Report of President 2011/2012 - School of Mechanical & Materials Engineering

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Peer Reviewed Journals

Dr Eamonn Ahearne


Dr David Browne


Dr Denis Dowling


**Professor David Fitzpatrick**


**Mr Manuel Andres Forero Rueda**


**Professor Michael D Gilchrist**


Professor Alojz Ivankovic


**Professor Chen-Ching Liu**


**Dr Neal Murphy**


Mohan, J., Karac, A., Murphy, N. and Ivankovic, A. (2012) 'An experimental and numerical investigation of the mixed-mode fracture toughness and lap shear strength of


**Dr William O'Connor**


**Dr Feidhlim O'Neill**


**Dr Malachy O'Rourke**


**Dr William Smith**


**Dr Kenneth Thomas Stanton**


Other Journals

**Dr Eamonn Ahearne**


Conference Publications

**Dr Eamonn Ahearne**


**Dr David Browne**


Mooney, R.P., McFadden, S., Rebow, M., Browne, D.J. (2012) A front tracking model of the MAXUS-8 microgravity solidification experiment on a Ti-45.5at.%Al-8at.%Nb alloy IOP Conf. Series: Materials Science and Engineering, 27, 012020


Mr Patrick Connolly

S., Keaveney, G. Byrne, E. Ahearne, P. Connolly; (2011) Curve Interpolation In Cnc Machining . In: Dr P Young, Dr J Geraghty eds. International Manufacturing Conference IMC-28, DCU, Dublin, 9 - 17

Dr Denis Dowling


Stephen Sheehan, JMD MacElroy, K Ravi Thampi and Denis P Dowling (2012) Transparent conducting thin films of FTO deposited by dip coating and spray techniques SmartSurfaces2012: Solar & Biosensor Applications,

A. Dembele, M. Rahman, J.M. D. Macelroy, D. P. Dowling (2012) Microwave plasmas sintering to achieve enhanced power conversion efficiency of tio2 photoelectrodes used in dye sensitized solar cells (DSSC) SmartSurfaces2012: Solar & Biosensor Applications,

Binh H. Q. Dang, Mahfujur Rahman, Don MacElroy, and Denis P. Dowling (2012) Microwave plasma treatments for the fabrication and processing of photoactive undoped and carbon-doped TiO2 coatings SmartSurfaces2012: Solar & Biosensor Applications,


**Dr Donal Patrick Finn**


**Professor David Fitzpatrick**


OKane, C., Courtis, P., FitzPatrick, D (2012) Using 3D Imaging for Clincial Assessment Automated Biomechanical Classification of Joint Geometry *Proceedings of the 18th Annual Conference of the Section of Bioengineering of the Royal Academy of Medicine in Ireland*.


**Professor Michael D Gilchrist**
Gilchrist, M.D (2012) Use of team assignments in engineering mechanics to educate large cohorts of undergraduate students *XXIII ICTAM Congress*, Beijing, China.

Zhang, N., Browne, D.J. & Gilchrist, M.D (2012) Injection moulding of polymers with micro and nano scale ridge and channel features *XXIII ICTAM Congress*, Beijing, China.


**Dr Vincent Joseph Hargaden**


**Professor Alojz Ivankovic**

Declan Carolan, Declan McNamara, Patricia Alveen, Neal Murphy, Alojz Ivanković (2012) Effect of Microstructure on the fracture toughness of polycrystalline diamond & polycrystalline cubic boron nitride *19th European Conference on Fracture (ECF19)*, Kazan, Russia.


**Dr William O'Connor**


with strong external disturbing forces The 2nd Joint International Conference on Multibody System Dynamics, Stuttgart, Germany,
William J. O'Connor, Ming Zhu (2012) Boundary-controlled travelling and standing waves in cascaded lumped systems The 2nd Joint International Conference on Multibody System Dynamics, Stuttgart, Germany,

Other Publications

Dr Denis Dowling