

UK and Republic of Ireland Section of SIAM

ACTIVITIES REPORT 2014 - 2015

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 Desmond Higham (University of Strathclyde, April 1, 2015 - March 31, 2017;

Vice-President: Dr Jennifer Scott (STFC Rutherford Appleton Laboratory), April 1, 2015 - March 31, 2017;

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

We thank Prof Endre Süli (University of Oxford) and Prof Françoise Tisseur (University of Manchester) for their contributions as President and Vice-President of the Section, respectively, until March 2015.

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.

These Student Chapters are based at the following Universities: University of Bath (England), University of Cambridge (England), Cardiff University (Wales), Heriot-Watt/Edinburgh Universities (Scotland), National University of Ireland Galway (Ireland), Imperial College London (England), University of Manchester (England), University of Oxford (England), University of Reading (England), University of Strathclyde (Scotland), University of Warwick (England).

The 4th SNSCC was organised by the Reading University Student Chapter and held on May 29, 2015. This event was reported on in detail in the June 2015 issue of the SIAM-UKIE Newsletter.

Three student chapter representatives from the UK were invited by the SIAM Education Committee 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. The names of all the UK student representatives were announced in the April 2015 Issue of the SIAM-UKIE Newsletter and on the Section's webpage: <http://sites.cardiff.ac.uk/siamukie/student-chapters/>.

Eight student chapter members received SIAM Certificates of Recognition 2015. Their names were publicised in the June 2015 Issue of the SIAM-UKIE Newsletter and on the Section's webpage: <http://sites.cardiff.ac.uk/siamukie/student-chapters/>.

Fellows

This year, Prof Charlie Elliott (Mathematics, University of Warwick) and Prof Rodolphe Sepulchre (Engineering, University of Cambridge) were elected SIAM Fellow. We also announced this in the April 2015 Issue of the SIAM-UKIE Newsletter.

Newsletter

The SIAM-UKIE Section continues to maintain a bimonthly newsletter (first issued in April 2014) 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.

Annual Sectional Meeting

SIAM-UKIE Section held its 19th Annual Meeting on January 8, 2015 at the University of Bath. This very successful event was reported on in detail in the February 2015 issue of the SIAM-UKIE Newsletter. A contiguous IMA Conference on Research in Mathematics and its Applications was held at the University of Bath on January 9, 2015.

Sponsored Activities

In 2015, the Section contributed with funding to the following scientific meetings:

- The 4th Joint British Mathematical Colloquium and British Applied Mathematics Colloquium (BMC/BAMC 2015), University of Cambridge, 2015. The Section sponsored 3 prizes for the best presentations by graduate students. The names of the prize winners and the titles of their presentations appeared in the April 2015 Issue of the SIAM-UKIE Newsletter, and were also announced on the Section's webpage: <http://sites.cardiff.ac.uk/siamukie/announcements/>.
- The 23rd Conference of the Association of Computational Mechanics in Engineering (ACME-UK 2015), Swansea University, 2015. The Section sponsored 1 prize for the best presentations by graduate students. The name of the prize winner and the title of the presentation also appeared in the April 2015 Issue of the SIAM-UKIE Newsletter, and was announced on the Section's webpage.
- The 26th Biennial Numerical Analysis Conference, University of Strathclyde, 2015. The Section sponsored 3 prizes for the best presentations by graduate students. The names of the prize winners and the titles of their presentations appeared in the August 2015 Issue of the SIAM-UKIE Newsletter, and were announced on the Section's webpage.
- The 7th International Conference on Algorithmic Differentiation, University of Oxford, 2015. The Section sponsored 1 prize for the best presentation by graduate students. The name of the prize winner and the title of the presentation will appear in the October 2015 Issue of the SIAM-UKIE Newsletter, and will also be announced on the Section's webpage.
- The 4th SIAM National Student Chapter Conference, University of Reading, May 2015.
- Sponsorship of one SIAM speaker at the Young Researchers in Mathematics Conference, University of Oxford, August 2015.

Planned Future Activities

The 20th SIAM-UKIE Annual Meeting will be held on January 7, 2016 at the University of Cambridge, where the local organisation team is led by Prof Arieh Iserles (<http://sites.cardiff.ac.uk/siamukie/20th-anniversary/>). The event will feature four high profile keynote and three early career speakers, and poster presentations from Student Chapter representatives. The confirmed speakers are: Prof Pam Cook (University of Delaware, SIAM President); Prof Martin Hairer, FRS (University of Warwick, UK); Dr Jasmina Lazic (Mathworks Application Engineering, UK); Dr Sarah Mitchell (University of Limerick, Ireland); Dr Jennifer Pestana (University of Manchester, UK); Prof Simon Tavar, FRS, FMedSci (Cancer Research UK Cambridge Institute & DAMTP); Prof Barbara Wohlmuth (Technische Universitt Mnchen). This year, IMA will be sponsoring one of the keynote speakers at the SIAM-UKIE Annual Meeting.

- As in the previous year, the Section will invite every SIAM Student Chapter in the UK and Republic of Ireland to delegate one student representative to this meeting, and we 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.

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 British Applied Mathematics Colloquium (BAMC), University of Oxford, April 2016.
 - Another scientific meeting as requested.
- Sponsorship for the 5th Annual SIAM National Student Chapter Conference, Cardiff University, May 2015.
- Sponsorship of one SIAM speaker at one scientific meeting, as requested.

New elections for SIAM-UKIE Secretary/Treasurer will be held at the beginning of 2016.

August 11, 2015

Prof Des Higham (President SIAM-UKIE)

Dr Jennifer Scott (Vice-President SIAM-UKIE)

Dr Angela Mihai (Secretary/Treasurer SIAM-UKIE)