

Programme

Sunday September 11, 2022

- 18:30

Registration
- 19:30

Welcome Reception
- 22:00

End of the Day

Programme

Monday September 12, 2022

- 09:00** **Opening Remarks**
- 09:10** **PL01 - The Elementary Reactions for Incorporation Into Crystals**
Dr Peter VEKLOV
(UNIVERSITY OF HOUSTON, Houston, United States)
- 10:00** **IL01 - Droplet-based Crystallization**
Dr Stéphane VEESLER
(CNRS - AIX MARSEILLE UNIVERSITÉ, MARSEILLE, France)
- 10:30** **Coffee Break**
- 11:00** **Exhibition Overview**
- 12:15** **Lunch Break, Exhibition & Poster Session**
- 14:00** **IL02 - Solid Form Screening Enhanced by Advanced Tools for Characterization of Pharmaceutical Compounds**
Dr Mihaela POP
(TERACRYSTAL, Cluj Napoca, Romania)
- 14:30** **OC01 - Understanding the Impact of Crystal Chemistry on the Comparative Crystallisation of Entacapone Polymorphic Forms and Their Directed Nucleation on Gold Templates**
Dr Cai MA
(UNIVERSITY OF LEEDS, Leeds, United Kingdom)
- 14:50** **OC02 - Comparative Study of Two Related Chiral Co-crystals: Crystallization Behaviors, Crystal Structures and Preferential Crystallization**
Dr Clément BRANDEL
(UNIVERSITÉ DE ROUEN, Mont Saint Aignan, France)
- 15:10** **OC03 - Carbamazepine/Tartaric Acid Ordered and Disordered Cocrystalline Forms: When Stoichiometry and Synthesis Method Matter**
Dr Natalia CORREIA
(UNIVERSITY OF LILLE, Villeneuve d'Ascq, France)
- 15:30** **Coffee Break**
- 16:00** **IL03 - Detecting and Avoiding Disappearing Polymorph Cases by Crystal Structure Prediction**
Dr Marcus NEUMANN
(AVANT-GARDE MATERIALS SIMULATION GMBH, Merzhausen, Germany)
- 16:30** **OC04 - Artificial Neural Networks for Co-crystal Prediction**
Prof. Elias VLIEG
(INSTITUTE FOR MOLECULES AND MATERIALS, Nijmegen, The Netherlands)
- 16:50** **End of the Day**

Programme

19:00 Guided Tour in Brussels

Programme

Tuesday September 13, 2022

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| 09:00 | Welcome |
| 09:10 | PL02 - Solvent Selection Strategies
Mr Robert GEERTMAN
(JANSSEN PHARMACEUTICA NV, Beerse, Belgium) |
| 10:00 | IL04 - Continuous Crystallization in Microreactors
Prof. Simon KUHN
(KU LEUVEN, Leuven, Belgium) |
| 10:30 | Coffee Break |
| 11:00 | OC05 - Molecular, Solid-state and Surface Structures of the Conformational Polymorphic Forms of Ritonavir in Relation to Their Physicochemical Properties
Prof. Kevin ROBERTS
(UNIVERSITY OF LEEDS, Leeds, United Kingdom) |
| 11:20 | OC06 - Use of Multivariate Statistical Approach for Monitoring Crystallizations by Spatially Resolved Spectroscopy
Mr Romain KERSAUDY (UNIVERSITY OF LYON, Villeurbanne, France)
(SANOFI-AVENTIS DEUTSCHLAND GMBH) |
| 11:40 | OC07 - Development of Continuous Crystallization Processes
Ing Arne VANCLEEF
(KU LEUVEN, Diepenbeek, Belgium) |
| 12:00 | OC08 - Innovative Pathways to Chiral Resolution Using Cocrystallization Tools
Dr Oleksii SHEMCHUK
(UCLOUVAIN, Louvain-la-Neuve, Belgium) |
| 12:20 | Lunch Break, Exhibition & Poster Session |
| 14:00 | IL05 - Simulation of Impurity-induced Step Bunching
Prof. Jim LUTSKO
(UNIVERSITE LIBRE DE BRUXELLES, Bruxelles, Belgium) |
| 14:30 | OC09 - Order-Disorder Phase Transition Between High- and Low-z' Crystal Structures of <i>n,c</i>-Protected Dipeptide
Dr Ryusei OKETANI
(OSAKA UNIVERSITY, Toyonaka, Japan) |
| 14:50 | OC10 - Investigating the Role of Stochastic Ice Nucleation in the Freezing Process of Biopharmaceuticals
Mr Leif-Thore DECK
(ETH ZURICH, Zurich, Switzerland) |
| 15:10 | OC11 - Microfluidic Approach for Quantifying Nucleation Kinetics
Dr Ruel CEDENO
(CNRS, MARSEILLE, France) |
| 15:30 | Coffee Break |

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- 16:00** **IL06 - Nonlinear Optics: A Powerful Tool for the Characterization of Organic Crystallized Compounds**
Prof. Valérie DUPRAY
(UNIVERSITY OF ROUEN, Mont-Saint-Aignan CEDEX, France)
- 16:30** **OC12 - Crystallization Under Defined Non-equilibrium Conditions**
Prof. Yves GEERTS
(ULB, Brussels, Belgium)
- 16:50** **OC13 - High Throughput Single Crystal Formation in Core-shell Capsules**
Dr Marie METTLER
(SECOYA-TECHNOLOGIES SRL, Belgium)
- 17:10** **OC14 - High Angle Liquid Cell Tem Tomography for in Situ Observation and 3D Reconstruction from Ip-tem**
Dr Alejandro GOMEZ PEREZ
(NANOMEGAS SPRL, Brussels, Belgium)
- 17:30** **End of the Day**
- 19:30** **Conference Dinner**

Programme

Wednesday September 14, 2022

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| 09:00 | Welcome |
| 09:10 | PL03 - Nature Inspired Crystal Engineering: from Interactions to Applications
Prof. Fabrizia GREPIONI
(UNIVERSITY OF BOLOGNA, Italy) |
| 10:00 | IL07 - Risk Management in the Development of Amorphous Formulations
Dr Céline ROUGEOT
(UCB S.A., Brussels, Belgium) |
| 10:30 | Coffee Break |
| 11:00 | IL08 - Prediction of the Cocrystal Solubility Line Without the Use of Experimental Cocrystal Solubility Data
Prof. Adrian FLOOD
(VISTEC, Rayong , Thailand) |
| 11:30 | OC15 - Directional Crystallization from the Melt of Semiconductor Blend
Dr Guangfeng LIU
(UNIVERSITÉ LIBRE DE BRUXELLES, Brussels, Belgium) |
| 12:00 | OC16 - Transfer of Chirality Between a Sulfoxide and its Corresponding Prochiral Sulfone
Dr Gérard COQUEREL
(ROUEN UNIVERSITY, Rouen, France) |
| 12:30 | Closing Remarks |
| 13:00 | End of the Conference |