4th International Workshop on Crystallization, Filtration and Drying

Venue

K. Venkataraman Auditorium
Institute of Chemical Technology,
Matunga (E), Mumbai

Dates: 25-27 February, 2010

Organised by

WFCFD

World Forum for Crystallization, Filtration and Drying

&

Department of Chemical Engineering,
Institute of Chemical Technology (Formerly UDCT),
Matunga (E), Mumbai - 400 019

WFCFD

PROGRAMME

Timings: 9.00 a.m. to 6.00 p.m.

Industrial Crystallization: Speakers and Topics

Sr. No.	Name of Speakers	Topics
1	Michael Doherty, USA	Fundamentals of Crystal Nucleation and Growth: Equilibrium Considerations
2	Michael Doherty, USA	Good Operating Policies for Seeded Batch Crystallization
3	Michael Doherty, USA	Crystal Shape: Influence of Solvent and Impurities / Additives
4	A. B. Pandit, India	Fluid / Slurry Mixing Opportunities for Energy Saving
5	Uttam Joshi, India	Ensure Successful Crystallization with the help of Lasetec Technologies
6	Sandeep Kale, India	Hybrid Integrated Stratergy: Chromatography Coupled C Crystallization for Pharmaceuticals and Biopharmaceuticals

Industrial Filtration: Speakers and Topics

Sr. No.	Name of Speakers	Topics
7	Antti Hakkinen, Finland	The relationship between crystallization & Filtration: theoretical considerations & experimental examples
8	Antti Hakkinen, Finland	Fundamentals of cake Filtration & Related post-treatment operations (cake compression, air-dewatering, washing)
9	Antti Hakkinen, Finland	Experimental Filtration studies in laboratory & pilot scale, methods, equipment & case studies
10	Magan Khakharia, India	Re-engineering of Filtration System

Industrial Drying: Speakers and Topics

Sr. No.	Name of Speakers	Topics
11	A. S. Mujumdar, Singapore	Classification and Selection of Industrial Dryers
12	A. S. Mujumdar, Singapore	Recent Advances and Technologies in Food & Pharmaceutical Industries
13	Farah Salaria, Canada	Improved Drying Efficiency & Operation Flexibility for bulk solids using Plate Heat Exchanger
14	B. N. Thorat, India	Rotary Drying v/s Fluid Bed Drying of Particulates
15	B. N. Thorat, India	Issues of Filtration and Drying in Manufacturing of Specially Products

Milling, Size Reduction and Agglomeration

Sr. No.	Name of Speakers	Topics
16	Michael Kuhnen, Germany	Milling and Micronising in Pharmaceutical Industry
17	Michael Kuhnen, Germany	Versatility of Powder Technology & Particle Engineering - Case Studies
18	Srividya Ramakrishnan,India	Tailoring Powder Properties Through Particle Engineering
19	C.S. Shetty, India	Concept Based Equipment Selection in Powder Processing

About Principal Speakers

Professor Mike Doherty:

Professor Mike Doherty is a world renowned expert in the separation processes, in particular, the crystallization of Organic Materials. The main focus of his research is the study of the effect of process design and operation on crystal quality for organic-solids processes. Professor Doherty and his research group have developed certain techniques to account for solution effects, crystal shape, as well as enantiomorph and polymorph selection in the conceptual design of solids processes. Consultant to Dow Chemicals, Aventis and many others. Author of " Reactive distillation".

Professor Arun Mujumdar:

Professor Arun Mujumdar, "Drying Guru", is an internationally known personality in the area of heat and mass transfer and in particular drying technology. Winner of over a dozen major international awards for outstanding contributions to chemical engineering, heat and mass transfer, novel drying technology developments. Conferences, author of 2 books, Editor-in-Chief of Drying Technology (1988 onwards); Editor of Handbook of Industrial Drying (CRC Press) Edited 60+ volumes of books in heat and mass transfer, drying of solids, paper technology.

Professor Antti Hakkinen:

Professor Antti Hakkinen is a professor of solid / liquid Separation Technology in Lappeenranta University of Technology, Finland. He has worked on various issues regarding solid/liquid separation processes and characteristics of filter materials for over ten years. His research includes batch cooling crystallization, design of experiments and empirical modeling. More than 50 publications in international journals and conferences, Chairman of the Nordic Filtration Society, 2009 - 2010

Professor A. B. Pandit:

Professor A. B. Pandit, UGC, Research Scientist 'C', Professor with Institute of Chemical Technology (ICT), Mumbai. He is Fellow of Maharashtra Academy of Science; Indian National Academy of Engineering; Indian Academy of Sciences; Indian National Science Academy; National Academy of Sciences in India, Allahabad. His research interests are Cavitations, Sonochemistry, Design of multiphase reactors (Mechanically Agitated contactors, Bubble columns), Wastewater treatment. Consulted more than 20 industries and he has authored more than 210 research publications.

Dr. Srividya Ramakrishnan:

Dr. Srividya Ramakrishnan, Senior Manager, heading the Centre of Excellence in Polymorphism and Particle Engineering at Dr. Reddy's Laboratories, Hyderabad, India. She has completed her PhD in Chemical Engineering from Princeton University, USA. She has previously worked as Research Scientist at Bristol-Myers Squibb Company, New Brunswick, NJ and Unilever Research, Edgewater, NJ. Her research areas are polymorph screening, development and scale-up of crystallization processes, investigation and powder property scouting.

Ms. Farah Salaria:

Ms. Farah Salaria, Chemical Engineer by profession is a Vice President, M/s. Solex Thermal Science, Canada. Farah has worked extensively in the area of plate heat exchangers and centrifugal separation with emphasis on oil and gas, water and waste treatment as well as the chemical and the fertilizer industries. A member of The Association of Professional Engineers, Geologists, and Geophysicists of Alberta (APEGGA) and is on the Industrial Water Quality Committee for the Water Environment Federation (WEF).

Mr. Michael Kuhnen:

Mr. Michael Kuhnen has completed his education in Economic Engineering from University of Applied Science, Kempten. He works with Pharma & Food Division, Hosokawa Alpine AG, Augsburg, Germany. He is responsible for market research, support and training of sales agencies, technical and commercial sales & marketing, technical customer consultancy, custom process design, order processing. He has worked on development of new lab-scale spiral jet mills, improvement of existing spiral jet mill solutions etc.

Professor B. N. Thorat:

Professor B. N. Thorat is working as Professor of Chemical Engineering at Institute of Chemical Technology (ICT), Mumbai. He is the Founder President, World Forum for Crystallization, Filtration and Drying (WFCFD); Chairman, 16th International Drying Symposium, India. His major areas of research are process development, troubleshooting and selection of industrial dryers, particle technology for products of different origin (bulk and specialty chemicals, biomolecules, food products, pharmaceutical etc.). Consulted more than 25 industries and he has authored more than 50 research publications in international journals.

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Registration Form

Prof. ☐ Dr. ☐ Mr. ☐ Ms. ☐

Name			
Position			
Organization/Institute			
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Telephone		Fax	
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Webpage			

Registration Fees

INR 8,500/- for Indian Delegates

USD 325/- for Overseas Delegates

Please find a DD / Cheque* made payable to "WFCFD" at Mumbai branch.

DD/Cheque No		Amount Enclosed	
Drawee Bank			
Date		Signature	

Last date for Registration: 15th February, 2010

Please complete and return to:
Professor B.N. Thorat
Department of Chemical Engineering
Institute of Chemical Technology (formerly UDCT),
Matunga (E), Mumbai - 400 019, India
Tel.: 91-22-2414 5616 Ext. 2022, 2415 5630, Fax: 91-22-2414 5614,
E-mail:wfcfd@wfcfd.com, thoratbn@gmail.com
Website: http://www.wfcfd.com