## BACG Annual Conference 2022



## Sessions' details

<b>Plenary Lecture (10:00 - 10:40)</b> (Chairs: Jan Sefcik and Huaiyu Yang) <b>Dr Jerry Heng</b> Title: TBC
Session 1 (Chairs: Jan Sefcik and Huaiyu Yang)
Devis Di Tommaso (10:40 - 11:00):
Solution additives promoting the onset of MgCO3 nucleation and growth.
Krishna Hari (11:00 - 11:10):
Engineered growth of polycrystalline amino acid films for eco-friendly piezoelectric sensing.
Zoran Bjelobrk (11:10 - 11:20):
Solubility of organic salts in solvent-antisolvent mixtures: A combined experimental and molecular dynamics simulations approach.
Session 2 (Chairs: Petros Neoptolemou and Simon Lawrence)
Ryan Leeming (11:30 - 11:50):
Model predictive control of industrial crystallisation processes.
Mitchelle Kudzanayi Mandaza (11:50 - 12:00):
Digital Design Strategies for Industrial Crystallisation Development: Considering Active Pharmaceutical Ingredient Properties.
Thomas Pickles (12:00 - 12:10):
Developing an autonomous DataFactory workflow for small-scale batch cooling crystallization with the antiviral lamivudine.
Yiming Ma (12:10 - 12:20):
Design of the Cooling Crystallization Process using the Machine Learning-based Strategy.
Session 3 (Chairs: Zarrin Ansari, Weronika Kras and Gareth Lloyd)
Colin Seaton (14:00 - 14:20):
Isostructural Molecular Crystals: Combining Experimental and Computational Screening.
Haibin Qu (14:20 - 14:30): De diction Made d'Development and France lation De francesco Francesco e This alegant and the Constants
Prediction Method Development and Formulation Performance Evaluation of Thiophanate-methyl Cocrystals.
Lihong Jia (14:30 - 14:40):
Deep Insights into the Selective Formation of Isostructural Crystal: A Case of Spironolactone Solvates.
Ruiaridh Mackay (14:40 - 14:50):
Measuring Interface Induced Concentration Enhancement in Molecular Mixtures.
Wenqing Tian (14:50 - 15:00):
Protein Crystallisation by Gas Bubbles with In-situ Tracking in a Batch Reactor.
Session 4 (Chairs: Grahame Woollam and Simon Lawrence)
Nathan de Bruyn (15:10 - 15:30):
Crystal Grower : Crystal Shape Prediction, Analysis and Design – a Study of Molecular Crystals.
Samira Anker (15:30 - 15:40):
Controlling urea crystallisation via heterogeneous nucleation.
James Flannigan (15:40 - 15:50): Crustel Nucleation from Solution Induced by Oction Trucescore
Crystal Nucleation from Solution Induced by Optical Tweezers.
Steven-Nicholson (15:50 - 16:00):
Measurement of Boundary Layer Concentration Distribution, Thickness and Mass Flux during Growth and Dissolution of the {011} and
(120) Faces of L-alanine Single Crystals.
Plenary Lecture (16:10 - 16:50) (Chairs: Grahame Woollam and Simon Lawrence)
Dr Robert Docherty
Digitally Enabled Workflows: Accelerating the Molecule to Medicine Journey
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