

Society for Industrial and Applied Mathematics

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



SIAM-UKIE Newsletter

Number 7, April 2015

Welcome New SIAM-UKIE President and Vice-President

In This Issue



Prof Des Higham, SIAM-UKIE President, 1.IV.2015-31.III.2017

As [SIAM UKIE Section President](#), I will energetically support the full range of SIAM-UKIE activities. In particular, I will draw on my experience of (a) serving as Vice-President of SIAM-UKIE; (b) authoring, refereeing and editing across a range of SIAM's technical and expository outputs; and (c) helping to set up the Strathclyde Student Chapter of SIAM. I currently hold an EPSRC Established Career Fellowship in the area of Data Analytics for Future Cities, and I have a remit to encourage activity in this area across the mathematical sciences. I see this as an exciting and timely field where applied mathematicians can make significant impact. In particular, I am keen to alert graduate students and early career researchers to the opportunities in the future cities arena through the event series and communication channels of SIAM-UKIE.

Dr Jennifer Scott, SIAM-UKIE Vice-President, 1.IV.2015-31.III.2017

As [SIAM-UKIE Vice-President](#), I will be keen to build on the experience I have gained through the LMS Women in Mathematics Committee to encourage women and other underrepresented groups. SIAM has made significant progress in this area but there remains (in the UK at least) a big drop off in the number of women mathematicians progressing from PhDs to postdocs and again from postdocs to junior posts. I want to encourage the careers of young women, both within academia but also within organizations such as STFC and within industry.



- Welcome New SIAM-UKIE President and Vice-President
- Date of 20th SIAM-UKIE Annual Meeting 2016
- Congratulations to UK SIAM Fellows Class 2015
- SIAM-UKIE Student Presentation Prizes 2015
- UK SIAM Chapters Present at CSE15
- SIAM Chapter Events Update

Date for the Diary: 20th SIAM-UKIE Annual Meeting, January 7, 2016

The [20th Annual Meeting of the UK and Republic of Ireland Section of SIAM](#) will be hosted by the Department of Applied Mathematics and Theoretical Physics, University of Cambridge, UK, on **January 7, 2016**. The event will feature high profile keynote and early career speakers, and poster presentations from Student Chapter representatives. Further information will appear on the [event's webpage](#) soon.

Congratulations to SIAM Fellows Class 2015

[Prof Charlie Elliott](#) (Mathematics, University of Warwick) honoured for contributions to the numerical analysis of nonlinear partial differential equations and computational mathematics with applications in mathematical biology, materials science, continuum mechanics, and phase transitions, as well as numerical analysis and applied analysis.

[Prof Rodolphe Sepulchre](#) (Engineering, University of Cambridge) recognized for contributions to nonlinear control, optimization on manifolds, coordination, synchronization, and consensus on nonlinear spaces, and neural behaviours.

SIAM-UKIE Student Presentation Prizes 2015

SIAM-UKIE Student Presentation Prizes are awarded to one or more students who make the most outstanding presentations at a particular conference. The award is based solely on the presentation and content of the student's contribution to the meeting. The purpose of the Student Presentation Prizes is to recognise outstanding scholarship by students in industrial and applied mathematics.

Three SIAM-UKIE Prizes were awarded at [The 4th Joint British Mathematical Colloquium & British Applied Mathematics Colloquium \(BMC/BAMC 2015\)](#) to the following students:

- **Jennifer Jones** (Bath) – Talk title: “Modelling the formation of a bu-prenorphine reservoir in the stratum corneum”.
- **Lyndon Koens** (Cambridge) – Talk title: “Slender ribbon theory”.
- **Oliver Southwick** (UCL) – Talk title: “A point vortex model for the formation of ocean eddies by flow separation”.

A SIAM-UKIE Prize was also awarded at [The 23rd Conference of the Association of Computational Mechanics in Engineering \(ACME-UK 2015\)](#) to:

- **Rogelio Ortigosa** (Swansea) – Talk title: “A variational framework for large strain polyconvex dielectric elastomers”.



Rogelio Ortigosa (left) being awarded the SIAM-UKIE Prize by Prof Kenneth Morgan (right) at ACME-UK 2015.

Three more SIAM-UKIE Prizes will be awarded at [The 26th Biennial Numerical Analysis Conference](#), University of Strathclyde, June 23-26, 2015.

UK SIAM Student Chapters Represented at CSE15 in Salt Lake City

The SIAM Education Committee had invited three SIAM Student Chapter representatives from the UK to present during the [Student Days](#) at the [SIAM Conference on Computational Science and Engineering \(CSE15\)](#) in Salt Lake City, Utah, USA, March 14-18, 2015:

- **Amy Spicer** (Bath) – Presentation: “Interfacial Motion by Mean Curvature in Liquid Crystals”
- **Anne Reinarz** (Reading) – Presentation: “Solving the Heat Equation with Wavelets”
- **Andreas Wachtel** (Strathclyde) – Presentation: “Incompressible Flow and (Stabilised) Mixed Finite Element Methods on Highly Stretched Meshes”

This event also featured a [Career Fair](#) on March 14, 2015, where representatives from non-academic employers from industry and government discussed opportunities for internships, postdoctoral appointments and full-time jobs at their organizations.

SIAM Student Chapter Events Update

[Cambridge SIAM Chapter Launch Conference](#), University of Cambridge, April 27, 2015

[Manchester SIAM Chapter Conference](#), University of Manchester, May 1, 2015

[Strathclyde SIAM Chapter Annual Meeting](#), University of Strathclyde, May 6, 2015

[4th SIAM National Student Chapter Conferences \(SNSCC\)](#), University of Reading, May 29, 2015

[Imperial SIAM Chapter Annual Meeting](#), Imperial College London, June 19, 2015