

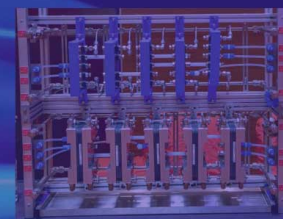
Flow Chemistry Masterclass

2 Day Physical Training & Workshop

Flow Reactor Technology in Lab & Industrial Scale Synthesis

1. January 20-21, 2023, Hyderabad

2. January 23-24, 2023, Ahmedabad



Flow Technology Masterclass by Prof Thomas Wirth

20 Jan 2023 - 21 Jan 2023

CONFERENCE PROGRAMME

Friday, 20th January 2023

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| 09:10 | Enabling Technologies – An overview, Batch and Flow reactions Thomas Wirth , Professor of Organic Chemistry, Cardiff University, United Kingdom Basics of Batch and Flow Reactions, Properties and Mass and Heat Transfer |
| 10:40 | Coffee Break |
| 11:00 | Mixing aspects in Flow Reactors Thomas Wirth , Professor of Organic Chemistry, Cardiff University, United Kingdom Mixing in Flow Reactors |
| 12:00 | Safe synthesis in Flow Reactors, Hazardous Compounds, and Reactive Intermediates Thomas Wirth , Professor of Organic Chemistry, Cardiff University, United Kingdom |
| 13:00 | Lunch Break |
| 13:40 | Advanced Flow Chemistry - Photochemistry, Electrochemistry, Mechanochemistry Thomas Wirth , Professor of Organic Chemistry, Cardiff University, United Kingdom |
| 15:10 | Coffee Break |
| 15:30 | Flow Reactors Live Setup, Accessories & their Explanation Chandrakant K Sethia , Head - Business development & Applications Engineering - India, Middle East and Africa, Corning Advanced-Flow Reactor (AFR) Technologies, India Demo on Corning G1 Hybrid reactor Corning will be displaying Corning Advanced-Flow™ G1 Hybrid reactor(5 Glass + 5 SiC) The Demo will include a system setup with the required pumps and auxiliaries Liquid-liquid flow. Physical Difference between the flow pattern in a tubular reactor and a Corning AFR Handling of different liquids |
| 17:00 | End of First Day of the Training Course |

Saturday, 21st January 2023

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| 09:10 | <p>Optimization techniques (Design of Experiment, DoE), Modern Analysis and Integration in Automated Synthesis Thomas Wirth , Professor of Organic Chemistry , Cardiff University , United Kingdom</p> <p>Optimization techniques (Design of Experiment, DoE), Modern Analysis and Integration in Automated Synthesis</p> |
| 10:40 | <p>Coffee Break</p> |
| 11:00 | <p>Application of Enabling technologies: Synthesis of APIs™ s (Advanced Pharmaceutical Intermediates) Thomas Wirth , Professor of Organic Chemistry , Cardiff University , United Kingdom</p> <p>Flow reactors in Continuous Pharmaceutical Manufacturing</p> |
| 12:30 | <p>Lunch Break</p> |
| 13:10 | <p>Industrial Applications of Enabling Technologies Thomas Wirth , Professor of Organic Chemistry , Cardiff University , United Kingdom</p> <p>Upscaling, Production on scale</p> |
| 14:40 | <p>Scaling-up in Flow</p> |
| 15:40 | <p>Coffee Break</p> |
| 16:00 | <p>Live Demonstration of Flow Reactors Shekhar M Gaikwad , Lead Application Engineer , Corning Advanced Flow Reactor Technology , India</p> <p>Corning will be displaying Corning LAB Photo during the demo The Demo will include a system setup with the required pumps and auxiliaries Explaining the importance of a fully integrated system Liquid-liquid flow Display of different wavelengths of light in LAB photo reactor (365 nm, 385 nm, 405 nm, 470 nm, 610 nm, 4000K)</p> |
| 17:00 | <p>Closing Remarks and End of the meeting</p> |