



Friday, September 6, 2019, 09.00 – 18.45h University of Zürich, Irchel Campus

# SCS Fall Meeting 2019

Award lectures presented by:

- Prof. David Sarlah, University of Illinois, Urbana (USA)
   Grammaticakis-Neumann Award winner 2019
- Team from the Eawag Department Water Resources and Drinking Water, Dübendorf
   Sandmeyer Award winner 2019
- Dr. Fabrice Gallou, Novartis Pharmaceuticals AG
   SCS Senior Industrial Science Award winner 2019
- Dr. Christoph Boss, Idorsia Pharmaceuticals Ltd.
   SCS Industrial Science Award winner 2019

8 parallel sessions with a total of 81 short talks and 16 invited or sponsored lectures;

8 poster sessions with more than 420 presentations
Best Oral and Best Poster Presentation Awards
Helvetica Prize 2019 for the best published PhD/Postdoc paper
Commercial exhibition

scg.ch/fallmeeting





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# WELCOME TO THE 2019 FALL MEETING OF THE SWISS CHEMICAL SOCIETY (SCS)



Roger Alberto

On behalf of the Organizing Committee and the Division of Fundamental Research of the Swiss Chemical Society, we welcome you to the 2019 Fall Meeting, hosted jointly by the ETH Zürich and the University of Zürich Departments of Chemistry. A special welcome goes to the presenters of the well over 500 scientific contributions (posters, contributed lectures, invited and award lectures). As in 2016, when the Fall Meeting also took place on Irchel Campus, teachers of chemistry attending the symposium 'Future of Chemical Education' will join us. Being part of the Fall Meeting, the symposium will help build bridges between research and education.

This year's Fall Meeting scientific program will open with the Sandmeyer and SCS Industrial Science Award lectures. The Sandmeyer Award honors teams of researchers for their achievements in the field of industrial or applied chemistry, whereas the SCS Industrial Science Award honors researchers from industry for an outstanding achievement.



Hans Peter Lüthi

As in previous years, we will have eight thematic parallel sessions, most of them with an invited lecture, a lecture presented by a researcher of the sponsoring company, plus ten oral communications by students. For the first time, each session has a sponsor ('endowment'), which shows the great appreciation of the chemical and pharmaceutical industry for the research performed by the young generation of chemists.

During the extended lunch break, the Commercial Exhibition, with twenty companies presenting their products and services, will be worth a visit. At the same time, there will be the Poster Session.

After the afternoon parallel sessions, the Grammaticakis-Neumann and Senior Industrial Science Award Lectures will be presented. These prizes are for a promising young scientist for outstanding accomplishments in the field of experimental or theoretical photochemistry, and for an industrial investigator for his or her long-term research achievements.

The meeting ends with award ceremonies, where the best oral and poster contributions are being honored. Forty prizes worth 42,750 CHF (!) will be handed out to their winners, turning the finale of the Fall Meeting a big spectacle.

We invite you to browse through the program and hope that the 2019 Fall Meeting will capture your interest. Your participation and your contribution to the scientific discussion will help to make the event a success for everybody involved.

We look forward to seeing you on Friday, September 6 at the University of Zürich Irchel Campus!

Prof. Roger Alberto Chairman of the Division of Fundamental Research, and Co-Chairman of the Organizing Committee Dr. Hans Peter Lüthi Co-Chairman of the Organizing Committee

# PROGRAM OVERVIEW, FRIDAY, 6TH SEPTEMBER 2019

Interactive program incl. abstracts of all lectures, talks and posters on http://scg.ch/fallmeeting

Time	Program Item		Location
09.00	Registration, Welcome Coffee		Lichthof
09.45	Commercial Exhibition Welcome and conference opening  Prof. Roger Alberto, Chair SCS Fall Meeting  Prof. Roland K. O. Sigel, Dean of the Faculty of Science, University of Zürich		G30
09.50	Sandmeyer Award Lecture 2019  Dr. Michael Berg, Dr. Stephan Hug, Dr. Annette Johnson (in memoriam),  Dr. Andreas Voegelin and Prof. Lenny Winkel, Eawag, Dübendorf  «Arsenic and other Geogenic Contaminants in Groundwater – a Global Challenge»		G30
10.20	SCS Industrial Science Award Lecture 2019  **Dr. Christophe Boss*, Idorsia Pharmaceuticals Ltd.  **20 Years of Medicinal Chemistry – Always look at the bright side (of life)**		G30
10.50	Short Break		
11.00	Catalysis Science & Engineering [CE-Computational Chemistry [IC-Inorganic & Coordination Chemistry IIC-Inorganic & Chemistry & Chemical Biology [MC Organic Chemistry [OC Physical Chemistry [PC-Incomputation Chemistry Incomputation Chemistry Incom	-011] [AS-017] -011][CE-017] -011][CC-017] 011] [IC-017] C-011] [MC-017] -011] [OC-017] -011] [PC-017]	G95 G20 G85 G30 G60 G45 G40 G55
12.45	Catalysis Science & Engineering [CE-Computational Chemistry [CC:Inorganic & Coordination Chemistry IIC-Medicinal Chemistry & Chemical Biology Organic Chemistry [OC:Physical Chemistry [PC-	-101] [AS-139] -101] [CE-156] -101] [CC-148] 101] [IC-153] C-101] [MC-159] -101] [OC-170] -101] [PC-176] 101] [PI-134]	Lichthof Irchel Campus
15.00	Catalysis Science & Engineering [CE-Computational Chemistry [IC-Inorganic & Coordination Chemistry IIC-Inorganic Chemistry & Chemical Biology Organic Chemistry [OC Physical Chemistry [PC-Increase of the Increase of the Inc	-021] [AS-026] -021] [CE-027] -021] [CC-027] 021] [IC-027] C-021] [MC-027] -021] [OC-027] -021] [PC-027]	G95 G20 G85 G30 G60 G45 G40 G55
15.30	Exhibitor Aperitif		Lichthof
16.45	Break and coffee / refreshments		
17.00	SCS Announcements Helvetica Prize of the Swiss Chemical Society 2019 (best published papers of PhD/Postdocs 2018/19) Ceremony of the Exhibitor Challenge		G30
17.15	Grammatikakis-Neumann Award Lecture 2019 <i>Prof. David Sarlah</i> , University of Illinois, Urbana (USA)  «Photochemical Dearomatization of Nonactivated Arenes»		G30
17.45	SCS Senior Industrial Science Award Lecture 2019 <i>Dr. Fabrice Gallou</i> , Novartis Pharma AG «Alternative solvents: from a compliance-driven activity to a trigger for innovation»		G30
18.15	Best Oral Presentation Awards (sponsored by Metrohm)		G30
18.30	Dipl. Ing. Markus Steinke, Executive Vice President Marketing at Metrohm  Best Poster Presentation Awards (sponsored by DSM)  Dr. Thomas Netscher, Principal Scientist at DSM Nutritional Products		G30
18.45	Dr. Thomas Netscher, Principal Scientist at DSM Nutritional Products End of the conference		

# **GENERAL INFORMATION**

Date: September 6, 2019, 09.00 – 18.45

Location: University of Zurich, Irchel-Campus

Winterthurerstrasse 190

8057 Zurich

Website: http://scg.ch/fallmeeting/2019

# Chairman

Dr. Hans Peter Lüthi ETH Zürich and SCS Foundation luethi@scg.ch

Prof. Roger Alberto Department of Chemistry, University of Zurich ariel@chem.uzh.ch

# **On-site Organization**

Dr. Ferdinand Wild Department of Chemistry, University of Zurich fwild@fwild.ch

# **Conference Secretariat**

Swiss Chemical Society
David Spichiger and Sarah Schmitz
Haus der Akademien
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# **Organizing Committee**

Core team

- PD Dr. Hans Peter Lüthi, ETH Zurich (Chairman)
- Prof. Roger Alberto, University of Zurich (co-Chairman)
- Dr. Ferdinand Wild, University of Zurich (site manager)
- David Spichiger, Swiss Chemical Society (SCS Head Office)

# Session Chairs

**Analytical Sciences** 

- Prof. Stefan Schürch, University of Bern
- Dr. Hanspeter Andres, Federal Institute of Metrology, METAS Catalysis Sciences & Engineering
- Prof. Cristina Nevado, University of Zürich
- Prof. Jeroen A. van Bokhoven, ETH Zurich and PSI Villigen Computational Chemistry
- Prof. Jürg Hutter, University of Zürich
- Prof. Jeremy Richardson, ETH Zurich

Inorganic & Coordination Chemistry

- Prof. Oliver Wenger, University of Basel
- Prof. Marinella Mazzanti, EPFL Lausanne
- Prof. Kay Severin, EPFL Lausanne
- Prof. Wendy Lee Queen, EPFL Lausanne Organic Chemistry
- Prof. Pablo Rivera-Fuentes, ETH Zurich
- Prof. Jason Holland, University of Zürich

Medicinal Chemistry & Chemical Biology

- Dr. Fides Benfatti, Syngenta Crop Protection AG
- Prof. Jean-Louis Reymond, University of Bern Physical Chemistry
- Prof. Natalie Banerji, University of Bern
- Prof. Thomas Bürgi, University of Geneva

Polymers, Colloids & Interfaces

- Prof. Walter Caseri, ETH Zurich
- Dr. Dominik Brühwiler, ZHAW Wädenswil

# **Admission and Registration**

Fees for presenters (poster or talk)

- SCS Members: free of charge (by convention the first name in the abstract author list)
- Non-members: CHF 250.00 (incl. VAT) Fees for participants without a presentation
- SCS Members: free of charge
- Non-members: CHF 100.00 (incl. VAT). Pre-registered participants will get an invoice in advance to avoid waiting time at the check in desk. Pre-registration is possible until August 23, 2019 on the website.

If attending as a SCS member you have to bring your SCS membership-card with you! To become a member, please got to <a href="http://scg.ch/membership">http://scg.ch/membership</a>.

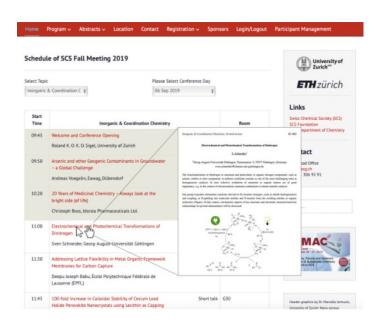


Pre-registration as participant is possible until August 23, 2019 on http://scg.ch/fallmeeting.

# Interactive Program and Abstract Search

The website allows you an easy and interactive planning of your conference day. Go to the Fall Meeting website and profit from the following functions:

- Interactive program overview with abstract preview
- Quick abstracts display as html file
- pdf-file download of single abstracts
- Extensive search functionalities



## **Coffee Breaks and Lunch**

Refreshments will be served before the opening ceremony and during the breaks. Lunch Sandwiches and drinks will be served during the lunch break.

There is an option to buy lunch at your own expense at the cafeterias and restaurants located in the vicinity of the meeting venue.

# **Connection to the Internet**

A wireless LAN (Wi-Fi) offers you access to the internet. Members of institutions participating to the Switch-Mobile project (all Swiss universities) will be able to connect by simply using their usual VPN client software. Other users will have to register first through a secure web page or can use the Swisscom Hotspot.

# CONFERENCE VENUE AT IRCHEL CAMPUS, UNIVERSITY OF ZURICH

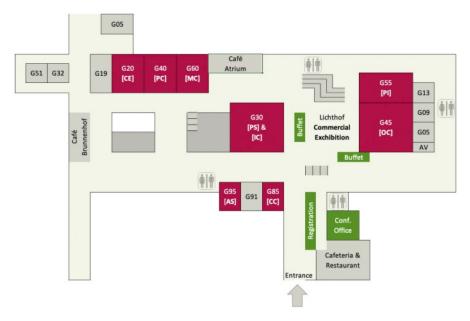
#### **Conference Location**

Most of the conference venues are located on the G-floor of the Irchel Campus at University of Zürich. The campus is easily accessible, and we recommend travelling to the conference location by public transportation. Take tram lines no 9 or 10 to 'Zürich, Universität Irchel' or no 7 or 14 to 'Zürich Milchbuck'. Online schedule on www.sbb.ch

The campus offers a public car parking for CHF 11.00 a day.



# SITE MAP, IRCHEL CAMPUS



# SCS Main Supporters and General Sponsors of the SCS Fall Meeting

The SCS and the meeting organizers gratefully acknowledge the it would not be possible to organize the event for free for members generous support of its main sponsors. Without their contributions, and for a reasonable entry fee for non-members.

# **General Contributions to the Organization**

















#### **Partners**







# **BEST PRESENTATION AWARDS**

The organizers are proud of the very attractive presentation award program. Almost CHF 50,000 CHF in total are given to the winners in monetary form, travel grant or free publication opportunities in the Junior Laureates issue of CHIMIA 4/2020.

We would like to address our recognition and thanks to the Metrohm Foundation and to DSM Nutritional Products Ltd., who have are partnered the presentation award program for many years.







Covers of the 2017–2019 Junior Laureates issues

# **Best Oral Presentation Award**

The award is sponsored by Metrohm.



The prize is awarded for the two best presentations of each parallel session. The main criteria are the scientific quality and originality of the research, plus the quality of the presentation. Ceremony: 18.15 in lecture hall CE 6.

## Prize for the winner of each of the eight parallel sessions

- Cash contribution of CHF 500
- Travel voucher of CHF 1,000 to attend an international conference.
- Invitation to present the research in the Junior Laureates' issue of CHIMIA. Value CHF 1,200.

# Prize for the runners-up

- Cash contribution of CHF 400.

The prizes are sponsored by Metrohm and will be presented by Dipl. Ing. Markus Steinke, Executive Vice President Marketing at Metrohm International Headquarters, Herisau

# Best Oral Presentation Award Ceremony Metrohm 2018 at EPFL Lausanne

Photos: Alain Herzog, EPFL Lausanne

# Best Poster Presentation Award

The award is sponsored by DSM.



The prizes are awarded for the best posters of each parallel session. The main criteria are the scientific quality and originality of the research, plus the quality of the presentation. Ceremony: 18.15 in lecture hall B6.001.

# Prize for the winner of each of the eight poster sessions

- Cash contribution of CHF 250.
- -Travel voucher of CHF 750 to attend an international conference.
- Invitation to present the research in the Junior Laureates' issue of CHIMIA. Value CHF 1,200.

# Prizes for the runners-up

- 2x cash contribution of CHF 200.

The prizes are sponsored by DSM Nutritional Products and will be presented by Dr. Thomas Netscher, Principal Scientist at DSM Nutritional Products Ltd., Basel



# **ENDOWMENTS OF PARALLEL SESSIONS**

With its generous financial contributions, the following companies support the Fall Meeting 2019 and sponsor one of the parallel sessions.

Each company will give a scientific lecture about their latest research.



**Analytical Sciences** 

Lonza



Catalysis Science & Engineering Computational & Theoretical Chemistry







Organic Chemistry

Inorganic & Coordination Chemistry Medicinal Chemistry & Chemical biology



Physical Chemistry



Polymers, Colloids & Interfaces

# **COMMERCIAL EXHIBITORS**

Take the chance and visit our partners during the conference and profit from their expertise to answer your questions. The exhibition will be located in the Lichthof of Irchel Campus, next to the coffee and lunch buffets.



http://www.abcr.de



http://www.advion.com



http://anton-paar.com/



http://bachem.com



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http://www.thieme.de



Visit our exhibitors and collect their logo stickers. The more you get the higher your chance to win CHF 100.00 as first prize or CHF 50.00 as second prize in cash. Sticker cards are available at the info desk on September 6 and full (or almost full) cards can be dropped at the same place before 17.00h. The winner will be identified at 17.00h. Only persons that are present can win the price.