

# UK and Republic of Ireland Section of SIAM

## ACTIVITIES REPORT 2013 - 2014

### Background

The SIAM-UKIE Section was formed in 1996 by the Society of Industrial and Applied Mathematics (SIAM) with the scope to promote and support applied and industrial mathematics in the UK and the Republic of Ireland.

### Officers

The current SIAM-UKIE officers are as follows:

*President:* Prof Endre Süli (University of Oxford), April 1, 2013 - March 31, 2015;

*Vice-President:* Prof Françoise Tisseur (University of Manchester), April 1, 2013 - March 31, 2015;

*Secretary/Treasurer:* Dr Angela Mihai (Cardiff University), April 1, 2014 - March 31, 2016.

We thank Dr Melina Freitag (University of Bath) for her contribution as Secretary/Treasurer of the Section until March 2014.

*A list of past officers is available at the webpage: <http://www.siam.org/sections/siamukie/archive.php>*

### Members

Membership in the Section is free and automatic for all SIAM members whose residence or principal place of work or study is in the UK or Republic of Ireland.

### Students

In the UK and Republic of Ireland, there are currently 11 Student Chapters of SIAM, who organise their own local events, and there is also a SIAM National Student Chapter Conference (SNSCC) organised every year since 2012.

Most recently, the first Student Chapter was formed in the Republic of Ireland, at the National University of Ireland Galway (<http://www.siam.org/students/chapters/current/nui.php>). Two new Student Chapters were also formed in 2014 at Imperial College London and University of Cambridge, respectively. The other Student Chapters in the UK are based at the following Universities: University of Bath (England), Cardiff University (Wales), Heriot-Watt/Edinburgh Universities (Scotland), University of Manchester (England), University of Oxford (England), University of Reading (England), University of Strathclyde (Scotland), University of Warwick (England).

The 3rd SNSCC was organised by the Oxford University Student Chapter and held on May 28, 2014 at the Mathematical Institute, University of Oxford (<http://www.siamoxford.com/snscc-2014>). This very successful event was reported on in detail in the August Issue of the SIAM-UKIE Newsletter (<http://blogs.cardiff.ac.uk/siamukie/news-events>).

This year, a SIAM Student Paper Prize was awarded to Iain Smears, a D.Phil. student at the Mathematical Institute, University of Oxford, during the course of the 2014 SIAM Annual Meeting, July 7-11, in Chicago, Illinois.

Two student chapter representatives from the UK were also invited by the SIAM Education Committee to present during the Student Days at the SIAM Annual Meeting in Chicago. The names of all the UK student representatives were announced in the June Issue of the SIAM-UKIE Newsletter and on the Section's webpage: <http://blogs.cardiff.ac.uk/siamukie>.

In addition, seven UK student chapter members received SIAM Certificates of Recognition 2014.

## Fellows

This year, Prof Nancy Nichols of the University of Reading was elected SIAM Fellow for her contributions to the numerical analysis of systems, control, and data assimilation.

## Newsletter

From April 2014, the SIAM-UKIE Section maintains a bimonthly newsletter which is designed to promote contact and to further facilitate the dissemination of information between SIAM members from different areas in the UK and Republic of Ireland.

The April, June, and August 2014 Issues were circulated via email to the members of the SIAM-UKIE community and made available also on the SIAM webpage: <http://www.siam.org/sections/siamukie>

The newsletter, which was very well received nationally, was also announced more widely to the SIAM community in the SIAM Blogs article: <http://blogs.siam.org/siam-ukie-new-media-to-help-increase-impact-of-members-activities-in-the-wider-community-2>

## Annual Sectional Meeting

SIAM-UKIE Section held its 18th Annual Meeting on January 9, 2014 at the University College London. A report on the meeting is available for download from the archive webpage, and can also be downloaded from the Section's current webpage: <http://blogs.cardiff.ac.uk/siamukie/annual-meetings>.

## Sponsored Activities

In 2014, the Section contributed with funding to the following scientific meetings:

- British Applied Mathematics Colloquium, Cardiff University, April 28-30, 2014. The Section sponsored 5 prizes for the best presentations by graduate students. The names of the prize winners and the titles of their presentations appeared in the June Issue of the SIAM-UKIE Newsletter, and were also announced on the Section's webpage: <http://blogs.cardiff.ac.uk/siamukie>.
- The 3rd SIAM National Student Chapter Conference, University of Oxford, May 28, 2014.
- Sponsorship of one SIAM speaker at the 4th Biennial IMA Conference on Numerical Linear Algebra and Optimisation, University of Birmingham, September 3-5, 2014.

## Planned Future Activities

The 19th SIAM-UKIE Annual Meeting will be held on January 8, 2015 at the University of Bath (<http://blogs.cardiff.ac.uk/siamukie/annual-meetings>). The programme of the meeting will be based on 6 plenary talks on different topics of interest to a varied audience of established and young researchers in applied and industrial mathematics, and a poster session by graduate students.

- For the first time, this year, the Section would also like to invite every SIAM Student Chapter in the UK and Republic of Ireland to delegate one student representative to this meeting, and we would offer some funding support for the travel expenses of these delegates. In addition, there will be no registration fee for participating students, but all students will be encouraged to contribute a poster presentation.

A contiguous IMA Conference on Research in Mathematics and its Applications will be held on January 9, 2015 to further strengthen the links between the two Societies, as in the preceding year. All participants will be encouraged to attend both events.

The Section will continue to promote its aims by providing support for other initiatives and events that bring together SIAM members from different fields in the UK and the Republic of Ireland, including:

- Sponsorship of several student prizes at the following meetings:
  - The Joint Meeting of the British Mathematical Colloquium (BMC) and British Applied Mathematics Colloquium (BAMC), University of Cambridge, March 30 - April 2, 2015;
  - The 26th Biennial Conference on Numerical Analysis, University of Strathclyde, June 23-26, 2015.
- Sponsorship for the 4th Annual SIAM National Student Chapter Conference, May 2015.
- Sponsorship of one SIAM speaker at the Young Researchers in Mathematics Conference, University of Oxford, August 17-20, 2015.
- Sponsorship of one SIAM speaker at another scientific meeting, as requested.

**New elections for SIAM-UKIE President and Vice-President will be held at the beginning of 2015.**

August 28, 2014

Endre Süli, President SIAM-UKIE

Françoise Tisseur, Vice-President SIAM-UKIE

Angela Mihai, Secretary/Treasurer SIAM-UKIE