

TAC 2023

28th - 29th March 2023
University of Huddersfield
Oastler Building

Monday 27th March 2023

09:00 am	Registration (Oastler Building foyer) and refreshments – OA7 lobby
09:15 am	Introduction – Milan Antonijevic (TMG Chair), Gareth Parkes (TMG Past Chair), Lindsay Harding (TMG Vice-chair)
09:30 am	Differential scanning calorimetry (DSC) – Vicky Kett (Queen’s University Belfast)
10:30 am	Refreshment break – OA7 lobby
10:45am	Thermogravimetric analysis (TGA) and evolved gas analysis (EGA) – Duncan Price, Edwards
11:45 am	Thermomechanical analysis (TMA), dynamic mechanical analysis (DMA) and dielectric techniques – John Duncan, Lacerta Technology
12:45 pm	Lunch – OA7 lobby
1:30 pm	Calorimetry, industrial safety – Ian Priestley, Syngenta
2:30 pm	Hot stage microscopy – Gage Ashton, University of Huddersfield
3:30 pm	Refreshment break – OA7 lobby
3:45 – 5:00 pm	Panel Q&A

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Tuesday 28 ^h March 2023	
08:30 am	Registration and refreshments – Oastler Building foyer/OA4/02
09:00 am	Welcome and Opening Remarks – OA4/01 Prof. Michael Ginger
09.10 am	Session 1 Chair - Milan Antonijevic
09:10 am	Prof. Vesa-Pekka Lehto, University of Eastern Finland <i>Heat in nanoscale</i>
09.50 am	Duncan Price, Edwards Ltd <i>High spatial resolution thermal property imaging and analysis</i>
10:15 am	Refreshment break, exhibition and posters – OA4/02
10:40 am	Session 2 Chair – Duncan Price
10:40 am	Danial Baqer, University of Surrey <i>Detection of Tyre Wear Particles in Road Dusts via online TG-GC-MS</i>
11:05 am	Thamer Alzoubi, Kings College London <i>A study of solid-state epimerisation within lactose powders stored in simulated tropical environmental zones</i>
11:30 am	Vicky Kett, Queens University, Belfast <i>Challenging pharmaceutical stability testing orthodoxy – the curious case of the drug whose stability improves at higher humidity</i>
11:55 pm	Comfort break
12.10 pm	Session 3 Chair – Gage Ashton
12.10 pm	5-minute presentations by instrument manufacturers
1:15 pm	Lunch, exhibition and posters – OA4/02
1:45 pm	Thermal Methods Group - AGM
2:15 pm	Session 4 Chair – Gareth Parkes
2:15 pm	Prof. Ignazio Blanco, University of Catania, Italy <i>The role of thermal methods in materials characterisation</i>
2:55 pm	Lockhart Horsburgh, Johnson Matthey PLC <i>Using thermal analysis to identify and address challenges in thermal processing of materials</i>
3:20 pm	Duncan Price, Edwards Ltd <i>How much does it cost to make a cup of tea? A thermodynamic and social media study</i>
3.45 pm	Final Question and Answer session.
4.00 pm	Refreshment break, exhibition and posters – OA4/02
4.30 pm	Close of Day 1

Drinks Reception (7.00 pm), Conference Dinner (7.30 pm) and Prize Announcements
The Manor House, Lindley

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Wednesday 29th March 2023

09:30 am	Refreshments – OA4/02	
10:00 am	Session 5	Chair – Ian Priestley
10:00 am	Alex Gaywood, Syngenta	<i>The use of differential scanning calorimetry to investigate autocatalytic decompositions</i>
10:25 am	Andrew Hickman, dstl	<i>Compatibility assessment of energetic materials following AOP4147</i>
10:50 am	Alan McDonald, AWE	<i>Method for microcalorimetry measurements of CO₂ adsorbing onto ceria nanopowders</i>
11.15 am	Refreshment break, exhibition, and posters – OA4/02	
11.30 am	Session 6	Chair – Paul Royall
11:30 am	Stephen Mee, Devro plc	<i>Thermal analysis of bovine collagen by using DSC</i>
11:55 am	Paul Matejtschuk, MHRA	<i>Use of thermal analysis in the formulation development of an international reference material for interleukin-6</i>
12.55 pm	Joe Whiteley, University of Huddersfield	<i>Thermal investigation of surfactant interactions with proteins</i>
1.20 pm	Milan Antonijevic, Thermal Methods Group Chair - Closing Remarks	
1:30 pm	Lunch, exhibition and posters – OA4/02	
2.00 pm	Close of TAC 2023 meeting	