



enhanced polymer processing

## Polymer Process Engineering 09, Bradford

Draft programme:

### Tuesday 27 October: Process Innovation

9.00	<b>Registration &amp; Coffee, Norcroft Centre</b>	
9.30	<b>Keynote</b> Orientation processing of Polymers: Analysis and Optimisation of the Polymer Wire Die-Drawing Process	<i>I M Ward, University of Leeds, UK</i>
10.15	Developing the next generation of polyethylene based single polymer composites	<i>A P Unwin, P J Hine &amp; I M Ward, University of Leeds, UK</i>
10.40	Experimental investigation on the processing principal of biaxial oriented pvc pipes prepared by quasi-dynamic expansion method based on cloth tube	<i>D Wu , D Ren, J Wang, Beijing University of Chemical Technology, China</i>
11.05	<b>Coffee</b>	
11.35	Material testing for injection moulding simulation	<i>R.G. Speight &amp; F.S. Costa, Autodesk Australia Pty, Australia</i>
12.00	Effect of copper alloy mould tooling on cycle time and product quality	<i>A L Kelly, L Mulvaney-Johnson, P D Coates, University of Bradford, UK and R Beechey, Copperplas Int. Ltd</i>
12.25	<b>Lunch, Norcroft Centre</b>	
13.30	Polyetheretherketone (peek) for use in long term implantable medical devices – key attributes and performance	<i>C. Valentine, A.Holden, A. Elleray Invivio Ltd, UK</i>
13.55	Challenges in hot melt extrusion for enhancement in solubility of poorly soluble drugs	<i>R Dhumal, A L Kelly, T Gough, P. D. Coates, A Paradkar, University of Bradford, UK</i>

### Polymer Micro & Nano Technology -1

14.20	Polypropylene –MMT Clay Nanocomposites Formulation: from small bench top mini-mixer to scaled-up twin screw extruder.	<i>R.Patel, H.Benkreira &amp; A Khan, P.D.Coates, Polymer IRC, School of Engineering, University of Bradford, UK, Y. Shen, S Xie , R Abu-Zurayk E. Harkin-Jones, T. McNally, P.Hornsby, Mechanical &amp; Aeronautical Engineering, Queens' University Belfast, UK</i>
14.45	Experimental study of extrusion and surface treatment of organo clay with PET nanocomposites	<i>Karnik Tarverdi, Somchoke Sontikae, Peter Allan Brunel University, UK</i>
15.10	<b>Launch of Polymer MNT Centre</b>	
15.30	<b>Laboratory Demonstrations – Polymer IRC/ Polymer MNT Centre</b>	
18.00	<b>Drinks Reception</b>	
18.45	<b>Conference Dinner</b>	

### Wednesday 28 October: Polymer Micro & Nano Technology -2

8.45	<b>Registration &amp; Coffee</b>	
9.15	Investigation of the use of LCP additives for microstructured surfaces replication	<i>G. Lucchetta, A. Gava, University of Padova, Italy</i>
9.40	Characterization and analysis of micro channels and sub-micron surface roughness of injection moulded microfluidic systems using optical metrology	<i>G. Tosello, F. Marinello, H. N. Hansen, Technical University of Denmark</i>
10.05	Stabilising fibre interferometers for online surface measurement	<i>H. Martin and X. Jiang, University of Huddersfield, UK</i>
10.30	<b>Coffee</b>	
11.00	Influence of mould design on flow visualisation studies in micromoulding	<i>B R Whiteside, R Spares, K Norris, P D Coates, University of Bradford</i>
11.25	2K – Micro Injection molding with formicaPlast Industrial solution for precise mass production of micro parts	<i>B Dormann, Kloeckner DESMA Schuhmaschinen GmbH, Germany</i>
11.50	Two micro component injection molding for MID fabrication	<i>A. Islam, H. N. Hansen, P.T. Tang, M.B. Jørgensen &amp; S.F. Ørts, Tech Univ Denmark &amp; IPU Manufacturing &amp; Sonion ApS, Denmark</i>
12.15	Micro and nano molded surface structures for the proactive stimulation of human mesenchymal stem cell differentiation	<i>I H Jaafar, M A Ammar, S S Jedlicka, J P Coulter, Lehigh University USA</i>
12.40	<b>Lunch</b>	
13.45	Smartpoint: A novel root canal obturation point	<i>P Holden, DRFP Ltd, UK, B R Whiteside, University of Bradford, UK</i>
14.10	Best Practice Strategies for Validation of Micro Moulding Process Simulation	<i>F.S.Costa, Autodesk Moldflow pty, Australia, G.Tosello, Tech Univ Denmark, and B.R. Whiteside, Univ of Bradford, UK</i>
14.35	In-situ evaluation of nanocomposite compounding via optical transmission and in-line viscosity measurements	<i>M McAfee, W.C. Chang, E. Harkin-Jones Queens University Belfast, UK</i>
15.00	Nanofactory: utilising synergies in nano-manufacturing to accelerate innovation	<i>S Kelly, Nanofactory, UK</i>
15.25	<b>Tea</b>	
16.00	<b>Laboratory Demonstrations – Polymer IRC/ Polymer MNT Centre</b>	

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