

# SWISS

# PHARMA

**POWTECH 2020**  
SPECIAL EDITION  
Nuremberg, 30 September to 1 October 2020

Pharma Manufacturing Excellence

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the Pharmaceutical  
Industry

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Zeitschrift für die  
pharmazeutische  
Industrie

Revue suisse  
pour l'industrie  
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per l'industria  
farmaceutica



3a/20

# 60 Jahre Gesellschaft der Schweizerischen Industrie-Apotheker(Innen) «60 Jahre Industrie-Pharmazie»

## SWISS PHARMA 3/16

### 60 JAHRE GSIA

#### SYMPOSIUM «60 JAHRE INDUSTRIE- PHARMAZIE»

Pharmazentrum der  
Universität Basel

21. Juni 2016

#### EDITORIAL

La Société suisse des pharmaciens(ne)s  
d'industrie jette un regard rétrospectif  
sur 60 ans d'histoire et se prépare pour  
l'avenir

Die Gesellschaft der Schweizerischen  
Industrie-Apotheker(Innen) blickt auf 60  
Jahre ihres Bestehens zurück und rüstet  
sich für die Zukunft

– *Frédéric Zwahlen, Präsident GSIA*

#### 60 JAHRE GSIA

60 Jahre GSIA, Gesellschaft der Schweize-  
rischen Industrie-Apotheker(Innen)  
60 Jahre Industrie-Pharmazie – Die histori-  
sche Entwicklung im Wandel der Zeit

– *Gespräch mit Frédéric Zwahlen,  
Präsident GSIA*

#### 60 JAHRE GSIA/GSIA-STIFTUNG

Die GSIA-Stiftung – Unterstützung der  
beruflichen Fort- und Weiterbildung des  
Berufsstands der Apotheker  
Förderung des beruflichen Nachwuchses  
für die Industrie-Pharmazie

– *Gespräch mit Uwe E. Jocham  
Mitglied des Vorstands der GSIA  
Präsident des Stiftungsrates  
der GSIA-Stiftung*

#### PHARMAZIEGESCHICHTE DISRUPTION DRUG DESIGN

60 Jahre Industrie-Pharmazie: Historischer  
Wandel in Lehre und Forschung.  
(Durch)brüche, die die Pharmazie  
veränderten

– *Prof. Dr. Gerd Folkers*

#### BIOPHARMAZEUTISCHE INDUSTRIE

60 Jahre Industrie-Pharmazie: Die histori-  
sche Entwicklung im Wandel der Zeit  
Entwicklung in der biopharmazeutischen  
Industrie

– *Uwe E. Jocham*

#### SWISSMEDIC

60 Jahre Industrie-Pharmazie: Die histori-  
sche Entwicklung im Wandel der Zeit  
Swissmedic: Eine Gesundheitsbehörde im  
Wandel der Zeit

– *Jürg H. Schnetzer*

1956 – 2016  
60 Jahre GSIA – SSPI

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# SWISS PHARMA 3a/20

## CONTENTS

IMPRINT 10

PUBLISHING PROGRAM COVER PAGE 3

**SWISS PHARMA 3a/2020**



**POWTECH 2020  
SPECIAL EDITION**

Nuremberg, Germany  
30 September to  
1 October 2020

Life Sciences  
Pharma Manufacturing  
Excellence

EDITORIAL  
APV / TECHNOPHARM / POWTECH 3

The fair POWTECH 2020 *Special Edition* with the APV forum «Pharma.Manufacturing.Excellence» in times of the COVID-19 pandemic  
– Jörg Breitzkreutz, Mainz (D)

POWTECH 2020 SPECIAL EDITION 5

POWTECH launches as special edition in Nuremberg in 2020  
– NürnbergMesse GmbH, Nuremberg (D)

POWTECH 2020 SPECIAL EDITION  
LIFE SCIENCE  
PHARMA MANUFACTURING EXCELLENCE 11

Life Sciences and Pharma Manufacturing Excellence  
Fields to be highlighted at the POWTECH *Special Edition* 2020 in Nuremberg  
– Beate Fischer, Nürnberg (D)

APV / TECHNOPHARM / POWTECH 17

The International Association for Pharmaceutical Technology (APV e.V.) – the independent, international and interdisciplinary scientific organization focusing on pharmaceutical technology and industrial pharmacy  
From past tabletop presentations at APV annual congresses to TechnoPharm and its 2016 integration into POWTECH, with the «Pharma.Manufacturing.Excellence» forum presented by APV  
– Martin Bornhöft, Mainz (D)

## COVER



«POWTECH in Nuremberg can look back on well over twenty editions. When the event made its Nuremberg debut in 1984, pharmaceutical technology was still just one aspect among many (...). But this leading trade fair for process engineering now puts a special focus on pharmaceutical manufacturing and solutions for the pharmaceutical industry, specifically for applications in the life sciences, especially since it successfully integrated TechnoPharm in 2016».

*Quotation from the article published in this issue of SWISS PHARMA 3a/2020 by Beate Fischer, Head of POWTECH.  
(Image: NürnbergMesse)*



# POWTECH 2020 SPECIAL EDITION

Leading Trade Fair for Powder & Bulk Solids  
Processing and Analytics

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der Verfahrens- und  
ChemieingenieurInnen  
(SGVC)



SGVC

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Nachwuchsförderung bei den Verfahrens- und  
ChemieingenieurInnen

Die Schweizerische Gesellschaft der Verfahrens-  
und ChemieingenieurInnen (SGVC) als Bindeglied  
zwischen Lehre, Forschung und Anwendung

– Gespräch mit Dr.-Ing. Andreas Schreiner, Präsident, und  
Dipl. Masch. Ing. ETH  
Daniel Rickenbacher, Vizepräsident und Koordinator  
der Fachgruppen, der SGVC

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# The fair POWTECH 2020 Special Edition with the APV forum «Pharma. Manufacturing.Excellence» in times of the COVID-19 pandemic

Dear Readers of SWISS PHARMA

Presumably, you have become accustomed to Social Distancing during the COVID-19 pandemic. In the meantime it has become normal to wear face masks in public space, to meet friends in restaurants and pubs only in exceptional cases and to adhere to absurd regulations (is somebody standing alone at a bus stop without face mask infectious?). At schools and universities we are teaching by distance learning, which includes new education methods, advanced knowledge in organization of virtual classes and own flexibility in thinking. Probably, some of the recent measures for curbing the pandemic will outlast. In spite of getting used to the situation, not everything about the change of our lives is positive.

One aspect is the current lack of exchange with our colleagues. A video call can never replace a scientific conference or a trade fair in my opinion. How important have been the talks within the coffee breaks in my career within both pharmaceutical industry and academia. And yes indeed, the evening beer in the hotel lobby, too. Therefore, I am delighted as the president of the International Association for Pharmaceutical Technology and Industrial Pharmacy (APV e.V.) that our partner NürnbergMesse has decided to organize the fair POWTECH even with reduced capabilities and under strict regulations as face-to-face events. This international fair is an important contact point, not only for the many Swiss APV members, but also for all guests involved in the pharmaceutical industry. I am looking forward to experiencing new equipment with all my senses, and not just visually, to get a sustainable impression. Additionally, the exhibition is accompanied with interesting scientific talks in the series «Pharma.Manufacturing.Excellence». Certainly, I could follow them in my office because video streams will be offered for the first times with the POWTECH fair. However, this would not be the same.

I fully respect the decision of each individual who stays at home because of concerns about being infected by SARS-CoV-2. I personally belong to the risk population. However, I am not willing to reduce the contacts to my colleagues, to give up or limit the scientific exchange. Therefore, I will travel to Nuremberg with joy and pleasure and look forward to meeting there as many of you as possible. Of course, all legal and organizational safety precautions by NürnbergMesse will be completely followed.

I personally thank you for your continuous support of APV, of SWISS PHARMA and of the POWTECH fair. I am looking forward to meeting you again.

Mainz, 7<sup>th</sup> July 2020

Jörg Breitzkreutz

Professor of Pharmaceutical Technology and Biopharmaceutics  
President of the International Association for Pharmaceutical Technology and Industrial Pharmacy (APV e.V.)  
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# POWTECH launches as *special edition* in Nuremberg in 2020

*In the light of the global impacts of the COVID-19 crisis and following close consultation with exhibitors and visitors, POWTECH has set the stage for the leading event for the powder, bulk solids and mechanical engineering sector. The concept for the «POWTECH Special Edition» that will now take place in Nuremberg from 30 September to 1 October this year provides a compact yet attractive alternative event format adapted to the current circumstances. The organiser NürnbergMesse is resolutely implementing the outcomes of its exhibitor and visitor survey by enabling the industry to access a dialogue and business platform before the end of the year.*



Professional forums on topics including Pharma and Life Sciences are the heart of this year's POWTECH Special Edition. (Photo: NürnbergMesse)

((pd/MN) – «POWTECH visitors and exhibitors wanted to have a platform for dialogue this year, despite or precisely because of all the upheavals,» says Beate Fischer, Director of POWTECH at NürnbergMesse, summing up the results of a survey of all registered exhibitors and visitors from POWTECH 2019. «At the same time it was clear that the basis for conducting POWTECH as a major international trade fair this year was lacking. Our concept for the POWTECH Special Edition takes both these aspects into account. We are creating a compact event with a distinct focus on technical presentations and targeted dialogue. The POWTECH Special Edition will bring the necessary safety and required utility value under one roof.»

**POWTECH Special Edition: specialist forums and exhibition**

The centrepiece of the POWTECH Special Edition will be the expert forums that will take place in two exhibition halls in compliance with all safety regulations. For visitors from the pharmaceutical and food industries, the Life Sciences Forum is the first port of call. In partnership with the APV (International Association for Pharmaceutical Technology), the forum offers high-calibre presentations on process engineering innovations relevant to pharmaceutical and food production. Another forum will address questions and solutions from POWTECH sectors like chemicals, recycling, building and non-metallic minerals, and will also explore overarching trends. The presentations will be recorded for an online audience and international speakers can be live-streamed into the exhibition halls.

The accompanying exhibition gives all exhibitors the chance to present their innovations efficiently and attractively. If you want

to do this we have a standard fixed exhibition stand concept that already takes account of all the necessary and hygiene and safety standards and can be booked "ready to use" at attractive rates. In addition, the POWTECH Special Edition provides sufficient space and meeting points for professional discussions under ideal safety conditions.

**POWTECH Special Edition accompanied by online content**

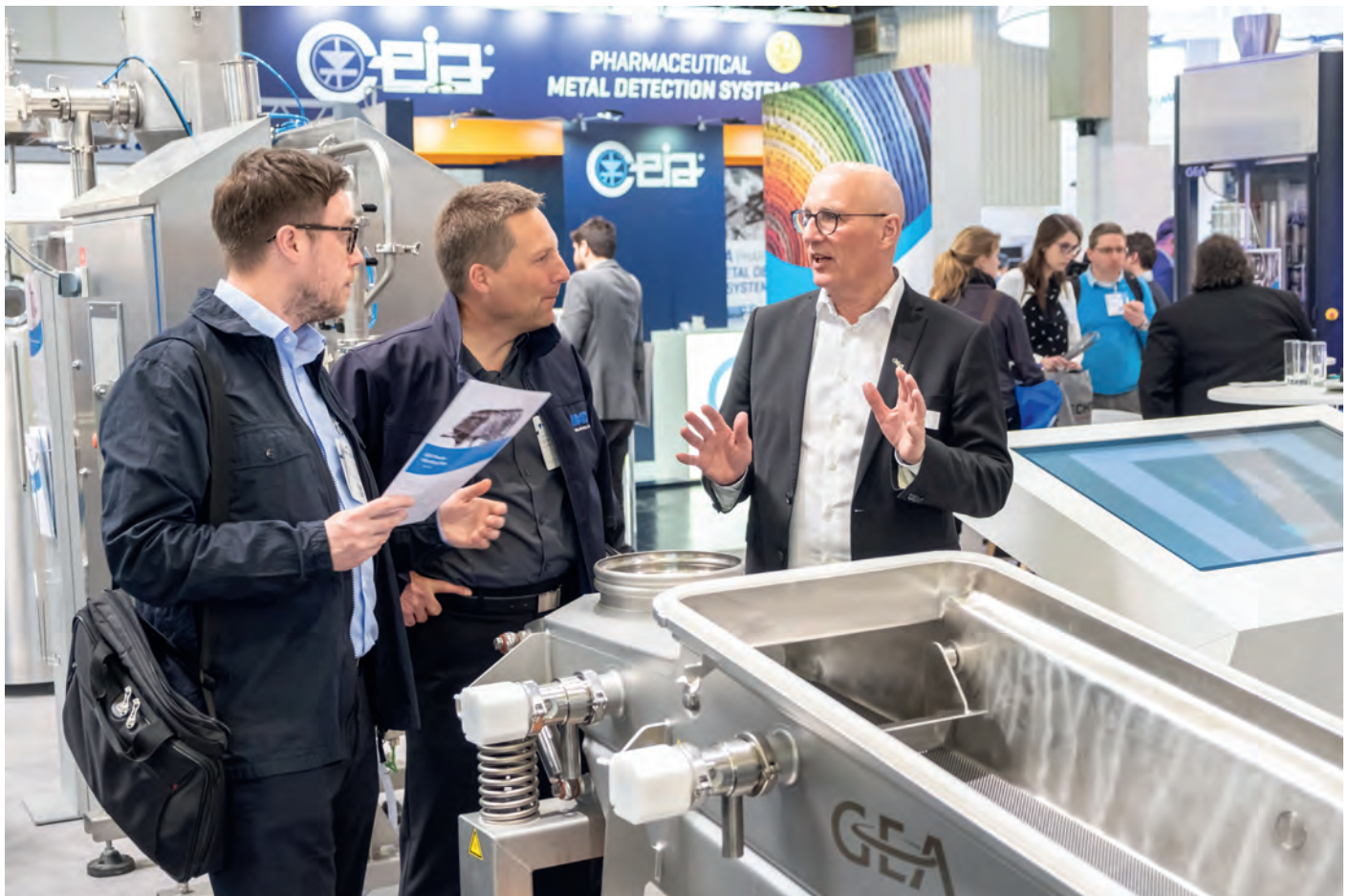
To also build a bridge to its expert international audience in these times of travel restrictions, the POWTECH organisers are increasing the online content of the exhibition alongside their preparations for the event in Nuremberg. The webinar series POWTECH Virtual Talks has already been running since April and some of the supporting programme for POWTECH Special Edition will also be available online. «With the POWTECH Special Edition, our online content on [www.powtech.de](http://www.powtech.de) and last but not least, our international POWTECH World events, we are providing a service as the «No. 1 dialogue platform» for the powder and bulk solids community even in these difficult times, as we continue to bring together knowledge, technology and experts worldwide,» says Beate Fischer.

**Save the date 2022**

The next POWTECH in combination with the particle technology congress PARTEC 2022 will take place as scheduled at Exhibition Centre Nuremberg from 26 to 28 April 2022.



POWTECH is held every one-and-a-half years – a key meeting point for all process engineers and experts in pharmaceutical production. (Photo: NürnbergMesse)



Meeting experts, taking solutions back home – that's what POWTECH is all about. (Photo: NürnbergMesse)

### Process technology worldwide

POWTECH World is a global network of trade fairs and conferences related to mechanical processing technology. The events of POWTECH World form the ideal platform for global knowledge-sharing and new, worldwide business connections.

Other forthcoming POWTECH World Events:

- **IPB China**  
International Powder & Bulk Solids Processing Conference & Exhibition, 29 to 31 July 2020, Shanghai, China
- **POWTECH India**  
India's Leading Technology Expo for Processing, Analysis and Handling of Powder & Bulk Solids, 11 to 12 February 2021, Mumbai, India

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# Life Sciences and Pharma Manufacturing Excellence

## Fields to be highlighted at the POWTECH Special Edition 2020 in Nuremberg

Beate Fischer, Leiterin POWTECH, NürnbergMesse GmbH, Nuremberg (D)

***POWTECH, the leading trade fair for processing, analysis, and handling of powder and bulk solids, is on the agenda at the Nuremberg Exhibition Center from 30 September to 1 October 2020. Exhibitors will be presenting innovations for all aspects of processes like separating, grinding, mixing and agglomerating, along with the accompanying equipment for functions like ventilation, explosion protection, analysis and control. The fields to be especially highlighted are life sciences and pharma manufacturing excellence. The show will be held as a special edition this time, under exceptional conditions.***

POWTECH in Nuremberg can look back on well over twenty editions. When the event made its Nuremberg debut in 1984, pharmaceutical technology was still just one aspect among many – after all, the show has covered the full breadth of powder and bulk solids processing since its very start, and that broad range remains a main feature even today. But this leading trade fair for process engineering now puts a special focus on pharmaceutical manufacturing and solutions for the pharmaceutical industry, specifically for applications in the life sciences, especially since it successfully integrated TechnoPharm in 2016. In a 2019 survey, 27 per cent of the event's visitors – almost one-third of the attendees! – indicated they had a background in either pharmaceutical or food production.

### Life Sciences Forum: The place to be

The range of exhibitors for these two segments has been correspondingly comprehensive. Exhibitors at POWTECH show off high-availability systems and solutions that meet the highest standards for hygiene and safety, specialised software and services, and a great deal more. The most important meeting point for pharmaceutical experts and process engineers in this setting is the Life Sciences Forum. The extensive programme of presentations here will be sponsored by the APV (International Association for Pharmaceutical Technology), headquartered in Mainz. The package of events will be rounded out with a meeting of APV professional groups.

### A look at the future

POWTECH's special Networking Campus area is all ready to handle trending and forward-looking topics that pertain to a broad range of

disciplines. It's a platform where universities and research institutions can make presentations, but the Networking Campus's stage is also available for innovative subjects relating to the markets and technologies of the future. The Special Edition's programme will include topics like Additive Manufacturing, Simulation and Virtual Reality in plant design, recycling and remote services.

### Preparation through dialogue

As the extensive programme of specialised topics and the many experts on site show, POWTECH has long been the trade fair where process engineers and production managers go to find very specific assistance and solutions for their problems. It will be no different in 2020 – an extremely turbulent year when the Covid-19 crisis has raised a great many personal and economic challenges. Our plans place every emphasis on ensuring that the Special Edition of

### Partnership Beyond Business

*During a turbulent time of unpredictable and rapid change, NürnbergMesse offers all its clients and trade show participants the greatest planning reliability and transparency that circumstances will allow. Under our slogan #PartnershipBeyondBusiness, all our communications channels are open for questions and suggestions from exhibitors, visitors and anyone else who has an interest. (Find out how to contact us, along with the latest information about the event's status, at [www.powtech.de/partnerschaft](http://www.powtech.de/partnerschaft)).*



Beate Fischer, POWTECH Exhibition Director at NürnbergMesse.  
(Photo: NürnbergMesse)

POWTECH is designed to be as safe as humanly possible, while at the same time preserving the event's very special attractions and benefits. If the crisis has shown us anything, it's this: the best way to address the current challenges is by working together, in partnership. So this year especially, we're maintaining an extensive dialogue with the industry as we prepare for the fair. We're seeking out the best ways to get the industry's business connections up and running again, and we welcome new ideas and concepts.

That mind-set is what gave rise to the concept of the POWTECH Special Edition. In a compact event that focuses sharply on central professional forums and concentrated networking among experts, while ensuring compliance with all safety requirements, we plan to provide both the necessary safety and the busy exchange of ideas that the industry wants, all in one place. For all experts in powder and bulk solids who cannot attend this year, we have also expanded our range of online services, and for the first time have begun this year's professional dialogue even before POWTECH opens – with our Virtual Talks, a no-charge series of events on topics in process engineering. The first one, on «Digitalisation in mechanical process engineering,»



Clarifying technical details, gathering ideas: POWTECH has been a meeting point for process engineers for more than twenty iterations now, and includes an impressive emphasis on pharmaceuticals. (Photo: NürnbergMesse)



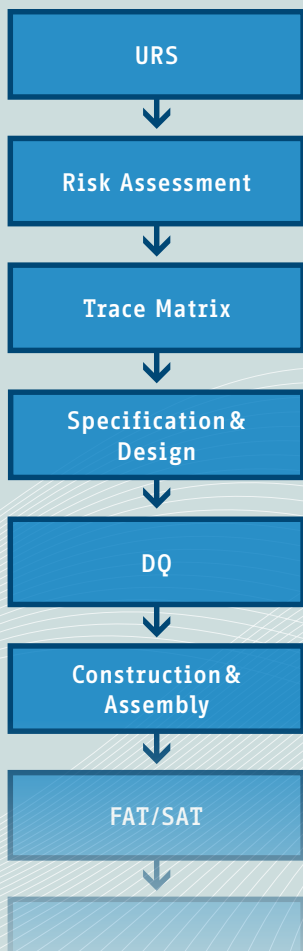
This year, expert talks for POWTECH are also available online for the first time. (Photo: NürnbergMesse)

was held in collaboration with the APV on 27 May of this year. But whether in digital or «analogue» form on site at the event: POWTECH stands for solutions-oriented discussion and networking.

Anyone interested is very welcome to contact us and attend the Virtual Talks. We'll overcome the current obstacles and challenges – together.

#### Contact

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[www.nuernbergmesse.de](http://www.nuernbergmesse.de)



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# The International Association for Pharmaceutical Technology (APV e.V.) – the independent, international and interdisciplinary scientific organization focusing on pharmaceutical technology and industrial pharmacy

From past tabletop presentations at APV annual congresses to TechnoPharm and its 2016 integration into POWTECH, with the «Pharma.Manufacturing.Excellence» forum presented by APV

Dr Martin Bornhöft, International Association for Pharmaceutical Technology (APV e.V.), Mainz (Germany)

*This issue of SWISS PHARMA 3a/2020 is being published in mid-July 2020 as an online edition, some two months before POWTECH 2020 opens its doors in Nuremberg following a turbulent period caused by the COVID-19 pandemic. This article will first provide an overview of the evolution from tabletop presentations at the APV annual congresses into TechnoPharm as founded by APV, and to the event's ultimate integration into POWTECH. The main section of the article will highlight APV's constant innovation and internationalization as a pharmaceutical technology and industrial pharmacy organization, together with its objectives for the future.*

## From tabletop presentations at the APV annual congresses to TechnoPharm and its integration into POWTECH

The APV annual congresses were always accompanied by tabletop exhibitions, which became increasingly popular during the 1990s. This development gave rise to the idea for a pharmaceutical trade fair, which was then realized in collaboration with NürnbergMesse GmbH in 1999, when the first TechnoPharm was held at Nuremberg exhibition centre. APV defined the concept for the fair, while NürnbergMesse GmbH took on the organization.

The concept saw TechnoPharm being held in parallel to the existing POWTECH fair, aligning itself with the latter in terms of rhythm. A series of successful TechnoPharm events was held between 1999 and 2014. It soon became clear that increasing numbers of exhibitors wanted to be present at both fairs simultaneously, however, and spots in the «combined hall» were in high demand. Based on this development and other strategic benefits such as the pooling of marketing activities, the decision was ultimately taken to integrate TechnoPharm

fully into POWTECH as of 2016. The pharmaceutical focus has since been represented at POWTECH using the slogan «Pharma.Manufacturing.Excellence», with scientific support provided by APV.

Since 2016, the Association of German Engineers (VDI e.V.) and APV have been working together when it comes to defining the concept for POWTECH. Throughout this time, from the tabletop presentations at the APV annual congresses to TechnoPharm, we have benefited from the support of a reliable partner and companion – the publication *SWISS PHARMA* – which has enabled us to provide members and customers in Switzerland with extremely well-presented information about the trade fairs and activities of APV [1].

POWTECH continues to be an important networking platform for APV, as highlighted by the wide range of APV activities organized in connection with the fair. This includes the annual APV congresses, which are always held in Nuremberg on the years in which POWTECH takes place. The APV Executive Council and various focus groups also meet regularly in Nuremberg during POWTECH. In collaboration with

NürnbergMesse GmbH, APV members are offered attractive visitor packages that include the popular APV Lounge for networking.

**The APV forum «Pharma.Manufacturing.Excellence» as a hotspot for pharma-oriented visitors to POWTECH**

With a view to offering pharma-oriented visitors to POWTECH a focal point for knowledge transfer, APV organizes the «Pharma.Manufacturing.Excellence» forum, which also serves as a scientific supporting event for the Annual General Meeting. The forum aims to provide visitors with an attractive and up-to-date programme of talks that also gives exhibitors the opportunity to present product innovations on a scientific basis. This year, for the first time, the forum held during the POWTECH *Special Edition* will be supplemented by virtual presentation techniques. Subject areas will include artificial intelligence, digitalization in the laboratory, production and maintenance, the Manufacturing Classification System (MCS) and additive manufacturing / 3D printing. The talks will be held in German or English in order to appeal to an international audience.

**The APV focus groups as joint creators of the APV forum «Pharma.Manufacturing.Excellence»**

APV can fall back on a whole host of ideas from its network when it comes to defining content for the forum, and the APV focus groups play a central role in this regard. Through their scientifically oriented work and exchange of experience in structured discussions, these groups help to guarantee provision of up-to-date information from day-to-day practice and the development of innovative approaches. The focus groups continuously select new subject areas which they then present to members and the general public in the form of training events. In the field of solid dosage forms, topical subjects such as *continuous production* and *additive manufacturing* have been successfully covered. In pharmaceutical biotechnology, the subject of



Pharmacist Dr Martin Bornhöft has worked for APV since February 2003, first as Deputy Managing Director and, since August 2012, as Managing Director. After graduating in Pharmacy from Kiel University, he was a research fellow in Professor Peter Kleinebudde's research group at the Institute of Pharmaceutical Technology and Biopharmaceutics at Martin Luther University of Halle-Wittenberg from 1999 to 2002. His research focussed on the manufacture of pellets using various methods such as extrusion/spheronisation, direct pelleting and layering/coating. (Image: MesseNürnberg)

*advanced therapy medicinal products (ATMPs)* was taken up by the focus group and implemented in focus group work. Thanks to these valuable activities, APV continues to evolve and become increasingly visible at the international level, bringing in new APV members and focus group members, which is in turn beneficial to the establishment of new international cooperations.

**APV – DRIVER OF PHARMACEUTICAL PROGRESS**

APV is the independent, international and interdisciplinary scientific organization focusing on pharmaceutical technology and industrial pharmacy. Our goal is to deepen the understanding in scientific research and practical knowledge in the areas of development, manufacturing, analysis, quality assurance, distribution and use of pharmaceuticals as well as medical devices and to educating all relevant professionals in order to provide effective and save health products for patient care now and in future.

**WE STRIVE...**

...for a future with the best medicines available to patients.

**WE PROMISE...**

...to bring together the scientific and practical aspects to enable manufacture of the best medicines: «Making Science Work».

**WE ARE...**

...the scientific association for Pharmaceutical Technology and Industrial Pharmacy.

**OUR PURPOSE IS TO...**

...expand scientific expertise in development, manufacture, analysis, quality assurance, distribution and usage of pharmaceuticals, to impart this knowledge to professionals and to support young scientists.

**WE OFFER...**

...an independent, non-profit platform for:

- active participation in interdisciplinary working groups
- individual networking with enthusiastic, like-minded colleagues
- workshops, conferences and trainings of highest quality

**BENEFITS OF APV MEMBERSHIP**

As a member of the APV you can experience to drive progress in pharmaceutical sciences and affairs as well as your personal success.

**HOW WE WORK**

Interdisciplinary: networking and knowledge exchange across the disciplines International: a leading international society in the pharmaceutical sciences Independent: non-profit organization

**WHO WE ARE AND WHAT WE STAND FOR**

We are contributing to the future of the pharmaceutical sciences and affairs through our culture of an open and cooperative exchange of knowledge and ideas among energetic and enthusiastic colleagues.

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Focus group solid dosage forms



A view of the lecture hall of the APV forum during POWTECH 2019 (Image: MesseNürnberg)

### APV task forces initiate the examination of topical issues

The creation of APV task forces in recent years has been a further milestone in the development of APV, allowing for topical issues to be examined and discussed over a set period of time, with all APV members given the opportunity to contribute in an uncomplicated approach. A wide range of subjects from all areas of the pharmaceutical industry has been covered, including *continuous manufacturing*, *additive manufacturing*, *individualized medicine*, *permitted daily exposure (PDE) limits*, *nitrosamines* and the *Patient Centric Medicines Initiative (Pace Me In)*, which was launched in cooperation with the *Geriatric Medicines Society (GMS e.V.)*. There is a great deal of exchange between the focus groups and the task forces, and an encouraging number of APV members have become involved in the focus groups.

### Strong collaboration with international and national societies and organizations

Exchange and collaboration with international societies has become increasingly well-established, with many APV members also active in these bodies. Examples include successful long-term projects with the *European Paediatric Formulation Initiative (EuPFI; www.eupfi.org)* and the *skinforum – international skin science network (www.skin-forum.eu)*. One main activity is to organize the *PBP World Meeting on Pharmaceuticals, Biopharmaceuticals and Pharmaceutical Technology (PBP World Meeting;*

*www.worldmeeting.org)* [2] and the *European Conferences on Pharmaceutics (ECP)* with our partner organizations from France, the *Association de Pharmacie Galénique Industrielle (APGI)*, and Italy, the *Associazione Docenti e Ricercatori Italiani di Tecnologie e Legislazione Farmaceutiche (ADRITELF)*, with which APV has enjoyed a successful long-term cooperation that will continue to be reinforced in the future. More recently, a cooperation with the *British Academy of Pharmaceutical Sciences (APS GB)* was launched as a result of the work of APV members in the *Manufacturing Classification System (MCS)* focus group. This was followed by collaboration between APV's solid dosage forms focus group and its British counterpart, which ultimately evolved into an official cooperation. Another current example is a virtual conference on the subject of 3D printing to be held between 13 and 16 July 2020 in collaboration with the *United States Pharmacopeia (USP)*.

### Current and future tasks and objectives

The current Covid-19 situation has placed a spotlight on the challenge of the security of supply of medicinal products. As a result of the globalization of recent decades, critical dependencies on small numbers of manufacturers or production locations have arisen. Disruptions of all kinds can lead to perilous supply shortages or even complete breakdowns in supply that pose a threat to patient wellbeing. APV has also addressed this issue, and is one of the founding members of the *EU platform European Science for Health (EurSci4Health)*, whose goal is to incorporate important issues in the European Research Framework



Programme (*Horizon Europe*). Focal points include the strengthening of Europe as a location in terms of active pharmaceutical ingredient (API), excipient and medicinal product manufacturing, as well as research and development and the intensification of research in the area of new antibiotics and antivirals.

Another new field of activity for APV is the provision of scientific support in government measures aimed at the promotion of science, such as the development programme *Material Innovation for Healthy Living (ProMatLeben – Polymere)* within the framework programme *From Material to Innovation* by the German Federal Ministry of Education and Research (BMBF), where APV serves as main coordinator of a consortium in cooperation with the partner *DECHEMA*. This activity gives rise to new contacts and areas of work in the field of health technology, enabling APV to actively contribute its expertise in the pharmaceutical industry.

*APV strives to achieve constant innovation and internationalization, tackling the challenges posed by current global political developments. Interested persons are warmly invited to become an APV member to contribute their knowledge and experience and play a role in shaping pharmaceutical progress.*

**Notes**

[1] See for example:  
 Arzneimittelqualität: Nutzen – Risiko – Kosten. Gespräch mit PD Dr. Hans W. Schmid, Del. VR der Cilag AG, Schaffhausen, und Leiter der

Cilag Firmengruppe in Europa; Vorstandsmitglied der APV, in: *SWISS PHARMA* 4 (1982) Nr. 3, 6- 13.

APV, Mainz: 2300 Mitglieder aus den Bereichen Pharmaindustrie, Offizinapotheken und Hochschulen – *TechnoPharm 99* als Premiere vom 5. bis 7. Oktober 1999 in Nürnberg. Gespräch mit Dr. rer. nat. Günter Hanke, Präsident der APV, in: *SWISS PHARMA* 21 (1999) Nr. 4, 5-13.

Stieneker, Frank, Dr. phil. Nat., APV, Reine Räume: Effiziente und behördenkonforme Implementierung von Reinheitszonen in den unterschiedlichen Bereichen der pharmazeutischen Industrie. Berichte zum Kurs-Nr. 503 der APV, Fachgruppe Qualitätssicherung, vom 27./28. März 2001 zur *TechnoPharm* in Nürnberg, in: *SWISS PHARMA* 23 (2001) Nr. 5a, 5.

Die APV im Vorfeld der 50-Jahr-Feier 2004 in Nürnberg. Dr. Günther Hanke übergab das Präsidium an Professor Dr. Peter Kleinebudde. Gespräch mit Prof. Dr. Peter Kleinebudde, Düsseldorf, Dr. Charles Crevoisier, Reinach BL, und Dr. Frank Stieneker, Mainz, in: *SWISS PHARMA* 25 (2003) Nr. 5a, 5-13.

Benchmark-Studie Operative Exzellenz in der pharmazeutischen Industrie. Pharmaindustrie noch weitgehend unberührt von den Prinzipien der Lean Production, Operative Prozesse in Beschaffung, Produktion und Logistik werden von zentraler strategischer Bedeutung – Benchmarking ist angesagt! Gespräch mit Vertretern der APV Fachgruppe Prozessoptimierung: Dr. J. Werani [3] (Pfizer GmbH Deutschland), P. Thaler (Leiter APV Fachgruppe Prozessoptimierung; IFAP), und Dr. F. Stieneker (APV) sowie dem Direktor des Instituts für



The reception desk of the APV forum at POWTECH 2019. A sight from better days when Heide Zweyer and Martin Bornhöft were able to share a joke. (Image: MesseNürnberg)



Group photo of the APV Executive Council: the members of the APV Executive Council, term of office 2018 to 2022. From left to right: Dr. Karoline Bechtold-Peters (Basel), Dr. Martin Lück (Aachen), Professor Dr. Jörg Breitreutz (Düsseldorf), Dr. Herbert Häusler (Berlin), Professor Dr. Sandra Klein (Greifswald), Dr. Kathrin Bartscher (Waltrop), Dr. Hans Lindner (Berlin), Professor Johannes Bartholomäus (Aachen). (Image: APV)

Technologiemanagement der Universität St.Gallen, Prof. Dr. F. Fahrni, in: SWISS PHARMA 25 (2003) Nr. 12a, 5-11.

*The publisher can provide the publications listed in PDF format upon request.*

[2]  
12th World Meeting on Pharmaceutics, Biopharmaceutics and Pharmaceutical Technology, Vienna, Austria, 8-11 February, 2021 ([www.worldmeeting.org](http://www.worldmeeting.org)).

[3]  
Dr Jürgen Werani died unexpectedly in January 2015 at the age of just 63. See APV Plus (Mainz), issue 01/2015, p. 7.

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### SWISS PHARMA

Swiss Journal of the Pharmaceutical Industry  
Schweizerische Zeitschrift für die pharmazeutische Industrie  
Revue suisse pour l'industrie pharmaceutique  
Rivista svizzera per l'industria farmaceutica

### SWISS BIOTECH

Swiss Journal of Biotechnology  
Schweizerische Zeitschrift für Biotechnologie  
Revue suisse de biotechnologie  
Rivista svizzera di biotecnologia

### SWISS MED

Swiss Journal of Medicine and Medical Technology  
Schweizerische Zeitschrift für Medizin und medizinische Technik  
Revue suisse de médecine et de technique médicale  
Rivista svizzera di medicina e tecnica medica

### SWISS DENT

Swiss Journal of Oral Preventive and Curative Medicine  
Schweizerische Zeitschrift für orale Präventiv- und Kurativmedizin  
Revue suisse d'Odontostomatologie préventive et thérapeutique  
Rivista svizzera di Odontologia e Stomatologia preventiva e terapeutica

### SWISS VET

Swiss Journal of Veterinary Medicine  
Schweizerische Zeitschrift für Veterinärmedizin  
Revue suisse de médecine vétérinaire  
Rivista svizzera di medicina veterinaria

### SWISS FOOD

Swiss Journal of the Foodstuffs Industry  
Schweizerische Zeitschrift für die Nahrungsmittelindustrie  
Revue suisse pour l'industrie alimentaire  
Rivista svizzera per l'industria alimentare

### SWISS CHEM

Swiss Journal of the Chemical Industry  
Schweizerische Zeitschrift für die chemische Industrie  
Revue suisse pour l'industrie chimique  
Rivista svizzera per l'industria chimica

### SWISS MATERIALS

Swiss Journal of Materials Science and Technology  
Schweizerische Zeitschrift für Materialwissenschaft und Technologie  
Revue suisse pour la science et la technologie des matériaux  
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