



Applications of Thermal Analysis for the 21st Century

10 November 2016 – NPL, UK

9:00	Registration & Coffee
9:30	Welcome and Arrangements Glynn Van-de-Velde (Chair, RSC TMG) Introduction to Thermal Metrology at NPL – Sam Gnaniah (NPL Materials Division)
9:50	A novel thermal analysis instrument based on induction heating Gareth Parkes (Dr), Huddersfield University
10:20	The use of TGA-FTIR at Ford Motor Company Stephen Gould, Ford Motor Company
10:50	Refreshment Break
11:20	Material Thermal Response of a Charring Ablator – Thermal Analysis Approach Phil Duke, DSTL
11:50	Development of an integrated thermomicroscopy- DART- MS system Lindsay Harding (Dr), Huddersfield University
12:20	Applications of thermal data at Jaguar Land Rover Jason Webb, Jaguar Land Rover, UK
12:50	Lunch
14:00	Investigating changes of the hair cortex induced by alkylation of disulphide bonds using DSC Elizabeth Burrows, Manchester University
14:15	Assessment of the effects of milling on merino wool using DSC Thomas Davies, Manchester University
14:30	DSC- Synchronous XRD for analysis of enantiotropic polymorphism Simon Gaisford (Prof), UCL
14:50	Diffusing Wave Spectroscopy (DWS) – Taking the strain out of rheology Nick Hawkins, Merrow Scientific
15:10	Refreshment Break
15:30	Rapid determination of Tg and Tm using a simultaneous DMA/DTA technique for biomedical material assessment John Duncan (Dr), LacertaTechnology
15:45	Dynamic Mechanical Analysis (DMA) as a tool to support freeze drying Paul Matejtschuk (Dr), NIBSC
16:00	Application of humidity controlled Dynamic Mechanical (DMA-RH) and Dielectric Analysis (DETA-RH) for evaluation of nano-particle and nanocellulose based conservation treatment of heritage materials Marianne Odlyha (Prof), Birkbeck College
16:15	Polymer Composites - critical issues affecting DMA accuracy/measurement Ana Yong, NPL/Surrey University
16:30	Poster Prize / Close

