THERMAL METHODS GROUP

TAC 2020 Short Course

University of Leicester, 6th April 2020

Modern Thermal Analysis Techniques

This intensive short course will cover a comprehensive overview of a wide range of modern thermal analysis techniques and their applications. There will be ample opportunity to speak directly with the presenters throughout the day.

All course participants will receive a copy of the Royal Society of Chemistry book "Principles of Thermal Analysis and Calorimetry" produced by the TMG in 2016.

Programme

9.00 **Registration & Coffee / Tea**

9.30 **Welcome & Overview**
Dr Gareth Parkes, University of Huddersfield

9.40 **Differential Scanning Calorimetry**
Prof Simon Gaisford, UCL School of Pharmacy

10.30 **Coffee / Tea**

11.00 **Thermogravimetry & Hyphenated Techniques**
Dr Duncan Price, Edwards Vacuum

11.50 **Thermomicroscopy**
Dr Milan Antonijevic, University of Greenwich

12.20 **Lunch**

13.15 **Modulated Temperature DSC**
Dr Vicky Kett, Queen's University Belfast

13.45 **Thermomechanical & Dynamic Thermomechanical Analysis**
Dr John Duncan, Lacerta Technology

14.30 **Coffee/Tea**

15.00 **Thermal Analysis Workshop**
Dr Vicky Kett, Dr Gareth Parkes, Prof Ted Charsley

Influence of Experimental Conditions: Effect of experimental variables including: sample mass, heating rate, atmosphere, sample crucibles.

Data Processing: Guide to the interpretation of thermal analysis curves

Calibration and standardisation: Temperature and enthalpy standards. Calibration methods.

Q&A Session

16.30 **Close**