



SCHWEIZ. CHEMISCHE GESELLSCHAFT	SCG
SOCIETE SUISSE DE CHIMIE	SSC
SWISS CHEMICAL SOCIETY	SCS

DIVISIONS :
ANALYTICAL CHEMISTRY
MEDICINAL CHEMISTRY
CHEMICAL RESEARCH
POLYMERS & COLLOIDS

DIVISIONEN :
ANALYTISCHE CHEMIE
MEDIZINISCHE CHEMIE
CHEMISCHE FORSCHUNG
POLYMERE UND KOLLOIDE

DIVISIONS :
CHIMIE ANALYTIQUE
CHIMIE MÉDICINALE
RECHERCHE CHIMIQUE
POLYMÈRES ET COLLOÏDES

Fall Meeting 2007

Herbstversammlung 2007

Assemblée d'automne 2007

Wednesday, September 12th, 2007

Mittwoch, 12. September 2007

Mercredi 12 septembre 2007



ÉCOLE POLYTECHNIQUE
FÉDÉRALE DE LAUSANNE

Ecole Polytechnique Fédérale de Lausanne
Centre Est

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Ms. Sandra Jeanneret, Ms. Christina Zamanos Epreman and Ms. Patricia Marti-Rochat
 Institute of Chemical Sciences and Engineering, Ecole Polytechnique Fédérale de Lausanne
 SB ISIC-GE, Station 6, CH-1015 Lausanne
 Tel.: +41 21 693 36 11, E-Mail: scs.fallmeeting@epfl.ch

Information

No registration for SCS members is required to participate in the meeting, coffee breaks and lunch; all of which are free of charge. **Non-members of the SCS** will be asked to pay a 50 CHF entrance fee, which will provide access to the conferences, poster sessions, coffee breaks and lunch.

Students who are members of the SCS can request reimbursement of their travel expenses on the basis of a round-trip train ticket to Lausanne/Renens (2nd class, 1/2 fare) by sending a completed reimbursement form to the SCS central office along with their train ticket. The form will be available at the registration desk of the meeting and can be downloaded from the SCS website (<http://www.swiss-chem-soc.ch/young/reimbursement.html>). For members travelling from abroad, only travel expenses within Switzerland will be covered (2nd class, 1/2 fare).

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

Coffee breaks: Coffee and drinks will be available until 11.30 in the morning and a coffee break will be organized between 16.50 and 17.20, before the Max-Lüthi Award presentation.

Transportation

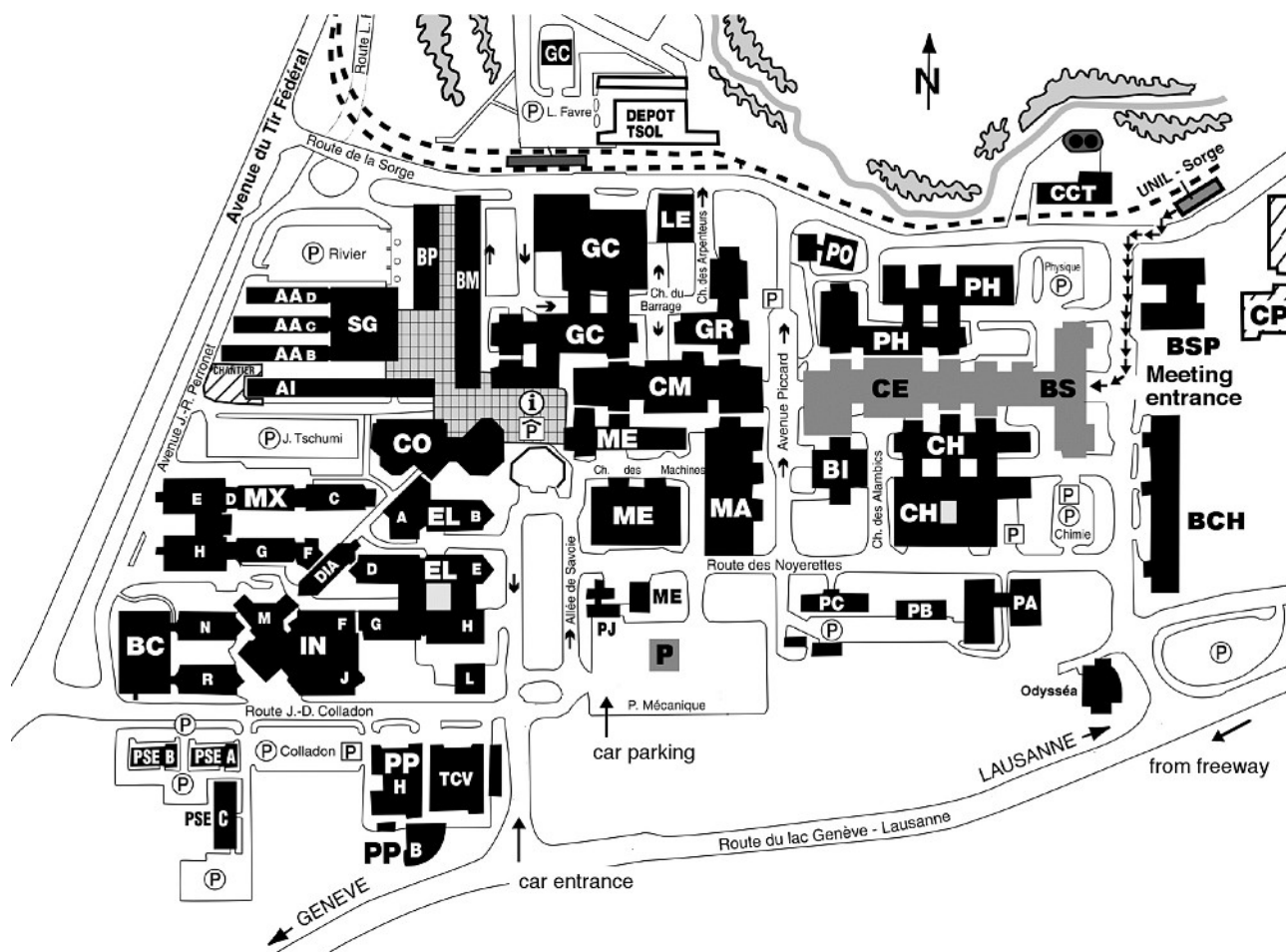
Public transport: Only limited parking space will be available on the campus of the Ecole polytechnique fédérale de Lausanne. Hence, travel by train is recommended. The EPFL campus can be easily reached by the metro (tramway), either from the Lausanne or Renens train stations. Travelers arriving at Lausanne can continue their journey with the InterRegio train to Renens (1 stop, 4 min). From the Renens station, the trip by metro (m1 line) to *UNIL-Sorge* stop takes 7 min. Alternatively, travelers can take the bus from the Lausanne train station to *Place du Flon*, and then the metro (m1 line, 13 min.) to *UNIL-Sorge*. More information on how to get to EPFL campus, timetables and interactive maps are available at <http://map.epfl.ch/>.

By car: On the freeway, follow Lausanne-Sud, exit at UNIL-EPFL, drive West for 1.7 km and then turn right at the sign EPFL. Limited space will be available at the parking lot 'Mécanique' (see EPFL campus map below). One-day parking permits will be sold on the parking lot and at the registration desk for CHF 5.–.

Train Timetable

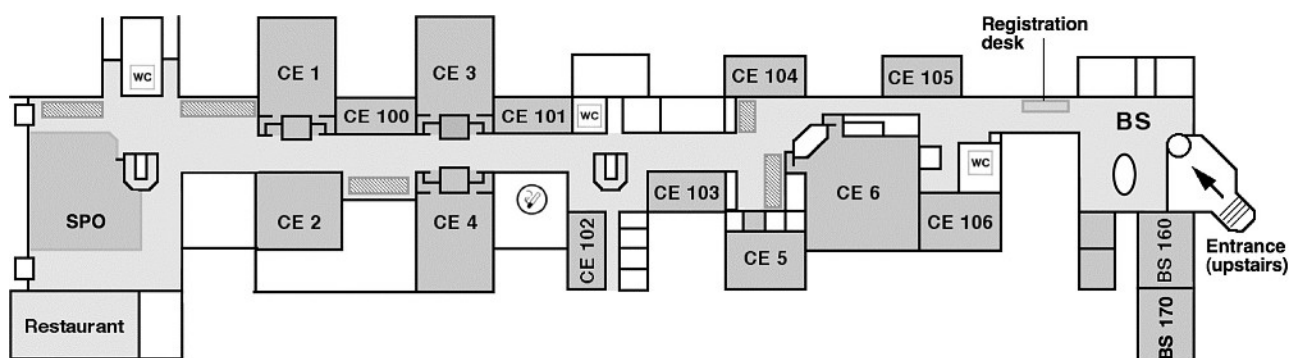
Morning				Evening			
Train from	Departure	Arrival	Arrival	Departure	Departure	Arrival	Train to
		Lausanne	Renens	Renens	Lausanne		
Basel	07.04	09.15	09.24	18.35	18.45	20.53	Basel
Bern	08.04	09.15	09.24	18.35	18.45	19.56	Bern
Fribourg	08.26	09.15	09.24	18.35	18.45	19.33	Fribourg
Genève	08.36	09.15	09.24	18.35	18.45	19.24	Genève
Neuchâtel	08.34	09.15	09.24	18.35	18.45	19.25	Neuchâtel
Zürich	07.04	09.15	09.24	18.35	18.45	20.56	Zürich

EPFL Campus



The meeting will be held on the first floor of BS and CE buildings (in grey shade on the map above). Participants are kindly requested to use exclusively the East entrance on the first floor of BS building. The nearest tramway station is UNIL-Sorge (upper-right corner on the map). The way from the tramway station and from the parking lot to the entrance of the conference premises will be marked with yellow signs.

Detailed Map of Lecture Halls



CE 6: Opening Ceremony, Awards presentations, Plenary lectures, and Inorganic and Coordination Chemistry

CE 1 and CE 3: Organic Chemistry

CE 4: Physical Chemistry

CE 2: Analytical Chemistry

CE 5: Medicinal Chemistry

CE 106: Computational Chemistry

BS 160: Polymer Sciences

Main Hall, SPO, CE 100, CE 101, CE 102, CE 103, CE 104, CE 105, BS 170: Posters

Sponsors

The organization of the meeting gratefully acknowledges the generous support of the following companies. Please see the meeting website (<http://scs-fallmeeting.epfl.ch/sponsors.html>) for an updated list of sponsors.

The logo for Firmenich, featuring the word "Firmenich" in a stylized, serif font.The logo for Novartis, consisting of a stylized flame-like symbol followed by the word "NOVARTIS" in a bold, sans-serif font.The logo for Bruker Biospin, featuring a stylized globe icon to the left of the words "BRUKER" and "BIOSPIN" stacked vertically.The logo for Givaudan, featuring the word "Givaudan" in a sans-serif font with a small registered trademark symbol (®) to the upper right.The logo for Mettler Toledo, featuring a stylized diamond shape composed of horizontal lines, with the words "METTLER" and "TOLEDO" positioned below it.The logo for Roche, featuring the word "Roche" in a serif font inside a hexagonal border.

Commercial exhibition

A number of companies will be presenting products and services of direct interest to the scientists attending the Fall Meeting. See the meeting website (<http://scs-fallmeeting.epfl.ch/displays.html>) for an updated list of commercial exhibitors.

Program of the Fall Meeting 2007

PLENARY SESSION

09.45–10.50 Opening Ceremony

EPFL, CE 6

Opening address

G. Margaritondo

EPFL Vice president for academic affairs

Presentation of the Werner Prize 2007

Chair: *G. Fráter*

Lecture of the Werner Prize Laureate 2007

Jonathan Nitschke

University of Geneva

'From Simplicity to Complexity via Subcomponent Self-assembly'

Abstract 1

Presentation of the Grammaticakis-Neumann Prize 2007

Chair: *G. Fráter*

Lecture of the Grammaticakis-Neumann Prize Laureate 2007

Alberto Credi

Università degli Studi di Bologna, Italy

'Photoinduced Functions in Multicomponent Molecular Systems'

Abstract 2

PARALLEL SESSIONS

11.00–17.00 Division of Analytical Chemistry

11.00–11.30 General Assembly of the Members

EPFL, CE 2

11.30–13.10 Lectures

EPFL, CE 2

Abstracts 3–7

13.15–14.30 Poster Session

EPFL, CE 100

Abstracts 15–42

14.30–16.50 Lectures

EPFL, CE 2

Abstracts 8–14

11.00–17.00 Division of Medicinal Chemistry

11.00–11.10 General Assembly of the Members

EPFL, CE 5

11.15–13.15 Lectures

EPFL, CE 5

Abstracts 43–50

13.15–14.15 Poster Session

EPFL, CE 103

Abstracts 62–87

14.15–17.00 Lectures

EPFL, CE 5

Abstracts 51–61

11.00–17.00 Division of Chemical Research

11.00–11.30 General Assembly of the Members

EPFL, CE 6

11.30–17.00 Computational Chemistry

11.30–13.10 Lectures

EPFL, CE 106

Abstracts 88–92

13.15–14.20 Poster Session

EPFL, CE 105

Abstracts 101–114

14.20–17.00 Lectures

EPFL, CE 106

Abstracts 93–100

11.30–17.00 Inorganic and Coordination Chemistry

11.30–13.00 Invited lectures

EPFL, CE 6

Abstracts 115, 116

13.15–14.30 Poster Session

EPFL, CE SPO

Abstracts 127–214

14.30–17.00 Lectures

EPFL, CE 6

Abstracts 117–126

11.30–17.00 Organic Chemistry

Session A1 Catalytic Synthesis: New Intermediates

11.30–13.15 Lectures

EPFL, CE 1

Abstracts 215–221

Session B1 Catalytic Synthesis: New Catalysts

11.30–13.15 Lectures

EPFL, CE 3

Abstracts 222–228

Sessions A & B

13.15–14.30

Poster Session

EPFL, CE SPO

Abstracts 251–333

Session A2 Synthesis of Biologically Active Compounds

14.30–14.45

Poster Talks*EPFL, CE 1*

Abstracts 229–232

14.45–16.45

Lectures*EPFL, CE 1*

Abstracts 233–240

Session B2**Structure, Property and Design**

14.30–14.35

Poster Talk*EPFL, CE 3*

Abstract 241

14.35–16.50

Lectures*EPFL, CE 3*

Abstracts 242–250

11.30–17.00 Physical Chemistry

11.30–13.00

Lectures*EPFL, CE 4*

Abstracts 334–339

13.00–13.15

Poster Talks*EPFL, CE 4*

Abstracts 340–344

13.15–14.30

Poster Session*EPFL, CE 101*

Abstracts 355–398

14.30–17.00

Lectures*EPFL, CE 4*

Abstracts 345–354

11.00–17.00 Division of Polymers and Colloids

11.00–11.30

Invited Lecture*EPFL, BS 160*

Abstract 399

11.30–13.10

Lectures*EPFL, BS 160*

Abstracts 401–405

13.15–14.30

Poster Session*EPFL, BS 170*

Abstracts 412–436

14.30–15.00

Invited Lecture*EPFL, BS 160*

Abstract 400

15.00–17.00

Lectures*EPFL, BS 160*

Abstracts 406–411

17.00–17.20 Coffee Break**PLENARY SESSION****17.20–17.40 Presentation of the Max-Lüthi Award 2007***EPFL, CE 6*Chair: *G. Fráter***Lecture of the Max-Lüthi Award Laureate Ludovic Gremaud**

Ecole d'ingénieurs et d'architectes de Fribourg, CH-1705 Fribourg

'Analyse de psychostimulants dans les fluides biologiques par CZE-LIF'

17.40–18.00 Presentation of the SCS-Mettler-Toledo Prizes for best oral presentation and SCS Prizes for the best posters*EPFL, CE 6***Analytical Chemistry**

1 poster- and 1 oral presentation

Jury: *S. Schürch, J.-L. Veuthey***Medicinal Chemistry**

1 poster- and 1 oral presentation

Jury: *H. P. Märki, K.-H. Altmann***Computational Chemistry**

1 poster- and 1 oral presentation

Jury: *U. Röthlisberger, C. Daul, C. Corminboeuf***Inorganic and Coordination Chemistry**

3 poster- and 1 oral presentations

Jury: *P. S. Pregosin, K. Severin, T. R. Ward***Organic Chemistry**

2 poster- and 2 oral presentations

Jury: *J. Siegel, N. Finney, K. Gademann,**C. Bochet, J. Waser***Physical Chemistry**

2 poster- and 1 oral presentations

Jury: *F. Merkt, S. Leutwyler***Polymer Sciences**

1 poster- and 1 oral presentation

Jury: *R. Mezzenga, H.-A. Klok*

DETAILED PROGRAM

Analytical Chemistry

- | | |
|---|--|
| <p>11.00–11.30 General Assembly of the Members
EPFL, CE 2</p> <p>11.30–13.10 Lectures
EPFL, CE 2
Abstracts 3–7
Chair: S. Schürch</p> <p>11.30–11.50 Jan-Dierk Grunwaldt^a, S. Hannemann^a,
B. Kimmmerle^a, A. Baiker^a, P. Boye^b,
J. Patommel^b, C. G. Schroer^b
^aETH Zürich, CH-8093 Zürich
^bTechnische Universität Dresden,
01062 Dresden, Germany
'Snapshots of a Heterogeneous Catalyst at Work:
From Integral Towards Spatially Resolved
Spectroscopic Monitoring of Solid Materials'
Abstract 3</p> <p>11.50–12.10 Ivano Marchi, S. Rudaz, J.-L. Veuthey
University of Geneva, CH-1211 Genève 4
'Chemometric Tools to Simplify Method
Development: Screening of Doping Agents in
Urinary Samples'
Abstract 4</p> <p>12.10–12.30 Marketa Vlckova, M. A. Schwarz
University of Basel, CH-4056 Basel
'Microchip Electrophoresis Bioanalytical
Applications'
Abstract 5</p> <p>12.30–12.50 Karin Birbaum^a, R. Brogioli^a, L. Limbach^a,
E. Martinoia^b, W. Stark^a, D. Günther^a
^aETH Zürich, CH-8093 Zurich
^bUniversity of Zurich, CH-8008 Zürich
'Development of a Method to Characterize
Nanoparticle Uptake into Corn Plants'
Abstract 6</p> <p>12.50–13.10 Yury O. Tsybin, H. Ben Hamidane
Ecole Polytechnique Fédérale de Lausanne,
CH-1015 Lausanne
'Tandem Mass Spectrometry Data Mining:
Product Ion Abundances Provide Complementary
Peptide and Protein Structural Information'
Abstract 7</p> <p>13.15–14.30 Poster Session
EPFL, CE 100
Abstracts 15–42</p> <p>14.30–16.50 Lectures
EPFL, CE 2
Abstracts 8–14
Chair: J.-L. Veuthey</p> | <p>14.30–14.50 Thomas Schmid, B.-S. Yeo, W. Zhang, R. Zenobi
ETH Zürich, CH-8093 Zürich
'Imaging and Chemical Analysis of Biological
Nanostructures Using a Setup for Tip-Enhanced
Raman spectroscopy (TERS)'
Abstract 8</p> <p>14.50–15.10 Bruno Bard, S. Martel, P.-A. Carrupt
Section des sciences pharmaceutiques,
University of Geneva, University of Lausanne,
CH-1211 Genève 4
'Lipophilicity Index Measurement of Polar
Compounds Using Hydrophilic Interaction
Liquid Chromatography'
Abstract 9</p> <p>15.10–15.30 Martine S. Poffet^a, B. Grobety^a, K. Käser^a,
T. A. Jenny^a
^aUniversity of Fribourg, CH-1700 Fribourg
^bUniversity of Applied Sciences - Fribourg,
CH-1700 Fribourg
'Auto-oxidation of Vivianite and Amorphous
Fe²⁺ Compounds in Dried Sewage Sludge
Granules'
Abstract 10</p> <p>15.30–15.50 Matthias C. Jecklin^a, D. Touboul^a, R. Jain^b,
J. Tallarico^b, R. Zenobi^a
^aETH Zürich, CH-8093 Zürich
^bNovartis Institutes for BioMedical Research,
Cambridge, MA, USA
'Study of Non-covalent Complexes Between
Human Kinases and Clinical Inhibitors by
Nanoelectrospray Mass Spectrometry'
Abstract 11</p> <p>15.50–16.10 Yveline Henchoz, D. Guillarme, F. Badouda,
J.-L. Veuthey, P.-A. Carrupt
Section des sciences pharmaceutiques,
University of Geneva, University of Lausanne,
CH-1211 Genève 4
'Fast log P Measurement by Ultra Performance
Liquid Chromatography (UPLC)'
Abstract 12</p> <p>16.10–16.30 Johann Rivière, M. E. Soria Díaz, E. Varesio,
G. Hopfgartner
Section des sciences pharmaceutiques,
University of Geneva, University of Lausanne,
CH-1211 Genève 4
'Lipidomic and Metabolomic Study by Mass
Spectrometry in Correlation with Aging in
<i>C. elegans</i>'
Abstract 13</p> <p>16.30–16.50 Gaëtan Glauser^a, E. Grata^a, J. Boccard^a,
D. Guillarme^a, E. Marsden-Edwards^b,
S. Rudaz^a, J. L. Wolfender^a
^aSection des Sciences Pharmaceutiques,
University of Geneva, University of Lausanne,
CH-1211 Genève 4</p> |
|---|--|

^bWaters Corporation, Manchester, UK
 'UPLC-Q-TOF-MS/MS and CapNMR
 Characterisation of Biomarkers Revealed by
 a Metabolomic Study of the Wound Response in
Arabidopsis thaliana'
 Abstract 14

16.50–17.20 Coffee Break

17.20–17.40 Presentation of the Max-Lüthi Award 2007

17.40–18.00 Presentation of the SCS-Mettler- Toledo Prizes for best oral presentation and SCS Prizes for the best posters

Medicinal Chemistry

11.00–11.10 **General Assembly of the Members of the
 Division**
 EPFL, CE 5

11.15–13.15 **Lectures**
 EPFL, CE 5
 Abstracts 43–50
 Chair: *H.-P. Märki*

11.15–11.30 *Stefanie Mesch, D. Strasser, M. Spreafico,
 B. Cutting, S. Shelke, O. Schwardt, B. Ernst*
 University of Basel, CH-4050 Basel
 'Thermodynamic and Kinetic Considerations of
 the Binding Process of MAG-Antagonists'
 Abstract 43

11.30–11.45 *Jens-Uwe Peters, A. Alanine, A. Alker, F. Blasco,
 A. Dorn, A. Gast, L. Gobbi, S. Kolczewski,
 N. Kratochwil, T. Lübbers, P. Malherbe,
 E. Prinssen, D. Schuhbauer, L. Steward*
 F. Hoffmann-La Roche Ltd, CH-4070 Basel
 'Novel Guanidine-type 5-HT_{5A} Receptor
 Antagonists'
 Abstract 44

11.45–12.00 *Juan Bravo, S. di Giovanni, D. Cressend,
 F. Bertolini, L. Novaroli, A. Daina, M. Reist,
 P.-A. Carrupt*
 Section des sciences pharmaceutiques,
 University of Geneva, University of Lausanne,
 CH-1211 Genève 4
 'Identification of Novel Multifunctional
 Compounds for the Treatment of Some Aging
 Related Neurodegenerative Diseases'
 Abstract 45

12.00–12.15 *Frédéric Stauffer, C. Garcia-Echeverria,
 P. Furet, H.-G. Capraro, P. Holzer, C. Schnell,
 C. M. Fritsch, M. Maira*
 Novartis Institutes for BioMedical Research,
 CH-4057 Basel
 'Medicinal Chemistry Efforts Towards

the Identification and Development of Inhibitors
 of Phosphatidylinositol 3-Kinases (PI3Ks) and
 Related Protein Kinases for Cancer Treatment'
 Abstract 46

12.15–12.30 *Jean-Philippe Bapst, M. Calame-Christe,
 H. Tanner, A. N. Eberle*
 University Hospital Basel, CH-4031 Basel
 'Receptor-mediated Targeting of Metastatic
 Melanoma with Radiolabeled DOTA- α -MSH
 Analogs'
 Abstract 47

12.30–12.45 *Jessica Grun, C. Vebert, M. Conza, W. Meier,
 H. Wennemers*
 University of Basel, CH-4056 Basel
 'Vesicle Formation in Aqueous Solution Driven
 by Selective Non-covalent Interactions'
 Abstract 48

12.45–13.00 *Christian Kuzniewski, K.-H. Altmann*
 ETH Zürich, CH-8093 Zürich
 'Hypermodified Epothilone Analogs as New
 Lead Structures for Anti-cancer Drug
 Discovery'
 Abstract 49

13.00–13.15 *Loay Awad, P. Vogel*
 Ecole Polytechnique Fédérale de Lausanne,
 CH-1015 Lausanne
 'Synthesis of a C-Linked Disaccharide
 Analogue of the Thomsen-Friedenreich (TF)-
 Epitope and Formation of a Clustery Form as a
 Potential Anticancer Vaccine'
 Abstract 50

13.15–14.15 **Poster Session**
 EPFL, CE 103
 Abstracts 62–87

14.15–17.00 **Lectures**
 EPFL, CE 5
 Abstracts 51–61
 Chair: *K.-H. Altmann*

14.15–14.30 *Pilar Ruiz-Sánchez, B. Spingler, R. Alberto*
 University of Zurich, CH-8057 Zürich
 'Vitamin B₁₂ as a 'Trojan-Horse' in Therapy'
 Abstract 51

14.30–14.45 *Frank Senner*
 F. Hoffmann-La Roche Ltd., CH-4070 Basel
 'From ASA to SAM: Introducing the PAMPA
 Diagnostic Mode'
 Abstract 52

14.45–15.00 *Ralf Koberstein, H. Aissaoui, C. Boss,
 T. Sifferlen, M. Gude, T. Weller,
 C. Brisbare-Roch, F. Jenck, J. Gatfield, R. Bravo*
 Actelion Pharmaceuticals Ltd.,
 CH-4123 Allschwil

- 'Orexin Receptor Antagonists: A New Therapeutic Principle in Neurology and Psychiatry?'
Abstract 53
- 15.00–15.15 **Holmfridur B. Thorsteinsdottir**, M. Podvinec, T. Schwede, M. Meuwly
University of Basel, CH-4056 Basel
'Efficient Ligand Affinity Calculations Using Novel Computational Methods'
Abstract 54
- 15.15–15.30 **Carsten A. Vock**, P. J. Dyson
Ecole Polytechnique Fédérale de Lausanne, CH-1015 Lausanne
'Ruthenium(II) η^6 -Arene Imidazole Complexes: A New Promising Class of Organometallic Compounds in Anticancer Therapy'
Abstract 55
- 15.30–15.45 **Alexander Titz**, B. Wagner, B. Ernst
University of Basel, CH-4056 Basel
'The Preorganization of the Trisaccharide Core of Sialyl Lewis^x is essential for Binding to E-Selectin'
Abstract 56
- 15.45–16.00 **Peter von Matt**, R. Albert, M. Bigaud, N. Cooke, S. Cottens, J.-P. Evenou, R. Morris, Ch. Pally, R. Sedrani, W. Schuler, M. van Eis, J. Wagner, G. Zenke
Novartis Institutes for BioMedical Research, CH-4002 Basel
'NVP-AEB071: Oral and Specific Inhibitor of T cell Activation for the Prevention of Graft Rejection and the Treatment of Autoimmune Diseases'
Abstract 57
- 16.00–16.15 **Chao Zou**, S. Markovic, R. Walser, O. Zerbe
University of Zurich, CH-8057 Zurich
'Structural and Functional Studies of the N-Terminal Domain of the Y4 GPCR'
Abstract 58
- 16.15–16.30 **Anna K. H. Hirsch**, S. Lauw, P. Gersbach, W. Bernd Schweizer, F. Rohdich, W. Eisenreich, A. Bacher, F. Diederich
ETH Zurich, CH-8093 Zurich
'Non-phosphate Inhibitors of IspE, a Kinase in the Non-mevalonate Pathway and a Potential Target for Antimalarial Therapy'
Abstract 59
- 16.30–16.45 **Frederic Zecri**, R. Albert, C. Beerli, M. Bigaud, V. Brinkmann, C. Bruns, N. Cooke, N. Gray, D. Guerini, K. Hinterding, B. Nüsslein-Hildesheim, C. Pally, S. Pan, C. Spanka, M. Streiff
Novartis Institutes for BioMedical Research, CH-4002 Basel

'The Role of Sphingosine-1-phosphate Receptor Modulators in the Prevention of Transplant Rejection and Autoimmunity'
Abstract 60

- 16.45–17.00 **Bernd Kuhn**, M. Böhringer, H. Fischer, L. Gobbi, M. Hennig, J. Huwiler, B. Löffler, T. Lübbbers, P. Mattei, R. Narquizian, J. Nielsen, H. P. Wessel, P. Wyss
F. Hoffmann-La Roche Ltd, CH-4070 Basel
'Structure-guided Optimization of Aminobenzoquinolizines Towards Low Nanomolar DPP-IV Inhibitors'
Abstract 61

17.00–17.20 Coffee Break

17.20–17.40 Presentation of the Max-Lüthi Award 2007

17.40–18.00 Presentation of the SCS-Mettler-Toledo Prizes for best oral presentation and SCS Prizes for the best posters

Chemical Research

- 11.00–11.30 **General Assembly of the Members**
EPFL, CE 6

Computational Chemistry

- 11.30–13.15 **Lectures**
EPFL, CE 106
Abstracts 88–92
Chair: **U. Röthlisberger**
- 11.30–11.50 **Matija Zlatar^{ab}**, E. Penka Fowe^a, C.-W. Schlapfer^a, C. Daul^a
^aUniversity of Fribourg, CH-1700 Fribourg
^bUniversity of Belgrade, 11001 Belgrade, Serbia
'DFT Study of Jahn-Teller Effect in Cobaltocene'
Abstract 88
- 11.50–12.10 **Izabela Czekaj**, J. Wambach, A. Wokaun
Paul Scherrer Institute, CH-5232 Villigen PSI,
'Electronic Structure of the Ni/ γ -Al₂O₃ Catalyst: DFT Cluster Model Study'
Abstract 89
- 12.10–12.30 **Jakub W. Kamiński^{ab}**, M. Dułak^{ab}, T. A. Wesolowski^a
^aUniversity of Geneva, CH-1211 Genève
^bWrocław University of Technology, 50-370 Wrocław, Poland
'Equilibrium Geometries of Non-covalently Bound Intermolecular Complexes Derived from Subsystem Formulation of Density Functional Theory'
Abstract 90

- 12.30–12.50 **Ivan Tubert-Brohman^a, O. Acevedo^{ab}, W. L. Jorgensen^c**
^aUniversity of Basel, CH-4056 Basel
^bAuburn University, Auburn, AL 36849, USA
^cYale University, New Haven, CT 06520, USA
 ‘Elucidation of the Mechanism of Hydrolysis by Fatty Acid Amide Hydrolase (FAAH) from QM/MM Simulations’
 Abstract 91
- 12.50–13.10 **Matthew D. Wodrich^a, C. Corminboeuf^{ab}, P. v. R. Schleyer^a**
^aUniversity of Georgia, Athens, GA 30602, USA
^bEcole Polytechnique Fédérale de Lausanne, CH-1015 Lausanne
 ‘The Concept of Protobranching and its DFT Treatments’
 Abstract 92
- 13.15–14.20 **Poster Session**
 EPFL, CE 105
 Abstracts 101–114
- 14.20–17.00 **Lectures**
 EPFL, CE 106
 Abstracts 93–100
 Chair: **C. Daul**
- 14.20–14.40 **Stefka Tsintsarska, M. Meuwly**
 University of Basel, CH-4056 Basel
 ‘Rebinding Molecular Dynamics Simulations of Nitric Oxide to the V68F Myoglobin Mutant’
 Abstract 93
- 14.40–15.00 **Teodoro Laino^a, G. Lamoureux^b, J. Hutter^a**
^aUniversity of Zurich, CH-8057 Zurich
^bUniversity of Pennsylvania, Philadelphia, PA 19104, USA
 ‘An Efficient Dual-topology Scheme for Free-energy Calculations’
 Abstract 94
- 15.00–15.20 **I-Chun Lin^a, A. P. Seitsonen^b, I. Tavernelli^a, M. D. Coutinho-Neto^c, U. Röthlisberger^a**
^aEcole Polytechnique Fédérale de Lausanne, CH-1015 Lausanne
^bIMPMC CNRS Université Pierre et Marie Curie, Paris, France
^cUniversidade Federal do ABC, São Paulo, Brazil
 ‘Ab initio Molecular Dynamics Simulation of Liquid Water’
 Abstract 95
- 15.20–15.40 **Michael Devereux, M. Meuwly**
 University of Basel, CH-4056 Basel
 ‘Structural Assignment of Spectra by Characterization of Conformational Substrates in MbCO’
 Abstract 96
- 15.40–16.00 **Jonas M. Hostettler, A. Bach, P. Chen**
 ETH Zürich, CH-8093 Zürich
 ‘Ab initio Surface-hopping Dynamics of Ethyl Radical’
 Abstract 97
- 16.00–16.20 **Angelo Vargas, G. Santarossa, A. Baiker**
 ETH Zürich, CH-8093 Zürich
 ‘Ab initio Dynamics of the Adsorption and Reactivity of Ketones on Pt(111)’
 Abstract 98
- 16.20–16.40 **Stefano Leoni**
 Max-Planck-Institut für Chemische Physik fester Stoffe, 01187 Dresden, Germany
 ‘Solid-Solid Phase Transitions: Nanointerface Reactivity and Formation of Metastable Phases’
 Abstract 99
- 16.40–17.00 **Stephan Lutz, M. Meuwly**
 University of Basel, CH-4056 Basel
 ‘Theoretical Investigation of Infrared Spectra and Pocket Dynamics of Photodissociated Carbonmonoxy Neuroglobin’
 Abstract 100
- 17.00–17.20 **Coffee Break**
- 17.20–17.40 **Presentation of the Max-Lüthi Award 2007**
- 17.40–18.00 **Presentation of the SCS-Mettler-Toledo Prizes for best oral presentation and SCS Prizes for the best posters**

Inorganic and Coordination Chemistry

- 11.30–13.00 **Invited lectures**
 EPFL, CE 6
 Chair: **P. S. Pregosin**
- 11.30–12.15 **Christofer C. Cummins**
 Massachusetts Institute of Technology, Cambridge, MA, USA
 ‘Small Molecule Activation and Generation by Early Transition Metal Complexes’
 Abstract 115
- 12.15–13.00 **Hansjörg Grützmacher**
 ETH Zürich, CH-8093 Zürich
 ‘Chemistry with Aminyl Radical Complexes and Related Compounds: New Perspectives for Catalysis’
 Abstract 116
- 13.15–14.30 **Poster Session**
 EPFL, CE SPO
 Abstracts 127–214

- 14.30–17.00 Lectures**
EPFL, CE 6
Abstracts 117–126
Chair: **K. Severin, T. R. Ward**
- 14.30–14.45 **Marie Hutin, G. Bernardinelli, J. R. Nitschke**
University of Geneva, CH-1211 Genève 4
'Copper(t) Complexes with Reversibly-formed Imine Bonds: Synthetic Control via Self-assembly'
Abstract 117
- 14.45–15.00 **Harriet Struthers^a, B. Spingler^b, T. Mindt^a, R. Schibli^a**
^aETH Zürich, CH-8093 Zürich
^bUniversity of Zurich, CH-8057 Zürich
'Design and Synthesis of Triazole Containing Metal Chelating Systems Suitable for the M(CO)₃-Core (M = ^{99m}Tc, Re), and their Incorporation into Tumor Targeting Peptides'
Abstract 118
- 15.00–15.15 **Jonathon E. Beves^a, E. C. Constable^a, C. E. Housecroft^a, C. J. Kepert^b, M. Neuburger^a, D. J. Price^b, S. Schaffner^a**
^aUniversity of Basel, CH-4056 Basel
^bUniversity of Sydney, 2006 Sydney, Australia
'The Construction of Coordination Networks Incorporating {M(tpy)₂}_n²⁺ (tpy = 2,2':6',2''-Terpyridine) Groups'
Abstract 119
- 15.15–15.30 **Estevão A. Peroza, E. Freisinger**
University of Zurich, CH-8057 Zürich
'A Closer View at the Wheat Metallo-thionein E_c-1 and an Evaluation and Comparison of its Redox Properties'
Abstract 120
- 15.30–15.45 **Cornelia G. Palivan, A. Napoli, W. Meier**
University of Basel, CH-4056 Basel
'Cu(II) Coordination in Self-assembling Copolymer Architectures: Nanovesicles and Micelles'
Abstract 121
- 15.45–16.00 **Jorge Sague^a, K. M. Fromm^a, M. Meuwly^b**
^aUniversity of Fribourg, CH-1700 Fribourg
^bUniversity of Basel, CH-4056 Basel
'Diversity in the Coordination Chemistry of Silver(I): Chains, Polycatenanes, Helices and Chiral Metallacycle Motifs'
Abstract 122
- 16.00–16.15 **László Mercs, M. Albrecht**
University of Fribourg, CH-1700 Fribourg
'Bimetallic Redox Switches Comprising N-Heterocyclic Carbene Spacers'
Abstract 123
- 16.15–16.30 **Nicolas Christinat, R. Scopelliti, K. Severin**
Ecole Polytechnique Fédérale de Lausanne, CH-1015 Lausanne
'Boronic Acids as Building Blocks in Supramolecular Chemistry'
Abstract 124
- 16.30–16.45 **Helen Caldwell, S. Isseponi, P. S. Pregosin**
ETH Zürich, CH-8093 Zürich
'Reactions of Ru(Cp*) complexes with P(o-tolyl)₃'
Abstract 125
- 16.45–17.00 **Adrian B. Chaplin, P. J. Dyson**
Ecole Polytechnique Fédérale de Lausanne, CH-1015 Lausanne
'Catalytic Activity of bis-Phosphine Ruthenium(II)-arene Compounds: Chemoselective Hydrogenation and Mechanistic Insights'
Abstract 126
- 17.00–17.20 Coffee Break**
- 17.20–17.40 Presentation of the Max-Lüthi Award 2007**
- 17.40–18.00 Presentation of the SCS-Mettler-Toledo Prizes for best oral presentation and SCS Prizes for the best posters**

Organic Chemistry

Session A1 Catalytic Synthesis: New Intermediates

- 11.30–13.15 Lectures**
EPFL, CE 1
Abstracts 215–221
Chair: **J. Siegel**
- 11.30–11.45 **Caroline A. Falcioia, A. Alexakis**
University of Geneva, CH-1211 Genève 4
'Allylic Substrates for the Copper Catalyzed Asymmetric S_N2' Reaction'
Abstract 215
- 11.45–12.00 **Kegang Liu, D. Häussinger, W.-D. Woggon**
University of Basel, CH-4056 Basel
'Aldol Reactions in Water Using a β-Cyclodextrin-binding Proline Derivative'
Abstract 216
- 12.00–12.15 **Marian Zajac, R. Peters**
ETH Zürich, CH-8093 Zürich
'Catalytic Asymmetric Formation of β-Sultams'
Abstract 217

- 12.15–12.30 **Jana Lubkoll, H. Wennemers**
University of Basel, CH-4056 Basel
'Bioinspired 1,4-Addition Reactions Catalyzed by Derivatives of Cinchona Alkaloids'
Abstract 218
- 12.30–12.45 **Valentina Aureggi^{ab}, G. Sedelmeier^a, R. Neier^b**
^aNovartis Pharma AG, CH-4057 Basel
^bUniversity of Neuchâtel, CH-2000 Neuchâtel
'Application of Click Chemistry for a Novel Synthesis of 5-Substituted Tetrazoles from Organo Aluminum Azides and Nitriles'
Abstract 219
- 12.45–13.00 **Florian M. Koch, R. Peters**
ETH Zürich, CH-8093 Zürich
'Catalytical Asymmetric Synthesis of β -Hydroxysulfonyl Derivatives'
Abstract 220
- 13.00–13.15 **Alessandro Agosti, B. Sebastian, P. Renaud**
University of Berne, CH-3012 Bern
'Thioiminium Ions: Reaction with Organometallic Reagents and their Use in the Synthesis of Aza-spirocycles'
Abstract 221
- Session B1 Catalytic Synthesis: New Catalysts**
- 11.30–13.15 Lectures**
EPFL, CE 3
Abstracts 222–228
Chair: **N. Finney**
- 11.30–11.45 **Paolo S. Tiseni, R. Peters**
ETH Zürich, CH-8093 Zürich
'Catalytic Asymmetric Formation of δ -Lactones by [4+2]-Cycloaddition of Zwitterionic Dienolates Generated from Acid Chlorides'
Abstract 222
- 11.45–12.00 **David Linder, S. Tortoioli, F. Buron, J. Lacour**
University of Geneva, CH-1211 Genève 4
'Through the Looking-glass of Ruthenium Catalyzed Enantioselective Carroll-like Allylic Rearrangements'
Abstract 223
- 12.00–12.15 **Antje M. Teichert, A. Pfaltz**
University of Basel, CH-4056 Basel
'Screening of Chiral Catalysts by Mass Spectrometric Monitoring of Catalytic Intermediates'
Abstract 224
- 12.15–12.30 **Guoqi Zhang, W.-D. Woggon**
University of Basel, CH-4056 Basel
'A Homochiral Metal-organic Framework Catalyzes Enantioselective Henry Reactions in Aqueous Media'
Abstract 225
- 12.30–12.45 **Sascha Jautze, R. Peters**
ETH Zürich, CH-8093 Zürich
'Ferrocenyl Bisimidazoline Palladacycles (FBIP) as Highly Active and Enantio-selective Catalysts for the Aza-Claisen Rearrangement of Z-configured Allylic N-*para*-Methoxyphenyl Trifluoro-acetimidates'
Abstract 226
- 12.45–13.00 **Andrei Bădoiu, Y. Brinkmann, F. Viton, E. P. Kündig**
University of Geneva, CH-1211 Genève 4
'Asymmetric Lewis acid-catalyzed 1,3-Dipolar Cycloadditions'
Abstract 227
- 13.00–13.15 **Yi-Xia Jia, T. Seidel, E. P. Kündig**
University of Geneva, CH-1211 Genève 4
'Highly Enantioselective Palladium-catalyzed Intramolecular α -Arylation Reaction Using New N-Heterocycle Carbene Ligands'
Abstract 228
- Sessions A & B**
- 13.15–14.30 Poster Session**
EPFL, CE SPO
Abstracts 251–333
- Session A2 Synthesis of Biologically Active Compounds**
- 14.30–14.45 Poster Talks**
EPFL, CE 1
Abstracts 229–232
- Alexandre Walther**, Abstract 229
Stéphane Schweizer, Abstract 230
Markus G. Schrems, Abstract 231
Cristina Nevado, Abstract 232
- 14.45–16.45 Lectures**
EPFL, CE 1
Abstracts 233–240
Chair: **K. Gademann**
- 14.45–15.00 **Lisbet Kvaerno, T. B. Dunn, J. A. Mulder, A. Beauchemin, E. J. Olhava, B. Raymer, M. Juhl, K. Kagechika, D. A. Evans**
Harvard University, Cambridge, MA 02138, USA
'Total Synthesis of (+)-Azaspiracid-1'
Abstract 233
- 15.00–15.15 **Julien Chapelat, A. Chougnet, W.-D. Woggon**
University of Basel, CH-4056 Basel
'Biomimetic Synthesis of Tocotrienols and Tocopherols'
Abstract 234
- 15.15–15.30 **Sylvain Favre, S. Gerber-Lemaire, P. Vogel**
Ecole Polytechnique Fédérale de Lausanne,

- CH-1015 Lausanne
'New Route Toward the Synthesis of AB-Spiroketal of Spongistatin 1'
Abstract 235
- 15.30–15.45 **Christophe Braun, K.-H. Altmann**
ETH Zürich, CH-8093 Zürich
'Enantioselective Total Synthesis of Laurenditerpenol, a Potent Disruptor of Cellular Response to Hypoxia'
Abstract 236
- 15.45–16.00 **Cotinica Hamel, K.-H. Altmann**
ETH Zürich, CH-8093 Zürich
'Towards the First Total Synthesis of the Natural Product Blumiolide C'
Abstract 237
- 16.00–16.15 **Siem Veenstra, P. Schmid, P. Felber, H. Malda**
Novartis Pharma AG, CH-4057 Basel
'Synthesis of 4-Aminopiperidines NK1 Antagonists via Acyliminium Intermediates'
Abstract 238
- 16.15–16.30 **Ulrich Berens^a, O. Dosenbach^a, H.-J. Kirner^a, O. Mai-Huynh^b, C. Malan^b, T. Moessner^a, F. Schwarzenbach^a**
^aCiba Group Research, CH-4002 Basel
^bSolvias AG, CH-4002 Basel
'A Hydrogenation Approach to Enantiopure Di-desmethyl Sibutramin'
Abstract 239
- 16.30–16.45 **Claire-Lise Ciana, C. G. Bochet**
University of Fribourg, CH-1700 Fribourg
'Progress Toward the Total Synthesis of Hyperforin'
Abstract 240
- Session B2 Structure, Property and Design**
- 14.30–14.35 Poster Talk**
EPFL, CE 3
Luc Patiny, Abstract 241
- 14.35–16.50 Lectures**
EPFL, CE 3
Abstracts 242–250
Chair: **C. Bochet**
- 14.35–14.50 **Damien Barbaras^a, K. Gademanna^b**
^aETH Zürich, CH-8093 Zürich
^bEcole Polytechnique Fédérale de Lausanne, CH-1015 Lausanne
'Reversed-polarity Peptides: A Novel Concept for the Design of β -turns'
Abstract 242
- 14.50–15.05 **Samba Shiva Banala, H. O'Hare, K. Johnsson**
Ecole Polytechnique Fédérale de Lausanne,
- CH-1015 Lausanne
'Caged Fluorophores for Labeling of AGT Fusion Proteins'
Abstract 243
- 15.05–15.20 **Cyril Nicolas^a, C. Herse^a, B. Laleu^a, P. Mobian^a, G. Bernardinelli^a, E. R. Francotte^b, T. Burgi^c, J. Lacour^a**
^aUniversity of Geneva, CH-1211 Genève 4
^bNovartis Institutes for BioMedical Research, CH-4002 Basel
^cUniversity of Neuchatel, CH-2009 Neuchâtel
'Exceptionally Stable Carbenium Ions: Synthesis and Applications'
Abstract 244
- 15.20–15.35 **Marie-Stephanie Camus, R. Mimna, A. Schmid, A. Chandravarkar, G. Tuchscherer, H. A. Lashuel, M. Mutter**
Ecole Polytechnique Fédérale de Lausanne, CH-1015 Lausanne
'Switch Peptides as Folding Precursors in Self-assembling Peptides and Amyloid Fibrillogenesis'
Abstract 245
- 15.35–15.50 **Gérald Coste, S. Gerber-Lemaire**
Ecole Polytechnique Fédérale de Lausanne, CH-1015 Lausanne
'Efficient Routes for the Discovery of New RNA Binders'
Abstract 246
- 15.50–16.05 **Ivan R. Corrêa Jr., M. Bannwarth, A. Ruggiu, K. Johnsson**
Ecole Polytechnique Fédérale de Lausanne, CH-1015 Lausanne
'O⁶-Benzylguanine-BAPTA Fluorescent Indicators for Local Calcium Sensing in Living Cells'
Abstract 247
- 16.05–16.20 **Nikolay A. Grigorenko, C. J. Leumann**
University of Berne, CH-3012 Bern
'Functionalized Phenanthrenes as DNA Base Surrogates'
Abstract 248
- 16.20–16.35 **Sara Butterfield, S. Hagihara, H. Tanaka, S. Litvinchuk, S. Matile**
University of Geneva, CH-1211 Genève 4
'Reactive Amplifiers for Multianalyte Sensing with Synthetic Pores'
Abstract 249
- 16.35–16.50 **Sacha Javor, E. Delort, T. Darbre, J.-L. Reymond**
University of Berne, CH-3012 Bern
'Structure and Activity in Single Catalytic Site Peptide Dendrimer'
Abstract 250

17.00–17.20 Coffee Break**17.20–17.40 Presentation of the Max-Lüthi Award 2007****17.40–18.00 Presentation of the SCS-Mettler-Toledo Prizes for best oral presentation and SCS Prizes for the best posters****Physical Chemistry****11.30–13.00 Lectures**

EPFL, CE 4

Abstracts 334–339

Chair: *F. Merkt*

11.30–11.45

M. Thut, A. Steinlin, S. Leutwyler

University of Berne, CH-3012 Bern

‘Excited State H-Atom Translocation Along a Four-membered Ammonia Wire’

Abstract 334

11.45–12.00

*Jaime A. Stearns, M. Guidi, C. Seaiby,**A. Svendsen, O. V. Boyarkin, T. R. Rizzo*

Ecole Polytechnique Fédérale de Lausanne,

CH-1015 Lausanne

‘Conformation-specific Ultraviolet and Infrared Spectroscopy of Cold, Protonated Ac-Phe-(Ala)₅-Lys and Phe-(Ala)₁₀-Lys: Spectroscopic Signatures of Gas Phase Helix Formation’

Abstract 335

12.00–12.15

Carine Manca, M. Quack, M. Willeke

ETH Zürich, CH-8093 Zürich

‘Vibrational Predissociation in Hydrogen Bonded Dimer: The Case of HF and its Isotopomers’

Abstract 336

12.15–12.30

Stephen D. Hogan, F. Merkt

ETH Zürich, CH-8093 Zürich

‘A Zeeman Decelerator for Gas Phase Atoms and Molecules’

Abstract 337

12.30–12.45

*Chris J. Milne^a, W. Gawelda^b, V.-T. Pham^a,
A. El Nahhas^a, R. van der Veen^a, M. Benfatto^c,
Y. Zaushitsyn^d, M. Kaiser^e, A. Cannizzo^a,
D. Grolimund^e, S. L. Johnson^e, R. Abela^e,
A. Hauser^f, C. Bressler^a, M. Chergui^a*^aEcole Polytechnique Fédérale de Lausanne,
CH-1015 Lausanne^bInstituto de Optica, CSIC, 28006 Madrid, Spain^cLaboratori Nazionale di Frascati, INFN, 00044
Frascati, Italy^dUniversity of Berne, CH-3012 Bern^eSwiss Light Source, PSI, CH-5232 Villigen^fUniversity of Geneva, CH-1211 Genève

‘Structural Determination of a Short-lived Excited Iron (II) Complex by Ultrafast X-ray Absorption Spectroscopy’

Abstract 338

12.45–13.00

*Tung Dang, R. Bisson, M. Sacchi, R. D. Beck*Ecole Polytechnique Fédérale de Lausanne,
CH-1015 Lausanne

‘State-resolved Studies of Silane Chemisorption on Si(100)’

Abstract 339

13.00–13.15**Poster talks**

EPFL, CE 4

Abstracts 340–344

Renske M. van der Veen, Abstract 340*Andreas Steinlin*, Abstract 342*Juraj Fedor*, Abstract 343*Monika Grütter*, Abstract 344**13.15–14.30****Poster Session**

EPFL, CE 101

Abstracts 355–398

14.30–17.00**Lectures**

EPFL, CE 4

Abstracts 345–354

Chair: *S. Leutwyler*

14.30–14.45

*Verner K. Thorsmølle, D. Kuang,**S. M. Zakeeruddin, G. Rothenberger, M. Grätzel,**J.-E. Moser*

Ecole Polytechnique Fédérale de Lausanne,

CH-1015 Lausanne

‘Conductivity Measurements of a Redox Active Ionic Liquid Using Terahertz Time-domain Spectroscopy’

Abstract 345

14.45–15.00

Nuria Plattner, M. Meuwly

University of Basel, CH-4056 Basel

‘Analysis of Structures and IR Spectra of Mixed Ices by MD Simulations’

Abstract 346

15.00–15.15

Peter Haider, J.-D. Grunwaldt, A. Baiker

ETH Zürich, CH-8093 Zürich

‘Catalytic Aerobic Alcohol Oxidation on Mixed Oxide Supported Au Nanoparticle. An *in situ* IR and XAS Study’

Abstract 347

15.15–15.30

*Olivier Bräm, A. Cannizzo, A. Ajdarzadeh**Oskouei, F. van Mourik, A. Tortschanoff, M. Chergui*

Ecole Polytechnique Fédérale de Lausanne,

CH-1015 Lausanne

‘A Novel Polychromatic Femtosecond Time-resolved Fluorescence Set-up in the UV for Investigation of Biological and Chemical System’

Abstract 348

- 15.30–15.45 **Zohra Guennoun, S. Albert, M. Quack**
ETH Zürich, CH-8093 Zürich
'High-resolution Infrared Spectroscopy of Cyanodiacetylene (HC₅N): Rovibrational Analysis between 900 and 4000 cm⁻¹ of its Fundamental Bands ν_1 , ν_3 , $2\nu_5$, $2\nu_7$ and $\nu_3 + \nu_5$ and Associated Hot Bands'
Abstract 349
- 15.45–16.00 **Maria G. Santangelo^a, B. Spingler^b, A. Medina-Molner^b, G. Mitrikas^a, A. Schweiger^a**
^aETH Zürich, CH-8093 Zürich
^bUniversity of Zurich, CH-8057 Zürich
'Structural Analysis of Cu(II) Ligation to the GMP Nucleotide by Using Pulse EPR Spectroscopy'
Abstract 350
- 16.00–16.15 **Paul R. Vasos, R. Sarkar, P. Ahuja, G. Bodenhausen**
Ecole Polytechnique Fédérale de Lausanne, CH-1015 Lausanne
'Studies of Molecular Properties and Slow Exchange Using Singlet-state Spectroscopy'
Abstract 351
- 16.15–16.30 **Bogdan C. Ibanescu, O. May, M. Allan**
University of Fribourg, CH-1700 Fribourg
'Electron-driven Chemistry to Ethers'
Abstract 352
- 16.30–16.45 **Cyrille Gautier, T. Bürgi**
University of Neuchâtel, CH-2009 Neuchâtel
'Chiroptical Properties of Chiral Gold Nanoparticles'
Abstract 353
- 16.45–17.00 **Christophe Bauer, B. Wenger, P. Bonhôte, S. M. Zakeeruddin, M. K. Nazeeruddin, M. Grätzel, J.-E. Moser**
Ecole Polytechnique Fédérale de Lausanne, CH-1015 Lausanne
'Dynamics of Ultrafast Light-induced Electron Transfer Through *p*-Phenylene Spacer Bridges Under Non-equilibrium Conditions'
Abstract 354

17.00–17.20 Coffee Break**17.20–17.40 Presentation of the Max-Lüthi Award 2007****17.40–18.00 Presentation of the SCS-Mettler-Toledo Prizes for best oral presentation and SCS Prizes for the best posters****Polymer Chemistry**

- 11.00–11.30 Invited Lecture**
EPFL, BS 160
- Geritt ten Brinke**
University of Groningen, The Netherlands
'Block Copolymer Self-Assembly Involving Competing Length Scales'
Abstract 399
- 11.30–13.10 Lectures**
EPFL, BS 160
Abstracts 401–405
Chair: **R. Mezzenga**
- 11.30–11.50 **Benjamin Le Droumaguet^a, G. Mantovani^b, D. M. Haddleton^b, K. Velonia^a**
^aUniversity of Geneva, CH-1211 Genève 4
^bUniversity of Warwick, CV4 7AL, Coventry, UK
'Formation of Giant Amphiphiles by Post-functionalization of Hydrophilic Polymers'
Abstract 401
- 11.50–12.10 **Riccardo Ruggerone^a, C. J. G. Plummer^a, E. Bourgeat-Lami^b, J.-A. E. Manson^a**
^aEcole Polytechnique Fédérale de Lausanne, CH-1015 Lausanne
^bCPE, CNRS, 69616 Villeurbanne, France
'Effect of Filler Dispersion on the Mechanical Properties in Polystyrene/clay Nanocomposite Films'
Abstract 402
- 12.10–12.30 **Markus Scholl^a, T. Q. Nguyen^a, B. Bruchmann^b, H.-A. Klok^a**
^aEcole Polytechnique Fédérale de Lausanne, CH-1015 Lausanne
^bBASF AG, 67056 Ludwigshafen, Germany
'The Thermal Polymerization of Amino Acids Revisited; Synthesis and Structural Characterization of Hyperbranched Polymers from L-lysine'
Abstract 403
- 12.30–12.50 **Yun Suk Jo, A. van der Vlies, J. Gantz, S. Antonijevic, D. Velluto, J. A. Hubbell**
Ecole Polytechnique Fédérale de Lausanne, CH-1015 Lausanne
'RAFT Homo- and Co-polymerization of Acryloyl-morpholine, Piperidine, Azocane and their Self-assembled Structures'
Abstract 404
- 12.50–13.10 **Diana Velluto^a, D. Demurtas^b, J. A. Hubbell^a**
^aEcole Polytechnique Fédérale de Lausanne, CH-1015 Lausanne
^bUniversity of Lausanne, CH-1015 Lausanne
'PEG-b-PPS Diblock Copolymers Micelles as Vehicles of Hydrophobic Drugs'
Abstract 405

- 13.15–14.30** **Poster Session**
EPFL, BS 170
Abstracts 412–436
- 14.30–15.00** **Invited lecture**
EPFL, BS 160
- Robert Magerle**
Technische Universität Chemnitz, Germany
'Mesoscale Dynamics in Nanostructured Polymeric Fluids'
Abstract 400
- 15.00–17.00** **Lectures**
EPFL, BS 160
Abstracts 406–411
Chair: **H.-A. Klok**
- 15.00–15.20 **Nicolas Sary, C. Brochon, G. Hadziioannou, R. Mezzenga**
University of Fribourg, CH-1700 Fribourg
'Order Creation by Rod Addition in a π -Conjugated Rod-coil Block Co-polymer'
Abstract 406
- 15.20–15.40 **Christopher R. Bradbury, J. Zhao, D. J. Fermín**
University of Berne, CH-3012 Bern
'Charge Transfer Kinetics Across Modified Electrostatic Assemblies of Polyelectrolytes and Metal Nanoparticles'
Abstract 407
- 15.40–16.00 **Matthias Nagel^a, R. Fardel^a, P. Feurer^a, F. Nüesch^a, T. Lippert^b, A. Wokaun^b**
^aSwiss Laboratories for Materials Testing and Research (EMPA), CH-8600 Dübendorf
^bPaul Scherrer Institut, CH-5232 Villigen PSI
'Fabrication of Organic Light-emitting Devices by Laser-induced Forward Transfer Based on Aryltriazene Photopolymer Release Layers'
Abstract 408
- 16.00–16.20 **Eike Jahnke, J. Weiss, P. Kreuzkamp, N. Severin, J. P. Rabe, H. Frauenrath**
ETH Zürich, CH-8093 Zürich
'Molecular Level Control over Hierarchical Structure Formation and Polymerizability of Oligopeptide Substituted Diacetylenes'
Abstract 409
- 16.20–16.40 **Francisco Teixeira Jr., C. Cattin, M. Ledergerber, A. Müller, C. Veber-Nardin**
University of Basel, CH-4056 Basel,
'Nucleo-copolymers: Oligonucleotide-based Amphiphilic Diblock Copolymers'
Abstract 410
- 16.40–17.00 **Daniel Crespy, R. Rossi**
Swiss Federal Laboratories for Materials Testing and Research (EMPA),
CH-9014 St. Gallen
'Temperature Responsive Polymers for Smart Clothing Application'
Abstract 411
- 17.00–17.20 Coffee Break**
- 17.20–17.40 Presentation of the Max-Lüthi Award 2007**
- 17.40–18.00 Presentation of the SCS-Mettler-Toledo Prizes for best oral presentation and SCS Prizes for the best posters**