

Crystal Engineering: From Molecule to Crystal

CEFMC-2020, 19-20 June, 2020. A Virtual Conference on Zoom
Conference Schedule

Day-1		19 th June 2020
9:00 IST		Joining the Webinar on Zoom
9:30-9:35		Welcome address by Conveners
9:35-9:55		Gautam R. Desiraju <i>Indian Institute of Science, India.</i> Opening Remarks
Session-1		
9:55-10:00		Jagadese J. Vittal <i>National University of Singapore, Singapore.</i> Session Chair
10:00-10:35 (Invited)		Ashwini Nangia <i>CSIR-National Chemical Laboratory, India.</i> Crystal Engineering of Solid-state Pharmaceuticals
10:35-10:50		Sharmarke Mohamed <i>Khalifa University of Science and Technology, UAE.</i> Beyond Binary Cocrystals: the Case for Eutectic Composites of Organic Molecules and Emerging Ideas for their Crystal Engineering
10:50-11:05		Aijaz Dar <i>University of Kashmir, India.</i> Sulfonate-Pyridinium Supramolecular Synthons: A Novice Robust Secondary Interaction
Break (15 mins)		
Session-2		
11:20-11:25		Praveen Thallapally <i>Pacific Northwest National Laboratory, USA.</i> Session Chair
11:25-12:00 (Invited)		Rahul Banerjee <i>IISER Kolkata, India.</i> Porous Framework Materials: Spheres, Films and Membranes
12:00-12:15		David Turner <i>Monash University, Australia.</i> Engineering Entanglement in Chiral Coordination Polymers
12:15-12:30		Prangya Sahoo <i>Centre for Advanced Materials Application, Slovak Academy of Sciences, Slovakia.</i> Powder X-ray Diffraction in Materials Science

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Lunch (1hr 30 mins)		
14:00-14:40		Poster Flash Presentations-1
Break (15 mins)		
Session-3		
14:55-15:00		Susan Bourne <i>University of Cape Town, South Africa.</i> Session Chair
15:00-15:35 (Invited)		Michaele Hardie <i>University of Leeds, UK.</i> Pitfalls and Successes in Hierarchical Coordination Polymers with Host Ligands
15:35-15:50		Pradip Pachefulle <i>TU Berlin, Germany.</i> Functionalized Covalent Organic Frameworks (COFs) for Photocatalytic Hydrogen Generation
15:50-16:05		Avijit Kumar Paul <i>NIT Kurukshetra, India.</i> Design of New Organic Ligands with Mixed N-/O-Donors for the Construction of Multifunctional Coordination-Polymers
Break (15 mins)		
Session-4		
16:20-16:25		T. N. Guru Row <i>Indian Institute of Science, India.</i> Session Chair
16:25-17:00 (Invited)		Pierangelo Metrangolo <i>Politecnico do Milano, Italy.</i> Engineering Crystals of Amyloidogenic Peptides
17:00-17:15		Ranjan Patra <i>Amity University, India.</i> Wheel and Axle Topology Driven Halogen Bonds for the Construction of Molecular Arrays in Hexa-coordinated Sn(IV)Porphyrins: A Structural and Theoretical Investigation
17:15-17:30		Sajesh Thomas <i>Aarhus University, Denmark.</i> Applications of Hirshfeld Surfaces: From Crystal Engineering to Drug
17:30-17:45		Ines C. B. Martins <i>Federal Institute for Materials Research and Testing, Berlin, Germany.</i> Solving the Jigsaw Puzzle Towards the Structural Characterization of Pharmaceutical Multicomponent Solid Forms

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End of Day One

Day-2		20 th June 2020
9:30		Joining the Webinar
Session-5		
9:55-10:00		Pance Naumov <i>New York University Abu Dhabi, UAE.</i> Session Chair
10:00-10:35 (Invited)		Jack Clegg <i>The University of Queensland, Australia.</i> Understanding Elastic Flexibility in [Cu(acac) ₂]
10:35-10:50		M. K. Mishra <i>University of Minnesota, USA.</i> Distinct Mechanical Bending Behaviors of Polymorphs
10:50-11:05		Ranita Samanta <i>IISER Kolkata, India.</i> Monomer-Polymer Heterostructures Patterning and Mechanical Actuation via Topochemical Polymerization
Break (15 mins)		
Session-6		
11:20-11:25		Franziska Emmerling <i>Bundesanstalt für Materialforschung und –prüfung, Germany.</i> Session Chair
11:25-12:00 (Invited)		Mahesh Hariharan <i>IISER Thiruvananthapuram, India.</i> Crystal Engineering π -Ways to Regulate the Flow of Excitons
12:00-12:15		Luca Catalano <i>University of Liverpool, UK.</i> Smart Crystalline Optical Waveguides for Next-generation Optoelectronics
12:15-12:30		Arthi Ravi <i>IISER Thiruvananthapuram, India.</i> Tunable Mechanical Response from a Crystal Undergoing Topochemical Dimerization
Lunch (1 hr 30 mins)		

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14:00-14:40	Poster Flash Presentations-2	
Break (15 min)		
Session-7		
14:55-15:00		Aurora Cruz-Cabeza <i>The University of Manchester, UK.</i> Session Chair
15:00-15:35 (Invited)		Sammer Yousuf <i>University of Karachi, Pakistan.</i> Biological Activities Tuning of Active Pharmaceutical Ingredients via Co-crystallization
15:35-15:50		Sunil Varughese <i>CSIR-NIIST, Trivandrum, India.</i> Molecular Basis for the Mechanical Response of Sulfa Drug Crystals
15:50-16:05		Sarah Guerin <i>University of Limerick, Ireland.</i> Predictive Design of Functional Biomolecular Crystals
Break (15 mins)		
Session-8		
16:20-16:25		Arunachalam Ramanan <i>Indian Institute of Technology Delhi, India.</i> Session Chair
16:25-17:00 (Invited)		Jonathan Steed <i>Durham University, UK.</i> When Crystallization Goes Wrong: Fun Facts About Supramolecular Gels
17:00-17:15		Jennifer Cookman <i>University of Limerick, Ireland.</i> Revealing Pharmaceutical Crystal Growth using Liquid Phase Electron
17:15-17:50 (Invited)		Dario Braga <i>University of Bologna, Italy.</i> Ionic Co-crystals
17:50-18:00	Announcement of poster awards	
End of Conference		

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