morning session

afternoon session

evening session

Tuesday 9th July

08:30 Registration Opens / Morning Coffee

Plenary Session: Crystal Nucleation and Growth

09:15 Introductory Remarks: Prof Sally Price (UCL, UK)

09:30 **Plenary: Michael Doherty**
University of California at Santa Barbara, US
Towards Digital Drug Product Design for Polymorph Selection and Crystal Growth

10:10 **Invited: Nora de Leeuw (University of Cardiff, UK)**
University of Cardiff, UK
TBD

10:40 **Kevin Roberts**
University of Leeds, UK
The Crystallisation Structural Pathway of Para amino Benzoic acid: From Solvated Molecule through Solute Clustering and Nucleation to the Growth of Facetted Crystals

11:10 Coffee Break

Crystal Nucleation and Growth

11:30 **Kieran Hodnett**
University of Limerick, Ireland
Lifetimes of Adsorbed Active Pharmaceutical Ingredients on Heterosurfaces

11:50 **David Mackechnie**
University of Strathclyde, UK
Interfacial Supersaturation as the Driving Force for Heterogeneous Nucleation at Liquid-Liquid Interfaces

12:10 **Sarah Wright**
University of Manchester, UK
Unusual Conformations in Molecular Crystals

Experimental Techniques

Anuradha Pallipurath
National University of Ireland, Ireland
The effect of functional group terminations on organic crystal facets: A polarised Raman and computational study

Victoria Hamilton
University of Bristol, UK
In situ observation of organic crystal growth of a pharmaceutical using liquid cell electron microscopy

Elizabeth Willneff
University of Leeds, UK
Near-Ambient Pressure X-ray Photoelectron Spectroscopy: A New Laboratory Technique for Characterising Structure and Bonding at Surfaces of Molecular Crystals

12:30 Lunch & poster session

Executive committee meeting (room)

13:00 **Poster Session & Sponsors Exhibition**

Plenary Session: Characterising, Modelling, and Controlling Polymorphism

14:00 **Plenary: Allan Myerson**
Massachussets Institute of Technology, US
Nucleation of Organic Molecular Crystals on Surfaces and in Confinement

14:40 **Invited: Aurora Cruz Cabeza**
University of Manchester, UK
TBD

15:10 **Invited: Doris Braun**
University of Innsbruck, Austria
Unravelling complexity in the solid form landscapes of pharmaceuticals

15:40 Coffee Break

Polymorphism

16:00 **Riccardo Montis**
University of Manchester, UK
COMBINING CRYSTAL STRUCTURE PREDICTIONAND STRUCTURAL COMPARISON WITH EXPERIMENTAL SCREENING: A POTENTIAL ROUTE TO MORE POLYMORPHS, INCLUDING A 2-FOR-THE-PRICE-OF-1 SPECIAL.

16:20 **Jason Potticary**
University of Bristol, UK
Control of polymorphism in the three organic systems through the application of strong magnetic fields during crystal growth

16:40 **Martin Ward**
University of Strathclyde, UK
Recovery of high-pressure solid forms to ambient pressures

Experimental Techniques

Ian McPherson
University of Warwick, UK
Surface Charge Analysis of Calcite Using Scanning Ion Conductance Microscopy

Simon Clevers
Université de Rouen, France
In situ X-ray for monitoring crystallization in solution : In-situX®

Maxime Charpentier
University of Strathclyde, UK
Phase diagram screening of chiral compounds with UV/CD spectroscopy

17:00 **AGM**

17:30 - 19:30 **Poster Session with drinks and BACG birthday cake**

Wednesday 10th July

09:00 Morning Coffee

Plenary Session: Bio-inspired Crystallization

09:30 **Plenary: Fiona Meldrum**
University of Leeds, UK
A Crystallisation Approach to Nanocomposite Crystals

10:10 **Invited: Wim Noorduin**
AMOLF, Netherlands
Shaping up bio-inspired functional materials

10:40 **Invited: Dominique Maes**
Vrije Universiteit Brussel, Belgium
Do protein crystals and aggregates go with the flow?

11:10 Coffee Break

Bio-inspired Crystallization

11:30 **Fatima Ibis**
Delft University of Technology, Netherlands
Understanding Kidney Stone Formation: A microfluidic approach

11:50 **Ian Rosbottom**
Imperial College London, UK
A Novel Platform for Continuous Protein Crystallisation

12:10 **Alice Fayter**
University of Warwick, UK
Characterisation of the Effects on Ice Nucleation, Morphology and Growth upon Addition of Ice-active Compounds; a Biophysical Study

12:30 **Noushine Shahidzadeh**
University of Amsterdam, UK
The hopper growth of NaCl crystals

Co-Crystals and Formulation

Huaiyu Yang
Loughborough University, UK
Jumping into Metastable 1:1 Urea-Succinic Acid Cocrystal Zones by Freeze-Drying

Marvah Aljohani
Galway University, Ireland
Influence of excipients on the stability of pharmaceutical cocrystals

Leila Keshavarz
University of Limerick, Ireland
Influence of Impurities on the Solubility, Nucleation, Crystallization and Compressibility of Paracetamol

Rafel Prohens
Universitat de Barcelona, Spain
Revisiting the Solid-State landscape of Sildenafil: New insights from an old drug

13:00 Lunch & poster session

13:30 **Poster Session & Sponsors Exhibition**

Awards Session

14:30 Early Career Prize Talk

15:00 **Annual Lecture: Prof. Leslie Leiserowitz**

15:45 Break: preparation for the evening dinner at the Royal Society

Reception and Dinner at the Royal Society

18:00 Royal Society opens

18:30 Reception starts

19:00 **Conference Dinner, Awards presentation and Evening talk by Prof. Roger Davey**

Thursday 11th July

09:00 Morning Coffee

Plenary Session: Engineering Crystallization

09:30 **Plenary talk: Prof. Marco Mazzotti (ETH Zurich)**
ETH Zurich, Switzerland
On the Manipulation of the Size and Shape of Needle-like Crystals

10:10 **Thomas Vetter**
University of Manchester, UK
Design and optimization of isothermal and non-isothermal deracemization processes with maximum productivity

10:40 **Yuri Abramov**
XtalPi, US
Modeling Support of Finite Pharmaceutical Crystal Growth

11:10 Coffee Break

Engineering Crystallization

11:30 **Jose Capdevila Echeverria**
University of Strathclyde, UK
pH and Temperature Dependent Solubilities and Eutectic Points for the Continuous Chiral Resolution by Integration of Membrane and Crystallisation Technologies

11:50 **Johannes Hoffmann**
University of Strathclyde, UK
Serial Separation and Resolution in Eutectic Solutions

12:10 **Brigitta Bodák**
ETH Zurich, Switzerland
Model-based analysis of solid-state deracemization via temperature cycles

Nucleation and Growth

Yumin Liu
University of Manchester, UK
When crystals don't grow – the growth dead zone

Torsten Jensen
University of Bristol, UK
A Planar Aromatic Molecule that Cannot Crystallise: A Combined Computational and Experimental Study of 2nd Generation Sulflower

Ilaria Gimondi
University College London, UK
Conformational complexity limitations to the simulation of the nucleation of succinic acid polymorphs

12:30 Closing Remarks - Joop ter Horst
University of Strathclyde, UK

12:40 Lunch

Plenary talk	30 min talk + 10 minutes discussion / buffer
Invited talk	25 min talk + 5 min discussion
Parallel sessions	15 min talk + 5 min discussion