

PROGRAMME TUESDAY 27TH MARCH

For full titles and abstracts see subsequent pages

8.30 am **Registration** / Poster Setup

9.00 am **Session 1** - Pharmaceuticals 1 -Polymer Systems

9.00 am Glynn Van-de-Velde, Thermal Methods Group Chair & Dr Andrei Rotaru, ESTAC 2018 Organising Chair
Welcome & Opening Remarks

9.25 am Prof Simon Gaisford, UCL School of Pharmacy
Thermal Characterisation of 3D Printed Materials

9.50 am Sean Askin, UCL School of Pharmacy
Simultaneous DSC-XRD to investigate Transitions in Olanzipine-Polymer Solid Dispersions

10.15 am *Tea / Coffee, Manufacturer Exhibition & Poster Viewing*

10.45 am **Session 2** -Materials Characterisation

10.45 am Dr Johan Jacquemin, Université François Rabelais, France
Ionic Liquids

11.10 am Dr Andrei Rotaru, University of Criova & INFLPR-National Institute
Temperature influence on dielectric dipole microstructure & dynamics in ceramics

11.35 am Leandro Feitosa, Leicester University
Thermal Analysis of the solidification sequence of a high chromium niobium-based alloy produced via additive manufacturing

12.00 pm *Comfort Break*

12.10 pm **Session 3** - Manufacturers Highlights

12.10 pm 5 minute presentations by instrument manufacturers

12.55 pm *Lunch*

1.45 pm Thermal Methods Group AGM

Session 4 Thermal Techniques to Monitor Product Development

2.00 pm Prof Nicholas Dunne, Dublin City University
Thermal techniques to monitor setting properties of bone cements

2.25 pm Dr Vicky Kett, Queen's University Belfast
Manufacturing process development for a freeze-dried pharmaceutical product

2.50 pm Dr Min Zhao, Queen's University Belfast
Predicting PLGA Microsphere Performance using Thermal & Imaging Techniques

3.15 pm *Tea / Coffee, Manufacturer Exhibition & Poster Viewing*

3.45 pm **Session 5** - Cyril Keattch Award Candidates

3.45 pm Dr Asma Buanz, UCL School of Pharmacy
Are Two Better Than One? Challenges and Opportunities of Hyphenated DSC

Gage Ashton, University of Huddersfield
4.05pm Developments in Hot-stage Microscopy Direct Analysis in Real Time Mass Spectrometry

4.25 pm Dr Samuel Owusu-Ware, AstraZeneca
Glassy State Molecular Mobility of HPMC Films: A Thermally Stimulated Current Study

4.50 pm Kamil Oster, University of Manchester
Understanding the Heat Capacity Enhancement in Ionic Liquid-based Nanofluids

Drinks Reception, Conference Dinner and Prize Announcements
7.30pm in The Great Hall, Lanyon Building, Queen's University of Belfast.
(map inside back cover)

PROGRAMME WEDNESDAY 28TH MARCH

9.00 am	Session 1 - Pharmaceutical Materials Processing
9.00 am	Prof Anant Paradkar, Centre for Pharmaceutical Engineering Science, University of Bradford Hot melt extrusion and cocrystals in pharmaceutical materials processing
9.25 am	Prof Barbara Conway, University of Huddersfield Solubility enhancement and the role of thermal analysis
9.50 am	Dr Paul Royall, King's College London Thermal methods role in the development of formulations for opioid overdose & poorly soluble drugs

10.15 am *Tea / Coffee, Manufacturer Exhibition & Poster Viewing*

10.45 am	Session 2 - Thermal Methods as a tool for Solubility Enhancement
10.45 am	Dr Gareth Parkes, University of Huddersfield Novel Applications of Thermomicroscopy for Undergraduate Forensic Science Projects
11.10 am	Therekanya Sripko, Manchester University A Study of Wool Cortical Cells by Deconvolution of DSC-curves

11.35 am *Comfort break*

11.45am	Session 3 - Materials Characterisation
11.45 am	Sarah Hunt UCL Thermogravimetric Analysis- a tool for understanding thermal stability and chemical interactions in historic wood samples
12.10 pm	Dr Marianne Odlyha, Birkbeck College, London Preliminary Nanomechanical Studies with Advanced Chemical Analysis of Varnished Wood As Used in Musical Instruments
12.35 pm	Dr Duncan Price, Thermal Methods Group Chair Closing Remarks

12.45 pm *Lunch*

13.45 pm *Close of Meeting*