

JOURNAL PUBLICATIONS

2009 – M. A. Beard, **O.R. Ghita**, J. McCabe, K. E. Evans – “Monitoring Dehydration Kinetics of Theophylline Monohydrate Using Simultaneous Thermal and Spectral Methods” – accepted – *Journal of Raman Spectroscopy* (IF- 3.4)

2009 – J. Palmer, **O.R. Ghita**, L. Savage, K.E. Evans, “Successful Closed-Loop Recycling of Thermoset Composites” – In Press – *Composites Part A – Applied Science and Manufacturing* (IF- 1.662) (2009)

2008 – **O.R. Ghita**, M. A. Beard, J. McCabe, R. Bottom, J. Richmond, K.E. Evans - “A Study into First and Second Order Thermal Transitions of Materials using Spectral DSC”, *Journal of Material Science* (IF- 1.287), vol. 43, pp. 4988-4995

2008 - **O. R. Ghita**, D.C. Baker, K.E. Evans “An in-line near infrared process control tool for monitoring the effects of speed, temperature and polymer colour in injection moulding”, *Polymer Testing* (IF 1.357), vol. 27, pp. 459-469

2007 – S. K. Tomlinson, **O. R. Ghita**, R. M. Hooper, K. E. Evans, “Investigation of the setting mechanism of a novel dental cement using infrared spectroscopy”, *Vibrational Spectroscopy* (IF 1.78), vol. 45, pp. 10-17

2006 – S. K. Tomlinson, **O.R. Ghita**, R.M. Hooper, K.E. Evans “Monomer conversion and hardness of novel dental cement based on ethyl cyanoacrylate”, *Dental Materials* (IF 2.99), vol. 23, pp. 799-806

2006 – **O.R. Ghita** “In-line monitoring of plastics during injection moulding using near infrared spectroscopy”, *NIR news – The newsletter of the International Council for Near Infrared Spectroscopy*, vol. 17, no. 3, pp. 8

2005 – S. K. Tomlinson, **O.R. Ghita**, R.M. Hooper, K.E. Evans “The use of near-infrared spectroscopy for the cure monitoring of an ethyl cyanoacrylate adhesive” *Vibrational Spectroscopy* (IF 1.78), 40 pp 133–141

2005 – **O.R. Dumitrescu**, D.C. Baker, G.M. Foster, K.E. Evans “Near infrared spectroscopy for in-line monitoring during injection moulding”, *Polymer Testing* (IF 1.357), 24, pp 367-375

CONFERENCE PAPERS

2009 – J. Palmer, **O.R. Ghita**, L. Savage, K. E. Evans, “New Sheet Moulding Compounds (SMC) based on glass and carbon fibre recyclate” - Proceedings – *International Conference of Composite Materials (ICCM 17)* – June, Edinburg, UK

2008 – **O.R. Ghita**, D.C. Baker, K.E. Evans – “In-line monitoring of injection moulding materials and parameters using near infrared spectroscopy and chemometric analysis” - Proceedings - *Polymer Processing Society (PPS) – 24th Annual Meeting*, June 15-19th, Palermo, Italy

2008 – J. Palmer, **O.R. Ghita**, L. Savage, K.E. Evans, “Recyclate fibres –matrix interface analysis for reuse in sheet moulding compounds (SMC)” – Proceedings - *European Conference on Composite Materials (ECCM13)* –3-5th June, Stockholm, Sweden

2008 – S.K. Tomlinson, P. Brookbank, **O.R. Ghita**, M.Beard, K.E. Evans, “Novel Dental Cements containing combinations of cyanoacrylate resin, hydroxyapatite and new aluminium based fillers” – Proceedings – *European Conference on Composite Materials (ECCM13)* – Stockholm, 3-5th June, Stockholm, Sweden

2008 – J. Palmer, **O.R. Ghita** – “Mechanical Recycling of Automotive Thermoset Composites“ – oral presentation - *Society of Advancement of Material and Process Engineering (SAMPE) Europe Conference*, April, Paris, France

2008 – P. Brookbank, **O. Ghita**, M. Barbour, K.E. Evans, “Rheological characterization of a commercial glass poly(vinylphosphonate) cement” , Poster, *Pan European Federation of the International Association for Dental Research (PEF IADR)*, London, September 10-12

2006 – S.K. Tomlinson, **O.R. Ghita**, B. Hooper, K. E. Evans, “Biocements based on Cyanoacrylate Composites and Ionomer Hybrids” Poster, *20th European Conference on Biomaterials*, September, Nantes, France

2004 – **O.R. Dumitrescu** “Examining in-line materials monitoring of injection moulding using near infrared spectroscopy” *Polymer Testing Conference* – Brussels, Belgium

2003 – **O.R. Dumitrescu**, G. Foster “In-line Process Monitoring of Injection Moulding using Near IR Spectroscopy” - *Fifth European Symposium on Near Infrared (NIR) Spectroscopy* - Kolding, Denmark

2003 – **O.R. Dumitrescu** “On-line process monitoring of Composite materials” - *5th International conference on materials for Lean Weight Vehicles* - Warwick Manufacturing Centre, UK

2002 – **O.R. Dumitrescu**, R. Degamber, G.F. Fernando “Non-contact cure monitoring of thermosets“ – Proceedings - *10th European Conference on Composites Materials (ECCM-10)*, June, Brugge, Belgium

2002 - B Degamber, **O. R. Dumitrescu**, C Doyle, GF Fernando, “Microwave processing of thermosets: non-contact cure monitoring and fibre optic temperature sensors” – *UK Conference on Composite Materials* – Newcastle

2002 – **O. R. Dumitrescu**, C. Doyle, G. F. Fernando, “Extending Differential Scanning Calorimetry to Include Non-Contact Vibrational Spectroscopy and Thermal Expansion Analyses”, Sept 2002, *30th Annual Conference North American Thermal Analysis Society (NATAS)*, Pittsburg, PA

1999 – **O.R. Dumitrescu**, G.F. Fernando “A comparative study on the cure of DGEBA/DDS via thermal and spectroscopic methods” – The 11th Romanian International Conference on Chemistry and Chemical Engineering – “Politehnica” University of Bucharest - Romania

PATENTS:

British Patent Application No 0810543.9 - SMC Line for Recycled Fibre Introduction
Inventors: James Palmer; Oana Ghita