



SCS
Swiss Chemical
Society

Annual Report 2015

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Introduction

In 2012 the SCS board decided about a new mission statement and defined a three years strategy to implement its measures. By the end of 2014 the SCS Board and the Divisional Boards had implemented most of the initiatives and therefore the main focus in 2015 was to consolidate the offers and to streamline the processes.

With great satisfaction we look back and realize that we moved quite a big step forward. Parallel to the implementation of a lot of new offerings for our members we established certain business continuity that improved quality and reduced risk. Today the SCS has a very solid foundation and enjoys an excellent reputation not only in Switzerland but also internationally. That also means that SCS is ready and willing to grow and to push its role as ambassador and catalyst of the chemical community in Switzerland. We like to thank all our partners and co-workers who supported the SCS in the past years.

Please enjoy reading through the 2015 annual report and discover the variety of activities that were organized and provided by the Society. Aligned to our mission statement we organized numerous events, awarded excellence in science research, published CHIMIA, participated in partner journals and represented the Swiss chemical community in national and international bodies.

With the end of 2015 the term of Peter Kündig's presidency ended and in the name of the Society and Alain De Mesmaeker, SCS President 2016-18, I like to express my appreciation and thank him for his outstanding achievements. It was a fantastic and exiting time that we could spend together during the past five years. Thank you, Peter!

In 2016, under the leadership of the new President, Alain De Mesmaeker, we will start a new strategy term and we will push existing and new initiatives to strengthen the position of SCS and the chemical community as a whole. It's a challenging period that lies ahead of us but we are convinced that we are ready to face it. We will take the role as initiator and supporter of the workplace Switzerland on academic and industrial level and hope to provide an essential part to keep Switzerland as a prime spot for scientific research.

Prof. E. Peter Kündig
President 2010-2015

David Spichiger
Executive Director

SCG Events 2015 at a Glance

David Spichiger

- 23.-25.01.15 13th Swiss Snow Symposium by SYCA, Saas Fee
- 10.-11.04.15 CHanalysis 2015 by DAS, Beatenberg
- 23.-24.04.15 12th Freiburger Symposium by DIAC, Fribourg
- 24.04.15 SCS Spring Meeting 2015, Basel
- 03.07.15 PolyColl 2015 by DPCI, Fribourg
- 04.09.15 SCS Fall Meeting 2015, Lausanne
- 08.09.15 SCS Photochemistry Section Annual Meeting 2015, Zürich
- 15.10.15 SCS-Syngenta Symposium 2015, Stein
- 16.10.15 The Expanding Toolbox of Medicinal Chemistry 2015 by DMCCB, Basel

SCS Award Winners 2015

David Spichiger

The SCS awarded seven individuals and one group for their outstanding contributions. A total sum of CHF 77'000 as well as medals and award certificates were given to the prizewinners.

Werner Prize

CHF 10'000 and medal in bronze; awarded to a promising young scientist for outstanding independent chemical research. The award was given to



Prof. Gilles Gasser,
University of Zurich
for his outstanding contributions in the field of medicinal inorganic chemistry and of inorganic chemical biology.

The prize was given on the occasion of the SCS Spring Meeting in Basel on April 24, 2015.

Grammaticakis-Neumann Prize

CHF 5'000; awarded to a promising young scientist for outstanding independent research in photochemistry, photo physics or molecular photobiology. SCS honored



Prof. Natalie Banerji,
University of Fribourg
for her studies providing insight into photophysical processes of polymeric semiconductors.

The prize was given on the occasion of the SCS Fall Meeting in Lausanne on September 4, 2015.

KGF-SCS Distinguished Industrial Investigator Award

CHF 15'000; awarded to honor senior R&D scientists in Switzerland for their lifetime achievements. The award was given to



Dr. Jürg Zimmermann,
Novartis Pharma AG
for the ground breaking discovery of protein kinase inhibitors, which had a tremendous impact on the research and therapy of cancer and other diseases. The discovery and development of Imatinib (Gleevec) has revolutionized the therapy of certain forms of leukemia, and also had a tremendous impact on research projects both in industry and academia.

KGF-SCS Senior Industrial Investigator Award

CHF 10'000; awarded to honor very successful and established investigators in Switzerland with outstanding achievements over many years. KGF and SCS honored



Dr. Michelangelo Scalone,
F. Hoffmann La Roche,
for his outstanding contributions to the design of new, short and cost-efficient syntheses for many development projects by applying asymmetric catalytic reactions, and for his longtime success and expertise in leading the Center of Excellence Catalysis at Roche.

KGF-SCS Industrial Investigator Award

CHF 7'000; awarded to honor successful investigators with outstanding achievements. The award was given to



Dr. Dietmar Hüglin,
 BASF Schweiz AG,
 for his contribution in developing new ingredients for consumer product markets and specifically for the discovery, research & development of cosmetic UV absorbers combining chemistry with nano-technology. These innovations are setting currently the global standards in high performance photo-protection of human skin.

All KGF-SCS award lectures took place at the SCS Fall Meeting, EPF Lausanne, September 4, 2015.

Sandmeyer Award

CHF 20'000; awarded to a person or to a group for outstanding work in industrial or applied chemistry.



The award was given to the Team comprising researchers from Actelion Pharmaceuticals, Solvias, Swissi Process Safety, and the Universities of Applied Sciences of Zurich and Fribourg, namely,

Dr. Stefan Abele, Actelion Pharmaceuticals Ltd,
Dr. Jacques-Alexis Funel, Actelion Pharmaceuticals Ltd,
Dr. Gunther Schmidt, Actelion Pharmaceuticals Ltd,
Prof. Roger Marti, Hochschule für Technik und Architektur Fribourg,
Dr. Christian Mössner, F. Hoffmann La-Roche, former Solvias AG and

Mr. Mischa Schwaninger, Swissi Process Safety, a member of TÜV SÜD Group
 for the conception and successful scale-up of Diels–Alder reactions and organocatalysis leading to enantiomerically pure 5-phenylbicyclo[2.2.2]oct-5-en-2-one, a key intermediate for the production of an L/T calcium channel antagonist.

The award lecture was given on the occasion of the SCS Fall Meeting in Lausanne on September 4, 2015.

Balmer Prize

CHF 2,000 for the winner and medal in bronze plus CHF 2,000 for the chemistry department of the school.



Mr. Francis Mingard,
 Gymnase de Nyon
 for the development of didactic chemistry experiments and for making them available on the web.

The prize is given on the occasion of the central education course for science teachers, organized by the VSN in Schaffhausen on October 14-16, 2015.

Dr. Max Lüthi Award

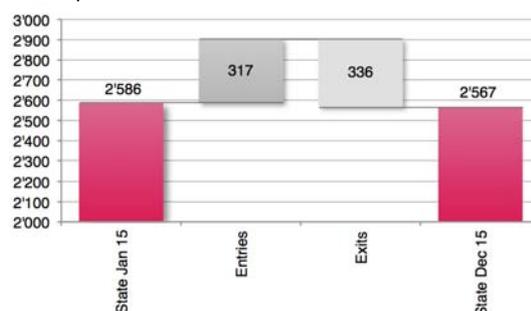
CHF 1,000 and medal in bronze; presented for an outstanding diploma thesis in Chemistry conducted at a Swiss University of Applied Sciences. SCS awarded



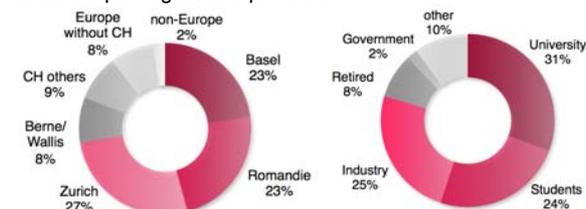
Mr. Yvan Mongbanziama,
 HEIA Fribourg
 for his Bachelor thesis describing the synthesis and characterization of a new enantiomerically pure verdazyl radical derived from pinene.
 The prize is given on the occasion of the ILMAC Forum on September 23, 2016.

Member Statistics (December 2015)

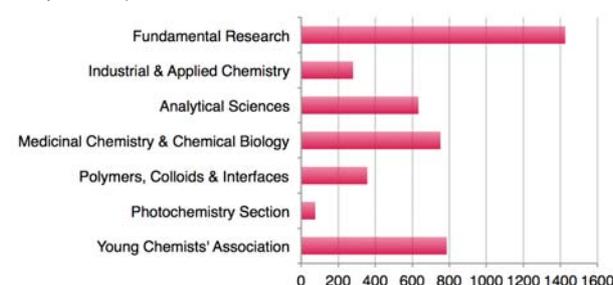
Development of members 2015: -19



Members per region and profession



Members per SCS Division (multiple subscription per member are possible)



Executive Board and Board of Directors

David Spichiger

Executive Board ExB

- Prof. E. Peter Kündig, University of Geneva
SCS President
- Dr. Alain De Mesmaeker, Syngenta Crop Protection AG
SCS Vice President and President elect
- Dr. Roland Kunz, University of Zurich
President CHIMIA
- Dr. Hans Peter Lüthi, ETH Zurich
SCS Treasurer
- David Spichiger, Swiss Chemical Society
SCS Executive Director

Board of Directors BoD (in addition to the ExB members)

- *Dr. Yves Auberson*, Novartis Pharma AG
President Division of Medicinal Chemistry
- *Prof. Christian Bochet*, University of Bern
President Division of Fundamental Research
- *Prof. Christophe Copéret*, ETH Zurich
Responsible for national and international relations
- *Prof. Sandrine Gerber*, EPF Lausanne
Member of the board
- *Prof. Christian Hinderling*, ZHAW
President Division of Polymers, Colloids & Interfaces
- *Prof. Gérard Hopfgartner*, University of Geneva
President Division of Analytical Sciences
- *Dr. Cédric Invernizzi*, LABOR SPIEZ
Member of the board
- *Dr. Bernhard Urwyler*, Syngenta Crop Protection AG (new)
President Division of Industrial & Applied Chemistry
- *Dr. Martin Vollmer*, Clariant International Ltd
Member of the board

After six years as SCS President, *E. Peter Kündig* stepped down at the end of 2015. The Society thanks him for his outstanding achievements and his visionary leadership. Peter Kündig keeps the mandate as Swiss ChemPubSoc delegate and represents SCS in the HCA Executive Board. *Alain De Mesmaeker* took over the Presidency as of January 2016.

Prof. Philippe Renaud handed over the presidency of DFR to *Prof. Christian Bochet* with effect of January 1, 2015. *Cédric Invernizzi* stepped down as member of the board after his three years term. We would like to thank them for their contributions to the success of the society and the DFR division.

Principal Supporters of the Swiss Chemical Society and the SCS Foundation

With sincere thanks we would like to honor our main sponsors for their generous support. Thanks also go to all our divisional event sponsors that supported the SCS during the year.

- KGF, Kontaktgruppe für Forschungsfragen:
 - General supporter of the SCS
 - Support of the award program (Paracelsus Prize, Werner Prize, Balmer Prize)
 - Support of divisional Events
- Actelion Pharmaceuticals AG: Project sponsor of the SCS Foundation
- Metrohm Foundation: Sponsor of the Best Oral Presentation Awards at the Fall Meeting
- DSM Nutritional Products SA: Sponsor of the Best Poster Awards at the Fall Meeting
- Swiss Academy of Natural Sciences (SCNAT) and Swiss Academy of Technical Sciences (SATW): project and event sponsors
- BASF, Firmenich, Givaudan, Lonza, Novartis, Roche, Syngenta: Supporter of the Alfred Werner Master Scholarships. SCS Foundation took over the initiative from the 'Stiftung auf dem Gebiete der Chemie' as per January 2015 and integrated the program into the SCS Foundation portfolio.


Society's activities and Head Office

www.scg.ch

David Spichiger

R&D Heads Network event, Basel

After a very successful event in October 2014, SCS continued the initiative of Clariant's CTO, Martin Vollmer, to organize an event for R&D heads from industry and directors of chemistry departments of Swiss universities. On 29 October 2016, about 25 executives met in Basel to discuss the topic "Why to perform industrial R&D in Switzerland". After the introduction presentation by Alain De Mesmaeker the participants continued the discussions during the aperitif and the dinner.

The goal of the event is to provide a platform within the SCS network to strengthen the interaction and knowledge exchange between research executives and stimulate the collaboration between industry and academia in Switzerland.

ChemPubSoc Europe

In its second year as a full member of the ChemPubSoc community the SCS could profit again from a respectable royalty payment of 'Chemistry a European Journal'. The return on investment was 5.8% or about EUR 21'000.

SCS (will) also financially profit from ChemPubSoc titles that were launched as of 2010. After initial terms of four or five years without any payout, SCS receives royalties from ChemCatChem (since 2014), ChemistryOpen (2017), ChemPlusChem (2017) and ChemElectroChem (2019).

SCS supported the marketing initiatives of ChemPubSoc and ChemistryViews on its website and in CHIMIA.


Collaboration agreement with Thieme and RÖMPP

As of Jan 1, 2014 SCS members can get a personal subscription to the new online version of the RÖMPP encyclopedia at a reduced annual fee of CHF 175 for regular members and CHF 75 for students. The partners continued the collaboration in 2015 and extended the offer to Swiss secondary school libraries.

SCS Conference Tool

The second release of the SCS conference tool was implemented for the Fall Meeting 2015 and provides useful support for conference organizers. As of 2016 the abstract module and the online schedule will be used for all kind of SCS conferences and the goal is to further develop the application to provide services for non-SCS events as well.

Support from the Head Office for SCS Divisions

The support of divisional activities is one of the key factors for a successful society. The head office supports its divisions in the following fields:

- Financial management including sponsoring for all SCS events
- Communication support (e.g. flyers, newsletters, forms and webpages)
- Legal advice and general consulting

Relocation of the Head Office to the Haus of Science

In April 2015 the Offices of the Society moved from Schwarztortstrasse 9 to Laupenstrasse 7 in Bern. Right next to the railway station the House of Science offers also a fantastic infrastructure for meetings and workshops.

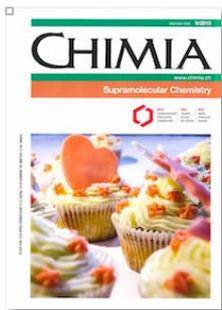
CHIMIA

www.chimia.ch,

www.ingentaconnect.com/content/scs/chimia

Dr. Roland Kunz, Chairman of the Editorial Board

CHIMIA



This year's issues were again organized and supervised by recognized specialists. It is with great pleasure that I thank them for all their voluntary work. Our guest editors in 2015 in the order of their appearance were: Anders Hagfeldt (EPF Lausanne), Ning Yan (National University of Singapore), Hans Peter Lüthi (ETH Zürich), Berend Smit (EPFL Sion), Gabor Laurenczy (EPF Lausanne) and Matthias Beller (LIKAT Rostock), Sandrine Gerber (EPF Lausanne) and Christian Bochet (University of Fribourg) and Paul J. Dyson (EPF Lausanne), Bruno Therrien (University of Neuchâtel), Oliver Kröcher (PSI Villigen), Thomas Schmidt (ETH Zürich) and Jörg Roth (PSI Villigen).

In 2015 (volume 69) CHIMIA published the following issues:

- 1-2 Chemistry and Light
- 3 Singapore – Swiss Connections
- 4 Laureates: Junior Prizes of the SCS Fall Meeting 2014
- 5 Sion, a New Center for Chemistry and Chemical Engineering in Valais
- 6 Catalytic Activation of Small Molecules
- 7-8 Scientific Fall Meeting 2015 of the Swiss Chemical Society (SCS)
- 9 Supramolecular Chemistry
- 10 SCCR BIOSWEET – The Swiss Competence Center for Energy Research on Bioenergy
- 11 Supramolecular Chemistry 2
- 12 Energy Storage Research in Switzerland – The SCCER Heat & Electricity Storage

The program and laureates articles of the SCS Fall Meeting as well as a report of the SCS Spring Meeting were again the annually recurring fix points in the editorial program. Conference reports and regular columns like the Swiss Science Concentrates, Highlights of Analytical Chemistry, Highlights in Polymer and Colloids Chemistry, contributions from the Universities of Applied Sciences and of the Swiss Academy of Sciences complement the topical part.

Changes in the Board

- 2015 was Prof. Paul J. Dyson's first year as Editor-in-Chief. His term will end in 2017 and the CHIMIA EB is currently looking for a successor who wants to take over this position as of 2018.
- Prof. Jérôme Lacour left the EB by the end of 2015. He has been a board member since 2005 and, as Editor-in-Chief, responsible for the scientific contents of CHIMIA since 2011. I thank him – personally, and on behalf of my colleagues on the board – for all his efforts involved in the successful realization of the scientific program and the implementation of new ideas.
- Dr. Peter Maienfisch stepped down from the board by the end of 2015 but he kindly offered to continue until his successor – Dr. Sarah Sulzer-Mosse (Syngenta) – returns from her maternal leave.
- Prof. Karl-Heinz Ernst also left the EB by the end of 2015. We are happy to welcome his successor, Prof. Jürgen Stohner (ZHAW Wädenswil), as our news editor.

EuCheMS

www.euchems.org

David Spichiger and David Cole-Hamilton
(via EuCheMS Newsletter 1/2015)

About EuCheMS

EuCheMS acts as a single independent voice for chemistry in Europe. EuCheMS advises the European Parliament and Commission on chemistry topics and promotes excellence in European research via continuous collaboration with the European Research Council. The organization ensures that chemistry is well represented in European projects and responds to a variety of consultations from the European institutions on chemistry topics, such as water, phosphorus or mercury. EuCheMS runs the biennial European Chemistry Congress and has divisions and working parties, which run biennial conferences and summer schools in most areas of chemistry as well as other activities. It awards a range of European prizes and lectureships for chemistry and together with the European Chemistry Thematic Network Association (ECTN) promotes high quality teaching of chemistry in European universities.

In 2015 EuCheMS published 4 Newsletters and a monthly EuCheMS Brussels News Update. SCS re-published them on the SCS website as well.

Division delegates of the Swiss Chemical Society

Even if the SCS assigned delegates to almost every division within EuCheMS, the activities and interactions between SCS and EuCheMS was poor. Only four Swiss delegates participated at a EuCheMS divisional meeting.

- Prof. Heinz Berke, Universität Zürich
Member of the Working Party on Chemistry and Energy
- Prof. Jeff Bode, ETH Zürich
Member of the Division of Organic Chemistry
- Prof. Thomas Bürgi, Université de Genève
Member of the Division of Physical Chemistry
- Prof. Urban Frey, HESSO/VS
Member of the Division of Analytical Chemistry
- Prof. Walter Giger, EAWAG
President of the Division of Chemistry and the Environment
- Prof. Michael Graetzel, EPFL
Member of the Working Party HORIZON 2020
- Dr. Thomas Gude, SQTS/Migros
Member of the Division of Food Chemistry
- Dr. Klemens Koch, Seeland Gymnasium Biel
Member of the Division of Education
- Dr. Hans-Peter Lüthi, ETH Zurich
Member of the Division of Computational Chemistry
- Prof. Clément Mazet, Université de Genève
Member of the Division of Organometallic Chemistry
- Prof. Umberto Piantini, HEVS
Member of the Division of Food Chemistry
- Prof. Kay Severin, EPFL
Member of the Division of Inorganic Chemistry
- Prof. Roland Sigel, University of Zurich
Member of the Division of Chemistry in Life Science

EuCheMS General Assembly, Vienna (AUT), Oct 28-29, 2015

In one of EuCheMS largest General Assemblies, members reinforced their commitment towards European chemistry and discussed new directions for the future.

The assembly marked EuCheMS growth, with the integration of three new supporting members, Fraunhofer Institute for Interfacial Engineering and Biotechnology IGB, FECCIA, and ERIC, thus elevating the number of EuCheMS Members to the number of 46. The Assembly approved a membership fee increase of about 10% and appreciated the work that is done by the head office in Brussels and its increase of influence on decisions in the European parliament.

Prof. Reiner Salzer presented the outcomes and future of the European Employability Survey for Chemists and Chemical

Engineers and Dr. Robert Parker, RSC Chief Executive, talked on Public Attitudes Towards Chemistry. Regretfully SCS had to take note that the Swiss candidate for the Executive Board, Prof. Christophe Copéret, ETHZ, was not elected. New elected members in the Board are Prof. Bogusław Buszewski and Dr Philippe Garrigues. David Spichiger represented the SCS at the General Assembly in Vienna.



EuCheMS delegates at the General Assembly in Vianne.

Division of Fundamental Research DFR

www.scg.ch/dfr/

Prof. Christian Bochet

Activities, Symposia, Conferences, Projects



SCS Spring Meeting 2015, University of Basel

Prof. Thomas Ward and Marcel Mayor organized the Spring Meeting 2015 at the University of Basel. "The Chemistry of Complex Systems" was the common theme, and five outstanding lectures, keeping a full auditorium fascinated, were given by Itamar Willner (Jerusalem, Picture), Stefan Matile (Geneva), Roeland Nolte (Nijmegen), Jason Chin (Cambridge) and Werner Prize laureate Gilles Gasser (Zürich).

SCS Fall Meeting, EPFL

Once again, the spotless organization by Sandrine Gerber brought together more than 750 participants at the EPFL, to hear or see more than 520 lectures or posters in eight sessions:

- Analytical Sciences: 35 Posters, 12 Talks
- Catalysis Science and Engineering: 60 Posters, 11 Talks
- Computational Chemistry: 28 Posters, 13 Talks
- Inorganic Chemistry: 63 Posters, 12 Talks
- Medicinal Chemistry & Chemical Biology: 60 Posters, 14 Talks
- Organic Chemistry: 63 Posters, 14 Talks
- Physical Chemistry: 53 Posters, 12 Talks
- Polymers, Colloids and Interfaces: 48 Posters, 12 Talks

During this meeting, several scientists or teams were awarded, including Prof. Natalie Banerji (Fribourg), with the Grammaticakis-Neumann Award, Dr. Dietmar Hüglin (BASF), with the KGF-SCS Industrial Investigator Award, Dr. Michelangelo Scalone (F. Hoffmann-La Roche), with the KGF-SCS Senior Industrial Investigator Award, Dr. Jürg Zimmermann (Novartis Pharma), with the KGF-SCS Distinguished Industrial Investigator Award, and the team of Dr. Stefan Abele, Dr. Jacques-Alexis Funel and Dr. Günther Schmidt (Actelion Pharmaceuticals), Prof. Roger Marti (Fribourg), Dr. Christian Mössner and Mischa Schwaninger (Swiss Process Safety) who received collectively the Sandmeyer Award.

Metrohm and DSM sponsored again the Best Oral and the Best Poster Presentation awards and all in all 39 winners received a travel award and/or a cash check. Many thanks to the two generous sponsors!



In addition to the award sponsors, the following companies and institutions supported the event: KGF, QEERI, SCNAT, EPFL-SBS, Clariant, Actelion, Syngenta, Bruker and Dow.

A total of 15 companies participated at the commercial exhibition and profited from the close interaction with the event participants.

Support to conferences

Several conferences or initiatives were supported by the DFR, including

- 50th Bürgenstock Conference (Brunnen),
- Chimiscope (Geneva), the Ultrafast Dynamic Imaging of Matter (Grindelwald) and
- XVIIth International Workshop on Quantum Atomic and Molecular Tunneling in Solids and Other Phases (Beatenberg).

SCS Lectureships

Continuing the program initiated in 2013, a series of very successful lecture tours took place, during the whole year:

- Prof. Eric T. Kool, Stanford University (US)
«Designer DNA Bases: Probing Molecules and Mechanisms in Biology»
Host: Prof. Nicolas Winssinger, University of Geneva
Mon, 12.01.2015 - 16.01.2015
- Prof. Graham Cooks, Purdue University (US)
«Mass Spectrometry for Medical Diagnostics, Organic Synthesis and Materials Fabrication»
Host: Prof. Christophe Copéret, ETH Zurich
Mon, 16.03.2015 - Fri, 20.03.2015
- Prof. Guy Bertrand, University of California (US)
«Stable carbenes and related species: Powerful tools in organic, inorganic and organometallic chemistry»
Host: Prof. Hansjörg Grützmacher, ETH Zurich
Mon, 13.04.2015 - Fri, 17.04.2015
- Prof. Kenichiro Itami, Nagoya University (JP)
«C-H Activation Catalysis for Carbon Materials and Plant/Animal Biology»
Host: Prof. Georg Süß-Fink, University of Neuchâtel
Mon, 13.04.2015 - Fri, 17.04.2015
- Prof. Tristan Lambert, Columbia University
«Advances in Catalysis via the Exploration of Novel Ionic Structures»
Host: Prof. Jérôme Waser, EPF Lausanne
Fri, 17.04.2015 - Thu, 23.04.2015
- Prof. Michael R. Wasielewski, Northwestern University (US)
«Photoinitiated Charge Transport in Self-assembled Organic Nanostructures» and
«Integrated Molecular Systems for Artificial Photosynthesis»
Host: Prof. Oliver S. Wenger, University of Basel
Mon, 04.05.2015 - Fri, 08.05.2015
- Prof. Kazuya Kikuchi, Osaka University (JP)
«Design Strategy of Molecular Imaging Probes which Convert Biological Signals to Chemical Output»
Host: Prof. Nicolas Winssinger, University of Geneva
Mon, 18.05.2015 - Fri, 22.05.2015
- Prof. Shunichi Fukuzumi, Osaka University (JP)
«New Strategies for Artificial Photosynthesis»
Host: Prof. Oliver Wenger, University of Basel
Mon 19.10.2015 - Fri, 23.10.2015
- Prof. Huw Davies, Emory University (US)
«Collaborative Approach for C-H Functionalization»

Host: Prof. Nicolai Cramer, EPF Lausanne
Tue, 01.12.2015 - Tue, 08.12.2015

Thanks to the Platform Chemistry of the SCNAT that financially supports the tours.

Heilbronner-Hückel Lecture tour

This year's Heilbronner-Hückel Lecture tour was given by Prof. Paul Knochel (Ludwig-Maximilians-Universität München) in the Spring. He presented his research at ETH Zürich, University of Bern, EPF Lausanne and University of Basel.

Changes in the Board

- Prof. Bruno Therrien (UniNE) replacing Prof. Georg Süss-Fink
- Prof. Andreas Züttel (EPFL) replacing Prof. Hubert Girault
- Prof. Thomas Bürgi (UniGE) replacing Prof. Alan Williams
- Cornel Fink replaced Simona Mazza, as representative of the Swiss Young Chemist's Association

Outlook 2016

- Spring Meeting in Zürich "Green Chemistry", April 22
- Fall Meeting in Zürich, on September 15
- SCS-Lectureships: 8-10 lecture tours are foreseen

Photochemistry Section PCS

Dr. Silvio Canonica

Conferences and Activities

1st Swiss Meeting on Photochemistry 2015

Prof. Kristopher McNeill and Dr. Silvio Canonica organized this one-day meeting at ETH Zurich on 8 September 2015. The symposium included three keynote talks in environmental photochemistry (Prof. Fernando Rosario-Ortiz, Boulder, Colorado (USA); Prof. Davide Vione, Torino (I); Dr. Claire Richard, Clermont-Ferrand (F)) and nine talks from various areas of photochemistry. The response of the about thirty participants in the symposium was very positive. The Committee of the Section will promote the symposium and intends to organize the event on different topics and in different host institutions on a yearly basis.

General Assembly 2015

The GA of the Photochemistry Section took place during the meeting on September 8.

CECP 2016

Dr. Alexandre Fürstenberg acted on behalf of the Photochemistry Section as a co-organizer of the eighth Central European Conference on Photochemistry, CECP 2016, taking place in February 2016 in Bad Hofgastein, Austria.

Outlook 2015

- Promoting the organization of the second one-day meeting on photochemistry in Switzerland.
- Contributing to the organization of the Central European Conference in Photochemistry in Bad Hofgastein (Austria) February 2016.

Division of Analytical Sciences DAS

www.scg.ch/das/

Prof. Gérard Hopfgartner

Activities, Symposia, Conferences, Projects

CHanalysis 2015

The second meeting of the Swiss analytical scientists, CHanalysis 2015 was held from April 10–11, 2015 in Dorint Hotel in Beatenberg. In this year event three major topics were addressed in oral and posters sessions with about 80 participants: 1) labeling strategies, 2) imaging, and 3) small molecules.

42nd International Symposium of High Performance Liquid Phase Separations and Related Techniques (HPLC 2015)

After his first edition in 1973 in Interlaken and 1991 in Basel it was the third time the HPLC conference was hosted in Switzerland. The conference was held in Geneva on June 21–25, 2015 and attracted 1100 delegates from 50 countries. The goal of this prime analytical symposium was to bring together leading scientists in the field of liquid separations



During the conference Prof. Gerard Hopfgartner handed over the Simon-Widmer Award 2015 to Professor Detlev Günther for his numerous contributions in the field of analytical sciences.

Analytical Bioanalytical Chemistry (ABC) journal

The DAS is co-owner of the ABC journal which has now reached an impact factor of 3.436. We strongly encourage our members to submit their work to ABC.

Highlights of Analytical Chemistry in Switzerland column

Veronika Meyer successfully coordinates, the Highlights of Analytical Chemistry in Switzerland column in CHIMIA which presents the diversity and excellence of analytical research in Switzerland.

Continuous education courses

The continuous education team of the DAS in collaboration with the Centre de Compétences en Chimie et Toxicologie Analytiques (ccCTA) (www.cccta.unige.ch/) organized courses on continuous education in analytical chemistry. Thanks an excellent organization and an attractive program the courses are very well attended. Ernö Pretsch, Verena Schmid, Lilo Weishaupt, Peter Oggenfuss and Roland Looser build the core team of the DAS education courses.

Changes in the Board

Fritz Erni and Christian Staub left the board of the DAS. Fritz Erni is one of the founding member of SACH - DAC - DAS and since 1991, he served 24 years with great enthusiasm and efficiency on the board as Treasurer and President (2005 – 2009). The DAS is grateful to both of them for their valuable contributions.

Outlook 2016

- The third edition of CHanalysis 2016, a meeting of Swiss analytical scientists will be held on 18-19 November 2016 in Beatenberg. The goal is to stimulate a stronger cooperation among persons (academia, industry and governmental agencies) working in the different areas of analytical sciences.
- In 2016 the DAS will have its 25 years founding anniversary.

Division of Industrial & Applied Chemistry DIAC

www.scg.ch/diac/

Dr. Bernhard Urwyler

Activities, Symposia, Conferences, Projects

Annual Meeting of DIAC, at Schweizer Salinen in Pratteln on March 12th 2015:

The annual DIAC meeting took place at Schweizer Salinen AG in Pratteln BL. Dr. Urs Chr. Hofmeier welcomed the participants

and presented the "Schweizer Salinen AG". Three saltworks belong to Schweizer Salinen AG. The 3 sites are located in Schweizerhalle (BL), Riburg (AG) and Bex (VD). 2014 Rhine AG and Saline de Bex SA merged to form Schweizer Salinen AG, it became the only salt producer within Switzerland, having now the monopoly position. Swiss Saltworks supplies the whole of Switzerland with salt. About half of the annual production volume – some 600,000 tonnes in total – is used as de-icing salt to ensure the safety of road traffic in winter.

After this interesting introduction of the salt production in Switzerland, Mr. Nicolas Herold, Head of Site Supply Operation at Syngenta Monthey SA, gave us a presentation about the perspective of Chlorine transportation within Switzerland, a topic which concerns all Swiss chemical production sites and which is actually emotionally discussed in all media. Mr Herold is working in a task force team with the aim to analyse the situation and to provide proposals for the future chlorine transport in Switzerland. He explained how Chlorine transport actually is discussed and how the situation and its potential solution could look like. The several options for a solution have been presented. The Q&A and final discussions proved the participants interests of this topic. It was well linked to the saltworks production in CH, as one of the potential solutions is the local production of Chlorine from salt of the Swiss mines as already existing at CABB.

Schweizer Salinen AG offered to all participants an excellent meal in the guest restaurant. All participants were then invited to make a tour around the salt works in Pratteln and finally to get a presentation at the salt works Museum telling the history of Swiss saltworks.



Mr. Nicolas Herold (Presentation of Chlorine Transport in CH), Dr. Urs Chr. Hofmeier (CEO Schweizer Salinen AG) and Dr. Bernhard Urwyler, SCS DIAC in the Schweizer Salinen salt Museum in Pratteln BL.



Lecture hall at the Freiburger Symposium 2015

Freiburger Symposium 2015

The 12th Freiburger Symposium took place on April 23rd and 24th under main title: "Smart Solutions in the Chemical Process & Product Development, Case Studies from the Chemical Industry". The two DIAC board members Dr. Kerstin Bodmann (Lonza Group) and Prof. Dr. Roger Marti HES Fribourg have led the scientific coordination. Again more than 100 industrial professionals and students attended the symposium and gave us their positive feedback. The dinner together with the speakers and board members stimulated a positive networking among the participants. The presentations of two Sandmeyer award lectures from 2014 and 2015 as well as the key note presentation, given by Richard Ridinger, CEO of the LONZA Group, were for the first time integrated in the Freiburger Symposium in 2015 with a very positive response.



Richard Ridinger, CEO Lonza Group during his keynote lecture about: "Chemical Development and Production in Switzerland, Challenges, Opportunities and Future Trends from Lonza's perspective"

The presentations were of high quality and well accepted by the participants.

Again several sponsors from the industry contributed to the positive financial result of the Symposia, which will sponsor in the future the Sandmeyer award.



Dr. Harald Walter, Syngenta, Sandmeyer award winner 2014. Richard Ridinger, CEO Lonza Group, Dr. Stefan Abele, Actelion, Sandmeyer award winner 2015

ZHWA visit:

Two DIAC board members visited the final diploma students in Wädenswil at the ZHAW. Prof. Dr. A. Ecker "Studienleiter" and Prof. Dr. Chr. Hinderling, "Instituteleiter" welcomed the DIAC in Wädenswil, Dr. K. Bodmann Lonza Group and Dr. B. Urwyler Syngenta, presented the DIAC and their activities and led subsequently a discussion about "networking and chemists networks".

DIAC workshop in Ascona (TI):

The DIAC board updated its strategy and defined the goals and the main activities planned in 2016 in a two day workshop at Ascona (TI). The main objectives in 2016 will be:

- Continuous training & knowledge exchange
 - To increase the DIAC brand awareness,
 - To increase political influence and lobbying.
- DIAC also decided to reduce the membership fee for students and PhD students to the same fee as the other SCS member fees for students: CHF 50.- which means to remit the additional special DIAC fee of CHF 20.-



Picture 5: DIAC board at the workshop in Ascona (TI) in October 2015.

Changes in the Board

- All actual DIAC board members granted another year working in the SCS DIAC board.
- CHIMIA Advisory Board: Xenia will replace Walter Jucker in the Advisory Board of CHIMIA to represent the DIAC from 2016 onwards.

Outlook 2015

- Annual Meeting DIAC 2016 will take place at BASF in Kaisten on April 7, 2016. The final date and location are not yet confirmed.
- FH visits and discussions with young chemists: In spring 2016 two next networking sessions at the FH Muttentz and HES-SO in Sion, inviting young students to a DIAC presentation and discussion.
- Special issue CHIMIA: DIAC will contribute parts of the CHIMIA ILMAC issue in September 2016, Title: Game Changing Innovation (Cases, Concept, Methods, Approach) in Chemical Production
- Freiburger Symposium 2017: 11.-12. May 2017 in Freiburg. The title of the 13th Freiburger Symposium will be: Green Chemistry: Real Cases, From Concept to Reality

Division of Medicinal Chemistry & Chemical Biology DMCCB

www.scg.ch/DMCCB/

Dr. Yves Auberson

Activities, Symposia, Conferences, Projects

Frontiers in Medicinal Chemistry,

The symposium took place in Marburg (Germany) on March 15-18, 2015 as a joint meeting with GDCh and DPhG. It was of a good scientific quality and attracted 206 registered participants. The next edition (Feb 12-15, 2017) for the first time will take place in Switzerland, at the University of Bern. It will be co-organized with the GDCh (Medicinal Chemistry) and DECHEMA (Chemical Biology).

EUFEPS Annual Meeting 2015

The EFMC Session at the EUFEPS Annual Meeting on June 15, 2015 in Geneva was organized by the DMCCB on the theme of "A Comprehensive Approach to Drug Discovery". Despite a good program and high quality presentations, attendance was very low. Medicinal Chemistry is clearly not a topic of interest for this audience, and recommendation was made to the EFMC to discontinue participation in this event.

SCS Fall Meeting

The DMCCB session at the SCS Fall Meeting in Lausanne (Sept 4, 2015) featured 6 industrial and 7 academic speakers, in addition to over 60 posters. The KGF-SCS Distinguished Industrial Science Award went to Dr. Jürg Zimmermann (Novartis), for his groundbreaking discovery of protein kinase inhibitors. His work had a tremendous impact on the research and therapy of cancer and other diseases.

The Expanding Toolbox of Medicinal Chemistry,

The first symposium of a series co-organized with the French Société de Chimie Thérapeutique, took place on October 16, 2015 in Dijon and attracted 80 participants. It addressed recent developments in the area of antibody-drug conjugates and talked about novel principles to enhance the efficacy of antibiotics or understand their true mode of action. In addition, state-of-the-art methods to measure clearance for guiding chemical optimization, as well as exciting developments in the discovery of clinical imaging agents were discussed. This bi-annual event will alternate between France and Switzerland.

Collaboration between DMCCB and LS2

In December 2015 the DMCCB and Life Science Switzerland (LS2) signed an agreement to work together and develop collaboration opportunities for the progress of Life Science, with focus on Medicinal Chemistry, Chemical Biology and related fields of research in Switzerland.

Candidature of the EFMC-ISMC 2020

The DMCCB informed the Council of the EFMC that it intends to bid for the organization of the EFMC-ISMC 2020 meeting in Switzerland. The bidding dossier is in preparation; it will be presented at the EFMC Council on Aug. 27, 2016.

Changes in the Board

- Cornelia Zumbrunn (from Actelion) succeeded Heinz Fretz (also Actelion) in the DMCCB Board. We very much thank Heinz for his long-term support of our activities. Cornelia has a special interest in helping to improve communication with our members, and among others participates in the redaction of our recently introduced newsletter.
- The Board also welcomes Prof. Christian Heinis (EPFL), and looks forward to his support in reinforcing our links to the chemical biology community.

Outlook 2016

- Life Science Switzerland (LS2) invited the DMCCB to chair a session at their annual meeting in February 2016. Its theme, in keeping with the event's focus, will be "The interdisciplinary Chemist"
- Yves Auberson, DMCCB president, organizes the EFMC session at the ACS meeting in San Diego (March 2016) on the topic of "Design of Radioligands and Molecular Probes".
- The DMCCB Basel Symposium will take place at the University of Basel on May 24, 2016, focusing on "Macrocycles in Drug and Agrochemical Discovery".
- The DMCCB is also involved in the EFMC-ISMC meeting in Manchester, UK (28 Aug – 1 Sep) where it organizes a session on "Recent Progress in the Treatment of Ophthalmological Diseases"

Division of Polymers, Colloids & Interfaces DPCI

www.polycoll.ch/ / www.scg.ch/DPCI/

Christian Hinderling

Conferences and Activities

DPCI Ph.D. Award

The thesis of Dr. Sandra Camarero Espinosa, titled '3D-Multilayered Cellulose Nanocrystal based Biocomposites for Articular Cartilage Tissue Engineering' was recognized with the annual Ph.D. thesis award of the DPCI.

PolyColl Meeting 2015

The PolyColl Meeting 2015 took place on July 3 at the Adolphe Merkle Institute, University of Fribourg and was organized by Nico Bruns. Eight invited speakers, including a contribution from industry, presented recent advances in the field. The three candidates for the Ph.D. thesis award highlighted their respective theses during short talks. The award ceremony and a lively poster session concluded this successful meeting.

Chimia column

The Division published five Polymer & Colloid highlights this year.

SCS Fall Meeting

At the PCI Session at the SCS Fall Meeting 2015 scientific results were presented and discussed in 13 talks, including the Industrial Science Award lecture 2015 of Dietmar Hüglin, BASF. Further scientific exchange took place at the poster session with 48 contributions.

Outlook 2015

- Polycoll meeting in spring/summer 2016.
- Ph.D: Award 2016.
- DPCI Highlights in Chimia

Reports from Member Societies

Swiss Association of Computational Chemistry SACC

Jürg Hutter, President

Activities, Symposia, Conferences, Projects

SACC Spring Meeting 2015

The Association held its Spring Meeting 2015 at ETH Zentrum in Zürich on February 9. The meeting was on the general topic of "Materials". Four invited lectures given by Prof. Nicola Marzari (EPFL), Prof. Matieu Lusier (ETHZ), Dr. Marcelo Carignano, QEERI Qatar, Prof. Marco Bernasconi (Milan) gave valuable input and stimulated the discussions. In addition there were four contributed short talks by young scientists.

SCS Fall Meeting

As in earlier years, the SACC Fall Meeting coincided with the SCS Fall Meeting, held at EPF Lausanne on September 4. The session on Computational Chemistry was organized by Prof. Tomaz Wesolowski (University of Geneva) and Prof. Clemence Corminboeuf (EPFL) and chaired by Prof. Tomaz Wesolowski (University of Geneva) and Prof. Jiri Vanicek (EPFL). There was a total of 12 contributed talks and an invited presentation by Prof. Sabre Kais, Qatar Environment and Energy Research Institute, on "Challenges of Electronic Structure Calculations: Hamiltonian Gadgets with Reduced Resource Requirements". In addition a poster session (30 posters) was held.

Outlook 2016

- The association will hold its Spring Meeting on February 5, 2016 at University of Bern. The program includes a series of invited scientific talks and a poster session.
- The SACC Fall Meeting will be held as part of the SCS Fall Meeting at University of Zürich.

Verein Schweizerischer Naturwissenschaftslehrer VSN:

www.vsn.ch, www.spsn.ch, www.asisn.ch

Dr. Klemens Koch

Conferences and Activities

- Eröffnung eines neuen Angebots: Exklusive und teilweise selbst gebaute Lehrmaterialien für den Chemieunterricht im neuen VSN-Shop www.vsn-shop.ch unter der Leitung von Hansruedi Dütsch.
- Zentralkurs Chemie: Die alle drei Jahre stattfindende grösste Weiterbildungsveranstaltung für Chemielehrkräfte fand 2015 vom 14. bis 16. Oktober an der Kantonsschule Schaffhausen statt organisiert von einem Team unter der Leitung von Martin Schwarz, Kantonsschule Schaffhausen.
- Nouveau „Formulaire et tables“ CRMPC est sortie.
- Chemieteil in der Formelsammlung „Formeln, Tafeln und Begriffe“ wurde erweitert und ist neu auch in parallel verwendbarer englischer Ausgabe enthalten.
- Visite du laboratoire de Spiez
- Cours de formation continue: Géologie des Préalpes, Biologie marine (Roscoff), Cours sréproduction/procreation.
- Projet aux écoles «Dessine-moi le LOGO de la CRB».
- Journée de démonstrations de chimie à l'EPFL.
- Weiterbildungskurse in Zusammenarbeit mit der Firma CAMAG in Muttenz mit Hans Galliker zu "Dünnschichtchromatographie" mit zwei Wiederholungen.
- Betriebsbesichtigung der Firma Sika Bauchemikalien.
- Vereinsbulletin „c+b“ drei mal jährlich.

- Mitarbeit und Zusammenarbeit im Verein Schweizerischer Gymnasiallehrerinnen und Gymnasiallehrer VSG vor allem mit dem Verein Schweizerischer Mathematik- und Physiklehrkräfte VSMP.
- Kontaktpflege zu befreundeten ausländischen Verbänden „MNU - Verband zur Förderung des MINT-Unterrichts D“, Union des professeur de physique et chimie UdPPC (FRA), Association Belge des Professeurs de Physique et Chimie ABPPC B, Fachgruppe Chemieunterricht der Gesellschaft Deutscher Chemiker (GDCh) (DEU), Verband der Chemielehrer Österreichs VCOe (AUT), Division of Chemical Education der European Association for Chemical and Molecular Sciences (EuCheMS).

Outlook 2016

Weiterbildungen, Publikationen, Kommissionsarbeit, Kommunikation, Betriebsbesichtigungen, Austausch, exklusive Lehrmittel, Entwicklung der Formelsammlungen...

Number of Members and trend

- Members as per 31.12.2015: 475
- Tendency over the past 5 years: stable

GSASA, Schweizerischer Verein der Spital- und Amtsapotheker

www.gsasa.ch

Dr. Susanna Kussmann



Conferences and Activities

Postgraduate Education Program:

In 2015, a dedicated task force had revised the post-graduate education program FPH in Hospital Pharmacy. The revised program was approved on November 8th 2015 by the assembly of the delegates of PharmaSuisse. The revised program will come into force by January 1st 2016. The most important changes are: (a) theory courses, organized by the universities of Basel and Geneva, are now compulsory; (b) two short periods of practical trainings are now also allowed to be arranged in a foreign country; (c) the criteria for post-graduate training centers were adapted to allow also smaller hospital pharmacies to cover at least a part of the post-graduate education program.

Parenteralia Self-Assessment Tool (PSAT) – first results from the national rollout

Parenteral drugs are high-risk medications that can cause – if inappropriately administered – more substantial damage than drugs applied through non-parenteral routes (e.g. oral administration). To systematically assess the risks of parenteral drug handling, the GSASA created the "Parenteralia Self-Assessment Tool" (PSAT). Several hospitals participated in the national rollout of the PSAT and the first analysis of the collected national data identified six hotspots for risks in the medication process. Specific measures for risk reduction were defined and their implementation and benefit will be assessed in a next step. (link zu PSAT-Tool Webseite) <http://www.gsasa.ch/seiten/qualitaetsicherheit/PSAT/?oid=1685&lang=D>

Swiss National Action Week of Patient Safety

The GSASA participated in the National Action Week of Patient Safety, organized by the Foundation for Patient Safety Switzerland, September 14th to 18th 2015. Many hospital pharmacies participated in local actions of patient safety in their hospital. The GSASA published a short video on its webpage, explaining how pharmacists contribute to patient safety in hospital settings and how patients themselves can contribute to their own safety (see link to the video below). Furthermore, the GSASA published an article on patient safety in the special issue of the "Schweizerische Ärztezeitung – Bulletin des Médecins Suisses" and released a press communication.

GSASA congress:

On November 26th/27th 2016 the annual congress of the Swiss Hospital Pharmacists took place at the Kongresshaus in Zürich under the theme "More security for the patients – drug information 2.0". It was a great success in terms of scientific coverage, spirit and participation (we have established a new GSASA record). Beside two keynote lectures and four plenary sessions with international speakers, both poster discussions and oral presentations were also highly appreciated. <http://www.gsasa.ch/seiten/bildung/gsasa-kongresse/Kongress2015/?oid=1690&lang=DE>

Changes in the GSASA Board

- Mrs Laurie Bochatay joined officially the GSASA board as the leader of the newly created section "young academics"

Outlook 2016

- The working group Quality and Safety will present in 2016 the revision of the Quality Management System for Hospital Pharmacies (Referenzsystem Qualität für Spitalapotheken, RQS) after its adaption to the new ISO 9001:2015 norms.
- The GSASA is the invited society of the annual meeting of the Swiss Society of Pediatrics (SGP) taking place on June 9th /10th 2016 in Berne. A GSASA member participated in the scientific committee and especially the program on Friday 10th is dedicated to common topics of pediatricians and hospital pharmacists.
- The annual congress for hospital pharmacists will take place on December 1st / 2nd 2016 at the Kursaal in Berne. This event will also feature the 20th edition of the "Journées Franco-Suisse en Pharmacie Hospitalière".

Number of Members and Trend

- Members as per 31.12.2015: 469.
- Tendency over the past 5 years: increasing (ca. 20 members per year).

Swiss Society for Food Chemistry SSFCUC

www.sgluc.ch

Dr. Hans Jörg Bachmann, President

Conferences and Activities*Swiss Food Science Meeting 2015*

The topic of the SFMS 2015 was "Food Authenticity and Adulteration – Analytical Challenges and Risk Assessment" (<http://www.foodsciencemeeting.ch/joomla/sfsm2015a.html>). We organized it together with the association of Swiss cantonal chemists and it took place June 23/24 at the University of Neuchâtel with some 90 participants, 18 interesting lectures and 2 poster sessions. The lectures provided insight on analytical techniques and strategies to detect food adulterations and to test for food authenticity. Experts from analytical laboratories and from regulatory bodies presented their concepts of assessment and management of the risk of food adulterations.

New focus and new name for the society

In a retreat the board discussed the strategy for the future development of the society and decided to focus exclusively on food chemistry. The General Assembly followed this proposition and as a consequence the name of the society was changed to SSFC (instead of SGLUC).

New website

In view of the change in focus and name of the society the board decided to renew the website with support of a media company. The re-launched website (www.swissfoodchem.ch) went online in August. With a login it offers special services for members as well as for the board.

Changes in the Board

- The board stayed unchanged in 2015

Outlook 2016

- In June the SSFC will organize in Berne a workshop on Dioxins and PCBs in food and feed, a topic of actual relevance. The workshop will cover the whole spectrum of source and pathways of the contaminants, of risk assessment and its management, of analytical challenges and the prevention of contamination. The General Assembly will take place in precedence of the workshop.
- In cooperation with the Division Analytical Sciences the SSFC will organize the lunch forum of September 21 at the ILMAC exhibition.

Number of Members

- Members as per 31.12.2015: 280

Swiss Group for Mass Spectrometry SGMS

Dr. Bertran Gerrits, President

**Conferences and Activities**

The 33rd annual meeting of the SGMS was held at Hotel Dorint, Beatenberg, 29-30 Oct 2015. A total of 120 participants enjoyed scientific stimulation meeting, excellent presentations and the chance to meet people from industry, academia and regulatory bodies. The board awarded student awards to Rahel Eberle and Yvonne Hari both from the University of Bern for an excellent poster and oral presentation respectively.

Invited lectures were by:

- Robert Mistrik, HighChem, Bratislava, Slovakia
- Dorothea Rutishauser, Karolinska Institute, Stockholm, Sweden
- Rolf Mueller, Heimholz Institute for Pharmaceutical Research, Saarbrücken, Germany
- Kathrin Altwegg, University of Bern,
- Detlev Suckau, Bruker Daltonics, Bremen, Germany

Changes in the Board

- No changes in the board
- Current members: Bertran Gerrits (President), Jean-Luc Wolfender (Vice President), Matthias Herzong (Secretary), Laurent Bigler (Treasurer), Yury Tsybin (Education), Michael Affloter (SGMS meeting), Richard Knochenmuss (Member at Large)

Number of Members and trend

- Members as per 20.11.2015: 172
- Tendency over the past 5 years: constant

Outlook 2015 (max. 2 lines per issue)

- The 34nd annual SGMS meeting and general assembly will be held at hotel Dorint, Beatenberg on 27-28 October 2016.

▪
 Berne, January 2016