

**SCS**  
Swiss Chemical  
Society

Fri, September 7, 2018, 09.00 – 18.45h

École Polytechnique Fédérale de Lausanne (EPFL)

# SCS Fall Meeting 2018

Plenary sessions with award lectures from:

- Prof. Ruedi Aebersold, ETH Zurich  
Paracelsus Prize winner 2018
- Team from Syngenta Crop Protection AG  
Sandmeyer Award winner 2018
- Dr. Paul W. Manley, Novartis Pharma AG  
SISF-SCS Distinguished Investigator Award winner  
2018
- Dr. Clemens Lamberth, Syngenta Crop Protection AG  
SISF-SCS Senior Investigator Award winner 2018

8 parallel sessions incl. invited lectures, contributed talks  
and short talks from industry

8 poster sessions with a total of more than 400 posters

Best oral and best poster presentation awards

Commercial exhibition

[scg.ch/fallmeeting/2018](http://scg.ch/fallmeeting/2018)

## Welcome to the SCS Fall Meeting 2018



Roger Alberto

On behalf of the Division of Fundamental Research of the Swiss Chemical Society, we welcome you to the SCS Fall Meeting 2018, hosted by the Institute of Chemical Sciences and Engineering (ISIC) at EPFL, on its Lausanne Campus. With more than 500 scientific contributions in the form of posters, contributed and invited lectures, it represents a major networking event for the chemistry community in Switzerland, bringing together the key actors of the domain from both academia and industry. Following our long-time tradition, the SCS Fall Meeting gives the opportunity for graduate students, post-doctoral fellows and researchers to present their latest research in one of the eight parallel sessions covering many areas of modern chemistry and chemical engineering. We hope that you will enjoy the poster session planned in the early afternoon and visit the commercial exhibition where companies will be presenting their products and services for chemical research and development.



Sandrine Gerber

During the day, a series of distinguished award lectures will be presented, including the Sandmeyer Award Lecture given by Dr. **Raymonde Fonné-Pfistera** (Syngenta Crop Protection), the SISF-SCS Distinguished Investigator Award Lecture given by Dr. **Paul W. Manley** (Novartis Pharmaceuticals), the SISF-SCS Senior Industrial Investigator Award Lecture 2018 given by Dr. **Clemens Lamberth** (Syngenta Crop Protection) and the Paracelsus Award Lecture given by Prof. **Ruedi Aebersold** (ETH Zurich). As in the past editions, you are invited to join the best Presentation Award Ceremony at the end of the day where the best poster and short talk contributors will receive prizes sponsored by DSM and Metrohm.

As you would expect, this meeting is only made possible thanks to the generous and continued support of our sponsors, which reflects the interest of industry in our research activities and in promoting presentations by young researchers. The logistics of such a large event relies on the hard work of many people at ISIC who commit to the various tasks in addition to their regular duties, and we would like to express our warm thanks to the local organization team who are key actors for the success of the SCS Fall Meeting.



Lyndon Emsley

We encourage you to browse through the program and we hope that you will be inspired by the variety and quality of the posters, lectures and discussions. We look forward to seeing you at EPFL on September 7<sup>th</sup> and we count on your participation to make the SCS Fall Meeting a continuously growing success.

Prof. Roger Alberto  
President of the Division  
of Fundamental Research

Prof. Sandrine Gerber  
Chair of the Organizing  
Committee

Prof. Lyndon Emsley  
ISIC Director, EPFL Lausanne

## PROGRAM OVERVIEW, FRIDAY, 7<sup>TH</sup> SEPTEMBER 2018

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

Time	Program Item	Location
09.00	Registration, Welcome Coffee Commercial Exhibition	BS/CE
09.45	Welcome and conference opening <i>Prof. Sandrine Gerber</i> , Chair SCS Fall Meeting, <i>Prof. Lyndon Emsley</i> , ISIC Director, EPFL Lausanne	CE 6
09.50	Sandmeyer Award Lecture 2018 <i>Raymonde Fonné-Pfistera, Alain De Mesmaeker</i> , Syngenta Crop Protection AG «A new generation of agrochemicals: design, synthesis and biological evaluation of strigolactone- and strigolactam derivatives for potential crop enhancement applications in modern agriculture»	CE 6
10.20	SISF-SCS Distinguished Investigator Award Lecture 2018 <i>Dr. Paul W. Manley</i> , Novartis Pharmaceuticals AG, Basel «Synthesis and Characterisation of some Metabolites of Anti-Leukemia Drugs»	CE 6
10.50	Short break	
11.00	<b>Morning Parallel Session</b> (6 or 7 slots)	
	Analytical Sciences [AS-011] ... [AS-017]	CE 5
	Catalysis Science & Engineering [CE-011] ... [CE-017]	CE 2
	Computational Chemistry [CC-011] ... [CC-017]	CE 105
	Inorganic & Coordination Chemistry [IC-011] ... [IC-017]	CE 6
	Medicinal Chemistry & Chemical Biology [MC-011] ... [MC-017]	CE 3
	Organic Chemistry [OC-011] ... [OC-017]	CE 1
	Physical Chemistry [PC-011] ... [PC-017]	CE 4
	Polymers, Colloids & Interfaces [PCI-011] ... [PCI-017]	BS 160
12.45	<b>Lunch and Poster Session</b>	
	Analytical Sciences [AS-101] ... [AS-122]	CE 100
	Catalysis Science & Engineering [CE-101] ... [CE-160]	CE 106
	Computational Chemistry [CC-101] ... [CC-132]	CE 104
	Inorganic & Coordination Chemistry [IC-101] ... [IC-172]	SPO
	Medicinal Chemistry & Chemical Biology [MC-101] ... [MC-157]	CE 103
	Organic Chemistry [OC-101] ... [OC-155]	SPO
	Physical Chemistry [PC-101] ... [PC-160]	CE 101
	Polymers, Colloids & Interfaces [PCI-101] ... [PCI-152]	BS 170
	<b>Commercial Exhibition</b>	CE
15.00	<b>Afternoon Parallel Session</b> (6 or 7 slots)	
	Analytical Sciences [AS-021] ... [AS-026]	CE 5
	Catalysis Science & Engineering [CE-021] ... [CE-027]	CE 2
	Computational Chemistry [CC-021] ... [CC-027]	CE 105
	Inorganic & Coordination Chemistry [IC-021] ... [IC-027]	CE 6
	Medicinal Chemistry & Chemical Biology [MC-021] ... [MC-027]	CE 3
	Organic Chemistry [OC-021] ... [OC-027]	CE 1
	Physical Chemistry [PC-021] ... [PC-027]	CE 4
	Polymers, Colloids & Interfaces [PCI-021] ... [PCI-027]	BS 160
15.30	Exhibitor Aperitif	CE
16.45	Break and coffee/refreshments	
17.00	SISF-SCS Senior Industrial Investigator Award Lecture 2018 <i>Dr. Clemens Lamberth</i> , Syngenta Crop Protections AG «Episodes from the Continuous Search for Solutions against Downy Mildew Disease»	CE 6
17.30	Paracelsus Award Lecture 2018 <i>Prof. Ruedi Aebersold</i> , ETH Zurich «Mass spectrometric exploration of the biochemical basis of living systems»	CE 6
18.15	<b>Best Oral Presentation Awards</b> (sponsored by Metrohm) Patrick Hunziker, Vice-President and Head Development, Metrohm Herisau	CE 6
18.30	<b>Best Poster Presentation Awards</b> (sponsored by DSM) Thomas Netscher and Werner Bonrath, Senior Scientists at DSM Nutritional Products	CE 6
18.45	End of the conference	

## GENERAL INFORMATION

Date: September 7, 2018, 09.00–18.45h  
 Location: École Polytechnique Fédérale de Lausanne EPFL  
 CE and BS Building  
 CH-1015 Lausanne  
 Website: <http://scg.ch/fallmeeting/2018>

### Chairman and local Organizer

Prof. Sandrine Gerber  
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### Co-Chairman and President of DFR

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### Conference Secretariat

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### Organizing Committee

#### Chairpersons

- Prof. Sandrine Gerber, EPF Lausanne (Chairperson)
  - Prof. Roger Alberto, University of Zurich (Co-Chairperson)
- #### Analytical Sciences
- Dr. Stefan Schürch, University of Bern
  - Dr. Hanspeter Andres, Federal Institute of Metrology, METAS
- #### Catalysis Science & Engineering
- Prof. Kevin Sivula, EPF Lausanne
  - Prof. Oliver Kröcher, EPF Lausanne
- #### Computational Chemistry
- Prof. Clémence Corminboeuf, EPF Lausanne
  - Prof. Anatole von Lilienfeld, University of Basel
- #### Inorganic & Coordination Chemistry
- Prof. Kay Severin, EPF Lausanne
  - Prof. Bruno Therrien, University of Neuchâtel
- #### Medicinal Chemistry and Chemical Biology
- Prof. Jean-Louis Reymond, University of Bern
  - Prof. Christian Heinis, EPF Lausanne
- #### Organic Chemistry
- Prof. Philippe Renaud, University of Bern
  - Prof. Jieping Zhu, EPF Lausanne
- #### Physical Chemistry
- Prof. Stefan Willitsch, University of Basel
  - Prof. Jacques Moser, EPF Lausanne
- #### Polymers, Colloids and Interfaces
- Prof. Holger Frauenrath, EPF Lausanne

### 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 (+VAT)  
 Fees for participants without a presentation  
 – SCS Members: free of charge  
 – Non-members: CHF 100.00 (+VAT)  
 Pre-registered participants will receive an invoice in advance to avoid waiting at the check-in desk. Pre-registration is possible until August 24, 2018 on the website.

If attending as a SCS member you must bring your SCS membership-card with you! To become a member, please apply on <http://scg.ch/membership>



### 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

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

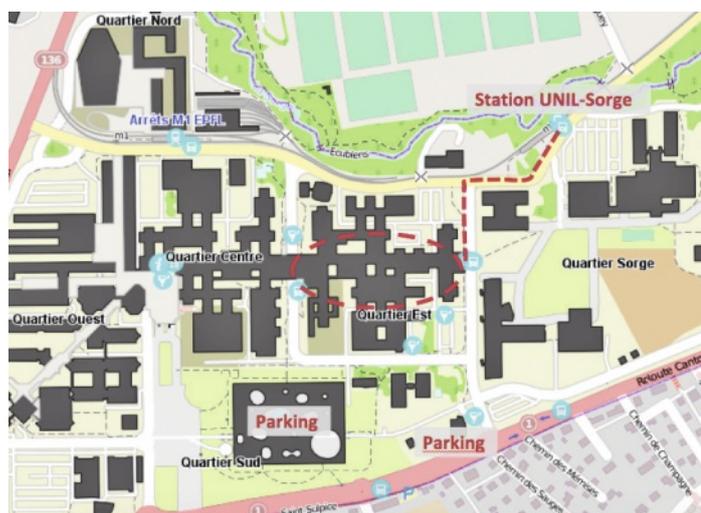
### Connection to the Internet

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 EPFL LAUSANNE

### Conference Location

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



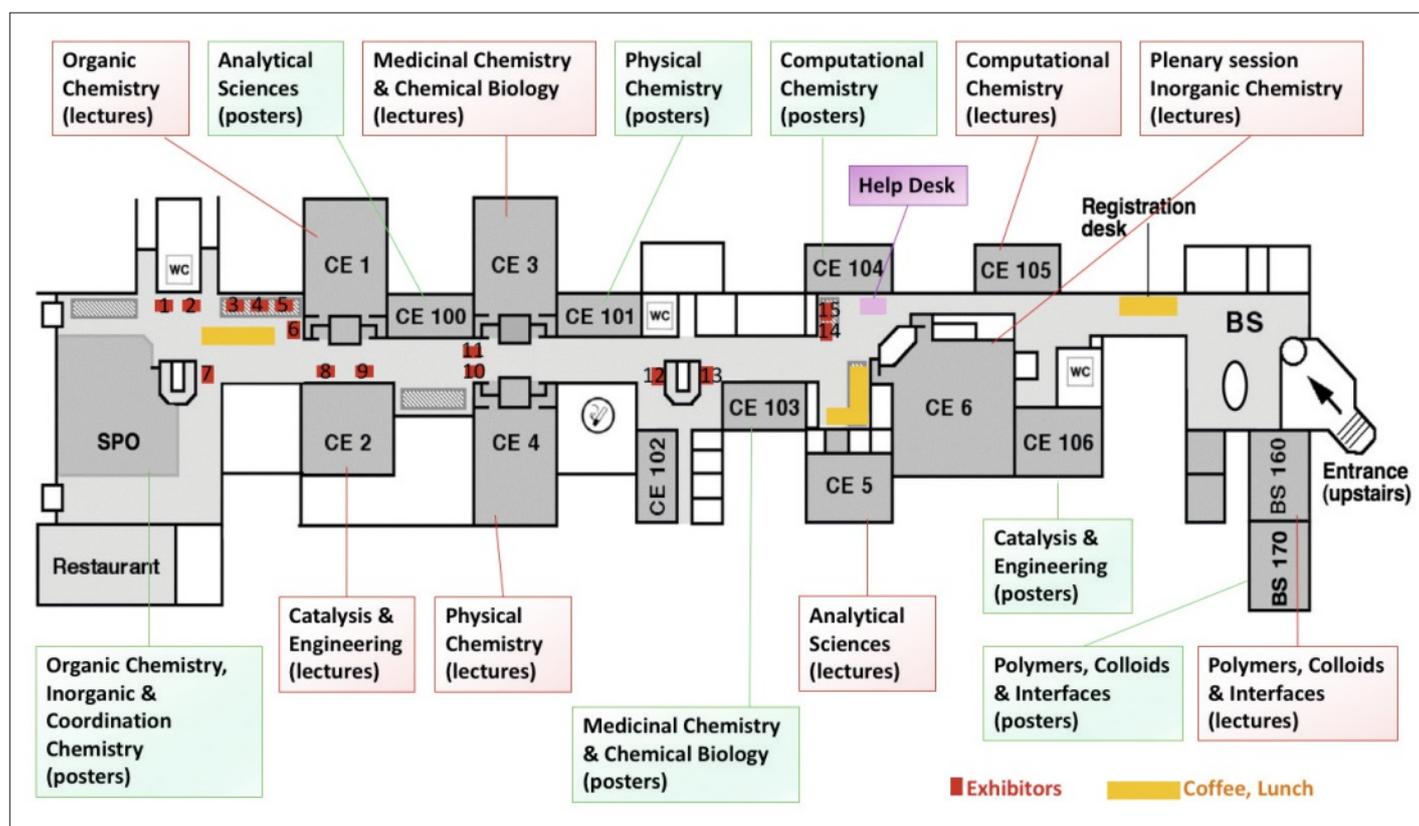
### Transportation

By train: the easiest way to access the location by public transportation is via Renens, VD. Go to [www.sbb.ch](http://www.sbb.ch) and select *Ecublens VD, UNIL-Sorge* via *Renens VD* as destination:

More information on how to get to EPFL campus, timetables and interactive maps are available on the webpage at <http://map.epfl.ch>.

By car: on the motorway, follow Lausanne-Sud, exit at UNIL-EPFL, drive West for 1.7 km and then turn right at the sign EPFL. Limited space will be available at the parking of the building Odyssey and of the Rolex Learning Center (see EPFL campus map). One-day parking permits will be sold on the parking lot and at the entrance of the BS building for CHF 5.

## SITE MAP, CE AND BS BUILDINGS



Session	Lectures	Posters	Inorganic & Coordination Chemistry	CE 6	SPO
Opening Ceremony, Plenary Sessions	CE 6		Medicinal Chemistry & Chemical Biology	CE 3	CE 103
Analytical Sciences	CE 5	CE 100	Organic Chemistry	CE 1	SPO
Catalysis Science & Engineering	CE 2	CE 106	Physical Chemistry	CE 4	CE 101
Computational Chemistry	CE 105	CE 104	Polymers, Colloids & Interfaces	BS 160	BS 170

## MEETING SPONSORS AND SUPPORTERS

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

### General Contributions to the Organizations

#### Swiss Industry Science Fund (SISF)



Swiss Academy of Sciences  
Akademie der Naturwissenschaften  
Accademia di scienze naturali  
Académie des sciences naturelles



ÉCOLE POLYTECHNIQUE  
FÉDÉRALE DE LAUSANNE



SCS  
Foundation  
Swiss Chemical  
Society

### Partners

CHIMIA



## 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 grants or free publication opportunities in the Junior Laureates issue of CHIMIA 4/2019.

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

Covers of the 2016–2018 Junior Laureates issues:



### Best Oral Presentation Award

The prize is sponsored by Metrohm.



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

### Prizes 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 Laureates' issue of CHIMIA. Value CHF 1'200

### Prizes for runners-up

- Cash contribution of CHF 400.

The prizes are sponsored by Metrohm and will be handed over by Patrick Hunziker, Vice-President and Head Development, Metrohm Herisau

### Best Poster Presentation Award

The prize is sponsored by DSM



The prizes are given 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: 18.30h in the lecture hall CE 6.

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

- Cash contribution of CHF 300
- Travel voucher of CHF 750 to attend an international conference

### Prizes for the runners-up

- 2x cash contribution of CHF 300.

The prizes are sponsored by DSM Nutritional Products and will be handed over by Thomas Netscher and Werner Bonrath, Senior Scientists at DSM Nutritional Products Ltd.



## ENDOWMENTS OF PARALLEL SESSIONS

With its generous support the following companies support the Fall Meeting 2018 and sponsor one of the parallel sessions. Each company will give a scientific lecture about their latest research as opening lecture of each afternoon session at 15.00h.



Analytical Sciences



Catalysis Science & Engineering

IBM Research

Computational & Theoretical Chemistry



Inorganic & Coordination Chemistry



Medicinal Chemistry & Chemical biology



Organic Chemistry



Polymers, Colloids & Interfaces



Plenary Sessions

## 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 CE Building, where the poster sessions and the social events of the Fall Meeting take place.



<http://www.abcr.de>



<http://www.advion.com>



<http://anton-paar.com/>



<http://biotage.com>



<http://www.bruker.ch/>



<http://www.buchi.com/>



<http://buechiglas.com>



Fournisseur de réacteurs et de calorimètres  
<http://www.equilabo.com/>



<http://igz.ch/>



<http://lot-qd.de/>



<http://www.magritek.com/>



<http://www.merck.ch>



<http://www.metrohm.com/>



<http://ch.mt.com>



<http://www.thermoscientific.com/chromatography>



Visit our exhibitors and collect their logo stickers. The more you get the higher your chance to win a one-year SCS membership and CHF 100.00 in cash. Sticker cards are available at the info desk on September 7 and full (or almost full) cards can be dropped at the same place before 17.00h. The winner will be identified just before the best poster presentation award ceremonies. Only persons that are present can win the prize.