



SCS
Swiss Chemical
Society

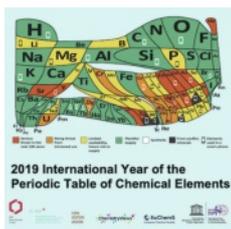
Community News

www.scg.ch

www.chemanager-online.com

SWISS CHEMICAL SOCIETY NEWS

Swiss Website to collect IYPT 2019 Initiatives



The Periodic Table of Chemical Elements is one of the most significant achievements in science, capturing the essence not only of chemistry, but also of physics and biology.

1869 is considered as the year of formulation of the modern concept of the Periodic System by Dmitri Mendeleev (and others). 2019 is the 150th anniversary

of the Periodic Table of Chemical Elements and has therefore been proclaimed the “International Year of the Periodic Table of Chemical Elements (IYPT2019)” by the United Nations General Assembly and UNESCO.

Share your IYPT2019 activities in Switzerland by submitting your initiative via our online form and let the world know about it via #IYPT2019 on Instagram, Facebook and Twitter.

Website: iypt2019.ch

Current Activities in Switzerland

- **The 90 natural elements that make up everything**
How much is there? Is that enough? Download the pdf file with a different view on the elements of the periodic table.
- **Chemische Experimente zum Periodensystem der Elemente für Schulen**
Schülerinnen und Schüler von Schweizer Schulen aller Stufen sowie ihre Lehrkräfte sollen die Bedeutung von Elementen exemplarisch in phänomenologisch attraktiven, einfach zugänglichen und kostenlos zur Verfügung gestellten Experimenten erleben.
- **Zwei Artikel in der NZZ Online**
Vor 150 Jahren brachte Dmitri Mendelejew Ordnung in der Welt der chemischen Elemente (Artikel von Uta Neubauer, 22.02.2019); Wie die chemischen Elemente auf die Welt kamen (Artikel von Christian Speicher, 22.02.2019)

Past activities in Switzerland

- **Event: Designed for Science: Complex Ideas in Clear Focus, Geneva, February 11, 2019**
The Design Unit of UN Geneva hosted “Designed for Science: Complex Ideas in Clear Focus”, an event focusing on data visualization and design in science, with specific focus on the periodic table.
- **Event: IUPAC Women in Chemical Sciences Global Breakfast, Basel, February 12, 2019**
About 30 female scientists followed the invitation and joint the IUPAC event “Empowering Women in Chemistry: A Global Networking Event”,
- **Concours Chimiscope 2019 – Élémentaire!**
Le Chimiscope, laboratoire du ScienScope de l'Université de Genève, a le plaisir de convier les classes genevoises du Primaire, du Secondaire I et du Secondaire II à “Élémentaire !”, son sixième concours annuel.

International Year of the Periodic Table – Artwork Competition

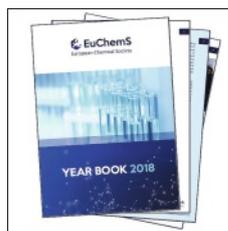


Chemistry – A European Journal proudly announces an artwork competition related to the International Year of the Periodic Table! Our authors, readers, and researchers of all ages are cordially invited to share artwork related to the Periodic Table with our readers. It can be a photo, collage, or (hand) drawing.

Submit by 1st June 2019 and have the chance to win one of three iPads. For more information including full Terms and Conditions, please visit the website.

<https://bit.ly/CEJ-IYPT-ArtworkCompetition>

EuChemS 2018 Year Book



It is with great pleasure that we inform you that the EuChemS 2018 Year Book has been published. We invite you to read it for a summary of the many activities EuChemS and its community have organised or taken part in over the previous year.

Overview of the content:

- editorial by EuChemS President Pilar Goya
- articles on the General Assembly
- report on the ECC7
- EuChemS policy initiatives
- communication activities
- past and upcoming events
- EuChemS awards
- information about professional networks

The Year Book is available online on

<http://www.euchems.eu/>

Invitation to the SCS General Assembly 2019



The Board of Directors invites all members of the Swiss Chemical Society and the delegates of its associated societies to join the 29th General Assembly.

April 5, 2019, 13.00–13.30h
Empa Akademie, Dübendorf

Provisional Agenda

1. Welcome and approval of the agenda
2. Election of the vote counters
3. Minutes of the 28th General Assembly from April 6, 2018 in Neuchâtel (published in CHIMIA 5/2018, A348)

4. Annual report 2018 (published in CHIMIA 1–2/2019)
5. Financial statement 2018 incl. audit report
6. Discharge the Board
7. Elections
10. News and strategic projects
11. Outlook 2019/2020
12. Varia

Motions to the assembly can be submitted until March 22, 2019 to info@scg.ch. A summary of the financial statement 2018 will be published on the website after the formal audit.

Swiss Chemical Society (SCS)

Dr. Alain De Mesmaeker
President

David Spichiger
Executive Director

A Warm Welcome to Our New Members!



Period: 29.01.–29.02.2019

Andreas Biland, Gelterkinden - Florian Degen, Basel - Benedetta Girardi, Basel - Dimitri Hürlimann, Grabs - Joachim Loup, Göttingen - Mergim Albert Maraj Martinez, Basel - Jörg Scheuermann, Würenlos - Yoshiki Soda, Geneva - Yujia Wang, Zurich - Supacha Wirojsaengthong, Geneva - Konstantin Zouboulis, Zurich.

HONORS, AWARDS, APPOINTMENTS

Prof. Eric Bakker, University of Geneva, wins the Simon Widmer Award 2019 of the SCS



The Simon-Widmer Award in memory of Prof. Wilhelm Simon and Prof. Michael Widmer honors distinguished scientists for their contribution to fundamental and applied analytical science and the education of analytical scientists. The 2019 distinction is awarded to **Prof. Eric Bakker** from the University of Geneva.

Eric Bakker's group aims to understand and develop chemical principles and materials for the realization of analytical sensing tools. They use electrochemical and optical readout principles for this purpose. A major direction is the realization of electrochemical and optical triggering of reactions and extraction processes: they aim to move from passive sensing systems to activated ones, where they are able to gain full control about the time the sensing reaction takes place. With this in mind, they are developing controlled current protocols for speciation analysis of ions, coulometric thin layer principles for the realization of calibration free sensors, and optical triggering of extraction events for caged compound analogs.

scg.ch/awards

Past Winners of the Simon Widmer Award

- 2019: Prof. Eric Bakker, University of Geneva
- 2017: Prof. Takehiko Kitamori, The University of Tokyo
- 2015: Prof. Detlef Günther, ETH Zurich
- 2009: Prof. Rolf Fuhr, retired (Fraunhofer IBMT)
- 2006: Prof. Renato Zenobi, ETH Zurich
- 2004: Prof. Barry Karger, Northeastern University, Boston
- 2002: Prof. Ruedi Aebersold, ETH Zurich
- 2000: Prof. Csaba Horváth (†2004)

A Liquid Approach to Solid-state Batteries



The University of Geneva presents the first “Impact Award” to a project by researchers from Empa and the University of Geneva, among others. **Prof. Hans Hagemann** (left) and **Léo Duchêne** (right) were honored for a newly developed method of integrating a closo-borate electrolyte more efficiently into a solid-state battery, which not only en-

sures greater safety but also higher battery performance.

Photo: Unitec

The technology transfer office of the University of Geneva – Unitec – celebrates its 20th anniversary this week. As part of an anniversary celebration, Unitec presented an award for the invention of the year. The recipients of this new “Impact Award” are researchers from Empa and the University of Geneva for their newly developed method of integrating an electrolyte made of closo-borate into a sodium solid-state battery that had also been newly developed by the team. Solid-state batteries are regarded as a promising solution for the future: They can be charged faster, store larger amounts of energy and guarantee higher safety.

Source: www.empa.ch/web/s604/impact-award

JOURNAL NEWS

ChemSusChem Special Issue: 50 years of the Jerzy Haber Institute



Guest edited by ChemSusChem Editorial Board Chair Gabriele Centi and Dorota Rutkowska-Zbik, this Special Issue of ChemSusChem marks the 50th anniversary of the Jerzy Haber Institute of Catalysis and Surface Chemistry at the Polish Academy of Sciences, and at the same time commemorates the outstanding legacy of Professor Jerzy Haber. It

includes a selection of reviews and research articles from presenters at the jubilee International Conference on Catalysis and Surface Chemistry, including contributions from Agnieszka Ruppert, Jiří Čejka, Leonardo Palmisano, and many others. The Special Issue also coincides with the centenary of the Polish Chemical Society. Enjoy free access until the end of 2019.

<https://onlinelibrary.wiley.com/toc/1864564x/2019/12/3>

Annual Report 2018 of ChemPubSoc Europe



More scientists, more publications, more competition. As in the past, growth continued unabated worldwide in 2018 and is also reflected in the performance metrics of the ChemPubSoc Europe / Wiley-VCH publishing program, which now consists of 16 titles. The most recent product, ChemSystemsChem, was announced in Fall 2018. In 2018, the journals that are co-owned by ChemPubSoc Europe societies published nearly 9,000 articles (excluding contributions to the online publication ChemViews Magazine).

Compared to the previous year, manuscript submissions grew by 12%, and the number of published articles rose by approximately 5%. A record number of full-text downloads, >8.9 million, was witnessed for the ChemPubSoc Europe journals, with increases in usage compared to the same time last year; notable among them ca. +20–30% for ChemCatChem, ChemElectroChem, ChemMedChem and ChemPlusChem; and ca. +70% for ChemistrySelect and ChemPhotoChem.

Approximately 3% of articles published in ChemPubSoc Europe's hybrid journals in 2018 were open access: ca. 10% at ChemBioChem and ca. 5% at ChemCatChem, Chemistry—A European Journal, ChemMedChem, and ChemPhysChem, respectively. ChemPubSoc Europe's gold open access journal, ChemistryOpen, experienced a ca. 47% growth in submissions compared to 2017.

<http://www.chempubsoc.eu>

Helvetica sponsors the Best Presentation Awards at the two SCS Seminars 2019



Two prizes of CHF 200 each for the best presentations will be given at the SCS Seminars 2019. 'Helvetica' financially supports this program and SCS is happy to partner with Helvetica for another important activity.

The prizes are given as follows:

I. Best Poster and Best Oral Presentation Award at the SCS Seminar 2019/1:

Trends in Organic Synthesis. The Seminar takes place in Villars-sur-Ollon on August 18–22, 2019.

<https://scg.ch/scs-seminars/2019-1>

II. Best Poster Presentation Award for an academic and an industrial project at the SCS Seminar 2019/2: Green & Sustainable Chemistry. The Seminar takes place at Messe Basel on September 25–27, 2019.

<https://scg.ch/scs-seminars/2019-2>

INDUSTRIAL NEWS

Source: www.chemanager-online.com

Funk to Follow Ridinger as Lonza CEO

January 31, 2019: Richard Ridinger, CEO of Basel, Switzerland-based fine chemicals producer Lonza since April 2012, will retire at the end of February and be succeeded on Mar. 1 by Marc Funk, current chief operating officer of the company's Pharma & Biotech division. To ensure a seamless leadership transition of leadership, Lonza said Ridinger will remain with the company until the end of April and then serve in an advisory capacity

until the end of 2019. The current chief executive's plans for the future are said to include "building a portfolio of non-executive positions in various companies." Prior to taking up the position at

Lonza, Ridinger held numerous leadership functions at Düsselndorf, Germany-based chemical producer Henkel and its spinoff Cognis. Under the German national's leadership, the Swiss company achieved a "strategic, operational and financial turnaround, making it the world leader in its markets today," said Albert M. Baehny, chairman of Lonza's board of directors. Among other things, Ridinger is credited with developing the company's main site at Visp, Switzerland, into a "pioneering industrial performance center." Before his tenure as COO of Pharma & Biotech, Marc Funk served as group general counsel and board secretary. Prior to joining Lonza in January 2009, he was associate general counsel at Merck Serono.

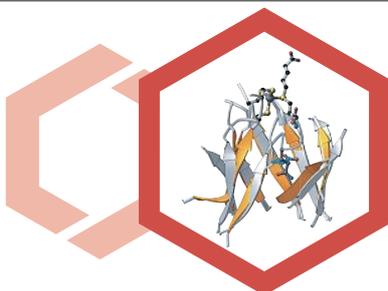
BMS-Celgene Deal May be in Danger

February 5, 2019: The proposed \$74 billion takeover of US biotech Celgene by compatriot BristolMyers Squibb (BMS), announced last month, may be looking somewhat shaky. Analysts and investors up to now have not been singularly impressed by the planned transaction, touted as the largest healthcare buy on record, and it now seems that an activist investor could step up to torpedo it. On Feb. 2, news agency Bloomberg revealed that hedge fund Starboard Value – which it called "a known agitator" – had taken a stake in BMS ahead of the deal's announcement. Neither the size of the stake nor what alternative plans the fund may have for the drugmaker have been disclosed. Among Starboard's most recent moves was to convince Dublin-based Perrigo to divest its prescription drugs business. It also pressured California's Depomed to put itself up for sale. In the pharma marketplace, the plan to buy Celgene is generally regarded as a way for New Jersey-based BMS to gain more clout in its immuno-oncology portfolio and help it keep pace with US Merck & Co. Several analysts however, have expressed doubt that the biotech would get a healthy boost from being tied to the drugs major. The shares of both parties to the deal have underperformed recently. Some market watchers have warned that the lower growth projections announced by BMS in late January, which pressured the company's share price, could make it a potential takeover candidate once it swallowed Celgene, though others saw little appetite for mega deals in the marketplace at present. Credit Suisse analyst Vamil Divan, for one, appeared to be more confident about the prospects, writing in a note to clients that he and his colleagues "continue to expect deal to close as planned," despite the activist investor in the wings.

Casale Supplies Nitric Acid Unit to Borsodchem

February 18, 2019: Swiss engineering and technology group Casale has agreed to build a 660 t/d nitric acid plant for Borsodchem in Hungary. The plant at Kazincbarcika will produce 68% strength acid using Casale's NA2000 dual-pressure process, the same technology used in Borsodchem's first and identical

HELVETICA
chimica acta
A Journal of the Swiss Chemical Society



Upcoming Helvetica Awards

Best Poster and Best Oral Presentation Award
SCS Seminar 2019/1 'Trends in Organic Synthesis', Villars-sur-Ollon, August 18 – 22, 2019

New Helvetica Prize of the Swiss Chemical Society for the Best Article Published in Helvetica
Fall Meeting of the SCS, University of Zurich, September 6, 2019

Best Poster Presentation Award
SCS Seminar 2019/2 'Green & Sustainable Chemistry', Messe Basel, September 25 – 27, 2019

unit, which has been in operation on the site since 2012. Under the terms of the contract, Casale will provide the license, basic engineering, a review of detailed engineering and site assistance to the project. The NA2000 technology was originally developed by Grande Paroisse, which Casale acquired from Borealis in 2014 along with a package of nitrates and phosphates fertilizer processes. Casale is also providing a nitric acid plant to Smartchem Technologies, a wholly owned subsidiary of India's Deepak Fertilisers and Petrochemicals. Under a contract announced last December, Casale will build a 900 t/d nitric acid plant based on the NA2000 process and a 1,143 t/d ammonium nitrate (AN) solution plant based on its AN2000 pipe reactor technology. In addition, the Lugano-based group will supply a prilling unit capable of producing either 970 t/d of high-density AN based on Casale technology, or the same volume of low density AN using newly acquired technology from Australian mining company Orica.

Ineos Chief's Monaco Move Plan Slammed

February 21, 2019: If Jim Ratcliffe's intention is to generate publicity, negative or positive, for Ineos and himself he has succeeded in the past few days. Along with criticizing the UK's restriction on fracking, he also slammed the EU's "stupid" green taxes and now is making the headlines with plans to move to a new tax haven. The Ineos chairman's intends to relocate to Monaco, to save tax for himself and the two other shareholders, Andy Currie and John Reece. Ratcliffe owns 60% of the company. Plans for the move were announced in August 2018 but have re-entered the spotlight as details have become known. According to the London newspaper Sunday Times, Ratcliffe and the two other men together could legally save £1 billion to £10 billion tax-free, but would leave the British Treasury at least £400 million and potentially up to £4 billion short. It was unclear whether relocation to the tax haven would entail a restructuring of Ineos' operations in the UK, or would affect its Swiss holding or production assets in other countries. The private company's structure is not entirely transparent. British accounting experts told the newspaper The Guardian that there are "numerous possibilities" for moving profits abroad to save tax. Under one scenario, Ineos divert dividends to Monaco or wrap up inter-company loans there. Auditors PwC, who are advising the Ineos owners on the tax plan, are said to have been concerned that being involved in the project would damage their reputation, but denied that they had considered backing out. At the height of the financial crisis in late 2010, Ineos moved from Lyndhurst, Hampshire, UK, to Rolle, Switzerland, near Geneva, after squabbles with the government over tax a denied deferral. In December 2016, the company inaugurated a new campus in London's Knightsbridge section, which is now home to Ineos Shale and a number of other corporate functions. The partial repatriation was received enthusiastically by the UK government, with ministers calling it "a vote of confidence in the British economy." Ratcliffe was knighted last year for his services to business and investment, but the

latest relocation plans have met with strong disapproval both in the government and the general public, with one political leader calling the move "deeply cynical." Anticipating criticism, Ineos told Sunday Times that it has 400 companies in 35 jurisdictions "that regularly paid dividends within the group" and that "Ineos and its owners always fully adhere to all tax legislation and consistently use external professionals to verify that all procedures are correct and compliant." By its own account, the company currently has more than 10 major projects in the pipeline, including both acquisitions and new builds, worth "over \$1 billion million each. A business journal in Houston, Texas, USA, said this week that Ineos is planning to expand chemical production on the US Gulf to take advantage of tax incentives, without further elaboration. Manchester native Ratcliffe, with an estimated worth of £21 billion, currently heads the Sunday Times list of the UK's richest persons. The newspaper estimates Ineos' value at £35 billion.

DowDupont Sells Sustainable Solutions Business

February 21, 2019: DowDuPont Specialty Products is selling its DuPont Sustainable Solutions (DSS) business, creating an independent global management consultancy. The new firm will be led and operated by DSS's existing management and supported by Swiss investment group Gyrus Capital. Financial details were not disclosed. Employing more than 600 consultants and subject matter experts worldwide, DSS provides consulting services to the oil & gas, chemicals/petrochemicals, mining and metals, and manufacturing industries. DSS's core areas of expertise include operational risk management, operational excellence and learning technologies, which it said will be enhanced by capabilities in digital transformation, data analytics and innovation to help companies accelerate improvements in safety and productivity. "As client needs for a broader set of consulting services grow, the transition to an independent company will allow for increased flexibility to serve our clients and bring innovative solutions to market faster," said Davide Vassallo, global managing director of DSS. Maintaining a strong connection to its DuPont heritage, the new company will retain the rights to intellectual property related to the services it sells and will also have continued access to the DuPont Sustainable Solutions name, DuPont logo, knowledge, sites, capabilities and resources for an undisclosed period of time. The deal is expected to finalize in July 2019, pending the completion of all closing conditions. DowDuPont is separating its Specialty Products division as the merged group splits three ways. Specialty Products, which has \$21 billion in pro forma revenues and \$5.3 billion in pro forma operating EBITDA, will trade as DuPont when the spin-off takes place, due by Jun. 1, 2019. The largest of the three segments, Materials Science, is due to be separated by the end of this quarter. It will adopt the Dow name. The Agriculture division, which combines DuPont Crop Protection, Pioneer and Dow AgroSciences, will be renamed as Corteva Agriscience when it splits, also due by June 1.

Mass Spectrometry for Chemists with the expression CMS



Fast reaction
monitoring through
analysis in seconds



Direct mass
analysis from
TLC-plates



With transfer unit
for air-sensitive
samples

Advion

For more information:
central-europe@advion.com
www.expressioncms.com