

Polymer Process Engineering '11
Tuesday 6 December - Wednesday 7 December 2011
Norcroft Conference Centre, University of Bradford, UK
www.brad.ac.uk/ppe

Tuesday 6 December		
	RESOURCE EFFICIENCY	
9.00	Up-Cycling of Elastomeric Waste Residues into Acoustic and Thermal Insulation Materials	<i>H. Benkreira, K. V. Horoshenkov, A. Khan and S. Mahasaranon, University of Bradford, UK</i>
9.25	A holistic Approach for Energy Management in Polymer Processing Industry	<i>N Karnachia, E Harkin-Jones, M Price, K Li, Queens University Belfast, and A Kelly, EC Brown, PD Coates J VeraSorroche, University of Bradford, UK</i>
9.50	Nampak Plastics Resource Efficiency	<i>A. Moorthy, M. Agolini, C. Cooper, J. Crick, P. Hale, Nampak Ltd, L. Mulvaney-Johnson, University of Bradford, UK</i>
10.15	Technology for Next Generation of Lithium Ion Batteries	<i>I M Ward, H.V.StA Hubbard, S C Wellings, University of Leeds, UK</i>
10.40	Coffee	
11.10	Cast Nylon-6 and the Die Drawing Process	<i>Malcolm Fox, Nylacast Ltd, UK</i>
11.35	Rotation Extrusion of HDPE Pipes with Higher Performances	<i>Q Wang, M Nie, S Bai, Y Guo, Sichuan University, PR China</i>
12.00	Flow simulation techniques for blown film	<i>D J Fleming, Fleming Polymer Testing and Consultancy Ltd</i>
12.25	Energy Management in Plastics Processing: Further explorations in measurement, assessment and prediction	<i>R Kent, Tangram Technology Ltd</i>
12.50	Lunch	
	HEALTHCARE TECHNOLOGIES	
13.50	Cocrystallization of salicylic acid and nicotinamide by SFCC using twin screw extrusion	<i>R S. Dhumal¹, A L Kelly, T. Gough, P. D. Coates, A Paradkar, University of Bradford, UK</i>
14.15	Recent developments in small and nano-scale processing of polymers for pharmaceutical and industrial applications; Recent Developments in Analytical Equipment for the Polymer and Pharmaceutical Industries	<i>R Bottom, Thermo Fisher Scientific</i> <i>S Halsey, Thermo Fisher Scientific</i>
14.40	Pharmaceutical Solid Dispersions Produced by Twin Screw Extrusion	<i>A L Kelly, T Gough, R Dhumal, B Khorsheed and A Paradkar, University of Bradford, UK</i>
15.05	tea	
15.35	Using PEEK to Take Implant Design Outside the Box	<i>A Elleray, Invivio Ltd, UK</i>
16.00	Key Challenges in Servicing the Medical Device Market in Minimal Invasive Surgery (MIS) M	<i>Goldsmith Surgical Innovations Ltd, and G Meakin, University of Bradford UK</i>
16.25	Propoint: A novel root canal obturation point	<i>P Holden, DRFP Ltd, UK</i>
16.50 -18.00	Lab demos	
18.45 19.30	Drinks Reception followed by Conference Dinner	Experience TV Gallery, and Room at the Top, National Media Museum

RKT Centres: Advanced Materials Engineering / Polymer MNT/ Pharmaceutical Engineering Science
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Wednesday 7 December		
9.00	POLYMER MICRO & NANO TECHNOLOGY Thermal contact resistance in micromoulding	<i>G. González Castro, M. Babenko, J. Sweeney, H. Ugail, B.R. Whiteside, University of Bradford, and S. Bigot, Cardiff University, UK</i>
9.25	Multiscale modelling of polymer nanocomposites	<i>P. E. Spencer, J. Sweeney and P. Caton-Rose, University of Bradford, UK</i>
9.50	Near infrared spectroscopy – a smart way of characterization and quality control of PP-NC	<i>A Witschnigg, S Laske, C Holzer, University of Leoben, Austria and R Patel, A Khan, H Benkreira, P D Coates, University of Bradford, UK</i>
10.15	Biomaterial characterisation using atomic force microscopy (AFM)	<i>C Grant University of Bradford, UK</i>
10.40	Coffee	
11.10	Systems for micromoulding process monitoring and control – advancing the state of the art.	<i>B.R. Whiteside, K.Norris, P.D.Coates, University of Bradford, UK</i>
11.35	The Evolution in the Structure and Performance of Polypropylene/Clay Nanocomposite under Micro Injection Moulding Conditions	<i>Y Chen, Q Yang, Q Wang, Sichuan University, PR China and M Martyn, B R Whiteside, PD Coates, University of Bradford, UK</i>
12.00	Study of the morphology and mechanical properties of PP/PS blends in micro-injection moulding	<i>Q Yang Y Chen, Sichuan University, PR China and B RWhiteside, P D Coates, University of Bradford, UK</i>
12.25	Lunch	
13.30	A study on surface finishing and weld line strength in micro injection moulding using a variotherm and visual mould	<i>M.Fiorotto and G.Lucchetta, University of Padova, Italy and B.R. Whiteside, University of Bradford, UK</i>
13.55	Micro Injection Moulding High Accuracy Three-dimensional Simulation and Process Control	<i>G. Tosello, H. N. Hansen, Technical University of Denmark, and F. S. Costa, Autodesk Inc, Moldflow, Australia</i>
14.20	SCIENCE TO COMMERCIALISATION Recent Developments in Oriented Polymers	<i>I M Ward University of Leeds, UK</i>
14.35	Oriented polymers for architectural composites – Eovations Inc	<i>C Brown, K Nichols, B Birchmeier, Eovations Inc USA, and P Caton-Rose, I M Ward, G Thompson, P D Coates, University of Bradford.</i>
14.45	Anti-counterfeiting and Brand protection in Textiles	<i>J Green, J McGrath, Z Ahmed, S Kipp, Master Technologies Ltd, UK</i>
15.00	Tea	
15.30	The Nanofactory: strategic developments	S Kelly & S Rainton, Nanofactory
15.55	Nanofactory cases: T1 Technologies medical imaging; SofMat in-mould anti-counterfeiting; Leeds Lithium Power;	A Atkin P Harrison S Kelly
16.30	Lab demos	

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