

## Fellowship

**THE FOLLOWING STAFF MEMBERS OF THE SCHOOL OF ENGINEERING HAVE BEEN ELECTED TO FELLOWSHIP:**

### **Dr. Daniel Kelly**



Daniel Kelly received his BAI degree in 1999 and his PhD degree in 2004 from Trinity College Dublin. After receiving his doctorate he moved into industry, working as a research and development engineer in the medical device sector. He is currently a Lecturer in Biomechanical Engineering and a Principal Investigator at the Trinity Centre for Bioengineering. His research interests are in the area of computational and experimental mechanobiology, focusing on the applications this emerging discipline is having on cartilage tissue engineering and the design and pre-clinical evaluation of next generation medical devices.

In 2008, Dr Kelly was the sole recipient of the President of Ireland Young Researcher Award to fund a research program investigating the mechanobiology of mesenchymal stem cells for articular cartilage repair. In 2009 he received a Fulbright Award to take a sabbatical position as a Visiting Research Scholar at the Department of Biomedical Engineering in Columbia University, New York.

### **Dr. Brendan O'Kelly**

Brendan O'Kelly is a Chartered Engineer and specialist in geotechnical and geo-environmental engineering, with over 15 years experience in university teaching, research and innovation. Dr O'Kelly received his BE degree in Civil Engineering (1992), MEngSc (1994) and PhD in geotechnical engineering (2001) from UCD, where he was an Assistant Lecturer in Civil Engineering and later the first Newman Scholar in Civil Engineering. Dr O'Kelly worked for a couple of years with international engineering consultancy Scott Wilson in the UK on the design and construction of the geotechnical works for major infrastructure projects before his appointment as Lecturer in the Department of Civil, Structural and Environmental Engineering at TCD in 2002.

Dr O'Kelly is the author or co-author of more than 70 scholarly articles, of which 28 are journal papers, following his development of advanced geotechnical laboratory apparatus; construction innovation; and his research on the management and safe disposal of municipal and industrial wastes. Dr O'Kelly was made a Fellow of the Institution of Engineers of Ireland in 2008.



## **Dr. Ciarán Simms**

Ciarán Simms is a Lecturer in the Department of Mechanical and Manufacturing Engineering and a Principal Investigator in the Trinity Centre for Bioengineering at Trinity College Dublin. He completed his primary degree and his PhD in the Department of Mechanical Engineering at Trinity College. He worked for two years as a research engineer with Denis Wood Associates forensic engineering company in Dublin and with TNO Automotive in Delft and Detroit, focusing on the development of predictive tools for pedestrian accident reconstruction in the former, and on the development of airbag modules for production vehicles in the latter.



Since returning to Trinity College in 2001, Dr Simms' main research interests have remained in impact biomechanics, with a focus on the safety of vulnerable road users (especially pedestrians and wheelchair users), and soft tissue mechanics with a focus on constitutive modelling of muscle in compression. He has recently also engaged in medical device design and the application of Universal Design to household appliances.

### **Scholarship**

**THE FOLLOWING SENIOR FRESHMAN ENGINEERING STUDENTS HAVE BEEN ELECTED TO SCHOLARSHIP:**

Rudi O'Reilly Meehan  
Kuanysh Balgazin  
Etienne Corish  
Alan David Irvine  
Eoin Parle  
Jonathan Van de Belt  
Stephen Yates

On behalf of the School of Engineering, congratulations to all!