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Community News

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SWISS CHEMICAL SOCIETY NEWS

Ilmac 2023 in Basel was a resounding success



Over the course of three days, leading industry providers as well as 30 innovative startups, came together in the Basel exhibition halls to present their innovations and new products to around 12'000 participants. "With the new Ilmac format, we were able to respond even better to the needs of the industry and thus attract a large number of ex-

hibitors and visitors. We will maintain this strategy in future to ensure a strong and successful Ilmac," says Céline Futterknecht (Brand Director, Ilmac). New highlights like the Startup Area, the Laboratory of the Future exhibition, the Job Connect area and our Speakers' Corner complemented our well-established formats such as the Ilmac Conference and the Pharma Logistics Days, which took place in parallel for the third time. A special experience for all exhibitors and visitors was the Networking Apéro. There's no other place where one can mingle with so many colleagues, experts and service providers under one roof. Kaspar Sutter (Head of the Department of Economic, Social and Environmental Affairs of the Canton of Basel-Stadt) said a few words to welcome everyone.

"Our conclusion is very good. We were able to welcome many new customers at our stand and start interesting projects. For us as an innovative company, Ilmac is the most important trade fair to be able to present our new products to a broad professional audience," says Ricardo Da Costa, General Manager of Anton Paar Switzerland AG after Ilmac. Guiseppe Cirillo, Head Sales & Marketing, SKAN AG, formulated his positive conclusion as follows: "We had a lot to do and that's what we want at a trade fair! We were visited by many people - existing and new customers. For me it is nice to see how Ilmac has recovered. Because Ilmac is our trade fair." Paula Winter, Global Marketing Programme Manager of Beckman Coulter GmbH is also satisfied: "It went very well for us. We had many interesting discussions with our customers. Ilmac is very important for us because it is the leading trade fair for the life and sciences market in Switzerland and we can present our entire product range here."

An efficient transfer of know-how at the Ilmac Conference, organized by the SCS



The science-oriented Ilmac Conference impressed the participants with a wide range of topics and high-profile speakers. This year's focus was on important industry topics such as Lab Digitalisation, Chemical Technologies and New Biotech Methods. The Ilmac Conference was organised in cooperation with the Swiss Chemical Society, the Swiss

Biotech Association and the Swiss Association of Graduate Chemists FH (SVC) and ensured an efficient transfer of knowledge between experts and visitors.

With welcome coffees in the morning, during lunch breaks and after the last talks, SCS offers networking opportunities at its booth. Hundred of Ilmac and Ilmac Conference visitors profited from this offer and appreciated the opportunity to connect to others and exchange ideas and thoughts.

"Our experience at Ilmac has been thoroughly positive. We had a lot of visitors at the conference. Our programme of national and international speakers was well received by people and our three themes are exactly what people are concerned about today," says David Spichiger, Executive Director, Swiss Chemical Society

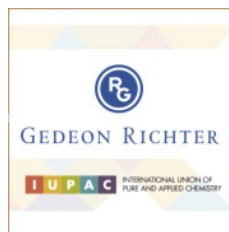
Swiss Women in Chemistry Networking event



On Tuesday evening of the Ilmac 2023, September 26, 2023, the Swiss Women in Chemistry Network organized a session with inputs from senior community members about their career paths. Dr. Martina Ribar Hesticová, Associate Director of Science Communications, Lonza, Prof. Helma Wennemers, Professor of Organic Chemistry, ETH Zurich, and Dr. Hayley Binch, Head of Medicinal Chemistry, F. Hofmann-La Roche Ltd. talked about their experiences during their careers and answers questions from the audience. After the session there was plenty of opportunities to network during the aperitif riche.

The next Ilmac event will be held in Lausanne on 4 and 5 September 2024 and in Basel from 16 to 18 September 2025.

Call for Nominations: IUPAC-Richter Prize 2024



The prize is to be awarded to an internationally recognized scientist, preferably a medicinal chemist, whose activities or published accounts have made an outstanding contribution to the practice of medicinal chemistry or to an outstanding example of new drug discovery and is endowed with USD 10,000.

The 2024 IUPAC-Richter Prize will be presented during the XXVIII EFMC International Symposium on Medicinal Chemistry (September 1–5, 2024) in Rome (Italy) and the recipient will also give a lecture on the subject of their research at the 38th ACS National Medicinal Chemistry Symposium (June 23–26) in Seattle, WA, United States.

Nomination Process

Applicants should be received by NOMINATION only, with just one person needing to serve in that capacity, although a total of five (5) individuals should be listed as referees overall. The

package must be submitted electronically and should contain a complete resume, a professional biography of not more than two pages, and a one-page summary of what the individual considers to be their activities, accomplishments and/or publications that have had the most significant impact upon the field of Medicinal Chemistry. The material will be forwarded confidentially to an independent selection committee appointed by the IUPAC Subcommittee on Medicinal Chemistry and Drug Development.

Deadline for nominations is December 15, 2023 online via the online form on <https://iupac.org>

For further information please contact Prof. Janos Fischer, Member of the IUPAC Sub-committee on Drug Discovery and Development, by email at j.fischer@richter.hu
More information: <https://iupac.org>

Call for the Prix Schläfli Nominations 2024



The Swiss Academy of Sciences (SCNAT) awards the Prix Schläfli for scientific articles resulting from PhDs that make major contributions to key questions in their respective fields. In 2024, four prizes will be awarded according to the following disciplines: Biology, Chemistry, Geosciences and Mathematics.

Eligibility is limited to young researchers who completed their doctoral thesis at a Swiss university, or Swiss nationals who completed their doctoral thesis abroad. Candidates must have defended their doctoral thesis between 1 November 2020 and 30 November 2023. Nominations may only be submitted by the candidate's doctoral supervisor or by the president of an SCNAT member society.

More information: <https://scnat.ch/awards>

A Warm Welcome to Our New Members!



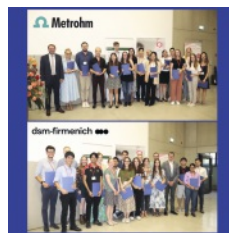
Period: 18.08.2023–20.09.2023

Michael Birbaumer, Seedorf - Lysi Ekmekciu, Geneva - Remo Eugster, Bern - Martin Gauthier-Jaques, Kehl (D) - Marcel Grogg, Zurich - Bradley Higginson, Basel - Elvira Linne, Basel - Alaa Maatouk, Neuchâtel - Voichita Mihali, Basel - Luca Mössinger, Ham-

burg (D) - Cäcilie Müller, Zurich - Camila Negrete Vergara, Domat/Ems - Agnese Nicoli, Cugnasco-Gerra - Eda Nisli, Zurich - Julie Quintaine, Satigny - Jolanda Reusser, Schliern bei Köniz - Juliette Schleicher, Lausanne - Lisa Sherman, Zurich - Patrick Wallquist, Küttigen - Luca Wenchel, Zurich - Henry Wetton, Zurich - Helene Wiesinger, Zurich - Irina Zhirkina, Basel.

HONORS, AWARDS, APPOINTMENTS

41 young Scientists awarded with one of the Best Presentation Awards at the SCS Fall Meeting 2023



In collaboration with Metrohm and DSM-Firmenich, the SCS offered again a very attractive and prestigious Fall Meeting Best Presentation Award program. We are very proud and happy to cooperate with our sponsoring partners, Metrohm and DSM-Firmenich, for so many years.

The 41 winners received travel vouchers to attend international conferences (total value CHF 16,500), cash (total value CHF 12,500) and invitations to publish an article in the laureates issue of CHIMIA 4/2024 (total value CHF 9,600).

Best Oral Presentation Awards 2023

Markus Steinke, representative of Metrohm, awarded a total of 17 winners at the end of the SCS Fall Meeting on August 25, 2023 at vonRoll Campus, University of Bern.

Polymers, Colloids & Interfaces

Winner: Hyun Suk Wang, ETH Zurich

Runner-up: Priscila Cavassin, University of Bern

Physical Chemistry

Winner: Sarah V. Barrass, EPFL Lausanne

Runner-up: Estefanía Sucre-Rosales, Uni Geneva

Organic Chemistry

Winner: Annabell Martin, University of Zurich

Runner-up: Sven Roediger, ETH Zurich

Medicinal Chemistry

Winner: Kasimir Kienbeck, University of Zurich

Inorganic Chemistry

Winner: Wowa Stroek, University of Bern

Runner-up: Tzu Chin Chang Chien, University of Basel

Chemistry and the Environment

Winner: Inna Nybom, ETH Zurich

Runner-up: Joanke van Dijk, Empa, St. Gallen

Computational Chemistry

Winner: Nina Glaser, ETH Zurich

Runner-up: Jeff Guo, EPFL Lausanne

Catalysis Sciences & Engineering

Winner: Ana Benitez-Mateos, University of Bern

Runner-up: Anastasiia Komarova, EPFL Lausanne

Analytical Sciences

Winner: Thomas Moragues, ETH Zurich

Runner-up: Tara Forrest, University of Geneva

Best Poster Presentation Award 2023

Dr. Jonathan Medlock, Laboratory Head of Process Research, awarded a total of 24 winners at the end of the SCS Fall Meeting 2023 on August 25, 2023 at vonRoll Campus, University of Bern.

Polymers, Colloids & Interfaces

Winner: Kangwei Chen, University of Zurich

Runner-up: Ilaria Onori, University of Fribourg
Jan Thiede, University of Bern

Physical Chemistry

Winner: Meghna Manae, ETH Zurich

Runner-up: Federico Cambiè, PSI Villigen
Mateusz Suchodol, EPFL Lausanne

Organic Chemistry

Winner: Emma Robert, EPFL Lausanne

Runner-up: Anthony Fernandes, University of Bern
Andrea Geraci, University of Basel

Chemical Biology

Winner: Héloïse Bürgisser, University of Zurich
 Runner-up: Daniel Richter, ETH Zurich

Medicinal Chemistry

Winner: Sebastian Sjöström, ETH Zurich
 Runner-up: Krittapas Jantarug, University of Zurich

Inorganic Chemistry

Winner: Alessandra Logallo, University of Bern
 Runner-up: Daniel Käch, ETH Zurich
 Giacomo Rigoni, University of Bern

Chemistry and the Environment

Winner: Sarah Partanen, Eawag Dübendorf

Computational Chemistry

Winner: Sophia Johnson, EPFL Lausanne
 Runner-up: Gabriel Laude, ETH Zurich

Catalysis Sciences & Engineering

Winner: Alessandro Walker, ETH Zurich
 Runner-up: Sven Thomas Nappen, ETH Zurich
 Kazutaka Sakamoto, ETH Zurich

Analytical Sciences

Winner: Nora Bernet, Eawag Dübendorf/ETH Zurich
 Runner-up: Michael Hofstetter, ETH Zurich

Website of the SCS Fall Meeting 2023: <https://fm23.scg.ch>

Best Contributed Talk and Best Poster Presentation Award Winners at the Peptide Therapeutics Forum 2023



As part of the 2023 edition of the Peptide Therapeutics Forum 2023, taking place as a hybrid conference in Basel and online, the SCS also offered the opportunity for students to present a poster or a contributed talk. The best contributions were honored with the 'Helvetica' Best Contributed Talk Award and the Best Poster Presentation

Award by Chemistry Europe. Dr. Richard Smith, Associate Editor of Chemistry Europe and Executive Editor of Helvetica, handed over the certificates to the winners.

Best Contributed Talk

Mirja Harms, Ulm University Medical Center
 «Preclinical development of the endogenous CXCR4 antagonist EPI-X4 for therapy of cancer and inflammatory diseases»

Héloïse Bürgisser, University of Zurich

«Chemical synthesis of c-Myc transactivation domain using a synthesis/solubility tag»

Best Poster Presentation

Tam Dang, Technische Universität Berlin (TU)
 «Resistance and target of aminopolyol peptide antibiotic paenilamicin»

Adeline Schmitt, ETH Zurich

«Amphipathic proline-rich cell penetrating peptides for mitochondria targeting»

Additional information about the event is available on the website of the symposium: <https://ptf23.scg.ch>

2023 IUPAC-Zhejiang Nhu International Award For Advancements in Green Chemistry awarded to Xile Hu, EPFL Lausanne



Prof. Xile Hu, EPFL Lausanne and his group received the 2023 IUPAC-Zhejiang Nhu International Award For Advancements in Green Chemistry in recognition of their many outstanding scientific discoveries in the field of Green Chemistry, particularly in Green Catalysis and Green Energy. In the area of green catalysis, they have

developed new catalytic methods and catalysts that are based on earth-abundant elements for organic synthesis. In the area of green energy, Prof. Hu and his team have developed a number of novel earth-abundant electrocatalysts for the hydrogen and oxygen evolution reactions (HER and OER), which are the two half-reactions for water splitting, the main route to green hydrogen. They have made significant contributions to highly active earth-abundant catalysts for the hydrogen oxidation reaction, the key cathodic reaction in fuel cells. They have also invented superior anion exchange membranes (AEMs) for next-generation membrane water electrolyzers and fuel cells. They have demonstrated record-setting efficiencies in AEM electrolyzers and fuel cells. His group has made breakthrough catalysts and systems for CO₂ and CO electroreduction. Their work is not only of fundamental value but has significant potential in industrial applications. For example, a startup company, NovaMea SA, has been founded based on their work in green energy.

Professor Xile Hu has been invited to deliver a plenary lecture at the 10th IUPAC International Conference on Green Chemistry, 25–29 October 2024, Beijing, China.

The IUPAC-Zhejiang NHU International Award for Advancements in Green Chemistry is presented every two years. Each time, one award is presented to an experienced chemist (10,000 \$US), and three awards are given to three young chemists (2,000 \$US each) for their significant contributions to the field of green chemistry. The previous awards were presented in 2019 and 2021, respectively.

Source: <https://iupag.org>

University of Gabès awards Prof. Michael Grätzel, EPFL Lausanne, honoris causa



Prof. Michael Grätzel, EPFL Lausanne has been awarded an honorary doctorate from the University of Gabès (Tunisia), a public university located in southern Tunisia with headquarters in Gabès. The official announcement reads: "By order of the Minister of Higher Education and Scientific Research of July 14, 2023, the University of Gabès awards an

Honorary Doctorate to Professor Michael Grätzel, Swiss national, Professor of Higher Education at the Ecole Polytechnique Fédérale de Lausanne – EPFL Switzerland, in the field of science and technology."

About Prof. Michael Grätzel

Professor Grätzel is world-renowned for inventing the first dye-sensitive solar cell in 1991 with chemist Brian O'Reagan. Just as plants use chlorophyll to turn sunlight into energy, the "Grätzel cells" use industrial dyes, pigments or quantum dots stimulated by sunlight to transmit an electrical charge. Within fifteen years of the original invention, Grätzel evolved the cells

into an applied technology that is now being developed in universities and companies worldwide.

Prof. Grätzel currently directs EPFL's Laboratory of Photonics and Interfaces within the Institute of Chemical Sciences and Engineering (ISIC). His 1,750 publications have received over 450,000 citations and have an h-index of 295. In 2019, Stanford University ranked Grätzel first of 100,000 top scientists across all fields.

Source: <https://actu.epfl.ch>

Dr. Masao Horiba Award 2023 for Naresh Kumar, ETH Zurich



Dr. Naresh Kumar, ETH Zurich was awarded the 2023 Masao Horiba Award for his contributions to the advancement of nanoscale chemical analysis in novel semiconductor materials using optical nanospectroscopy. The significance of Dr. Kumar's research lies in the advancements made in nanoscale characterization and understanding of novel semiconductor materials. He has expanded the capabilities of TEOS by applying it to 2D TMDs and OPV devices, surpassing the limitations of conventional techniques. His findings provide valuable insights into excitonic processes, heterogeneity of exciton and trion populations, optoelectronic behavior of GBs, and the structure property relationships in OPV devices. Dr. Kumar's research on the development of novel nanoanalytical technologies is expected to contribute significantly to the development and optimization of next-generation optoelectronic devices and organic photovoltaic technologies. Established in 2003, the Masao Horiba Award promotes excellence in analytical and measurement technologies research among scientists and engineers at universities and public research institutes worldwide. Find more details about the awardee in this article.

Source: <https://chab.ethz.ch>

JOURNAL NEWS

Helvetica, Volume 106, Issue 9, September 2023



Synthetic Procedures

Synthesis and Reactions of Trifluoromethyl-Substituted 1,3,5-Triazines

Woohyung Jeon, Ramil Baiazitov, Matteo Chierchia, Kyle Niederer, Hongyu Ren, Young-Choon Moon, Bradley B. Gilbert

Research Articles

Discovery and SAR Studies of Potent Modulators of BMI-1 Expression

Ramil Y. Baiazitov, Nadiya Sydorenko, Wu Du, Hongyu Ren, Liang Cao, Thomas Davis, Katherine Cintron-Lue, Min-Jung Kim, Jin Zhuo, Shreshtha Mody, Marla Weetall, Josephine Sheedy, Nicole Risher, Neil Almstead, Young-Choon Moon

Novel Synthetic Approach towards Amino-Substituted Polycyclic Aromatic Hydrocarbons through Electrocyclization of Ketenium Salts

Masahiko Yoshimura, Pierre Quinodoz, Lucía Reyes Méndez, Amandine Kolleth, Sarah Sulzer-Mossé, Thomas Vent-Schmidt, Ulfet Karadeniz Yezer, Saron Catak, Alain De Mesmaeker

Structural Determinants of the Binding and Activation of Estrogen Receptor α by Phenolic Thieno[2,3-*d*]pyrimidines

Vamshikrishna Reddy Sammeta, Brian M. Anderson, John D. Norris, Chad D. Torrice, Carstyn Joiner, Shubin Liu, Haoxi Li, Konstantin I. Popov, Sean W. Fanning, Donald P. McDonnell, Timothy M. Willson

A Covalent Binding Mode of a Pyrazole-Based CD38 Inhibitor

Kevin Doyle, Maxine Roberts, Jenna Harvey, Richard Hewer, Matthias Zebisch, Victor Rangel, Meigang Gu, Yiming Wu, Lichao Yang, Mark Carlton, Lee Dawson, Roland Bürli

The π -Molecular Complex of Biphenylene and Tetracyanoethylene

Rita Dobszay, Péter J. Mayer, Tamás Holczbauer, Attila Kunfi, András Stirling, Gábor London

Borotropy: The Mechanism of Boron Transfer Between Adjacent N-Atoms of Pyrazol-1-yl Rings

Ibon Alkorta, José Elguero

Transitions in Solvate Crystals of a Tetraaryladamantane

Wolfgang Frey, Alexander Schwenger, Tim Berking, Clemens Richert

Website: <https://onlinelibrary.wiley.com/journal/15222675>

INDUSTRIAL NEWS

Source: www.chemanager-online.com

Peter Boone to Succeed Hidde van der Wal as CEO of Barentz

September 4, 2023: Barentz has appointed Peter Boone as its new CEO, effective Oct. 1, 2023. He succeeds Hidde van der Wal, who is to retire after leading the company more than 20 years. Boone most recently served as CEO of Barry Callebaut, a Swiss manufacturer of chocolate and cocoa products. Prior to this, he spent more than fifteen years at Unilever in various positions. Van der Wal joined Barentz in 1988, working in various positions throughout the organization. He left in 1994 to join Archer Daniels Midland, before re-joining Barentz in 2000 as CEO. During Van der Wal's tenure, Barentz grew throughout Europe and expanded into the Americas and Asia, increasing turnover from €125 million in 2000 to €2.5 billion today.

Intelligent Engineering for Optimized Pharma Manufacturing

September 13, 2023: ACG Engineering Develops Technologies to Increase Efficiency, Precision and Quality in Pharmaceutical Manufacturing Processes. The Covid pandemic and its repercussions have changed the pharmaceutical industry and the healthcare markets. Richard Stedman, the CEO of ACG Engineering, discusses the lessons learned from the global supply chain disruptions and how innovative equipment helps pharma manufacturers overcome the challenges.

ACG, founded as Associated Capsules Group in 1961, today serves pharmaceutical and nutraceutical companies all over the world. As a supplier of integrated manufacturing solutions to these industries, the India-based group offers a complete range of solutions: beginning with empty capsules; granulation and coating; capsule filling; tableting; packaging films and packing, as well as end-of-line solutions with almost 24,000 machine installations worldwide. In March 2023, ACG announced that Richard Stedman will be re-joining the group as the CEO of its Engineer-

ing division, a position he had held from 2017 to 2021. CHEManager asked him to analyze current market trends and present his strategy to further develop and grow the engineering business.

CHEManager: *How has the pandemic and its repercussions changed the industry and the markets? Which challenges are ACG's customers currently facing?*

Richard Stedman: I'd argue that one of the biggest challenges the pharma industry is currently facing is that of supply chain disruption. This started in 2020 during the Covid pandemic and has intensified over the last couple of years. At ACG, we have had to be agile in our response to the situation to continue to deliver on our promise to 'make it better' for our clients and end-users. We're now learning how we are going to live with and manage the disruptions that will undoubtedly continue to prevail – creating significant delays and issues for our sector. The industry has had to adapt accordingly in order to continue successfully delivering services to end users. Talent shortages are also creating difficulties for the industry – finding qualified associates and professionals has become a difficult task. The sector needs people with an understanding of the pharma manufacturing processes to be able to help solve the growing challenges the industry is facing. One example is the issue of how to collect, manage and analyze data, whilst providing security and encryption assurances.

What are the lessons learned from the global supply chain disruptions caused by the pandemic? Have your customers changed their approach to safeguarding the supply of critical components?

R. Stedman: Shortages of raw materials are continuing to yield severe pharmaceutical manufacturing supply line disruptions. In some cases, European manufacturers are experiencing a doubling of supplier lead times, uncertain and fluctuating prices, and orders that are often subject to delays. Numerous additional sector threats including soaring inflation and global talent shortages have left many manufacturers with plants not operating to full capacity – compounded by increases to overall running costs. As our head of global supply chains, Nikunj Desai, commented: "Looking to Darwin's philosophical reasoning: 'It is not the most intellectual of the species that survives; it is not the strongest that survives, but the species that survives is the one that is able best to adapt and adjust to the changing environment in which it finds itself'." In an article published at the end of last year, Desai advised that: "Now, during one of the greatest manufacturing crises on record, is a time to consider doing things differently rather than accepting the scarcity of multiple resources and running a leaner operation to match."

To ensure they are able to weather this current – and future – crises, customers are having to strengthen their processes when it comes to a number of factors.

Can you explain some of these factors in more detail?

R. Stedman: These factors include the following: More resilient supply chains – built on strong foundations with robust processes and systems that enable their stakeholders to have full visibility and subsequent control.

Managing risk – anticipating potential disruptions and building resilience to adapt to unforeseen events. Track and trace – being able to identify products' whereabouts in the supply chain is also key – from production through to delivery.

Process automation – reducing errors and increasing accuracy and precision.

To better understand how ACG is positioned to support their customers in managing these challenges, please give us a quick overview of ACG Engineering's core competences and capabilities.

R. Stedman: For more than 60 years, ACG has been committed to 'making the world better' by providing materials, equipment

and technology to the pharma industry, helping its customers to provide products to the end user, so they can have a better life. ACG is the world's only integrated pharma manufacturing solutions company, with products ranging from capsules to films & foils, to engineering equipment and inspection systems – all that meet international regulatory requirements. For ACG, it's always about finding innovative solutions to the world's greatest health challenges, together ACG's Engineering provides end-to-end pharmaceutical engineering solutions, manufacturing tablet press, capsules filling and packaging machines.

The company also continues to grow its packaging solutions across the global customer base. Customers are able to leverage the synergy across the ACG Engineering business or combination supply arrangements, leveraging both engineering solutions combined with the supply of ACG Capsules and/or Films and Foils. ACG has a unique unmatched consumables and machine supply value proposition – One ACG.

So, how can ACG Engineering help customers to strengthen their processes and drive pharmaceutical innovation while at the same time meet regulatory as well as quality, anti-counterfeiting, and cost efficiency requirements?

R. Stedman: ACG machines and processing technology are prepared and equipped for the future of pharma. Our focus is centered around optimizing processes and working to reduce downtime. Regulatory compliance will continue to be a top priority in pharmaceutical machine manufacturing. Stringent regulations governing the production of pharmaceuticals, including tablets and capsules, will drive the development of machines that ensure compliance with good manufacturing practices – GMP –, international standards, and regulatory guidelines. This will involve robust documentation, validation and qualification processes to ensure the safety, efficacy and quality of pharmaceutical products. Developments in pharmaceutical machines, including automation, advanced sensors and monitoring systems, material handling and feeding systems and improved machine design have resulted in increased efficiency, precision and quality in manufacturing processes. As a result, this has hugely benefitted the pharmaceutical industry and – ultimately – the patients who rely on these medications for their health and wellbeing. ACG has redesigned and realigned its entire documentation suite to meet international compliance requirements.

We are also changing how we optimize our equipment. For example, we are looking at digital twins during design and maintenance, and how we replicate in order to increase output and the lifetime of the machine.

Digitalization has umpteen of faces; how will digital solutions transform drug formulation and pharmaceutical manufacturing?

R. Stedman: Pharma 4.0, digitization and automation are game changers and will lead to exciting changes and developments in the next generation of machines. We will witness the integration of cutting-edge technologies, such as artificial intelligence – AI –, machine learning – ML –, and the Industrial Internet of Things – IIoT –, into pharmaceutical machines to enhance their efficiency and precision. This will result in increased productivity, reduced downtime and improved quality control, leading to higher yields and cost savings for pharmaceutical manufacturers and lowering the total cost of ownership. There are also massive amounts of data being created in the industry, and how we use this moving forward is hugely exciting. Utilizing smart connected machines and IIoT helps our customers to combine reality with the digital environment.

ACG Engineering has had success in working with customers partnering in developing systems to monitor stoppages/downtime and improve productivity. ACG has the advantage of developing these digital proof of concept models in its own manufacturing

facilities and applying the learnings very successfully to customer solutions.

Sustainability is today's buzz word, and manufacturers constantly look to optimize their equipment's energy and performance efficiency. How can ACG Engineering support them?

R. Stedman: There will be a growing emphasis on sustainability and environmental consciousness over the next decade. Pharmaceutical machine manufacturers will continue to focus on developing eco-friendly machines that minimize waste, reduce energy consumption and comply with stringent environmental regulations. This will involve the use of renewable energy sources, the implementation of green manufacturing practices, and the adoption of recyclable and biodegradable materials across machine components. Sustainability is a driving force in ACG's initiatives. This includes changes to the raw materials that are being used and how we can reuse, recycle and reduce to create sustainable concepts in the design of the machine for a healthier future. In May 2023, ACG announced its nomination for the Global Water Intelligence's Industrial Project of the Year Award. Established in 2006 by Global Water Intelligence, the awards recognize the most important achievements in the international water industry. The ZLD project at ACG's Dahanu plant recycles and recovers over 95% of water for reuse, helping to meet regulations and alleviate local water stress. Committed to reducing our carbon footprint by 20% year on year, our sister company ACG Films & Foils has adopted a number of initiatives, including:

- Investing in the development of sustainable products to reduce the carbon footprint of the pharma packaging itself.
- Implementing an energy management system and increasing the usage of renewable energy sources, including solar power.
- Reducing waste generation within our plant premises by eliminating and segregating it from the sources and upcycling the remaining waste into wood and plastic composite materials.

Lonza-CEO Ruffieux to Leave Swiss CDMO

September 18, 2023: Pierre-Alain Ruffieux, CEO of Lonza, will leave the Basel-based company at the end of September. According to the Swiss Contract Development and Manufacturing Organization (CDMO), the separation is by mutual agreement. The Lonza Board of Directors also announced that Albert M. Baehny, Chairman of the Board, will assume the additional responsibility as CEO ad interim until a permanent successor is appointed. Baehny had already led the Group on an interim basis in 2020 after then-CEO Marc Funk left the Swiss chemical and biotech group in January 2020 after less than a year in office. Ruffieux has been CEO since November 2020 and was previously Head of Global Pharma Technical Operations at Roche. The medium-term strategy and outlook will be discussed in detail at the Capital Markets Day in Visp on October 17, 2023. At the end of July, Lonza reported sales of CHF 3.1 billion and sales growth of 3.2% (5.6% on a constant currency basis) for the first half of 2023, representing underlying sales growth of approximately 10%. CHF 922 million core EBITDA resulted in a margin of 30%.



SCS Academy

Swiss Chemical Society

InCompany Training

In collaboration with you we organize or develop InCompany Trainings and courses according to your ideas and needs. Benefit from the fact that we can

- design contents to company-specific requirements and wishes
- specifically address questions and problems in your field of application
- carry out practical exercises on your equipment
- conduct training sessions in French or English, if necessary

Experts are at your disposal for a personal need's assessment.

Place / Date

The training can be conducted at your location or as online training. Your employees do not have to pay for travel and accommodation!

The date will be arranged to fit best your needs.

Fees

On request, depending on the length of the training and the complexity of the curriculum.

Target group/customers

Customers who have a need for specific education and further training measures to complete the offering of the SCS Academy and other training providers.

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