

# SIAM UKIE ACTIVITIES REPORT 2016–2017

## 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

*President:* Prof. Ivan Graham (University of Bath), April 1, 2017–March 31, 2019;

*Vice-President:* Dr John MacKenzie (University of Strathclyde), April 1, 2017–March 31, 2019;

*Secretary/Treasurer:* Dr Stefan Güttel (The University of Manchester), April 1, 2016–March 31, 2018.

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

## Members

Membership of 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

There are currently 12 SIAM UKIE Student Chapters 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 Limerick (Ireland)**, University of Manchester (England), University of Oxford (England), University of Reading (England), University of Strathclyde (Scotland), University of Warwick (England).

The new Student Chapter at the University of Limerick has been founded in 2016 and held its inaugural conference in December 2016.

The Section promotes and supports the founding of further Student Chapters. Most recently, members at the University of Nottingham and the University of Leeds have signaled interest in founding a chapter and they are now collecting the required signatures.

All SIAM UKIE Student Chapters are very active, organizing their own local events and activities. Some examples taken from the recently created SIAM UKIE blog are listed below, with clickable **links** in the electronic PDF version of this document:

- Organization of local annual conferences, for example, by the Student Chapters at the University of Reading ([link](#)) with 2 invited speakers, at Imperial College London ([link](#)) with 4 invited speakers, at the University of Oxford ([link](#)) with 2 invited speakers, at the University of Manchester ([link](#)) with 4 invited speakers, and at the University of Bath ([link](#)) with 2 invited speakers.
- The “Full STEAM Ahead” and “Three Minute Thesis” events organized by the Cardiff SIAM-IMA Student Chapter (see [link 1](#) and [link 2](#), respectively).
- The “AutoTrader Problem Solving Event” by the Manchester SIAM-IMA Chapter ([link](#)).
- The “Careers Evening” organized by the Chapter at NUI Galway ([link](#)).

In addition to these activities, one of the chapters hosts an annual SIAM National Student Chapter Conference (SNSCC) since 2012. These conferences allow students to interact across universities. The 6th SNSCC was organized by the Student Chapter at NUI Galway. It was held on May 26, 2017 as the first SNSCC meeting to take place in Ireland. Due to the generous support of SIAM significant travel support was available for chapter representatives coming from outside Ireland. See here for more details:

<https://siamukie.wordpress.com/2017/03/29/galway-travel-awards/>.

Several Student Chapter representatives from the UK were invited by the SIAM Education Committee to present their work at the SIAM Annual Meeting (AN17) in Boston, Massachusetts, USA, 2017. One of the participating students wrote about his experience:

<https://siamukie.wordpress.com/2017/07/21/a-cardiff-perspective-of-an17/>

Student Chapters from different countries were asked to make 5-minute videos to be shown at the SIAM Annual Meeting (AN18) in Pittsburgh. The student chapters in Bath and Galway represented the UK and Ireland, respectively, and their videos have been shown during the Past President's Address: [https://www.pathlms.com/siam/courses/4988/sections/7423/video\\_presentations/74516](https://www.pathlms.com/siam/courses/4988/sections/7423/video_presentations/74516)

Members of eight UKIE Student Chapters received SIAM Certificates of Recognition 2017. Their names were publicized on the SIAM UKIE blog:

<https://siamukie.wordpress.com/2017/08/21/sc-certificates/>.

## **Fellows**

This year, SIAM UKIE member Rama Cont (Imperial College London) was elected SIAM Fellow.

## **New website, blog and social media activities**

Since April 2016, the SIAM UKIE Section has had a new website at <http://maths.manchester.ac.uk/siam-ukie>, including the WordPress blog <https://siamukie.wordpress.com> which by now is an established outlet for our Section members to publish their own posts, including the possibility to upload photos, videos, and other multimedia content as appropriate. Each post is under editorial review and edited before publication. Also, since 2016, the Section has had its own Twitter account [http://twitter.com/SIAM\\_UKIE](http://twitter.com/SIAM_UKIE). This account currently has 164 followers (up from 99 last year) and is mainly used to draw attention to new blog posts and for retweeting UKIE relevant news.

## **Newsletter**

The SIAM UKIE Section continues to send newsletters compiled from the most recent posts on the SIAM UKIE blog. These newsletters successfully serve the purpose of "staying in touch" with our members and to further facilitate the dissemination of information among members from different areas in the UK and the Republic of Ireland.

## **Annual Sectional Meeting**

The 21st Anniversary Meeting of the UK and Republic of Ireland Section of SIAM was held on January 12, 2017 at the Department of Mathematics and Statistics of the University of Strathclyde. The local organizer was Prof. Des Higham. The event featured high-profile keynote and early career speakers, and poster presentations. For the first time, travel awards have been given out on merit (and not automatically to all student chapter representatives) and dependent on the distance of travel. This resulted in high-quality posters by as many as 23 students, significantly more than in previous years. More details on <https://siamukie.wordpress.com/2017/02/03/report-on-2017-annual-meeting/>.

## Other Sponsored Activities

In 2017, the Section contributed with funding to the following scientific meetings:

- Three prizes for the best student talks/posters at the British Applied Mathematics Colloquium (BAMC), University of Surrey, April 10–12, 2017: <http://www.surrey.ac.uk/mathsbamc/>;
- Sponsorship of the Young Researcher Minisymposium (YRM2017) at the University of Kent, August 1–4, 2017: <https://blogs.kent.ac.uk/ym-kent/>;
- Student prizes at the 27th Biennial Conference on Numerical Analysis, University of Strathclyde, June 27–30, 2017: conference report.
- Student prizes at the SciCADE International Conference on Scientific Computation and Differential Equations, University of Bath, September 11–15, 2017: <https://sites.google.com/site/scicade2017/>;

## Planned Future Activities

The 22nd SIAM UKIE Annual Meeting will be held on January 11, 2018 at the University of Southampton, where the local organization team is led by Dr Alain Zemkoho: <http://maths.manchester.ac.uk/siam-ukie/meetings.html>.

The Annual Meeting will feature five distinguished speakers, and poster presentations from Student Chapter representatives. The confirmed speakers are: Frederic Dias (University College Dublin), Jacek Gondzio (University of Edinburgh), Gunnar Martinsson (University of Oxford), Ruth Misener (University College London), and Aretha Teckentrup (University of Edinburgh).

As in 2016, the Section will invite SIAM UKIE Student Chapters to delegate student representatives to this meeting, and we will offer some funding for the travel expenses of students with a poster presentation. There will be no registration fee for this meeting.

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

- Three prizes for the best student talks/posters at the British Applied Mathematics Colloquium (BAMC), University of St Andrews, June 11–14, 2018: <http://www.mcs.st-and.ac.uk/~bmc2018/>;
- Sponsorship for the 7nd Annual SIAM National Student Chapter Conference, University of Bath, June 18–19, 2018: <http://people.bath.ac.uk/br275/siam-ima/SNSCC-2018/>;
- Sponsorship of SIAM speakers at up to two other scientific meetings, as requested.

## New Elections

Elections for SIAM UKIE Secretary/Treasurer role will be held beginning of 2018.

Prof. Ivan Graham (President)

Dr John Mackenzie (Vice-President)

Dr Stefan Güttel (Secretary/Treasurer)

September 12, 2017