

# Society for Industrial and Applied Mathematics

United Kingdom and Republic of Ireland Section (SIAM-UKIE)



SIAM-UKIE Newsletter

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## Date for the Diary: 5th SNSCC, May 27, 2016

The 5th SIAM National Student Chapter Conference (SNSCC) will be hosted by the [School of Mathematics, Cardiff University](#), Wales, on May 27, 2016. The event will feature plenary talks and parallel sessions for presentations by [Student Chapter representatives](#). The confirmed plenary speakers are **Prof. René de Borst** (Regius Chair of Civil Engineering and Mechanics, University of Glasgow, Scotland) and **Dr Julie Vile** (NHS Wales).

## 2nd NUI Galway SIAM Student Chapter Conference



The [2nd NUI Galway SIAM Student Chapter Conference](#) was held on December 3, 2015. The conference brought together research students from several Irish Universities, including NUI Galway, University of Limerick, University College Dublin, Dublin

Institute of Technology, and Trinity College Dublin, and international students from UNINA (Naples), Politecnico di Torino (Turin) and Zhejiang University (China). The scientific programme consisted of two plenary talks and several student presentations on topics including: differential privacy, drug delivery, infectious disease modelling, solar collectors, geophysical waves, steel casting, and phase and precession evolution in the Burgers equation. The plenary speakers were **Prof. James Gleeson** (MACSI, UL), who discussed information contagion on social networks, and **Dr Dana Mackey** (DIT) who presented her work on immunosensors and the dynamics of interdisciplinary collaborations. At the end of the conference, **Gary O'Keefe** (University of Limerick) was awarded the prize for the best student talk. This event was generously supported by SIAM, MACSI at the University of Limerick, the Stokes Cluster for Applied Mathematics, and the Mathematics Society at NUI Galway. — *Paul Greaney (Secretary/Treasurer, NUI Galway Student Chapter)*

## AD 2016 —7th International Conference on Algorithmic Differentiation

The [7th International Conference on Algorithmic Differentiation](#) (AD 2016) will be held at Christ Church, University of Oxford, UK, on **September 12-15, 2016**. The conference is targeted at users of algorithmic differentiation (AD) from all application areas (optimization, inverse problems, uncertainty quantification), AD algorithm researchers, and AD tool developers. Advances since the last meeting in 2012 include: differentiation of piecewise-differentiable programs, embedding AD in domain-specific packages, and more extensive use of AD in applications outside of the mainstays of engineering and earth sciences, especially computational finance. Given the proximity of the venue to London's global financial centre, we intend to highlight the role of AD in computational finance. **Oral and poster presentations will be accepted based on 4-page extended abstracts with submission open from January 2016**. Papers based on accepted submissions may be submitted post-conference to a special edition of **Optimization Methods and Software** edited by Andreas Griewank. We thank SIAM and SIAM-UKIE for financial support. — *Dr Shaun Forth (Cranfield University)*

## IMA Mathematics, Thursday 17 March 2016, Mary Ward House, London

[Mathematics 2016](#) is the 10th in the series of annual IMA conferences which aims to demonstrate to both mathematicians and non-mathematicians the many uses of modern mathematics. The invited speakers are as follows: **John Birkenhead** (HJC Actuarial Consultancy Limited), **Noel-Ann Bradshaw** (University of Greenwich); **Peter Clarkson** (University of Kent), **Tracey Cool** (Rolls-Royce), **Sarah Hart** (Birkbeck College, University of London), **Chris Linton** (Loughborough University), **Nigel Peake** (University of Cambridge), **Nigel Steele** (Coventry University), and **James O'Donoghue** (NCTL). For further information please visit <http://tinyurl.com/Maths2016> — *Lizzi Lake (Conference Officer)*

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