TAC 2007 AGENDA Tuesday 3 April

08:30 – 09:15 Registration & coffee

09:30 – 12.30  Session I: Pharmaceutical applications of thermal analysis (Including refreshment break – posters & exhibits)

Keynote presentation: Duncan Craig (UEA, Norwich)
Pharmaceutical applications - general topics and new developments
Offered presentations:
• Use of calorimetry to characterize pharmaceutical compounds and their behaviour under different conditions (speaker to be confirmed)
• DSC analysis of protein drugs (speaker to be confirmed)
• Water binding in egg proteins (Paul Nesvadba, Rubislaw)
• Enantiomeric discrimination by calorimetric methods (Ronan O’Brien, MicroCal)

12.30-13.30 Buffet lunch

14:00 – 17.30 Session II: Thermal methods in catalysis and materials chemistry (Including refreshment break – posters & exhibits)

Keynote presentation : Aline Auroux (IRC, France)
Adsorption calorimetry: a versatile tool for the study of catalytic surfaces and their active sites
Offered presentations:
• Ammonia adsorption calorimetric studies of supported sulfonic acid catalysts (Rob Brown, Huddersfield)
• A TGA and TEM investigation of the nature of carbon deposition during methane dehydroaromatisation over MoO3/H-ZSM-5 based catalysts (Justin Hargreaves, Glasgow)
• Sub-Ambient Thermal Volatilisation Analysis – A Valuable Technique Brought in from the Cold (John Liggatt, Strathclyde)
• Thermal Studies on the Energetic Inorganic Oxidant Potassium Dinitramide (Ted Charsley, Huddersfield)
• Characterization of crude oils by thermal analysis techniques (M.V. Kok, Ankara)

17:30 -18:30 Poster session
19:00 Conference Dinner
09:30 – 12.30 Session III: Post-genomic thermochemistry and biomolecular calorimetry (Including refreshment break – posters & exhibits)

Keynote presentation: Roland Winter (Dortmund)

*Pressure Perturbation Calorimetric Studies of the Solvation, Unfolding, Aggregation and Amyloidogenesis of Proteins*

Offered presentations:
- Microcalorimetry of protein-ligand interactions (Anthony Keeble, Cambridge)
- Thermal analysis of solvation changes in non-covalent complexes (Alan Cooper, Glasgow)
- ITC and DSC of interactions of antimicrobial peptides with membranes (Guilherme Brand, Glasgow/EMBRAPA)

12.30-13.30 Buffet lunch

14:00 – 17.30 Session IV: Submicro-microcalorimetry: prospects for chip-based/high-throughput thermal analysis (Including refreshment break – posters & exhibits)

Keynote presentation: Jon Cooper (Glasgow)

*Integrating Lab-on-a-Chip Technologies with Nanocalorimetry*

Offered presentations:
- Non Adiabatic Thin-Film (Chip) Nanocalorimetry for Fast (100000 K/s) Heating and AC-calorimetry (Christoph Schick, Rostock)
- Sample Controlled Hot Stage Microscopy - save time and increase resolution in thermal microscopy measurements (Rod Bottom, Mettler)

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