



scg.ch/ChemEdu

Future of Chemical Education

Symposium and Workshops

15th September 2016, 08.30-18.00
University of Zurich, Irchel Campus

Swiss Chemical Society (SCS)
Haus der Akademien
Laupenstrasse 7
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SCS
Swiss Chemical
Society

Program Overview and Plenary Session [G-85]

- 08.30 Registration, welcome coffee
09.00 Welcome message and introduction
Prof. Antonio Togni, ETH Zürich
Dr. Alain De Mesmaeker, SCS President
09.15 Prof. Michael Tausch, Bergische Universität Wuppertal, D
All we need is Light – Mehr Licht im Chemieunterricht
10.00 Prof. Hans Jakob Wörner, ETH Zürich
Attosecond Spectroscopy: Watching Electrons in Motion
10.45 Short break
11.00 Prof. Catherine E. Housecroft, University of Basel
Development of Chemistry Textbooks – an interactive Process
11.45 Prof. Wendelin Jan Stark, ETH Zürich
Young Entrepreneurs in Chemistry: Getting out of the Laboratory
12.30 Lunch break and Poster Session of the SCS Fall Meeting
13.30 Workshop sessions A-D of ChemEdu 2016 or
one of the eight parallel sessions of the SCS Fall Meeting
17.00 Paracelsus Award Lecture 2016 (part of the SCS Fall Meeting
program), Prof. Michael Grätzel, EPF Lausanne [G-30]
18.30 Dinner (optional)

Workshop A, Target level: SekI, SekII, BS [11-F-06]

- A1 Paolo Lubini, Liceo Cant. Lugano 2, Michele D'Anna, Liceo Cant.
Locarno
*Chemisches Potential und Entropie im gymnasialen Unterricht:
Warum nicht?*
A2 Dr. Jurai Lipscher, Rapperswil
Der Klimawandel – Was wissen wir wirklich?
A3 Prof. Roger Alberto, University of Zurich, Dr. Urs Leutenegger, KS
Zug
Artificial Photosynthesis
A4 Giorgio Zambrino, KS Enge, Lukas Sigrist, ETH Zürich
Chemische Reaktionen in Super-Slow-Motion

Workshop B, Target level: FH, PH, HS [34-K-01]

- B1 Prof. Carlo Thilgen, ETH Zürich, Prof. Bernhard Jaun, ETH Zürich
Der Einsatz von Moodle in OC-Vorlesungen
B2 Niels Sievertsen, ETH Zürich
*Die Ganze Organische Chemie in der Hosentasche – Advanced
Problems in Organic Chemistry (apoc) at Students' Fingertips*
B3 Dr. Markus T. Müller, KS Frauenfeld, Prof. Antonio Togni, ETH
Zürich, Prof. Carlo Thilgen, ETH Zürich
*Schnittstelle Mittelschule-Hochschule am Beispiel AC1 und OC1 -
Standortbestimmung AC1/OC1*

Workshop C, Chemielabor und Praktikum [11-H-26]

- C1 Prof. Michael W. Tausch, Bergische Universität Wuppertal, D
*Photo-Blue-Bottle - Modellexperimente zum Kreislauf Photo-
synthese-Atmung*
C2 Dr. Robert Grass, ETH Zürich
Nanotechnologie und funktionelle Polymere im Unterricht
C3 Franziska Krieg et. al, ETH Zürich, Prof. Maksym V. Kovalenko,
ETH Zürich
*Einfache Synthese von stark fluoreszierenden Caesium-Blei-
Halogenid-Perovskit Nanokristallen - Ein farbenfrohes Chemie-
praktikum für die Mittelschule*
C4 Dr. Hansrudolf Dütsch, Zürich
*Leuchtstab (Knicklicht) und Synthese eines chemilumines-
zierenden Oxalsäureesters TCPO*
C5 Pitt Hild, PH Zürich
Tagescreme oder Nachtcreme? Emulsionen im Unterricht

Workshop D, Computerraum (Visualisierung, Animation, Simulation) [13-E-71]

- D1 Dr. Moritz Haag, ETH Zürich, Alain Vaucher, ETH Zürich, Prof.
Markus Reiher, ETH Zürich
*Interactive Exploration of Chemical Reactivity in Education (3D-
Modellierung chemischer Reaktionen)*
D2 Dr. Marie-Claude Blatter, Dr. Antoine Daina, Dr. Vinent Zoete,
Swiss Inst. of Bioinformatics, Geneva
*Computer-Aided Drug Design explained in a few simple steps
(Drug Design Workshop)*
D3 Dr. Hans Ueli Ehrensperger, Frauenfeld
*Visualisierung im Chemieunterricht - das Atomarium und andere
Leckerbissen*
D4 Dr. Urs Leisinger, KS Zug
*Visualisierung von Molekülen im Chemieunterricht mit JSmol -
www.molek.ch*
D5 Marcel Ottiger, Hedingen [34-K-01]
*Neuaufgabe der „Kurt Pfefferkorn“-Animationen für den Chemie-
Unterricht*

Workshop Schedule and Facilities

Slot	11-F-06	34-K-01	11-H26	13-E-71
13.30 – 14.15h	A1	B1	C1	D1
14.15 – 15.00h	A2	B2	C2	D2
15.15 – 16.00h	A3	B3	C3 & C5	D3
16.00 – 16.45h	A4	D5	C4	D4

<http://scg.ch/chemedu/2016>

<http://scg.ch/chemedu/documentation>

Welcome to ChemEdu 2016!

Given its increasing importance, the Swiss Chemical Society (SCS) decided to extend its activities into the area of chemical education. The new Division of Chemical Education (DCE), which now is in the process of being established, shall support the interaction 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, we organized this symposium "Future of Chemical Education", which is part of the SCS Fall Meeting 2016.

During the day you will get ideas and best practice in theoretical, practical and experimental chemical education and targets qualified teachers from secondary school on upwards.

We cordially welcome you at ChemEdu 2016 and hope to initialize a successful initiative to promote chemical education on all teaching levels.

Prof. Antonio Togni, ETH ZÜRICH

Prof. Roger Alberto, UniZH

Dr. Amadeus Bärtsch, ETH ZÜRICH

Dr. Klemens Koch, VSN

Dr. Markus T. Müller, ETH ZÜRICH and Kantonsschule Frauenfeld

Dr. Hans Peter Lüthi, SCS and ETH ZÜRICH

Travel to Irchel Campus, University of Zurich

Take the SBB trains to Zurich Main Station, Stadelhofen or Oerlikon

- from main station tram 7, 10, 14, direction Oerlikon until Milchbuck
- from Bellevue tram 9, direction Hirzenbach until Universität Irchel
- from Oerlikon tram 10 or 14 until Milchbuck

Site Map

