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Research Interest	Phd elastomers and magnetic fields Physics chemistry mechanical engineering focusing on materials
Publications	<p>1) Dave Gorman, Niall Murphy, Ray Ekins, and Stephen Jerrams The evaluation of the effect of strain limits on the physical properties of Magnetorheological Elastomers subjected to uniaxial and biaxial cyclic testing. International Journal of Fatigue 103:p 1-4</p> <p>2) Dave Gorman, Niall Murphy, Ray Ekins, and Stephen Jerrams The evaluation and implementation of magnetic fields for large strain uniaxial and biaxial cyclic testing of Magnetorheological Elastomers. Polymer Testing, 2016. 51: p. 74-81.</p> <p>3) Polar exploration (University Focus) Research into smart materials continues at the University of Dublin with the development of methods to record and present data to demonstrate the magnetorheological effect when a magnetic field is applied to a MR elastomer sample by Dave Gorman, Niall Murphy and Ray Ekins, Tire Technology International 2017: 48-51.</p> <p>4) Dave Gorman, Stephen Jerrams, , Ray Ekins, and Niall Murphy Generating a uniform magnetic field suitable for fatigue testing magnetorheological elastomers using the bubble inflation method. Constitutive Models for Rubber VIII, CRC Press: 671-675</p> <p>5) Dave Gorman, Stephen Jerrams, Ray Ekins, and Niall Murphy Magnetic Field Design Reliable Data for Magnetic Field Design in Magnetorheological Elastomer Damping Applications is Essential for Accurate and Cost-Efficient Operation Tire Technology International 2012: 20-22.</p> <p>6) Dave Gorman, Stephen Jerrams , Ray Ekins, and Niall Murphy Creating a uniform magnetic field for the equi-biaxial physical testing of magnetorheological elastomers; electromagnet design, development and testing. Constitutive Models for Rubber VII, CRC Press: 403-408</p> <p>•</p>