http://www.scg.ch/fallmeeting>.

Transportation

By train: Only limited parking space* will be available on the Campus Science City (Hönggerberg) of the ETH Zurich. Hence, *traveling by train is recommended.*

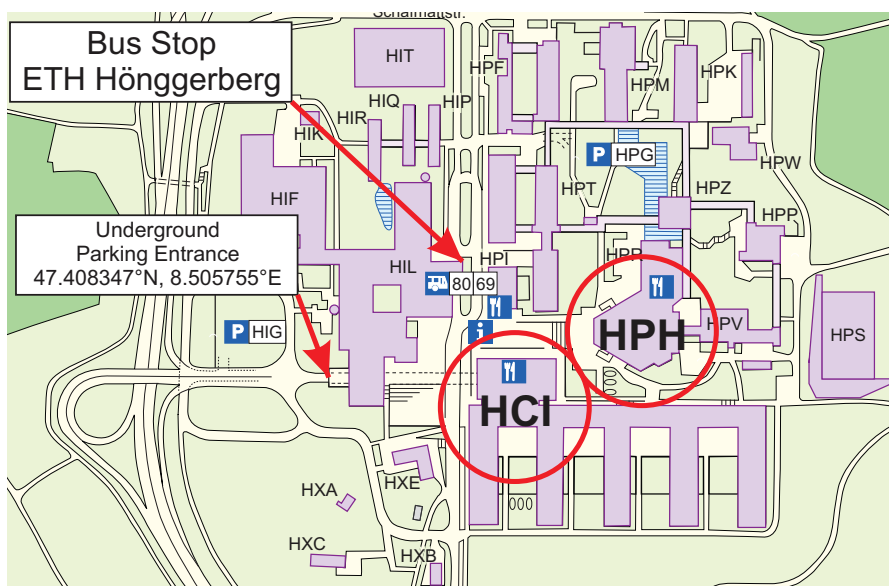
* The GPS coordinates of the underground parking entrance of the Campus Science City of the ETH Zurich are 47.40834°N, 8.505755°E

Train Timetable

Morning		Evening			
Train from	Departure	Arrival Zürich HB	Departure Zürich HB	Arrival	Train to
Basel	08.07	09.00	19.02	19.57	Basel
Bern	08.02	08.58	19.00	19.57	Bern
Fribourg	07.34 [#]	08.58 [#]	19.00 [#]	20.25 [#]	Fribourg
Genève	06.14	08.56	19.04 [#]	21.46 [#]	Genève
Lausanne	06.45 [#]	08.58 [#]	19.04	21.15	Lausanne
Neuchâtel	07.24	08.56	19.04	20.32	Neuchâtel

[#]not a direct connection

Campus Science City (Hönggerberg) of the ETH Zurich



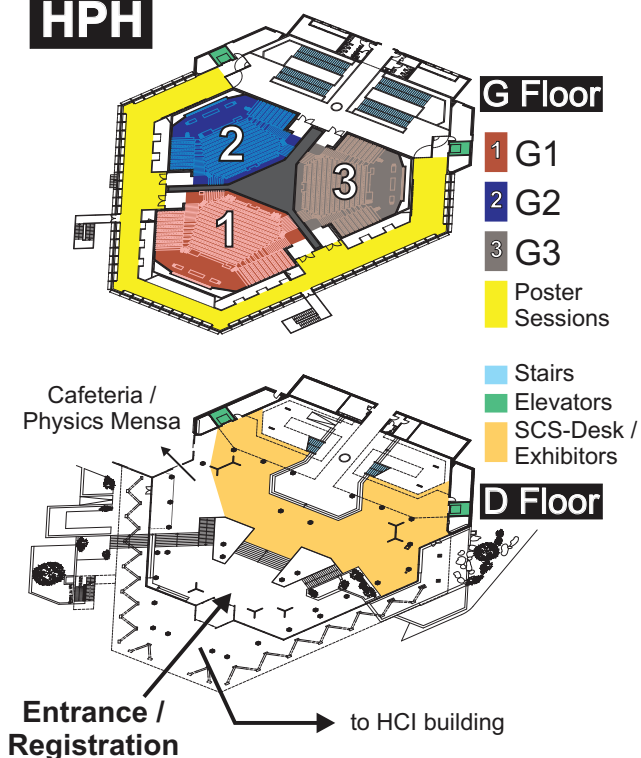
The Campus Science City can easily be reached by tram and bus from the main station Zürich HB:

- Tram no. 11 (direction Auzelg) to 'Bucheggplatz'; from there by bus no. 69 (direction ETH Hönggerberg) to the terminal stop. Journey time about 25 minutes.
- Tram no. 14 (direction Seebach) to 'Milchbuck'; from there by bus no. 69 (direction ETH Hönggerberg) to the terminal stop. Journey time about 25 minutes. You will need a valid ticket for zone 10 (Stadt Zürich).

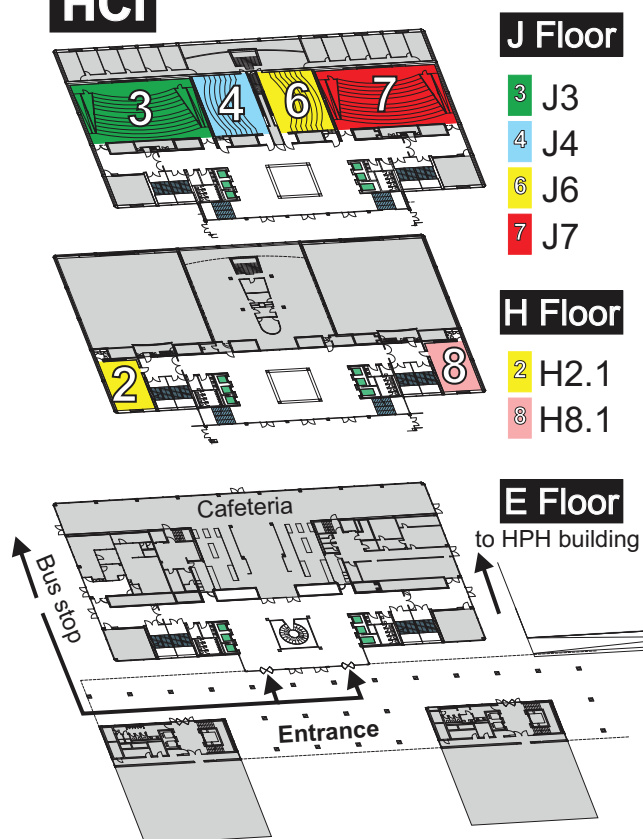
More information on how to get to the Campus Science City of the ETH Zurich is available on the webpage <http://www.ethz.ch/about/location/hoengg/>.

Detailed Map of Lecture Halls

HPH



HCI



G Floor:

- **HPH G1:** Opening Ceremony, Awards Presentation, Plenary Lectures, Organic Chemistry A
- **HPH G2:** Organic Chemistry B
- **HPH G3:** Medicinal Chemistry
- **Corridor:** Poster Session

D Floor: Entrance, Registration Desk, Exhibitors

J Floor:

- **HCI J3:** Physical Chemistry
- **HCI J4:** Analytical Chemistry
- **HCI J6:** Inorganic and Coordination Chemistry
- **HCI J7:** Polymers and Colloids

H Floor

- **HCI H2.1:** Computational Chemistry
- **HCI H8.1:** Meeting Room

Sponsors

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The organization of the meeting gratefully acknowledges the generous support of these companies, either individually, or as member companies of the KGF (Kontaktgruppe für Forschungsfragen).

Commercial Exhibition

A number of exhibitors will be presenting products and services of direct interest to the scientists attending the Fall Meeting. The following companies have already confirmed their participation. See the meeting website (<http://www.scg.ch/fallmeeting>) for an updated list of commercial booths.

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Job Fair

The Fall Meeting of the Swiss Chemical Society provides an excellent opportunity to reach a large body of PhD and post-doctoral students representing all areas of chemistry. As in earlier meetings, we offer a platform for the participants, many of them in the process of looking for their first job, to meet with the human resource representatives of companies in search of talented young chemists.

The following companies will be present at the Job Fair:

- F. Hoffmann-La Roche AG, Basel
- Novartis Pharma AG, Basel
- Syngenta Crop Protection AG, Basel
- BASF Schweiz AG, Basel
- Dow Europe GmbH, Horgen
- Sika Technology, Zurich
- Huntsman Advanced Materials (Switzerland) GmbH, Basel
- Dottikon Exclusive Synthesis AG, Dottikon

Program of the Fall Meeting 2010

PLENARY SESSION

- 09.45–10.30 **Opening Ceremony**
HPH G1
Hans Peter Lüthi
- Presentation of the Dr. Max Lüthi Award 2010**
- Presentation of the Grammaticakis-Neumann Prize 2010**
Chair: *Peter Kündig*, SCS President
Grammaticakis-Neumann Prize Lecture 2010
Sivaguru Jayaraman
North Dakota State University, Fargo, USA
'Selective Light Induced Reactions in Solution and in Water Soluble Nano-containers'
Abstract 1

PARALLEL SESSIONS

10.30–16.45 Division of Analytical Chemistry

- 10.30–11.00 **General Assembly of the Division**
HCI J4
- 11.00–12.15 **Lectures**
HCI J4
Abstracts 3–7
- 12.15–12.55 **Invited Lectures**
HCI J4
Abstracts 8 and 9
- 13.00–14.30 **Poster Session/Lunch**
HPH
Abstracts 17–66
- 14.30–15.00 **General Assembly of the Swiss Chemical Society**
HPH G1
- 15.00–16.45 **Lectures**
HCI J4
Abstracts 10–16
- 10.30–16.45 Division of Medicinal Chemistry**
- 10.30–11.00 **General Assembly of the Division**
HPH G3
- 11.00–11.15 **Dr. Max Lüthi Award 2009 Lecture**
HPH G3
Abstract 67
- 11.15–13.00 **Lectures**
HPH G3
Abstracts 68–74

- 13.00–14.30 **Poster Session/Lunch**
HPH
Abstracts 81–142
- 14.30–15.00 **General Assembly of the Swiss Chemical Society**
HPH G1
- 15.00–15.30 **Invited Lecture**
HPH G3
Abstract 75
- 15.30–16.45 **Lectures**
HPH G3
Abstracts 76–80
- 10.30–16.45 Division of Chemical Research**
- 10.30–11.00 **General Assembly of the Division**
HPH G1
- 11.00–16.45 Computational Chemistry**
- 11.00–12.45 **Lectures**
HCI H2.1
Abstracts 143–149
- 12.45–13.00 **Poster Talks**
HCI H2.1
Abstracts 150–154
- 13.00–14.30 **Poster Session/Lunch**
HPH
Abstracts 161–195
- 13.30–14.00 **General Assembly of the Swiss Young Chemists' Association**
HCI H8.1
- 14.30–15.00 **General Assembly of the Swiss Chemical Society**
HPH G1
- 15.00–15.30 **Invited Lecture**
HCI H2.1
Abstract 155
- 15.30–16.45 **Lectures**
HCI H2.1
Abstracts 156–160
- 11.00–16.40 Inorganic and Coordination Chemistry**
- 11.00–13.00 **Minisymposium**
HCI J6
Abstracts 196–198
- 13.00–14.30 **Poster Session/Lunch**
HPH
Abstracts 209–272
- 13.30–14.00 **General Assembly of the Swiss Young Chemists' Association**
HCI H8.1

14.30–15.00	General Assembly of the Swiss Chemical Society <i>HPH G1</i>	15.00–16.45	Lectures <i>HCI J3</i> Abstracts 431–437
15.00–16.40	Lectures <i>HCI J6</i> Abstracts 199–208	10.30–16.42	Division of Polymers and Colloids
11.00–16.45	Organic Chemistry	10.30–11.00	General Assembly of the Division <i>HCI J7</i>
Session A1	Synthesis and Catalysis	11.00–11.30	Invited Lecture <i>HCI J7</i> Abstract 522
11.00–13.00	Lectures <i>HPH G1</i> Abstracts 273–280	11.30–12.54	Lectures <i>HCI J7</i> Abstracts 523–529
Session B1	Techniques, Properties and Mechanisms	12.54–13.00	Poster Talks <i>HCI J7</i> Abstracts 530 and 531
11.00–12.45	Lectures <i>HPH G2</i> Abstracts 288–294	13.00–14.30	Poster Session/Lunch <i>HPH</i> Abstracts 539–581
Sessions A & B		14.30–15.00	General Assembly of the members of the Swiss Chemical Society <i>HPH G1</i>
13.00–14.30	Poster Session/Lunch <i>HPH</i> Abstracts 302–418	15.00–15.30	Invited Lecture <i>HCI J7</i> Abstract 532
13.30–14.00	General Assembly of the Swiss Young Chemists' Association <i>HCI H8.1</i>	15.30–16.42	Lectures <i>HCI J7</i> Abstracts 533–538
14.30–15.00	General Assembly of the Swiss Chemical Society <i>HPH G1</i>	PLENARY SESSION	
Session A2	Synthesis and Catalysis	17.00–17.50	Presentation of the Paracelsus Prize 2010 and Paracelsus Lecture <i>HPH G1</i> <i>Steven V. Ley</i> University of Cambridge, Cambridge, UK 'New Tools for Molecule Makers: Enabling Technologies' Abstract 2
15.00–16.45	Lectures <i>HPH G1</i> Abstracts 281–287	17.50–18.15	Presentation of the Awards for the Best Posters and Best Oral Presentations, Sponsored by DSM and the Metrohm Foundation <i>HPH G1</i> Chair: <i>Frédéric Merkt</i>
Session B2	Techniques, Properties and Mechanisms		Analytical Chemistry 1 poster and 1 oral presentation Jury: <i>Stefan Schürch, Marc J.-F. Suter</i>
15.00–16.45	Lectures <i>HPH G2</i> Abstracts 295–301		Medicinal Chemistry 1 poster and 1 oral presentation Jury: <i>Yves Auberson, Karl-Heinz Altmann, Peter Mohr, Hans Peter Märki</i>
11.00–16.45	Physical Chemistry		Computational Chemistry 1 poster and 1 oral presentation Jury: <i>Philippe Hünenberger, Markus Reiher</i>
11.00–12.45	Lectures <i>HCI J3</i> Abstracts 419–425		
12.45–13.00	Poster Talks <i>HCI J3</i> Abstracts 426–430		
13.00–14.30	Poster Session/Lunch <i>HPH</i> Abstracts 438–521		
13.30–14.00	General Assembly of the Swiss Young Chemists' Association <i>HCI H8.1</i>		
14.30–15.00	General Assembly of the Swiss Chemical Society <i>HPH G1</i>		

Inorganic and Coordination Chemistry

3 posters and 1 oral presentation

Jury: *Heinz Berke, Kay Severin***Organic Chemistry**

2 posters and 2 oral presentations

Jury: *Sandrine Gerber-Lemaire, Andreas Pfaltz, Jérôme Lacour, Reinhard Neier***Physical Chemistry**

2 posters and 1 oral presentation

Jury: *Davide Ferri, Roland Riek***Polymers and Colloids**

1 poster and 1 oral presentation

Jury: *Raffaele Mezzenga, Massimo Morbidelli, Robert Flatt***DETAILED PROGRAM****Division of Analytical Chemistry**

Sponsored by Thermo Fisher Scientific

- 10.30–11.00** **General Assembly of the Division**
HCI J4
Chair: *Gérard Hopfgartner*
- 11.00–12.15** **Lectures**
HCI J4
Abstracts 3–7
Chair: *Stefan Schürch*
- 11.00–11.15 *Anne-Laure Gassner^a, J. Morandini^b, J. Jossierand^a, H. H. Girault^a*
^aEPFL, Lausanne
^bAstek Rhône-Alpes, Echirolles, France
'Capillary electrophoresis immunoassay using a multiplug magnetic beads trapping system'
Abstract 3
- 11.15–11.30 *Chahan Yeretizian, A. N. Gloess, F. Wieland*
Zurich University of Applied Science, Wädenswil
'Applications of Proton-Transfer-Reaction Time-of-Flight Mass-Spectrometry (PTR-ToF-MS) in Coffee Research'
Abstract 4
- 11.30–11.45 *Guillaume Marti^a, M. Erb^b, J. Boccard^a, S. Rudaz^a, T. Turlings^b, J.-L. Wolfender^a*
^aUniversity of Geneva, University of Lausanne, Geneva
^bUniversity of Neuchâtel, Neuchâtel
'The response of maize roots to leaf herbivory by *Spodoptera spp.*: a metabolomic approach'
Abstract 5
- 11.45–12.00 *Tiffany Porta^a, T. Kraemer^b, E. Varesio^a, G. Hopfgartner^a*
^aUniversity of Geneva, University of Lausanne, Geneva
^bInstitute of Legal Medicine, University of Zurich, Zurich
'MALDI Mass Spectrometric Imaging in Forensic Sciences'
Abstract 6
- 12.00–12.15 *Johannes Stadler, T. Schmid, R. Zenobi*
ETH Zurich, Zurich
'Full Spectroscopic Mapping by Tip-Enhanced Raman Scattering in a Gap-Mode Configuration'
Abstract 7
- 12.15–12.55** **Invited Lectures**
HCI J4
Abstracts 8 and 9
- 12.15–12.35 *Heinz Singer, P. Longree, S. Kern, J. Hollender*
Eawag, Swiss Federal Institute of Aquatic Science and Technology
'Exploring the target and non-target analyte screening capabilities of high resolution mass spectrometry for natural water samples'
Abstract 8
- 12.35–12.55 *Georgios Papadopoulos, A. Svendsen, O. V. Boyarkin, T. R. Rizzo*
EPFL, Lausanne
'Using Field Asymmetric Ion Mobility for conformer selection in cold ion spectroscopy'
Abstract 9
- 13.00–14.00** **Poster Session/Lunch**
HPH
Abstracts 17–66
- 14.30–15.00** **General Assembly of the Swiss Chemical Society**
HPH G1
- 15.00–16.45** **Lectures**
HCI J4
Abstracts 10–16
Chair: *Marc J.-F. Suter*
- 15.00–15.15 *Christian Koenig^a, D. Ferri^b, T. Schildhauer^a, S. Biollaz^a, M. Nachttegaal^a*
^aPaul Scherrer Institut, Villigen
^bEMPA, Dübendorf
'Applying excitation modulation X-ray absorption spectroscopy to understand sulphur poisoning-regeneration mechanisms in the biogas methanisation process'
Abstract 10
- 15.15–15.30 *Antoine Lesur, E. Varesio, G. Hopfgartner*
University of Geneva, University of Lausanne, Geneva
'Quantification of protein by MALDI-SRM/MS using chemically-assisted peptide fragmentation'
Abstract 11

- 15.30–15.45 **Luca A. Flamigni**, J. Koch, H. Wilsche, D. Günther
ETH Zurich, Zurich
'On- and off-line measurement of underwater-generated laser aerosols by liquid-sampled ICP-MS'
Abstract 12
- 15.45–16.00 **Christine Männel-Croisé**, C. Meister, F. H. Zelder
University of Zurich, Zurich
'A Microarray Screening for Colorimetric Anion Sensors'
Abstract 13
- 16.00–16.15 **Mattias B. Fricker^a**, H. Lindner^b, D. Günther^a
^aETH Zurich, Zurich
^bUniversity of Antwerp, Antwerp, Belgium
'Fast washout laser ablation cell with circular gas flows'
Abstract 14
- 16.15–16.30 **Luca Quaroni^a**, T. Zlateva^a, E. Normand^b, K. L. Goff^{b,c}, K. E. Wilson^c
^aSwiss Light Source, Paul Scherrer Institut, Villigen
^bCanadian Light Source, Saskatoon, SK, Canada
^cUniversity of Saskatchewan, Saskatoon, SK, Canada
'Infrared functional spectromicroscopy in living cells'
Abstract 15
- 16.30–16.45 **Pierre Brodard**, M. Bechelany, J. Elias, L. Philippe, M. Jenke, I. Utke, J. Michler
EMPA, Swiss Federal Laboratories for Materials Testing and Research, Thun
'Gold Nanostructures for Surface-Enhanced Raman Spectroscopy'
Abstract 16

PLENARY SESSION

- 17.00–17.50 **Presentation of the Paracelsus Prize 2010 and Paracelsus Lecture**
HPH G1
Steven V. Ley
University of Cambridge, UK
'New Tools for Molecule Makers: Enabling Technologies'
Abstract 2
- 17.50–18.15 **Presentation of the Awards for Best Oral and Poster Presentations**
HPH G1

Division of Medicinal Chemistry Sponsored by Actelion

- 10.30–11.00 **General Assembly of the Division**
HPH G3
Chair: **Hans Peter Märki**

- 11.00–11.15 **Dr. Max Lüthi Award 2009 Lecture**
HPH G3
Simon Lang^a, A. Seelig^b
^aFachhochschule Nordwestschweiz
^bUniversität Basel, Basel
'Immunosuppressive Drugs and their Interaction with the Efflux Transporter P-Glycoprotein (ABCB1)'
Abstract 67
- 11.15–13.00 **Lectures**
HPH G3
Abstracts 68–74
Chair: **Yves Auberson**
- 11.15–11.30 **Didier Zurwerra**, F. Glaus, J. Gertsch, K.-H. Altmann
ETH Zurich, Zurich
'Synthesis and Biological Evaluation of (–)-Zampanolide and (–)-Dactyloolide Analogs'
Abstract 68
- 11.30–11.45 **Achim Schlapbach^a**, L. Revesz^a, J. Velcicky^a, G. Koch^a, H. Moebitz^a, C. Scheufler^b, M. Kroemer^b, R. Feifel^a, S. Hawtin^c, C. Huppertz^c
^aNovartis Institutes for BioMedical Research, Global Discovery Chemistry, Basel
^bNovartis Institutes for BioMedical Research, Center for Proteomic, Basel
^cNovartis Institutes for BioMedical Research, Autoimmunity, Transplantation & Inflammation, Basel
'Inhibitors of MK2 for the treatment of inflammatory diseases'
Abstract 69
- 11.45–12.00 **Christoph Föh^a**, L. A. Hardegger^a, S. Meyer^b, D. Bur^b, F. Diederich^a
^aETH Zurich, Zurich
^bActelion Pharmaceuticals, Allschwil
'Difluoroketones: Building Blocks in Inhibitors of the Malarial Protease Plasmepepsin and Dimers based on Multipolar C=O...C=O-Interactions'
Abstract 70
- 12.00–12.15 **R. Jakob-Rötne^a**, J. Boylan^b, A. Flohr^a, G. Galley^a, D. Heimbrook^b, H. Jacobsen^a, L. Luistro^b, J.-U. Peters^a, J. Roberts^b, W. Wostl^a
^aF. Hoffmann-La Roche Ltd., Basel
^bF. Hoffmann-La Roche Ltd., Nutley, USA
'Gamma-Secretase Inhibitors: From Alzheimers Disease to Cancer'
Abstract 71
- 12.15–12.30 **Florian Binder^a**, K. Lemme^a, M. Smiesko^a, B. Cutting^a, J. Patton^b, J. L. Magnani^b, B. Ernst^a
^aUniversity of Basel, Basel
^bGlycoMimetics Inc., Gaithersburg, MD, USA
'E- and P-selectin: differences, similarities and implications for the design of P-selectin antagonists'
Abstract 72

- 12.30–12.45 **Yvonne Westermaier^a, D. Suter^b, K.-H. Krause^b, L. Scapozza^a**
^aSchool of Pharmaceutical Sciences, University of Geneva and University of Lausanne, Geneva
^bCentre Médical Universitaire/Clinical-Pathology, Geneva
 'A combined *in silico-in vitro* fishing for intracellular targets of phenazopyridine'
 Abstract 73
- 12.45–13.00 **Daniel Zimmerli, D. Wechsler**
 F. Hoffmann-La Roche, Basel
 'High Performance Separations: Enabling Innovation in Discovery Chemistry'
 Abstract 74
- 13.00–14.30 **Poster Session/Lunch**
 HPH
 Abstracts 81–142
- 14.30–15.00 **General Assembly of the Swiss Chemical Society**
 HPH G1
- 15.00–15.30 **Invited Lecture**
 HPH G3
Olivier Bezençon, O. Corminboeuf, C. Grisostomi, L. Remen, S. Richard-Bildstein, D. Bur, L. Prade, P. Hess, P. Strickner, W. Fischli, B. Steiner, A. Treiber
 Actelion Pharmaceuticals Ltd., Allschwil
 'Design and Preparation of Potent, Nonpeptidic, Bioavailable Renin Inhibitors'
 Abstract 75
- 15.30–16.45 **Lectures**
 HPH G3
 Abstracts 76–80
 Chair: **Karl-Heinz Altmann**
- 15.30–15.45 **Jonas Egger, C. Weckerle, K. Lemme, M. Wittwer, D. Schwizer, B. Cutting, S. Rabbani, O. Schwardt, B. Ernst**
 University of Basel, Basel
 'Development and synthesis of a new generation of high-affinity selectin antagonists with improved binding kinetics'
 Abstract 76
- 15.45–16.00 **Bernhard Pfeiffer, K. Hauenstein, P. Merz, C. Rickenbacher, J. Gertsch, K.-H. Altmann**
 ETH Zurich, Zurich
 'Structure-Activity Relationships (SAR) of C12–C13-Oxazoline Derivatives of Epothilone A'
 Abstract 77
- 16.00–16.15 **S. Koppole, Michael Schaefer**
 Novartis Institutes for Biomedical Research, Basel
 'Scoring of protein structures and ligand-induced fit: A new look at the Ramachandran plot',
 Abstract 78

- 16.15–16.30 **Werner Neidhart, A. Mayweg, B. Kuhn, J. Ackermann, D. Hunziker, A. Ruf, M. Otteneder, A. Luehe, E. Tozzo, P. Verry, K. Amrein**
 F. Hoffmann-La Roche Ltd, Basel
 '11 β -HSD1 Inhibitors for Type II Diabetes and Beyond – The Metabolic Syndrome'
 Abstract 79
- 16.30–16.45 **Henri Mattes, D. Orain, M. Koller, K. Lingenhoehl, J. Kallen, M. F. Pozza, M. Schmutz, S. Desrayaud, S. Urwyler, J. Renaud, C. Trendelenburg, A. Brülisauer, Y. P. Auberson**
 Novartis Institutes for BioMedical Research, Basel
 'BGG492, a competitive AMPA/kainate antagonist in clinical development for epilepsy and migraine'
 Abstract 80

PLENARY SESSION

- 17.00–17.50 **Presentation of the Paracelsus Prize 2010 and Paracelsus Lecture**
 HPH G1
Steven V. Ley
 University of Cambridge, UK
 'New Tools for Molecule Makers: Enabling Technologies'
 Abstract 2
- 17.50–18.15 **Presentation of the Awards for Best Oral and Poster Presentations**
 HPH G1

Division of Chemical Research

- 10.30–11.00 **General Assembly of the Division**
 HPH G1
 Chair: **Frédéric Merkt**

Computational Chemistry Sponsored by IBM

- 11.00–12.45 **Lectures**
 HCI H2.1
 Abstracts 143–149
 Chair: **Philippe Hünenberger**
- 11.00–11.15 **Elizabeth Brunk, M. Neri, I. Tavernelli, V. Hatzimanikatis, U. Röthlisberger**
 EPFL, Lausanne
 'A Computational Approach to Direct the Biosynthesis of Target Molecules'
 Abstract 143
- 11.15–11.30 **Daniel Emery, S. Matile, J. Mareda**
 University of Geneva, Geneva
 'Modeling of Rod/Stack Supramolecular Zipper Architecture'
 Abstract 144

- 11.30–11.45 **Jožica Dolenc^a, J. H. Missimer^b, M. O. Steinmetz^b, W. F. van Gunsteren^a**
^aETH Zurich, Zurich
^bPaul Scherrer Institute, Villigen
 ‘Exploring the trigger sequence of the GCN4 coiled-coil using molecular dynamics simulations’
 Abstract 145
- 11.45–12.00 **Hiroko Satoh^a, H.-P. Lüthi^b, J. Hutter^c, T. Laino^d, S. Manabe^e, Y. Ito^e**
^aNational Institute of Informatics (NII), Tokyo, Japan
^bETH Zurich, Zurich
^cUniversity of Zurich, Zurich
^dIBM Research Zurich, Rüschlikon
^eRIKEN Advanced Science Institute, Saitama, Japan
 ‘Endocleavage Promotion in Pyranosides with Locked Conformation’
 Abstract 146
- 12.00–12.15 **Martin T. Stiebritz, M. K. Bruska, M. Reiher**
 ETH Zurich, Zurich
 ‘The Role of Ligand Compound Space and Protein Environment in Dioxygen Induced Inhibition of [FeFe]-Hydrogenase’
 Abstract 147
- 12.15–12.30 **Rameshar U. Kadam, T. Darbre, J.-L. Reymond**
 University of Bern, Bern
 ‘Dynamics and Structural Studies of a Peptide Dendrimer Cobalamin Complex’
 Abstract 148
- 12.30–12.45 **Teodoro Laino, A. Curioni**
 IBM Zurich Research Laboratory, Rüschlikon
 ‘*Ab initio* Molecular Dynamics Study of Li₂O₂, Li₂O and LiO₂ in Propylene Carbonate’
 Abstract 149
- 12.45–13.00 **Poster Talks**
 HCI H2.1
 Abstracts 150–154
- 12.45–12.48 **Christian Tuma^a, T. Laino^a, A. Curioni^a, E. Jochnowitz^b, S. Stolz^{bc}**
^aIBM Zurich Research Laboratory, Rüschlikon
^bPhilip Morris International R&D, Neuchâtel
^cUniversity of Twente, Enschede, The Netherlands
 ‘A Revisited Picture of the Mechanism of Glycerol Dehydration’
 Abstract 150
- 12.48–12.51 **Edít Mátyus^a, J. Hutter^b, U. Müller-Herold^a, M. Reiher^a**
^aETH Zurich, Zurich
^bUniversity of Zurich, Zurich
 ‘Molecular structure calculations without clamping the nuclei’
 Abstract 151
- 12.51–12.54 **Georgios Fradelos, T. A. Wesolowski**
 Université de Genève, Genève
 ‘The importance of non-electrostatic terms in embedding calculations of the effect of protein-like environment to the iso-g values of Biliverdin’
 Abstract 152
- 12.54–12.57 **Izabela Czekaj, O. Kröcher**
 Paul Scherrer Institute, Villigen
 ‘The hydrolysis of isocyanic acid: theoretical catalyst screening’
 Abstract 153
- 12.57–13.00 **Basile F. E. Curchod, I. Tavernelli, U. Röthlisberger**
 EPFL, Lausanne
 ‘Mixed quantum-classical dynamics with time-dependent external fields: A TDDFT approach’
 Abstract 154
- 13.00–14.30 **Poster Session/Lunch**
 HPH
 Abstracts 161–195
- 13.30–14.00 **General Assembly of the Swiss Young Chemists’ Association**
 HCI H8.1
- 14.30–15.00 **General Assembly of the Swiss Chemical Society**
 HPH G1
- 15.00–15.30 **Invited Lecture**
 HCI H2.1
Christoph R. Jacob
 Karlsruhe Institute of Technology, Karlsruhe, Germany
 ‘Towards a subsystem density functional theory description of covalent bonds’
 Abstract 155
- 15.30–16.45 **Lectures**
 HCI H2.1
 Abstracts 156–160
 Chair: **Jürg Hutter**
- 15.30–15.45 **Stephan N. Steinmann, C. Corminboeuf**
 EPFL, Lausanne
 ‘A System-Dependent Density-Based Empirical Dispersion Correction’
 Abstract 156
- 15.45–16.00 **Stephan Lutz, M. Meuwly**
 University of Basel, Basel
 ‘Studying chemical reactions in complex environments with force fields’
 Abstract 157
- 16.00–16.15 **Cesare Mollica, J. Vaníček**
 EPFL, Lausanne
 ‘Defeating the efficiency of both quantum and classical simulations with accurate semiclassics’
 Abstract 158

16.15–16.30 **Matija Zlatar^{ab}, C. Daul^a**
^aUniversity of Fribourg, Fribourg
^bUniversity of Belgrade, Belgrade, Serbia
 ‘Intrinsic Distortion Path: A Novel Approach in the Analysis of the Jahn-Teller Effect’
 Abstract 159

16.30–16.45 **Giovanni Li Manni^a, F. Aquilante^a, T. A. Wesolowski^a, L. Gagliardi^b**
^aUniversity of Geneva, Geneva
^bUniversity of Minnesota, Minneapolis, USA
 ‘Strong Correlation *via* Model Hamiltonians and Complete Active Space Wavefunctions’
 Abstract 160

PLENARY SESSION

17.00–17.50 **Presentation of the Paracelsus Prize 2010 and Paracelsus Lecture**
HPH G1
Steven V. Ley
 University of Cambridge, UK
 ‘New Tools for Molecule Makers: Enabling Technologies’
 Abstract 2

17.50–18.15 **Presentation of the Awards for Best Oral and Poster Presentations**
HPH G1

Inorganic and Coordination Chemistry

Sponsored by KGF

11.00–13.00 **Minisymposium**
HCI J6
 Abstracts 196–198
 Chair: **Thomas R. Ward**

11.00–11.40 **Ian Manners**
 University of Bristol, Bristol, UK
 ‘Functional and Supramolecular Metallopolymers’
 Abstract 196

11.40–12.20 **Philip P. Power**
 University of California, Davis, USA
 ‘Main Group Elements as Transition Metals’
 Abstract 197

12.20–13.00 **Karl Wieghardt**
 Max-Planck-Institut für Bioanorganische Chemie, Mülheim an der Ruhr, Germany
 ‘Coordination Chemistry with Radicals – Where are the Valence Electrons?’
 Abstract 198

13.00–14.30 **Poster Session/Lunch**
HPH
 Abstracts 209–272

13.30–14.00 **General Assembly of the Swiss Young Chemists’ Association**
HCI H8.1

14.30–15.00 **General Assembly of the Swiss Chemical Society**
HPH G1

15.00–16.40 **Lectures**
HCI J6
 Abstracts 199–208
 Chair: **Kay Severin**

15.00–15.10 **Anastasia Stamatiou^b, P. G. Loutzenhiser^b, A. Steinfeld^{ab}**
^aPaul Scherrer Institute, Villigen
^bETH Zurich, Zurich
 ‘Solar Syngas Production from H₂O and CO₂ via Two-Step Thermochemical Cycles based on Zn/ZnO and FeO/Fe₃O₄ Redox Reactions: Kinetic Analysis’
 Abstract 199

15.10–15.20 **Albert Boddien^{ab}, H. Junge^a, G. Laurenczy^b, M. Beller^a**
^aLeibniz Institut für Katalyse e.V (LIKAT), Rostock, Germany
^bEPFL, Lausanne
 ‘Hydrogen Storage in Formic Acid – Amine Adducts’
 Abstract 200

15.20–15.30 **Emma Drinkel, R. Dorta**
 Universität Zürich, Zürich
 ‘Interactions of chiral bis-sulfoxides with precious metals: synthesis, characterisation and possible catalytic applications’
 Abstract 201

15.30–15.40 **Angèle Monney, M. Albrecht**
 University College Dublin, Dublin, Ireland
 ‘Histidine-based NHC-ruthenium complexes and their catalytic activity’
 Abstract 202

15.40–15.50 **Déborah Mathis, E. Couzijn, A. Bach, P. Chen**
 ETH Zurich, Zurich
 ‘Active Species for Metallocene Olefin Polymerization: ΔG^\ddagger by VT-NMR, DFT Calculations and Activities in Ethylene Polymerization’
 Abstract 203

15.50–16.00 **Aurélien Crochet, K. M. Fromm**
 University of Fribourg, Fribourg
 ‘Lithium metal aryloxide clusters: starting products for oxide materials’
 Abstract 204

16.00–16.10 **Sergey N. Semenov, O. Blacque, T. Fox, K. Venkatesan, H. Berke**
 Universität Zürich, Zürich
 ‘Electron Transfer in Tungsten Acetylides, Cumulenes and Carbynes’
 Abstract 205

16.10–16.20 **Barbara Czarniecki, K. Stanek, R. Aardoom, H. Rüegger, A. Togni**
 ETH Zurich, Zurich
 ‘Remote CF-metal Interactions in Late-Transition-Metal Complexes’
 Abstract 206

16.20–16.30 **Sebastian Imstepf**, H. Braband, R. Alberto
University of Zurich, Zurich
'Complexes Containing the *fac*-{^{99m}TcO₃}
Core as Multifunctional Platforms for the De-
velopment of Dual-Modality Imaging Agents'
Abstract 207

16.30–16.40 **Joachim Schnabl**^a, E. Freisinger^a,
B. Spingler^a, M. J. Hannon^b, R. K. O. Sigel^a
^aUniversity of Zurich, Zurich
^bUniversity of Birmingham, Birmingham, UK
'RNA Forms a Three-way Junction with a Su-
pramolecular Iron(II) Cylinder'
Abstract 208

PLENARY SESSION

17.00–17.50 **Presentation of the Paracelsus Prize 2010
and Paracelsus Lecture**
HPH G1
Steven V. Ley
University of Cambridge, UK
'New Tools for Molecule Makers: Enabling
Technologies'
Abstract 2

17.50–18.15 **Presentation of the Awards for Best Oral
and Poster Presentations**
HPH G1

Organic Chemistry Sponsored by Firmenich

Session A1 Synthesis and Catalysis

11.00–13.00 **Lectures**
HPH G1
Abstracts 273–280
Chair: **Sandrine Gerber-Lemaire**

11.00–11.15 **Adrien Quintard**, A. Alexakis
University of Geneva, Geneva
'Aminal-pyrrolidine, highly efficient organo-
catalysts for α -functionalization of carbonyl
compounds'
Abstract 273

11.15–11.30 **Filippo De Simone**^a, J. Gertsch^b, J. Waser^a
^aEPFL, Lausanne
^bUniversity of Bern, Bern
'Synthesis of Aspidospermidine and
Goniomitine *via* the Selective Cyclization of
Aminocyclopropanes'
Abstract 274

11.30–11.45 **Teresa de Haro**, C. Nevado
University of Zurich, Zurich
'Gold-Catalyzed Ethynylation of Arenes'
Abstract 275

11.45–12.00 **Audrey Mercier**, P. Buchgraber, W. C. Yeo,
E. P. Kündig
University of Geneva, Geneva
'Efficient Catalytic Asymmetric Entry to
Planar Chiral Complexes'
Abstract 276

12.00–12.15 **Christoph Wullschleger**, J. Gertsch,
K.-H. Altmann
ETH Zurich, Zurich
'Stereoselective Syntheses of Monocyclic
Peloruside A Analogs'
Abstract 277

12.15–12.30 **Václav Matoušek**^a, V. Bizet^b, D. Cahard^b,
A. Togni^a
^aETH Zurich, Zurich
^bUniversité de Rouen, Mont Saint Aignan
Cedex, France
'Synthesis of α -CF₃-substituted carbonyl com-
pounds with relative and absolute stereocontrol
using electrophilic CF₃-transfer reagents'
Abstract 278

12.30–12.45 **Christoph Schotes**, A. Mezzetti
ETH Zurich, Zurich
'Asymmetric Diels-Alder Reactions of
Unsaturated β -Ketoesters Catalyzed by Chiral
Ruthenium PNNP Complexes'
Abstract 279

12.45–13.00 **Fatos Hoxha**, T. Mallat, A. Baiker
ETH Zurich, Zurich
'Catalyst engineering for the enantioselective
hydrogenation of ketones'
Abstract 280

Session B1 Techniques, Properties and Mechanisms

11.00–12.45 **Lectures**
HPH G2
Abstracts 288–294
Chair: **Jérôme Lacour**

11.00–11.15 **Christian Ebner**, A. Pfaltz
University of Basel, Basel
'Selectivity Determination by ESI-MS
Screening of Racemic Catalyst Mixtures'
Abstract 288

11.15–11.30 **Andreas Herrmann**^a, G. Godin^a, J.-M. Lehn^b
^aFirmenich SA, Genève
^bISIS, Université de Strasbourg, Strasbourg,
France
'Controlled Release of Bioactive Vola-
tiles from Dynamic Mixtures Obtained by
Reversible Aminal Formation'
Abstract 289

11.30–11.45 **Pablo Rivera-Fuentes**^a, J. L. Alonso-Gómez^b,
A. G. Petrovic^b, P. Seiler^a, N. Harada^b,
N. Berova^b, F. Diederich^a
^aETH Zurich, Zurich
^bColumbia University, New York, USA
'Enantiopure Alleno-acetylenic Macrocycles
and Helical Foldamers'
Abstract 290

11.45–12.00 **Martin Zeltner**, W. J. Stark
ETH Zurich, Zurich
'Thermoresponsive nanomagnets: Towards
magnetic soaps and recyclable detergents'
Abstract 291

- 12.00–12.15 **Conelious Pfumbidzai, G. Upert, H. Wennmers**
University of Basel, Basel
'Ag-Nanoparticle Formation in Different Sizes Controlled by Peptides'
Abstract 292
- 12.15–12.30 **Guillaume Journot^a, A. Gualandri^b, C. Letondor^a, R. Neier^a**
^aUniversity of Neuchâtel, Neuchâtel
^bUniversity of Bologna, Bologna, Italy
'Calix[4]pyrrolidine: synthesis and application in transition metal catalyzed oxidation'
Abstract 293
- 12.30–12.45 **Javier Montenegro, T. Takeuchi, A. Hennig, S. Matile**
University of Geneva, Geneva
'Fragrance Sensing by Pattern Generation in Lipid Bilayers'
Abstract 294
- 13.00–14.30 Poster Session/Lunch**
HPH
Abstracts 302–418
- 13.30–14.00 General Assembly of the Swiss Young Chemists' Association**
HCI H8.1
- 14.30–15.00 General Assembly of the Swiss Chemical Society**
HPH G1
- Session A2 Synthesis and Catalysis**
- 15.00–16.45 Lectures**
HPH G1
Abstracts 281–287
Chair: **Andreas Pfaltz**
- 15.00–15.15 **Luca Mantilli, C. Mazet**
University of Geneva, Geneva
'Highly Enantioselective Isomerization of Primary Allylic Alcohols Catalyzed by (P,N)-Iridium Complexes'
Abstract 281
- 15.15–15.30 **Tobias Seiser, N. Cramer**
ETH Zurich, Zurich
'Sequential Rhodium-Catalyzed Bond Activations'
Abstract 282
- 15.30–15.45 **Chandan Kumar Jana^a, R. Scopelliti^b, K. Gademann^a**
^aUniversity of Basel, Basel
^bEPFL, Lausanne
'Total Synthesis of (–)-Taiwaniaquinone H via a Proposed Biosynthetic Pathway'
Abstract 283
- 15.45–16.00 **Diane Rix, W. Zeghida, C. Besnard, J. Lacour**
University of Geneva, Geneva
'One-Step Synthesis of Functionalized Polyether Macrocycles'
Abstract 284
- 16.00–16.15 **Mathieu G. Auzias, M. Neuburger, H. A. Wegner**
University of Basel, Basel
'Novel 3,3'-Bis(arylbenzofurans) via a Gold-Catalyzed Domino Process'
Abstract 285
- 16.15–16.30 **Karin Weidner, P. Renaud**
University of Bern, Bern
'Tin-Free Radical Carboazidation Reaction of Alkenes: Application to the Synthesis of Alkaloids'
Abstract 286
- 16.30–16.45 **Ursula Streit, C. G. Bochet**
University of Fribourg, Fribourg
'The intramolecular photocycloadditions of allenes to benzaldehydes and its application towards the total synthesis of natural products'
Abstract 287
- Session B2 Techniques, Properties and Mechanisms**
- 15.00–16.45 Lectures**
HPH G2
Abstracts 295–301
Chair: **Reinhard Neier**
- 15.00–15.15 **Illya A. Fedotenko, A. Zumbuehl**
University of Geneva, Geneva
'Synthesis of Non-natural Amide-bearing Phospholipids'
Abstract 295
- 15.15–15.30 **Lixian Zhang, M. Meuwly**
University of Basel, Basel
'Stability and Dynamics of c-di-GMP'
Abstract 296
- 15.30–15.45 **Matthias Stoop, C. J. Leumann**
University of Bern, Bern
'Homo-DNA Probes for DNA and RNA Detection'
Abstract 297
- 15.45–16.00 **Jens P. Hermes, F. Sander, T. Peterle, M. Mayor**
University of Basel, Basel
'Molecular control over the interparticle spacing in organic/inorganic hybrid dumbbells'
Abstract 298
- 16.00–16.15 **Mireille Vonlanthen, N. Finney**
University of Zurich, Zurich
'Fluorescent Chemosensors for Metal Ions based on Photoinduced Electron Transfer from Thiourea'
Abstract 299
- 16.15–16.30 **Bernhard Spingler, S. Schnidrig**
University of Zurich, Zurich
'How to improve the chances of a successful crystallization of small molecules for a single crystal X-ray analysis?'
Abstract 300

16.30–16.45 **Florian Garo, R. Häner**
University of Bern, Bern
'Electron transport through non-nucleosidic aromatic building blocks'
Abstract 301

PLENARY SESSION

17.00–17.50 **Presentation of the Paracelsus Prize 2010 and Paracelsus Lecture**
HPH G1
Steven V. Ley
University of Cambridge, UK
'New Tools for Molecule Makers: Enabling Technologies'
Abstract 2

17.50–18.15 **Presentation of the Awards for Best Oral and Poster Presentations**
HPH G1

Physical Chemistry

Sponsored by Dow

11.00–12.45 **Lectures**
HCI J3
Abstracts 419–425
Chair: **Martin Quack**

11.00–11.15 **Michael Gasser, J. A. Frey, A. Bach**
ETH Zurich, Zurich
'Spectroscopy and Dynamics of the \tilde{A} -State of the 1-Methylallyl Radical'
Abstract 419

11.15–11.30 **Daniel Sprecher^a, J. Liu^a, C. Jungen^b, W. Ubachs^c, F. Merkt^a**
^aETH Zurich, Zurich
^bLaboratoire Aimé Cotton, CNRS II, Orsay Cedex, France
^cVrije Universiteit, Amsterdam, The Netherlands
'High-precision measurement of the ionization and dissociation energies of H₂, HD and D₂'
Abstract 420

11.30–11.45 **Veronika Horká-Zelenková, M. Caviezel, M. Quack, G. Seyfang**
ETH Zurich, Zurich
'Test of nuclear spin symmetry conservation in partially deuterated methane-isotopomers in the expansion of a molecular supersonic jet'
Abstract 421

11.45–12.00 **Philipp Ottiger, S. Leutwyler**
Universität Bern, Bern
'Exciton Splittings in Molecular Dimers'
Abstract 422

12.00–12.15 **Oksana Kel, N. Mehanna, J. Lacour, E. Vauthey**
University of Geneva, Geneva
'Chiral Selection of [4]Helicene in Binding to DNA'
Abstract 423

12.15–12.30 **Cristina Consani, O. Bräm, F. van Mourik, A. Cannizzo, M. Chergui**
EPFL, Lausanne
'Ultrafast Dynamics of Horse Heart Cytochrome c by mean of pump-UV-broad-band probe spectroscopy'
Abstract 424

12.30–12.45 **Robbert Bloem^a, E. Backus^b, P. Hamm^a**
^aUniversity of Zurich, Zurich
^bFOM, Amsterdam, The Netherlands
'2D-IR Study of a Photoswitchable Isotope-Labeled α -Helix'
Abstract 425

12.45–13.00 **Poster Talks**
HCI J3
Abstracts 426–430

12.45–12.48 **Hendrik Schulenburg, T. Engl, A. Wokaun, G. G. Scherer**
Paul Scherrer Institut, Villigen
'Activity and Stability of PtCo_x Catalysts for Oxygen Reduction in Polymer Electrolyte Fuel Cells'
Abstract 426

12.48–12.51 **Arnim Eyssler, M. Santhosh Kumar, P. Hug, D. Ferri, A. Weidenkaff**
Empa, Laboratory for Solid State Chemistry and Catalysis, Dübendorf
'Activation strategies for LaFe_{0.95}Pd_{0.05}O₃ towards improved oxidation of methane'
Abstract 427

12.51–12.54 **Dušan Kubala, O. May, M. Allan**
University of Fribourg, Fribourg
'Dissociative Electron Attachment Cross Section of HCN: Isotope Effect'
Abstract 428

12.54–12.57 **Alexander Kushnarenko, E. Miloglyadov, M. Quack, G. Seyfang**
ETH Zurich, Zurich
'Femtosecond Pump-Probe Experiments for the Investigation of Intramolecular Vibrational Energy Redistribution in Methane Derivatives After Overtone Excitation of the CH-Stretching Vibration'
Abstract 429

12.57–13.00 **Sandro Mollet, F. Merkt**
ETH Zurich, Zurich
'Quantum mechanical processes at very high quantum numbers: Ion-pair states of Cl₂ at principal quantum numbers beyond 1000'
Abstract 430

13.00–14.30 **Poster Session/Lunch**
HPH
Abstracts 438–521

13.30–14.00 **General Assembly of the Swiss Young Chemists' Association**
HCI H8.1

- 14.30–15.00** **General Assembly of the Swiss Chemical Society**
HPH G1
- 15.00–16.45** **Lectures**
HCI J3
Abstracts 431–437
Chair: **Jacques-Edouard Moser**
- 15.00–15.15 **Elham Ghadiri^{ab}, N. Taghavinia^b, S. M. Zakeeruddin^a, M. Grätzel^a, J.-E. Moser^a**
^aEPFL, Lausanne
^bSharif University of Technology, Tehran, Iran
'Enhanced Electron Collection Efficiency in Dye-Sensitized Solar Cells Based on Nano-structured TiO₂ Hollow Fibers'
Abstract 431
- 15.15–15.30 **Takuya Segawa^a, B. Baishya^a, N. Aeby^a, G. Bodenhausen^{ab}**
^aEPFL, Lausanne
^bEcole Normale Supérieure, Paris Cedex, France
'New methods in Nuclear Magnetic Resonance to measure transverse relaxation rates in homonuclear *J*-coupled systems'
Abstract 432
- 15.30–15.45 **Davide Ferri^a, M. Santhosh Kumar^a, A. Weidenkaff^a, M. A. Newton^b**
^aEmpa, Dübendorf
^bESRF, Grenoble, France
'Making EXAFS surface sensitive? Red-ox cycles on Rh/Al₂O₃'
Abstract 433
- 15.45–16.00 **Nadiya Danilina, F. Krumeich, S. Castelanelli, J. A. van Bokhoven**
ETH Zurich, Zurich
'Aluminum zoning in ZSM-5 crystals: its origin and characterization'
Abstract 434
- 16.00–16.15 **Sven Reimann^a, J.-D. Grunwaldt^b, T. Mallar^a, A. Baiker^a**
^aETH Zurich, Zurich
^bKIT, Karlsruhe, Germany
'Asymmetric C-C bond formation reaction with Pd: How to favor heterogeneous or homogeneous catalysis?'
Abstract 435
- 16.15–16.30 **Evgueni Kleimenov^a, E. Alayon^a, J. van Bokhoven^{ab}, A. Eliseev^c, M. Janousch^a, N. Verbitskij^c, A. Vinogradov^d, M. Nachttegaal^a**
^aPaul Scherrer Institut, Villigen
^bETH Zurich, Zurich
^cMoscow State University, Moscow, Russia
^dSt. Petersburg State University, St. Petersburg, Russia
'Hard-X-ray photon-in-photon-out spectroscopy for the characterization of functional materials'
Abstract 436

- 16.30–16.45 **Holger Schneider, A. Hintennach, P. Maire, P. Novák**
Paul Scherrer Institute, Villigen
'Combined *in situ* FTIR and Raman microscopy of electrode materials – a new tool for battery scientists'
Abstract 437

PLENARY SESSION

- 17.00–17.50** **Presentation of the Paracelsus Prize 2010 and Paracelsus Lecture**
HPH G1
Steven V. Ley
University of Cambridge, UK
'New Tools for Molecule Makers: Enabling Technologies'
Abstract 2
- 17.50–18.15** **Presentation of the Awards for Best Oral and Poster Presentations**
HPH G1

Division of Polymers and Colloids Sponsored by Sika

- 10.30–11.00** **General Assembly of the Division**
HCI J7
Chair: **Bettina Steinmann**
- 11.00–11.30** **Invited Lecture**
HCI J7
Georges Hadziioannou
Université Bordeaux, France
'Macromolecular design of semiconductive polymers towards thermodynamically stable organic photovoltaic active materials and devices'
Abstract 522
- 11.30–12.54** **Lectures**
HCI J7
Abstracts 523–529
Chair: **Raffaele Mezzenga**
- 11.30–11.42 **Thomas Schuster, D. de Bruyn Ouboter, W. P. Meier**
University Basel, Basel
'Access to Controlled Self-Assembly from Fibers to Micelles of a Lysine Rich Amphiphilic Peptide *via* Point Mutations'
Abstract 523
- 11.42–11.54 **Tobias Hoheisel^a, S. Schrettl^b, R. Szilluweit^b, H. Frauenrath^b**
^aETH Zurich, Zurich
^bEPFL, Lausanne
'Carbon-rich nanostructures from molecular precursors'
Abstract 524

- 11.54–12.06 **Maarten Danial^a, S. Uppalapati^b,
A. J. G. Pötgens^c, M. J. Root^b, H.-A. Klok^a**
^aEPFL, Lausanne
^bThomas Jefferson University, Philadelphia, USA
^cAplaGen GmbH, Baesweiler, Germany
'Polymer/Peptide Therapeutics Against the Entry of HIV Type 1'
Abstract 525
- 12.06–12.18 **Markus Trummer, P. Smith, W. Caseri**
ETH Zurich, Zurich
'Poly(diarylstannane)s: σ - π conjugated organometallic polymers'
Abstract 526
- 12.18–12.30 **Andrea Grotzky, P. Walde, A. D. Schlüter**
ETH Zurich, Zurich
'Preparation of catalytically active, covalent enzyme-polymer conjugates'
Abstract 527
- 12.30–12.42 **Patrick Ilg, H. C. Öttinger, M. Kröger**
ETH Zurich, Zurich
'Systematic coarse graining flowing polymer melts: thermodynamically guided simulations and resulting constitutive models'
Abstract 528
- 12.42–12.54 **Martin Greaves**
The Dow Chemical Company, Horgen
'Aspects of the chemistry of polyalkylene glycols in providing energy efficient and environmental solutions for lubricants of the future'
Abstract 529
- 12.54–13.00 Poster Talks**
HCI J7
Abstracts 530 and 531
- 12.54–12.57 **Hamideh Ahmadloo, R. Losada, C. Wandrey**
EPFL, Lausanne
'Impact of the chemical structure on the polymerization of cationic monomers and solution behavior of the resulting polyelectrolytes'
Abstract 530
- 12.57–13.00 **Johannes Kluge^a, G. Muhrer^b, M. Mazzotti^a**
^aETH Zurich, Zurich
^bNovartis Pharma AG, Basel
'Stability of Ketoprofen-PLGA Nanocomposites produced by Supercritical Fluid Extraction of Emulsions'
Abstract 531
- 13.00–14.30 Poster Session/Lunch**
HPH
Abstracts 539–581
- 14.30–15.00 General Assembly of the Swiss Chemical Society**
HPH G1
- 15.00–15.30 Invited Lecture**
HCI J7
Matthias Ballauff
Helmholtz-Zentrum Berlin and Humboldt-Universität zu Berlin, Germany
'Dynamics of flowing colloidal suspensions'
Abstract 532
- 15.30–16.42 Lectures**
HCI J7
Abstracts 533–538
Chair: **Massimo Morbidelli**
- 15.30–15.42 **Kitty van Gruijthuisen^a, M. Obiols-Rabasa^a,
R. Tuinier^b, P. Schurtenberger^a, A. Stradner^a**
^aUniversity of Fribourg, Marly
^bDSM Research, ACES, Geleen, The Netherlands
'Depletion interactions in charged, aqueous colloid/polymer-mixtures'
Abstract 533
- 15.42–15.54 **S. Neuhaus^a, Celestino Padeste^a,
N. D. Spencer^b**
^aPaul Scherrer Institut, Villigen
^bETH Zurich, Zurich
'Tailoring Surface Properties of Fluoropolymers with Structured Polyelectrolyte Brushes'
Abstract 534
- 15.54–16.06 **Sreenath Bolisetty, J. Adamcik, R. Mezzenga**
ETH Zurich, Zurich
'Kinetics of fibrillation of beta-lactoglobulin amyloid fibers'
Abstract 535
- 16.06–16.18 **Marco Furlan, B. Brand, L. Marco,
M. Morbidelli**
ETH Zurich, Zurich
'Structural control of porous polymeric materials through magnetic gelation'
Abstract 536
- 16.18–16.30 **Amin Sadeghpour, A. Vaccaro, M. Borkovec**
University of Geneva, Geneva
'Poly(acrylic acid) binding on latex particles'
Abstract 537
- 16.30–16.42 **Idalia Bilecka, M. Niederberger**
ETH Zurich, Zurich
'Microwave-assisted nonaqueous sol-gel routes to metal oxide nanoparticles'
Abstract 538
- PLENARY SESSION**
- 17.00–17.50 Presentation of the Paracelsus Prize 2010 and Paracelsus Lecture**
HPH G1
Steven V. Ley
University of Cambridge, UK
'New Tools for Molecule Makers: Enabling Technologies'
Abstract 2
- 17.50–18.15 Presentation of the Awards for Best Oral and Poster Presentations**
HPH G1