

ANNUAL REPORT 2016

Introduction and Strategy

The SCS strategy defined in 2012 has been reviewed and consolidated by the board and with the active participation of external key stakeholders. The goal was not to completely redesign the strategy but to measure the success of the ongoing activities and to define potential new business fields and target groups. The workshop in Bern in late February 2016 showed that all ongoing initiatives must be continued and should partially be reinforced and that there was a clear need for action in the field of collaboration with industrial partners. Therefore, one of the focus in 2016 was to implement new offers for industrial chemists and companies, such as:

- First Swiss Industrial Chemistry Symposium, Oct 2016
- SCS Seminars for PhD students and junior project managers from industry on process chemistry, Jan 2017
- Partnering for the Clariant Chemistry Day in Basel
- Attractive membership options and CHIMIA advertisement packages for companies

After a three-year break, 2016 was again an ILMAC year. For the SCS it offered a unique opportunity to meet the whole chemical process and laboratory community at one place and we could strengthen our links to industrial partners.

SCS was strongly involved in the relaunch of *Helvetica Chimica Acta*, published by Wiley-VHCA, and '*Helvetica*' is now once more an official journal of the SCS. Profs. Jeff Bode and Christophe Copéret took over the roles as editors in chief and Richard Smith acts as managing editor. For the 100th anniversary of *Helvetica* in 2017 several initiatives will further support the relaunch of the journal.

As part of the Fall Meeting we organized for the first time an event focusing on chemical education. It was the first step of the very ambitious project that will lead to the formation of the new SCS Division of Chemical Education at the General Assembly in April 2017.

Please enjoy reading through the 2016 annual report and discover the variety of activities that were organized and provided by the Society. Aligned to our mission statement we organized numerous high quality events, awarded excellence in research and development, further improved the content of one of our key SCS journals CHIMIA, participated in partner journals and represented the Swiss Chemical Community in national and international bodies.

Dr. Alain De Mesmaeker
President

David Spichiger
Executive Director

SCG Events 2016 at a Glance

David Spichiger

22.–24.01.16	14 th Swiss Snow Symposium by SYCA, Saas Fee
15.–16.02.16	DMCCB Session at the LS ² Annual Meeting, EPFL
22.04.16	SCS Spring Meeting 2016, Zurich
01.–05.05.16	Bürgenstock Conference, Brunnen
24.05.16	DMCCB Basel Symposium, Basel
15.09.16	SCS Fall Meeting 2016, Zurich
15.09.16	Future of Chemical Education, Zurich
20.–23.09.16	ILMAC, Basel
09.–14.10.16	Swiss Course on Medicinal Chemistry, Leysin
12.10.16	Clariant Chemistry Day, Basel
28.10.16	Swiss Industrial Chemistry Symposium, Basel
18.–19.11.16	CHanalysis, Beatenberg

SCS Award Winners 2016

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 prize winners.

Paracelsus Prize

CHF 20'000 and medal in gold; awarded to an internationally outstanding scientist for his/her lifetime achievements in chemical research. The award was given to



Prof. Michael Graetzel,

EPF Lausanne,
for his invention and development of the dye-sensitized solar cell.

The award lecture took place at the SCS Fall Meeting, University of Zurich, September 15, 2016.

SCS Honorary Membership

The distinction was given to



Prof. E. Peter Kündig,

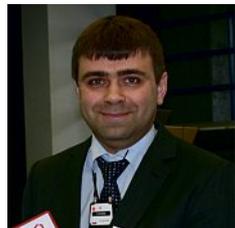
University of Geneva,
in recognition of his research achievements in organic synthesis and catalysis with transition metals during his career but also in recognition of his far-ranging and thoughtful management as president of the Platform Chemistry of the Academy of Natural Sciences in

the years 2007–2009 and as president of the Swiss Chemical Society in the past six years since 2010.

The prize was given on the occasion of the SCS Fall Meeting in Zürich on September 15, 2016.

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. Maksym Kovalenko,
ETH Zurich and EMPA Dübendorf,
for his innovative studies in the
chemistry, physics and applications of
inorganic nanostructures.

The prize was given on the occasion
of the SCS Spring Meeting in Zurich on
April 22, 2016.

KGF-SCS Senior Industrial Investigator Award

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



Dr. Eric Francotte,
Novartis Pharma AG,
for his outstanding contributions to
chromatographic resolution of racemic
compounds on optically active polymers
as chiral stationary phases and his
pioneering work in implementing new
preparative chromatographic techniques.



Prof. Peter Nesvadba,
BASF Schweiz AG,
for his groundbreaking contributions to
the discovery and development of novel
stabilizers for monomers and polymers,
novel dyes, first industrial realization
of controlled radical polymerization, to
the development of safe alternatives to
organic peroxides and for his engagement

as bridge builder between academia and industry.

KGF-SCS Industrial Investigator Award

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



Dr. Martin H. Bolli,
Actelion Pharmaceuticals Ltd
for his excellent contributions in
medicinal chemistry culminating in the
discovery and development of Maci-
tentan, a drug for the treatment of
pulmonary arterial hypertension.



Dr. Andreas Herrmann,
Firmenich SA
for his essential contributions to make
profragrance chemistry an interdis-
ciplinary research area and to establish
it as a key technology for fragrance
delivery.

All KGF-SCS award lectures took
place at the SCS Fall Meeting, University of Zürich, September
15, 2016.

Sandmeyer Award

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



The SCS awards the team comprising researchers from Sika Technology AG, ETH Zürich and the University of Colorado Boulder, namely

Dr. Martin Weibel, Sika Technology AG
Dr. Thomas Müller, Sika Deutschland GmbH

Dr. Ratan K. Mishra, ETH Zürich

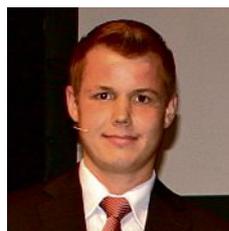
Prof. Robert J. Flatt, ETH Zürich

Prof. Hendrik Heinz, University of Colorado Boulder,
for their experimental and modelling studies of new commercial organic additives for the grinding of inorganic solids.

The award lecture was given on the occasion of the SCS Fall Meeting in Zurich on September 15, 2016.

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

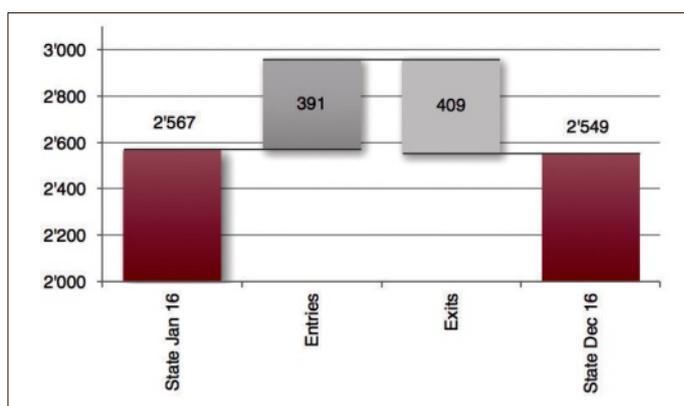


Flavio Gall,
ZHAW Wädenswil,
for his studies on the design and synthesis
of cyclic metalloprotease inhibitors.

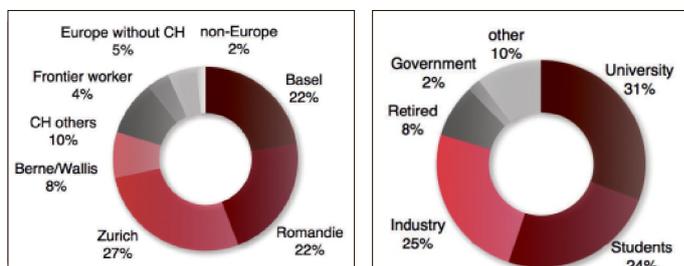
The ceremony and the lecture took
place at the ILMAC-Forum in Basel on
September 23, 2016.

Member Statistics (December 2016)

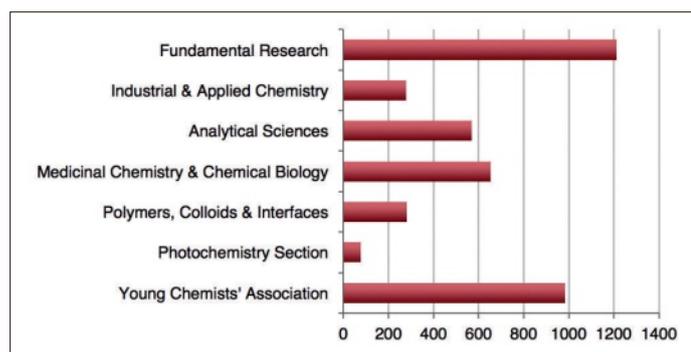
Development of members 2016: -18



Members per region and profession



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



Executive Board and Board of Directors

David Spichiger

Executive Board ExB

Dr. Alain De Mesmaeker, Syngenta Crop Protection AG

SCS President

Prof. Christian Bochet, University of Fribourg

SCS Vice President and President Division of Fundamental Research

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 & Chemical Biology

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. Bernhard Urwyler, Syngenta Crop Protection AG (new)

President Division of Industrial & Applied Chemistry

Dr. Martin Vollmer, Clariant International Ltd

Member of the board

With effect January 1, 2017 Prof. Christian Bochet handed over the presidency of DFR to Prof. Roger Alberto, University of Zurich and Dr. Marc Suter, Eawag Dübendorf succeeds Prof. Gerard Hopfgartner, University of Geneva, as president of the DAS. We would like to thank Prof. Bochet and Prof. Hopfgartner for their contributions to the success of their divisions.

Principal Supporters of the Swiss Chemical Society and the SCS Foundation

Our most sincere thanks go to our main sponsors for their generous support. We would like also to thank very much 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, SCS-KGF Awards),
 - Support of divisional events;

- Actelion Pharmaceuticals AG: Project sponsor of the SCS Foundation and support of divisional events.
- 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: Supporters of the Alfred Werner Master Scholarships.



Society activities and Head Office

www.scg.ch

David Spichiger

Relaunch of *Helvetica*



The SCS made important contributions

to insure the success of the relaunch project:

- In 2013/14 the SCS initiated discussions on a restart of *Helvetica* and defined the journal's scope and organization.
- SCS contacted potential candidates for the job as editor-in-chief (EJ) and proposed Profs. Jeff Bode and Christophe Copéret to Wiley-VCH.
- SCS assisted the EJs in the composition and structure of the Board of Editors and the Advisory Board.
- SCS agreed to make *Helvetica* an official journal of SCS.
- Efforts have been made in raising awareness and searching for top level contributors.
- Full page adverts have been placed in CHIMIA, and e-mails sent by the SCS president to all SCS members.
- There has been facilitation of contacts between *Helvetica*'s managing editor and potential authors at SCS scientific and social events.
- Time slots for *Helvetica* have been made at national meetings.
- The SCS Fall Meeting 2017 will be dedicated to the 100th anniversary of *Helvetica*.

SCS is an essential and full partner in the 'new' *Helvetica* and is fully committed to the success of this project.

Towards a new Division of Chemical Education

Given its increasing importance, the SCS decided to extend its activities into the area of chemical education. The new Division of Chemical Education (DCE), that will be officially formed at the next SCS general assembly in April 2017, shall support the interactions of educators and teachers of chemistry at all levels. The possibility to interact with scientists of the other SCS divisions will create bridges between research and education. To launch this process, the symposium 'Future of

Chemical Education', took place as part of the SCS Fall Meeting 2016 at University of Zurich and was a great success with close to 150 participants. Prof. Antonio Togni, ETH Zurich, will chair the division in its starting phase.

SCS at ILMAC 2016

ILMAC

SCS Booth

SCS again collaborated with the Universities of Applied Sciences (UAS) and was on-site with a large booth. We presented successful joint projects from UAS with industrial partners and used the platform to show exciting chemistry to a broad audience. In addition to the UAS, SCS invited partner societies to present their programs and initiatives and provided a comprehensive overview of the community's landscape in the field of process chemistry.

Booth Partners of the Swiss Chemical Society were

- FHNW Muttenz
- HES-SO Fribourg / Sion
- ZHAW Wädenswil
- Swiss Process and Chemical Engineers (SGVC)
- Schweizerischer Verband Diplomierter Chemiker (SVC)
- Swiss Biotech Association (SBA)
- SCS Division of Industrial and Applied Sciences (DIAC)
- SCS Division of Analytical Sciences (DAS)



Lunch & Learn Sessions

SCS in collaboration with partner societies organized three Lunch & Learn sessions presenting state of the art development and a panel discussion around the focal topic Industry 4.0.

Wed, September 21, 2016

«Automatization and huge data handling in Analytical Sciences»
Organized by the SCS Division of Analytical Sciences (DAS)

Speakers: Dr. Daniel Juchli, wega Informatik AG and Chief Technical Officer (CTO) SiLA Consortium, Basel, Dr. Till Kühn, Bruker BioSpin AG, Dr. Ingo Muckenschnabel, Novartis Pharma AG, Dr. Josef Schneider, F. Hoffmann-La Roche AG and Dr. Günter Böhm, CTC Analytics. Chair was Prof. Dr. Götz Schlotterbeck, FHNW.

Thu, September 22, 2016

«Automatization in the laboratory environment»
Organized by i-net and Swiss Biotech Association (SBA)

Speakers: Prof. Sven Panke, Dept. of Biosystems Science and Engineering, ETH Zurich, Dr. Erwin Althof, Scientific Technical Leader, Novartis Pharma AG, Dr. David Fluri, Senior Scientist, InSphero AG, Dr. Rolf Gueller, Founder and CEO, Chemspeed

Technologies AG and Dean Corkovic, BCPlatforms. Chair was Ralf Dümpelmann, BaselArea, i-net innovation.

Fri, September 23, 2016

«Industry 4.0 in Chemical Engineering»
Organized by SCS DIAC, SGVC and SVC

Speakers: Dr. Peter Bürgin, ControlTech Engineering AG, Dr. Tobias Merz, Lonza AG, Stephan Gentner, DSM Nutritional Products Ltd., Dipl.-Phys. Mario Bott, Fraunhofer-Institute for Manufacturing Engineering and Automation IPA and Dr. Andreas Schreiner, Novartis PharmOps Switzerland. Andreas Schreiner acted as chairman of the session.



ChemPubSoc Europe



In its third year as a full member of the ChemPubSoc community the SCS could profit again from a respectable royalty payment from 'Chemistry a European Journal'. The return on investment was 5.9% (about EUR 21'500).

SCS holds shares of five essential ChemPubSoc journals from which royalties have been already transferred or will take place in the coming years.

SCS supported the marketing initiatives of ChemPubSoc and ChemistryViews on its website, during SCS events 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 2016.

SCS Conference Tool

The third release of the SCS conference tool was implemented for the Fall Meeting 2016 and provides essential support for conference organizers. In 2016 the tool was also used for ChemEdu'16 and the SICS'16. In 2017 already seven events will be supported by the tool, one of which is a non-SCS event.

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

CHIMIA

www.chimia.ch,

www.ingentaconnect.com/content/scs/chimia

Dr. Roland Kunz, Chairman of the Editorial Board



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 2016 in the order of their appearance were: Frédéric R. Leroux (University of Strasbourg), Bernd Giese (University of Fribourg), Sandrine Gerber (EPF Lausanne), Pius Kölbener (Cantonal chemist St. Gallen), Stefan Bieri (Deputy cantonal chemist Vaud) and Thomas Ward (University of Basel),

Daniel Müller (ETH Zurich in Basel) and Alain De Mesmaeker (Syngenta Crop Protection) and Xenia Beyrich-Graf (BASF SE Ludwigshafen), Peter Maienfisch (Syngenta Crop Protection), Paul J. Dyson (EPF Lausanne), Clémence Corminboeuf (EPF Lausanne), Carolin von Schoultz (LS2 Life Science Switzerland), and Anna Brandenburg (LS2 Life Science Switzerland).

In 2016 (volume 70) the following issues were published:

- 1–2 The French Connection
- 3 Physical Organic Chemistry
- 4 Laureates: Junior Prizes of the SCS Fall Meeting 2015
- 5 Food Authenticity and Adulteration
- 6 NCCR Molecular Systems Engineering
- 7–8 Scientific Fall Meeting 2015 of the Swiss Chemical Society (SCS)
- 9 DIAC: Game Changing Innovation in Chemical Production
- 10 Malaria Vector Control
- 11 New Faculty in Switzerland
- 12 Life Sciences in Switzerland

The program and the laureate 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 Sciences in Switzerland, Polymer and Colloid Highlights, contributions from the Universities of Applied Sciences and of the Swiss Academy of Sciences complemented the topical part.

Prof. Paul J. Dyson's term as Editor-in-Chief will end in December 2017. We are very happy that Prof. E. Peter Kündig, former SCS President, agreed to take on this challenge for the period 2018–2020.

Dr. Peter Maienfisch now definitively stepped down from the board by the end of 2016 and Dr. Sarah Sulzer-Mosse (Syngenta Crop Protection) took over his duty.

Dr. Roland W. Kunz intends to step down from the board by the end of 2018. Consequently, it was agreed to build a search committee for his succession formed by equal representation of the editorial board and the board of directors.

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

CHIMIA

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 2016 EuCheMS published four 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

- Prof. Heinz Berke, Universität Zürich
Member, Working Party on Chemistry and Energy
- Prof. Jeffrey Bode, ETH Zurich
Member, Division of Organic Chemistry
- Prof. Thomas Bürgi, Université de Genève
Member, Division of Physical Chemistry
- Dr. Franka Kalman, HES-SO Valais
Member, Division of Analytical Chemistry
- Prof. Heinz Gäggeler, Universität Bern / PSI
ad interim Chairman, Division of Nuclear and Radiochemistry
- Prof. Walter Giger, EAWAG
Past President, Division of Chemistry and the Environment
- Dr. Thomas Gude, SQT/Migros
Member, Division of Food Chemistry
- Dr. Klemens Koch, Seeland Gymnasium Biel
Member, Division of Education
- Dr. Hans Peter Lüthi, ETH Zurich
Member, Division of Computational Chemistry
- Prof. Clément Mazet, Université de Genève
Member, Division of Organometallic Chemistry
- Prof. Umberto Piatini, HEVS
Member, Division of Food Chemistry
- Dr. René Reiser, Agroscope Reckenholz
Member, Division of Chemistry and the Environment
- Prof. Kay Severin, EPFL
Member, Division of Inorganic Chemistry
- Prof. Roland Sigel, Universität Zürich
Member, Division of Chemistry in Life Sciences
- Prof. Andreas Türlér, Universität Bern
Member, Division of Nuclear and Radiochemistry
- Prof. Anke Weidenkaff, Empa
Delegate, Division of Solid State and Materials Chemistry

EuCheMS General Assembly, Sevilla (ESP), 10.–11. Sep, 2016
The assembly took the following major decisions:

- Pilar Goya was elected as the EuCheMS President Elect.
- Eckart Rühl was elected as the EuCheMS Treasurer.
- Artur Silva and Christoph Copéret were elected as an elected member of the EuCheMS Executive Board.
- The General Assembly accepted the European Federation for Medicinal Chemistry (EFMC) as a supporting member of EuCheMS as of 1 January 2017 onwards.

Furthermore, during the meeting two documents were signed:

- The MoU with the ACS (<https://www.euchems.eu/euchems-acs-sign-memorandumunderstanding/>)
- The Seville Declaration on The Use of Chlorine in Warfare



(<http://www.euchems.eu/sevilledeclaration-use-chlorine-warfare/>)

David Spichiger represented the SCS at the General Assembly in Sevilla.

National EuCheMS Delegates Meeting

In late November a national EuCheMS Delegates meeting took place in Bern to align the SCS initiatives with EuCheMS activities.

Division of Fundamental Research DFR

www.scg.ch/dfr/

Prof. Christian Bochet

Activities, Symposia, Conferences, Projects

SCS Spring Meeting, University of Zurich, 22.04.16

The Spring Meeting 2016 was organized by Profs. Roger Alberto and Greta Patzke at the University of Zurich. 'Green Chemistry' was the common theme, and five excellent lectures, attracting a large crowd, were given by Martyn Poliakoff (Nottingham), Paul Anastas (Yale), Thomas Güttinger (BASF), Walter Leitner (Aachen), Paul Dyson (EPFL) and Werner Prize laureate Maksym Kovalenko (ETHZ).

SCS Fall Meeting, University of Zurich

Taking place at the University of Zurich, the event was co-organized by Hans-Peter Lüthi (ETHZ), Roger Alberto and Ferdinand Wild (Unizh). It brought together more than 1'000 participants, probably a record! Details have been published in CHIMIA 2016, 70, No. 10, p. A744.

Contributions per Session	Posters	Talks
Analytical Sciences	54	11
Catalysis Science & Engineering	62	11
Computational Chemistry	33	11
Inorganic & Coordination Chemistry	84	11
Medicinal Chemistry & Chemical Biology	68	13
Organic Chemistry	82	11
Physical Chemistry	53	12
Polymers, Colloids & Interfaces	51	11
Plenary Session	0	3
Total	487	93



Prof. Michael Grätzl during his Paracelsus Award lecture

FM-Awards for the best Oral and the best Poster Presentations

In collaboration with Metrohm AG and DSM Nutritional Products, SCS offered again an attractive and prestigious award program for the best oral and the best poster presentations. It is very rare that event organizers are able to hand over prizes to the winner of more than CHF 40'000 in total and we are very proud and happy to cooperate with our sponsoring partners.



From left: David Spichiger, SCS, Rahel Bucher, University of Zurich, winner best oral presentation award in analytical sciences, Dr. Markus Steinke, Vice President Marketing at Metrohm

For the first time a session Chemical Education was offered and attracted 140 teachers from secondary school on upwards. The Fall Meeting ChemEdu session was a successful start of the initiative to implement a new SCS Division of Chemical Education. The four lectures and the four parallel workshops provided ideas and best practice in theoretical, practical and experimental chemical education.

Support to conferences

Several conferences or initiatives were supported by the DFR, including the

- 51st Bürgenstock Conference (Brunnen),
- European Crystallography Meeting ECM-30 (Basel),
- 4th European Conference on Trapped Ions (Arosa),
- 17th International Symposium on Solubility Phenomena and related Equilibrium Processes ISSP17 (Geneva) and
- H. Hünthard Symposium (ETHZ).

SCS Lectureships

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

- *Prof. Gregory Scholes*, Princeton University (US)
«Coherent Energy Transfer in Photosynthetic Light Harvesting»
Tour date: 14.–18. March 2016
- *Prof. Michinori Sugimoto*, Kyoto University (JP)
«New Catalytic and Chiroptical Functions of Chirality-Switchable Helical Macromolecules»
Tour date: 09.–16. May 2016
- *Prof. Michael Gottfried*, Philipps-Universität Marburg (DE)
«Organometallic and coordination chemistry on surfaces»
Tour date: 06.–10. June 2016
- *Prof. Justin du Bois*, Stanford University, California (US)
«The Molecular Mystique of Nature's Poisons», «Chemical Approaches to the Study of Ion Channels»
Tour date: 14.–21. June 2016
- *Prof. Jeffrey Johnston*, Vanderbilt University, Nashville TN (US)
«New Catalysts, Methods, and Strategies that Enable Therapeutic Development and On-Demand Natural Product Total Synthesis»
Tour date: 05.–09. September 2016
- *Prof. Richard N. Zare*, Stanford University, California (US)
«Microdroplet Chemistry»
Tour date: 12.–16. September 2016
- *Prof. Keisuke Suzuki*, Tokyo Institute of Technology (JP)
«Lessons from Complex Natural Product Synthesis: Polyphenol Monomers, Oligomers and Hybrids»
Tour date: 03.–11. October 2016
- *Prof. Eric V. Anslyn*, University of Texas, Austin (US)
«Supramolecular Analytical Chemistry»
Tour date: 10.–14. October 2016

Changes in the Board

Prof. Roger Alberto, University of Zurich, succeeds Prof. Christian Bochet, as Divisiono President. Prof. Bochet remains vice-president for one year and will be replaced by Prof. Stefan Willitsch, University of Basel, by January 2018

Outlook 2017

- Spring Meeting in Bern 'Homogeneous Catalysis: New paradigms, wonderful applications', on April 21. Chair: Prof. Martin Albrecht
- Fall Meeting in Bern, on August 21–22
- SCS-Lectureships: about 8 lecture tours are foreseen

Photochemistry Section PCS

Dr. Silvio Canonica

Activities, Symposia, Conferences, Projects

8th Central European Conference on Photochemistry, CECP

The Photochemistry Section contributed to the realization of the eight Central European Conference on Photochemistry, CECP 2016, which took place in February 2016 in Bad Hofgastein, Austria. Dr. Alexandre Fürstenberg acted as a co-chair, and Prof. Natalie Banerji gave an invited lecture on 'Spectroscopic Investigations of Organic Electronic Materials'.

Changes in the Board

At the General Assembly in Zurich, 15 September 2016 the members elected two new members of the board

- Olivier Nicolet, HES-SO Fribourg
- Oliver Wenger, University of Basel

Outlook 2017

- 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 2018.

Swiss Young Chemists' Association (SYCA)

www.scg.ch/syca/

Cornel Fink

Activities, Symposia, Conferences, Projects

Swiss Snow Symposium 2016

From the 22nd to the 24th of January 2016, more than 60 young chemists gathered at Hotel Alphubel in Saas Fee (Kanton Wallis) for the 14th edition of the Swiss Snow Symposium.

Following a welcoming aperitif, registration and a delicious dinner, the first of the invited speakers, Prof. Stefan Willitsch from the University of Basel, gave a deep insight into his research on cold and controlled molecules and ions. His presentation was followed by an intriguing talk by Dr. Basile F. E. Curchod, from the Max Planck Institute of Microstructure Physics (Halle, Germany), devoted to brief introduction of the ideas and methods of theoretical and computational photochemistry. Friday evening was concluded with four Ph.D. talks given by Kristina V. Goncharenko (University of Basel), Hristo Varbanov (EPFL), Evgeny Smirnov (EPFL) and Augustin A. S. Tchawou (ETHZ) who presented their current research.

On Saturday, the participants enjoyed the wonderful slopes of Saas-Fee. After a sunny day in the snow, the symposium continued with the next invited speaker, Dr. Cédric Invernizzi from the Spiez Laboratory. The talk touched on the extent of the

dual use problem and the subsequent power of misrepresentation of research in the media. The talk was followed by a poster session which allowed the participants to present and share their work in a more informal environment. After the dinner, Dr. James W. Walton proceeded as our after-dinner speaker. He introduced for the audience diverse applications of his novel ruthenium complexes. The final session of Ph.D. talks took place after a short break with Andrea Pannwitz (University of Basel), Mathieu Marmier (EPFL) and Nicolas Luisier (EPFL) presenting their outstanding research. The 14th edition of the Swiss Snow Symposium concluded with the annual prize giving in which awards were presented to the best Ph.D. talk, Andrea Pannwitz (University of Basel), the best poster, Mickael Montandon-Clerc (EPFL) and the runner-up poster, Giacomo Cecot (EPFL).

EYCN: 11th Delegates Assembly in Guimaraes (Portugal)

The European Young Chemists' Network (EYCN) together with the Portuguese Young Chemistry Group organized the 11th Delegates Assembly in April 2016 in Portugal. Today EYCN represents 26 European chemical societies from 22 different countries and two affiliated members (American Chemical Society and Israel Chemical Society). This initiative is aimed to strengthen the links between the young chemists from all over Europe. This meeting aims to reinforce the development of networks between young chemists, harnessing in particular their communication and working skills. In addition, it will point towards new professional opportunities and help motivating the entrepreneurship of the young and early career participants. The SYCA is part of this network and was represented by Cornel Fink.

Current Board

- President: Cornel Fink
- Vice President: Tiu Elisha Gabrielle
- Treasurer: Dmitry Vasilyev

Outlook 2017

- 15th Swiss Snow Symposium in Saas Fee: The symposium will be a great opportunity for approximately 40 young scientists to share their research in informal environment.
- 12th EYCN Delegates Assembly in Greece.
- Industry visits are planned.

Division of Analytical Sciences DAS

www.scg.ch/das/

Prof. Gérard Hopfgartner

Activities, Symposia, Conferences, Projects

3rd CHanalyss 2016, Beatenberg

The third meeting of Swiss analytical scientists, CHanalysis 2016, was held from November 18–19, 2016 in the Dorint Hotel in Beatenberg. In this year's event various scientific topics including compact NMR, viruses, greenhouse and noble gases, electroanalytical chemistry were addressed in oral and posters sessions with about 80 participants.

Analytical Bioanalytical Chemistry (ABC) journal

The DAS is co-owner of the ABC journal which has now reached an impact factor of 3.125. We strongly encourage our members to submit their work to ABC.

CHIMIA Column 'Highlights of Analytical Sciences in Switzerland'

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

Continuous education courses

Thanks to an excellent organization and an attractive program the courses are very well attended. Every year new courses are proposed. The continuous education team is composed of Ernö Pretsch, Verena Schmid, Lilo Weishaupt, Peter Oggenfuss and Roland Looser.

Changes in the Board

In 2017 the presidency of the Division Analytical Sciences will be taken over by Marc Suter, EAWAG.

Division of Industrial & Applied Chemistry DIAC

www.scg.ch/diac/

Dr. Bernhard Urwyler

Activities, Symposia, Conferences, Projects

The Annual Meeting of DIAC



Bird's eye view of BASF AG, in Kaisten

The 2016 annual DIAC meeting took place at BASF AG in Kaisten on April 7, 2016. Mr. Kristian Hall, plant manager, welcomed the approx. 30 DIAC members and presented the BASF chemical production plant in Kaisten.

It was a pleasure to listen to the plant manager, telling the story of the history of BASF AG (a former Ciba site). BASF Kaisten is producing mainly additives for plastics and construction materials, but also antioxidants and construction chemicals are produced at large scales. All in all, it was an impressive presentation of BASF's famous leitmotiv 'We Create Chemistry'.

After the BASF introduction, a scientific presentation was given by Dr. Andreas Brodthagen, BASF, Polymer Process Development. The topic of his contribution was Smart Scale Production, modular concepts used for new approaches in development and production of advanced polymer products.

After an intense discussion and Q&A, Kristian Hall offered to all participants an excellent meal at the site restaurant.

The highlight of the general Assemblée is always the site visit of a production plant. In this case, it was one of the core production of the site, called the Metilox plant. An impressive fully automated LEAN production of Metilox.

ILMAC and special CHIMIA Issue

Under the leadership of the SCS Head Office and in close collaboration with the ILMAC management and our partners from the DAS, the SVC, SGVC and SwissBiotech, DIAC organized the 'lunch & learning' sessions with several presentations during lunch time. On each of the three days from Wednesday 21st to Friday 23rd of September the forum program offered five lectures and a panel discussion. Stephan Gentner from the DIAC board, also presented a real case from DSM and got excellent response from the audience.

CHIMIA special Issue: DIAC published also articles in the CHIMIA special issue from September 2016. Main topic: 'Game Changing Innovation in Chemical Production' (Cases, Concept, Methods, and Approaches). The guest editorial was written by Dr. Xenia Beyrich-Graf, member of the DIAC board.

1st Swiss Industrial Chemistry Symposium (SICS) 2016

The First Swiss Industrial Chemistry Symposium (SICS Symposium) took place on Friday October of 28 at the University of Basel. The new event was a pilot for a joint Symposium of the SCS-DIAC, University of Basel and several representatives

of Process-Research groups from Novartis, Roche, Syngenta and Basler University. More than 220 participants attended the meeting with focus on process research. The feedback was very positive and a next SIC-Symposium is planned to be held in 2018.

The SICS is a new, one-day symposium with lectures, short talks and a panel discussions of industrial chemists working in R&D in Switzerland. The symposium offers a unique platform for industrial scientists, working in research and process research, to present their latest results, to interact with each other and to network with professors, PhD students and other scientific staff of Swiss universities. An extended poster session with presentations from industry (20%) and academy (80%) will stimulate the interaction.

Annual DIAC-board workshop at Vitznau (LU)

The workshop took place from October 20th to 22nd in Vitznau (LU). David Spichiger participated at the workshop. The DIAC board reviewed the past year and prepared the activities for next year 2017 and beyond. See outlook.



DIAC board at the workshop in Vitznau (LU) in October 2016.

Changes in the Board

Mauricio Ranzi, CEO of CIMO SA, Monthey, left the DIAC board, end of the year 2016, to take over activities from the canton VS. All other actual DIAC board members agreed to serve another year working on the DIAC board.

Urban Jenelten from Firmenich SA, in La Plaine (GE), has been designated as successor of Mauricio on the DIAC board. Urban Jenelten is director of Process Optimization and New Technology & Pilot Plant/Small Scale Production, at Firmenich SA.

Outlook 2017

- Annual DIAC Meeting of 2017 will take place at Firmenich SA in La Plaine (GE) on April 6th.
- FH visits and discussions with young chemists of 2016 had to be postponed to autumn 2017: Open sessions will be planned at the FH Muttenz and at the HES-SO in Sion, where we will invite young students to a DIAC presentation and discussion.
- Freiburger Symposium 2017: The Freiburger Symposium will take place from 11th to 12th May at the HESSO Freiburg. The main title of the 13th Freiburger Symposium will be: Green Chemistry - From Concept to Industrial Reality. The key note lecture will be held by Markus Blocher, CEO Dottikon ES. In addition and for the first time, the Sandmeyer Price celebration ceremony will be included into the Freiburger Symposium, including lectures given by the winners.
- Special issue CHIMIA: As every second year DIAC plans to contribute parts of the CHIMIA ILMAC issue in September 2018, Title: is not yet fixed and will be communicated soon.

Division of Medicinal Chemistry & Chemical Biology DMCCB

www.scg.ch/DMCCB/

Dr. Yves Auberson

2016 has been a very active year for the DMCCB, both through the events it organized and its participation in activities sponsored by the EFMC (European Federation of Medicinal Chemistry). It also implemented a new communication strategy, to better interact with members and to increase the visibility of the DMCCB to non-members, including through social media (LinkedIn, Facebook).

Activities, Symposia, Conferences, Projects 2016

Life Sciences Switzerland (LS²) Annual Meeting

A session entitled 'The Interdisciplinary Chemist' was organized by the DMCCB at the Life Sciences Switzerland (LS²) Annual Meeting in February: this was the first step in our efforts to develop the collaboration of our societies and bring our communities closer.

ACS meeting in San Diego

A session entitled Design of Radioligands and Molecular Probes was organized in March for the EFMC at the ACS meeting in San Diego.

DMCCB Basel Symposium

The bi-annual DMCCB Basel Symposium took place in May, with speakers on Macrocycles in Drug Discovery and Agrochemicals.

EFMC-ISMIC 2016

A session on Recent Progress in the Treatment of Ophthalmological Diseases was organized for the EFMC-ISMIC 2016, which took place in Manchester in August.

SCS Fall Meeting, DMCCB Session

The DMCCB session at the SCS Fall meeting (September) consisted of a diverse program, including the presentations of the KGF industrial award laureate (Martin Bolli, Actelion), and of eleven students and industrial speakers. Olivia Schmidt from the University of Zurich received the award for the best oral presentation.

12th Swiss Course on Medicinal Chemistry

The course took place in Leysin (October): A mix of oral lectures and hands-on tutorials, it received very positive feedback from its 86 participants, which came from both industry and academia.

Changes in the Board

- Anaëlle Foucault-Dumas joined the Board as Communication Officer, to implement a new communication strategy for our members, and for the external scientific community.
- The Board also welcomes Finton Sirockin (Novartis), who succeeds Nik Stiefl (also Novartis) in the DMCCB Board as Web Master. We very much thank Nik for his support over the last six years.

Outlook 2017 and beyond

- Frontiers in Medicinal Chemistry (February) is co-organized with the GDCh and DPhG, and will for the first time take place in Switzerland, at the University of Bern. A satellite meeting organized by LS² will give Master and PhD students the opportunity to present their work and interact with young academics.
- The SCS Fall meeting will take place in August, and include sessions organized both by the DMCCB and LS².

- The ACSMEDI-EFMC Medicinal Chemistry Frontiers 2017 will take place in Philadelphia, USA, in June, and will include a session organized by the president of the DMCCB on positive allosteric modulators.
- Great news to conclude in this report: the DMCCB just won the bid for Switzerland to organize the XXVI EFMC International Symposium on Medicinal Chemistry (EFMC-ISMIC 2020) in Basel.

Division of Polymers, Colloids & Interfaces DPCI

www.plycoll.ch / www.scg.ch/DPCI/

Christian Hinderling

Conferences and Activities

- CHIMIA column: the Division published five Polymer & Colloid Highlights this year.
- At the PCI Session at the SCS Fall Meeting 2016 scientific results were presented and discussed in 11 talks. Further scientific exchange took place at the poster session with 51 contributions.

Changes in the Board

We are sorry to announce that Dr. Bettina Steinmann has, after many years as member, including four as president, decided to step down from the board. We thank Bettina for her many highly valuable contributions to DCPI.

We are happy to welcome Prof. Dr. Holger Frauenrath (EPFL) as a new member to the DCPI board.

Outlook 2017

- Polycoll meeting in spring/summer 2017
- PhD Award 2017
- DPCI Highlights in CHIMIA

Reports from Member Societies

Swiss Association of Computational Chemistry SACC

Jürg Hutter, President

Activities, Symposia, Conferences, Projects 2016

SACC Spring Meeting

The Association held its Spring Meeting on February 5, 2016 at the Chemistry Building at University of Bern. There were six invited talks given by Prof. Horst Köppel (Heidelberg), Prof. Carmen Herrmann (Hamburg), Dr. Peter Deglmann (BASF), Prof. Sereina Riniker (ETHZ), Prof. Michele Ceriotti (EPFL), and Prof. Ullrich Aschauer (Bern). There were a total of 27 posters presented at the Poster Session.

SCS Fall Meeting, Session of Computational Chemistry

As in earlier years, the SACC Fall Meeting coincided with the SCS Fall Meeting, held at University of Zurich on September 15. The session on Computational Chemistry was organized by Prof. Markus Reiher (ETHZ) and Prof. Jürg Hutter (UZH) and chaired by Dr. Ivano Tavernelli (IBM) and Dr. Marvcella Iannuzzi (UZH). There was a total of nine contributed talks and two invited presentations by Dr. Erich Wimmer (Materials Design) and Dr. Christoph Taeschler (Lonza). In addition a poster session (32 posters) was held.

Changes in the Board

Prof. Tomasz Wesolowski, University of Geneva, replaces Prof. Jiri Marek, University of Geneva.
Dr. Daniele Passerone, EMPA Dübendorf, replaces Prof. Claude Daul (University of Fribourg)

Outlook 2017

- The association will hold its Spring Meeting on February 9, 2017, at EMPA Dübendorf. The general topic of the meeting will be 'Computational Chemistry in Industry'. There will be five scientific talks by representatives from Industry and a general poster session.
- The SACC Fall Meeting will be held as part of the SCS Fall Meeting.

Verein Schweizerischer Naturwissenschaftslehrer VSN:

www.vsn.ch, www.spspn.ch, www.asisn.ch

Dr. Klemens Koch

Activities, Symposia, Conferences, Projects 2016

- Journée de formation continue de chimie (Commission romande de chimie): 13. Sept. 2016: journée de démonstrations de chimie à l'EPFL
- Mitwirkung an «Future of Chemical Education» an der Jahresversammlung der SCG: 15. Sept. 16 an der Universität Zürich
- Herausgabe Vereinszeitschrift *c+b* (Chemie + Biologie), jährlich drei Ausgaben, Redaktor: Manuel Fragnière

Changes in the Board

- Nouveau: M. Emmanuel Marion-Veyron, Collège de Bulle

Outlook 2017

Weiterbildungen in allen Fachkommissionen, z. B.

- Journée des démonstrations an der EPF Lausanne
- Vorbereitung Zentralkurs 2018 in Solothurn
- Mitarbeit bei einem Kurs „Robotique“ 2018 an der EPF Lausanne
- Mitwirkung bei der Tagung ChemEdu'17, während des SCS Fall Meetings in Bern vom 21./22. August 2017
- Mitwirkung am europäischen Chemielehrerkongress des VCOe in Vaduz vom 19.–22. April 2017

Number of Members and Development

- Members as per 31.12.2016: 464
- Tendency over the past five years: constant

Swiss Society for Food Chemistry SSFC

www.sgluc.ch

Dr. Hans Jörg Bachmann, President

Activities, Symposia, Conferences, Projects 2016

Information Seminar

SSFC organized an information seminar 'Dioxins and PCBs in Food', which took place on June 24 in Bern. The seminar offered a comprehensive and up-to-date overview on this still current topic given by experienced experts in chemical analysis, in quality and safety control as well as in risk assessment and reduction. The event was combined with the execution of the 128th General Assembly of the SSFC and with the Werder Award ceremony 2016. Prof. Dr. Rudolf Schmitt, HES-SO Valais-Wallis, was awarded for his outstanding scientific work over more than three decades in the domain of food safety.

Outlook 2017

- To give students a first impression of possible working fields in their future professional career the SSFC organizes an information event with presentations of experienced professionals from all sectors of food chemistry and analysis, which will take place in the afternoon of May 18, 2017 at ETHZ.

- Another information event for members of laboratories responsible for the enforcement of the new Swiss food legislation will be organized in the 2nd quarter of 2017.
- Together with the association of Swiss cantonal chemists we are organizing the Swiss Food Science Meeting 2017 'Current and Future Food Safety Issues: Meat and Meat Products – Analytical Challenges and Risk Assessment', which will take place August 17–18 at the University of Neuchâtel (<http://www.foodsciencemeeting.ch/joomla/index.php/sfsm-2017>).

Number of Members and trend

- Members as per 31.12.2016: 250

Swiss Group for Mass Spectrometry SGMS

Dr. Bertran Gerrits, President



Conferences and Activities

The 34th annual meeting of the SGMS was held at Hotel Dorint, Beatenberg, 27–28 Oct 2016. A total of 110 participants enjoyed a scientifically stimulating meeting, excellent presentations and the chance to meet people from industry, academia and regulatory bodies. Prof. Paola Picotti received the 2nd SGMS Award. This is an award to a young promising scientist working in Switzerland, or Swiss abroad in the field of mass spectrometry. The board also awarded student awards to Zainab Ahdash and Alena Tierbach on an excellent oral presentation and poster respectively. Invited lectures were by:

- Gerald Gabrielse, Harvard University, Cambridge CA, USA
- Paola Picotti, ETH Zurich
- Alexander Makarov, Thermo Fisher, Bremer, Germany

Number of Members and trend

- Members as per 01.12.2016: 169
- Tendency over the past 5 years: constant

Changes in the Board

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

Outlook 2017

The 35th annual SGMS meeting and general assembly will be held at hotel Dorint, Beatenberg on 25-26-27 October 2017 with a surprise social event.

Bern, January 2016