

# International Workshop on Industrial Crystallization

February 21-22, 2020

@ **K. V. Auditorium**

**Institute of Chemical Technology**  
(Formerly UDCT)

Matunga East, Mumbai 400 019,  
Maharashtra, INDIA.

**Organized By**



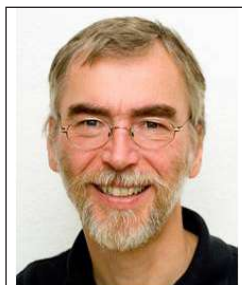
World Forum for Crystallization,  
Filtration and Drying  
[www.wfcfd.org](http://www.wfcfd.org)



Department of Chemical Engineering,  
Institute of Chemical Technology  
[www.ictmumbai.edu.in](http://www.ictmumbai.edu.in)

# WFCFD

## INTRODUCTION TO THE SPEAKERS



### Prof. Dr.-Ing. Joachim Ulrich

Professor Joachim Ulrich, Chair of Thermal Unit Operations in Chemical Engineering has been the Editor for the Journal of Crystal Growth & Design, Chairman and Member of European Federation of Chemical Engineering and Working Party on Crystallization. He is a Visiting Professor at the University of Rouen/France and a member of Editorial Advisory Board of the Chem. Engg. & Tech. He was also the Chairman of “Fachausschuss Kristallisation” (Working Party on Crystallization of the VDI-GVC/ProcessNet). He was Pro-Vice-Chancellor for research for Martin Luther University and the Chairman of the board of the Luckner Foundation, Halle. Awarded with Honorary doctor (Dr. H. C.) of the University of Szeged, Hungary. There are so far 93 PhD theses supervised and more than 600 papers, books, book contributions, refereed congress contributions and patents published.

### Dr. Erik Temmel

Dr. Erik Temmel is presently working at Sulzer Chemtech Ltd., Winterthur, Switzerland as a Project Manager with Industrial Crystallization group. He has worked as Research project manager in the field of crystallization process development at DSM Nutritional Products AG, Sisseln, Switzerland. He has experience in the field of innovative measurement techniques at the Max Planck Institute for Dynamics of Complex Technical Systems, group of Physical and Chemical Foundations, Max Planck Institute for Dynamics of Complex Technical Systems As a Scientific coworker within the group of Physical and Chemical Foundations (Head: Prof. Andreas Seidel-Morgenstern), he has a major contribution. He has worked at Otto von Guericke University Magdeburg, Chair of Chemical Process Engineering under the tutelage of a renowned Professor Andreas Seidel-Morgenstern.

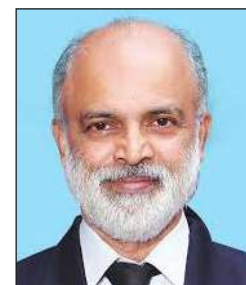


### Dr. Severine Dette

Dr. Severine Dette, a dynamic chemical engineer with specialization in industrial crystallization, has been involved in the development of process solutions, establishing the lab scale and pilot scale tests and elucidation of crystallization process on industrial scale. She has been a regular participant in various crystallization meetings all over the globe, besides being a Member of Technical Conference Crystallization based in Germany. Dr. Dette is specialized in melt crystallization & suspension crystallization of organic compounds and freeze concentration of liquid foods and waste water.

### Prof. Dr. A. B. Pandit

Prof. Dr. A. B. Pandit is Professor of Chemical Engineering and Vice Chancellor of Institute of Chemical Technology, Mumbai, India. He was educated at Banaras Hindu University (B.Tech.) and University Department of Chemical Technology, University of Mumbai (Ph.D.). His research interests include Multiphase Reactor Design, Cavitation Phenomena, Pollution control, Bubble Dynamics, Acoustic Signal processing, Mixing and Hydrodynamics and Cavitation Transformations. Prof. Pandit is a sought-after consultant in the chemical industry. Prof. Pandit has authored over 350 publications, over 15 patents and is on Editorial board of several International Scientific Journals. He is a recipient of Vishwakarma Medal of Indian National Science Academy 2015, Fellow of The World Academy of Sciences 2015, Fellow of Indian National Academy of Engineering and Indian Academy of Sciences, a Distinguished Alumnus awardee of ICT and IIT, Benaras.





### **Dr. Carmen Guguta**

The process of crystallization involving the basics of nucleation and crystal growth, solubility and super-solubility curve determination are key to the success of various products, be it is, pharmaceuticals, food, personal care ingredients, dye molecules, or agrochemicals. Dr. Carmen has 15 years of experience in pharmaceutical development cycle, from discovery to formulation, covering small molecules, drug substance and drug product. With deep experience in solid state chemistry, she has previously worked with Avantium and Crystallics, contract research organizations. She holds a Ph.D. degree in Pharmaceutical Solid State chemistry from Radboud University Nijmegen, The Netherlands. Currently, Dr. Carmen Guguta is the product manager of Technobis Crystallization Systems.

### **Dr. Satyanarayana Thirunahari**

Dr. Satyanarayana Thirunahari is currently working as a Process Engineering Expert in API R&D at Dr. Reddy's Laboratories Ltd. He holds a PhD in chemical engineering from National University of Singapore. Prior to Dr. Reddy's, he worked as a Scientist at A\*Star Singapore. His research interests include application of PAT and QbD in pharmaceutical development, crystallization, process system engineering etc.



### **Dr. Srividya Ramakrishnan**

Dr. Srividya Ramakrishnan heads Process Engineering (API) at Dr. Reddy's Laboratories Ltd. in Hyderabad. Prior to joining Dr. Reddy's, she was at Bristol-Myers Squibb, New Jersey, in Process R&D. She earned her B.Tech. in Chemical Engineering from Indian Institute of Technology, Madras, and Ph.D. from Princeton University. Dr. Srividya has presented her research at international conferences and has several patents and publications to her credit. She is also an ASQ-Certified Six Sigma Black Belt.

### **Prof. Dr. B. N. Thorat**

Professor Bhaskar N. Thorat, is the Founder Director of ICT-IOC, Bhubaneswar with an Entrepreneurial mindset. He and his research students have several start-ups to their credit and have a mission to produce over 100 Entrepreneurs in coming years. Prof. Thorat has in his kitty several international awards including three Bill and Melinda Gates Foundation's top prize of USD 3,00,000; Michael Dell's Social Innovation Award of USD 60,000, 2 Millennium Alliance Award of 2 million USD. He credits all these awards to the innovative students of ICT. The notable entrepreneurial students of Prof. Thorat who are contributing immensely are Dr. Vaibhav Tidke, Dr. Tushar Gaware, Shri. Ganesh Bhere, Dr. Nupur Nagwekar, Shri. Swapnil Kokate, Dr. Dilip Jadhav and several others. He believes that there is much more in store for socio- and techno-entrepreneurship and plenty of space is available to be occupied.



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## Name of the Speaker & Affiliation

## Proposed topic of Presentation

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### Prof. Dr.-Ing. Joachim Ulrich

Martin Luther University Halle-Wittenberg,  
Germany

- Thermodynamics/Phase diagrams for crystallization
- Kinetics of crystallization
- Protein Crystallization
- Polymorphs and solvates
- Measurements of crystallization and Population Balances

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### Professor A. B. Pandit

Vice chancellor, Institute of Chemical Technology,  
Mumbai, India

- Role of Mixing in Crystallization and Scale up Studies

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### Ms. Dr.-Ing. Severine Dette

Sulzer Chemtech Ltd, Winterthur, Switzerland

- Crystallization of Bulk Organics Compounds: equipment and application examples
- Solid layer melt crystallization, industrial perspective

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### Mr. Dr.-Ing. Erik Temmel

Sulzer Chemtech Ltd, Winterthur, Switzerland

- Continuous solution crystallization
- Industrial Crystallization from Lab to Industrial Scale : Case Studies

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### Dr. Vivek Vitankar

FluiDimensions, Pune, India

- CFD Studies of particle suspension

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### Dr. Carmen Guguta

Technobis,  
The Netherlands

- Effective way of determination of solubility and super-solubility
- Recent Advances in Co-crystallization

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### Dr. Satyanarayana Thirunahari

Dr. Reddy's Laboratory, India

- PAT-based process understanding and control strategy for API development

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### Dr. Srividya Ramakrishnan

Dr. Reddy's Laboratory, India

- Crystallization as an integral part of API development
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# Memories



Prof. M. M. Sharma and Prof. A. B. Pandit  
at 13th WFCFD, 2019



Prof. Joachim Ulrich with Prof. B. N. Thorat  
at 13th WFCFD, 2019



Prof. Harald Anlauf presenting at 13th WFCFD, 2019



Mr. Urban Stricker interacting with participants  
at 13th WFCFD, 2019



Dr. Carmen Guguta interacting with participants  
at 13th WFCFD, 2019



Dr. Thomas Vetter interacting with participants  
at 13th WFCFD, 2019



Participants asking queries to the Speakers  
at 12th WFCFD, 2018



Speakers and Organizing Team at 13th WFCFD, 2019



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Prof.  Dr.  Mr.  Ms.

## REGISTRATION FORM

**Name**

**Position**

**Organization/Institute**

**Mailing Address**

**Telephone/ Mobile**

**Email**

### Registration Fees:

**Indian Delegates: INR 18,000/-**

**Overseas Delegates: US \$ 350/-**

**Please find a DD/ Cheque in Favor of "WFCFD" payable at Mumbai**

**DD/Cheque No.**  **Date**

**Drawee Bank**

**Last Date for Registration 15th February 2020  
for online registration, visit: [www.wfcfd.org](http://www.wfcfd.org)**

Please Complete above form and Return to,

**Professor B. N. Thorat**

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