

# ANALYTICAL MATTERS



ISSUE 6 – WINTER EDITION 2017

---

Welcome to the sixth issue of Analytical Matters, the e-newsletter of the Analytical Division of the Royal Society of Chemistry. It aims to showcase the wide range of analytical science activities being run across the Royal Society of Chemistry Analytical Division by the various analytical member groups as well as linking with parts of the UK analytical community beyond our membership.

This is my first year as the Analytical Division President and a number of exciting opportunities and ventures are on the horizon for analytical chemistry within the United Kingdom and further afield. The development of the Community for Analytical Measurement Science (CAMS UK) is gaining momentum and the structure and governance is starting to evolve. The engagement with industry partners has been successful so far and engagement with the academic community will take place at an open forum on the 19<sup>th</sup> February where any interested academic parties are invited to come and learn more about the opportunity to be involved in this analytical community. This is probably one of the most significant ventures in analytical sciences within the UK in recent years and one in which we can bring together the whole analytical community to work together, providing greater training opportunities as well as greater research opportunities for both industry and academic based scientists.

Another area on the horizon is the Spring SciX meeting presented as part of the FACSS Conference Series. The RSC and Analytical Division are members of the federation and contribute very strongly to the annual SciX Conference in North America. In 2018 we have the first non-North American-based SciX, called Spring SciX, which will be held in Glasgow from 17<sup>th</sup>-20<sup>th</sup> April with the focus on early career researchers across all areas of analytical science. Later on in the year we will be supporting the annual Emerging Analytical Professionals conference for early career researchers, ran by the Analytical Science Network, and hosting the Analytical Research Forum at the RSC in London, providing an excellent arena for analytical scientists to share their work.

The Analytical Division Council has changed composition and we thank our previous members for their valued service and commitments and we look forward to working with the new members who bring fresh thinking and different skills to the Council which will stand us in good stead moving forward.

Wishing you all a Merry Christmas and a happy new year,

**Duncan Graham FRSC**

President, RSC Analytical Division



## UPCOMING EVENTS

*A selection of analytical events coming up in the next few months*

### **HTC-15**

24-26<sup>th</sup> January 2018, Cardiff  
[more information](#)

### **4<sup>th</sup> BMSS Ambient Ionisation Meeting**

31<sup>st</sup> January 2018, Bracknell  
[more information](#)

### **4th #RSCPoster Twitter Conference**

6<sup>th</sup> February 2018, online

### **Introduction to Validation**

8<sup>th</sup> March 2018, Reading  
[more information](#)

### **Analytical Research Forum**

20<sup>th</sup> June 2018, London  
[more information](#)

### **Emerging Analytical Professionals 2018**

11<sup>th</sup>-13<sup>th</sup> May 2018, Knutsford  
[more information](#)

## AVAILABLE RESOURCES

### **Analytical Methods Committee Technical Briefs**

Technical information on a wide range of analytical techniques, found [here](#)

### **RSC online CPD**

[Log](#) your continuing professional development

## EVENTS

### **Spring SciX 2018 abstract submission and registration now open**

Spring SciX 2018 will take place at the Technology and Innovation Centre at the University of Strathclyde in Glasgow, Scotland April 17-20, 2018. Spring SciX is a UK-based meeting of the successful SciX series, covering a wide range of analytical chemistry research, with a focus on early career researchers. Join leaders in the analytical sciences as they present progress on emergent topics, meet with exhibitors, and networks over four days in Glasgow. Register or submit an abstract [here](#).

Spring SciX will highlight progress on emergent research topics related to analytical chemistry, including molecular spectroscopy, Raman Spectroscopy, mass spectrometry, infrared (IR) spectroscopy, surface plasmon resonance (SPR), process analytical chemistry, fluorescence, bioanalytical and biomedical, and analytical sciences. In addition, Spring SciX aims to provide Early Career Researchers an opportunity to share their work and present their vision for the future of the field. Over 80 early career researcher bursaries are available to support attendance.

### Opening Plenary

**Prof Chris Elliott** – Queens University Belfast

*The Major Role of Analytical Chemistry in Protecting the Integrity of the Global Food System*

### Deadlines for abstract submissions:

Oral presentation      8<sup>th</sup> January

Poster presentation      2<sup>nd</sup> February



## EVENTS

### 15th International Symposium on Hyphenated Techniques in Chromatography and Separation Technology

HTC-15 will be the premier analytical sciences meeting in the UK for 2018, and is being organised by the Royal Society of Chemistry Separation Science Group, together with the Royal Flemish Chemical Society (KVCV). The conference will take place in the historic city of Cardiff, at Cardiff City Hall, the centrepiece of one of the world's finest civic centres and an area of impressive buildings, landscaped gardens and tree-lined avenues. The meeting will include 5 plenary lectures, 16 keynote lectures, 8 tutorial lectures, 48 oral presentations, and daily poster sessions, and will be preceded by two day-long short courses, one of supercritical fluid chromatography and the other on biopharmaceutical analysis. The conference programme includes sessions on big data in the analytical sciences, fundamental principles of separation science, recent advances in biopharmaceutical analysis, the analysis of food and drink, environmental analysis, comprehensive chromatography and many more current topics relevant to the separation scientist.

The sessions feature a mixture of academic, industrial and early-career speakers, and are interspersed with plenary lectures presented by luminaries such as Prof Rob Beynon (University of Liverpool), Prof Tuulia Hyotylainen (Örebro University), Dr Eric Little (Othus Inc.), Prof Peter Schoenmakers (University of Amsterdam), and the most recent winner of the Knox Medal, Prof Peter Myers (from the University of Liverpool). There will also be a dedicated early-career researcher (ECR) session, with 24 ECR presentations. We have successfully secured sponsorship for ECRs and will be able to offer free registration for presenters in this session. Alongside the core scientific programme, the symposium will host an attractive technical exhibition where companies active in the field will present their latest developments in instrumentation, software and applications related to the hyphenation of separation, detection and sample preparation techniques, as well as technical seminars.

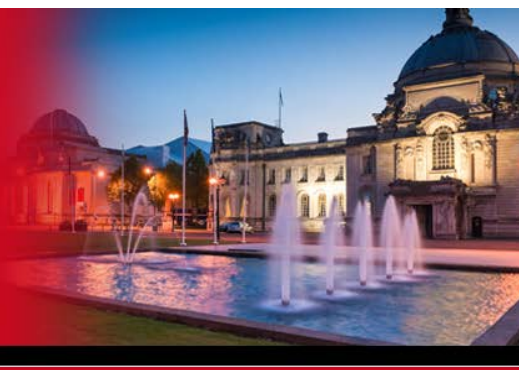
Complete details of the scientific programme, travel and accommodation, ECR bursaries, and registration information can be found at <https://www.ilmexhibitions.com/htc/>. We look forward to seeing you in Cardiff in January!

*Submitted by Dr. Arundhuti Sen*

# HTC-15

24<sup>th</sup> - 26<sup>th</sup> January 2018  
Cardiff, UK

15th International Symposium on  
**Hyphenated Techniques in Chromatography  
and Separation Technology**



## EVENTS

---

### Emerging Analytical Professionals Conference, 11th - 13th May 2018, Knutsford

The Analytical Science Network presents:

#### The Circle of Life: Analysing the world around us

### CALL FOR EARLY CAREER SPEAKERS & POSTER PRESENTERS

– Please submit an abstract

**Deadlines:**

**Oral abstract - 31st January 2018**

**Poster abstract - 31st March 2018**

Building on the success of previous events, the EAP weekend provides networking and Continuing Professional Development (CPD) opportunities for early career analytical scientists across all disciplines, open to both industry and academia. Each year we include general interest talks as well as specialist lectures, CPD and back to basics sessions.

Our 2018 theme, 'The Circle of Life - Analysing the World Around Us' describes how analytical science allows us to observe the world and its attributes. This may be natural or artificial properties, and thus includes topics such as Analytical Chemistry, Clinical Science, Environmental, Forensic, and several other topics. This conference aims to facilitate sharing of knowledge and experience between a diverse group of analytical scientists. For more information at [www.analyticalsciencenetwork.co.uk](http://www.analyticalsciencenetwork.co.uk).

We are currently looking for speakers, all analytical science presentations will be considered but we would particularly welcome presentations related to our theme 'The Circle of Life'.

#### Keynote speakers

Our keynote speakers for EAP 2018 are:

- **Dr Matt Baker**, University of Strathclyde - "Tumours, Translation, Trials & Tribulations: Developing serum based spectroscopic disease diagnostics"
- **Dr Bhavik Patel**, University of Brighton - "From development to ageing: the life cycle of chemical signalling in the intestinal tract"

#### Bright Spark presenters

We are looking for 'Bright Sparks' to present a 20-minute talk (including questions); the subject may be related to their current research or job role. The 'Bright Spark' category is for early career industry professionals or researchers (including PhD students) who might not have presented to a large audience before. Outstanding presentations are awarded prizes of £150 donated by EAP sponsors. Standard registration fees apply but we do have several bursaries that can be applied for. We will require an abstract for your presentation by 31<sup>st</sup> January 2018.

#### Poster presenters

We also encourage delegates to present posters detailing their work or research. Poster presenters give a 1-minute pitch during the conference, summarising their work. We strictly adhere to the pitch time limit as the ability to talk clearly and concisely under pressure is a useful skill to master. Prizes of £50 are awarded to authors of exceptional posters and good summarisers; the prize money is donated by EAP sponsors.

Standard registration fees apply but we do have several bursaries that can be applied for. We will require an abstract for your poster by 31<sup>st</sup> March 2018.

To submit an oral (Bright Spark) or poster abstract  
please visit <https://www.analyticalsciencenetwork.co.uk/eapregistration>

Please contact Charlie Davis (ASN Chair) for more information about  
bursaries [info@analyticalsciencenetwork.co.uk](mailto:info@analyticalsciencenetwork.co.uk)

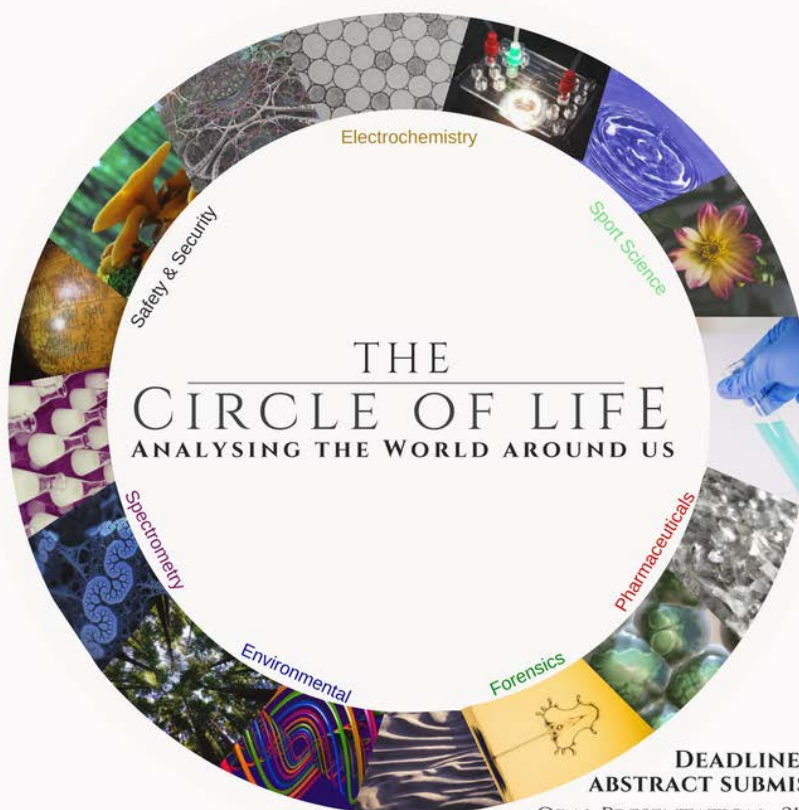
For any other information, please contact Arun Kamath (EAP 2018 Conference  
Chair) [info@analyticalsciencenetwork.co.uk](mailto:info@analyticalsciencenetwork.co.uk)

## EMERGING ANALYTICAL PROFESSIONALS 2018

11 - 13TH MAY 2018

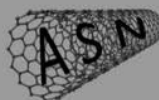
COTTONS HOTEL AND SPA, KNUTSFORD

An all inclusive weekend conference aimed at early career analytical scientists and  
researchers in industry and academia



**DEADLINES FOR  
ABSTRACT SUBMISSION:**  
ORAL PRESENTATION - 31.01.2018  
POSTERS - 31.03.2018  
BURSARIES AVAILABLE

With emphasis on continual professional development activities, back-to-basics technique  
workshops and general interest presentations, alongside networking opportunities



**Analytical Science Network**

Supporting early career analysts

To register visit:  
[www.analyticalsciencenetwork.co.uk](http://www.analyticalsciencenetwork.co.uk)  
For enquiries email:  
[info@analyticalsciencenetwork.co.uk](mailto:info@analyticalsciencenetwork.co.uk)



## A SPECIAL THANK YOU

---

### David Ferguson retires from the Analytical Chemistry Trust Fund after 20 years' service



David enjoying a spot of Belgian beer

At the end of December, David Ferguson CChem FRSC will retire as Secretary to the Analytical Chemistry Trust Fund: a role he commenced exactly 20 years ago. A proud Scot, he read Chemistry at the University of Strathclyde, Glasgow graduating in 1970 followed by a PhD in the same department and then he took a side move gaining a Certificate in Education at Jordanhill College of Education, Glasgow. However, education clearly does not appear to have been to his liking and in 1974 he moved south joining BP Research at what was often called the 'University of Sunbury'. There he rose to being Manager, Spectroscopy and Separations Branch with 60-70 staff and being the Deputy to the NMR spectroscopist Professor Kenneth Packer FRS. He later joined the BP venture research unit of BP International, London. Like so many the shake out in BP in the 1990 caused him to move into

consultancy in 1992 taking roles with the EPSRC, DEFRA and many others.

In 1997 he was appointed to a new role in the ACTF, which was at that time starting to develop clear strategies for Analytical Chemistry in the UK and elsewhere. Importantly this role was partnered with work for RSC-AD. In his new position David was responsible for implementing the wishes of the ACTF Trustees in such initiatives has the joint PhD programme with the EPSRC, the competition for Analytical Chairs in Universities. There are many more routine tasks such as calling and minuting the Trustee's meetings, funding the School's Analyst competition and analytical region funds as well as maintaining his email lists so that we could all receive regular updates on events as well as positions vacant. To do this he had to play a day to day role in running the ACTF. Yes - money was being spent but the Trust Fund was also growing. Today it stands at some £10 million with an annual spend of about £400K. So a Scot was ideal for guiding the Trustees wisely and carefully in both investing the fund's money as well as careful expenditure. David therefore leaves the fund in good health. At the ARF back in July he was appropriately presented with a selection of Scottish whiskies by the Trustees. We wish him all the best in his retirement but do hope that he keeps touch with the RSC-AD, and would like to thank him for all his hard work over the last 20 years, from the AD council and the UK analytical community as a whole.

*Written by Prof. David Perrett*

**David's ACTF duties will continue under his replacement Dr Ruth Hearn and a profile of Ruth will be in the next Analytical Matters.**

## REVIEWS

---

### **A note from the winners of this years Schools' Analyst Competition, Sir John Deane's College**

Sir John Deane's College has a very successful Chemistry department with over 250 students studying A-level Chemistry. Practical work plays a big part in the curriculum with students in year 12 and 13 having weekly sessions in the laboratory. Class sizes are typically 20 students.

We are very grateful to the Analytical Chemistry Trust fund for the generous prize money of £3000 which we have used to purchase a class set of electrical melting point apparatus (as seen in the attached photograph) This will be a significant improvement on our oil baths that we have used for many years up to now! All our year 13 cohort of around 120 students will benefit from this equipment as they will all learn to use it as part of a series of organic chemistry experiments involving the preparation, purification and analysis of a solid organic product. This forms a part of the new practical endorsement for A-level Chemistry.

Our students value the opportunities for practical work we provide and many continue their studies at degree level, either in chemistry or other related subjects. Having up to date equipment and being able to provide sufficient equipment for every student to gain hands-on experience is vital in order to continue to inspire young people to become the scientists of the future.

Thank you on behalf of all the Chemistry staff and students at Sir John Deane's College.

**The winning team, with new equipment purchased with the prize winner money**



*Submitted by Prof. John Dean*

## REVIEWS

---

### The Analytical Science Network's Bright Spark Symposium 2017 (BSS17)

BSS17 follows on from the inaugural bright spark symposium held last year at the University of Warwick, with the aim to provide a relaxed environment for early career analytical scientists to present their work, many for the first time, to other early career scientists. BSS17 was organised by the Analytical Science Network (ASN) and hosted at the University of Bath where over 30 delegates came to present their work or engage with other analytical scientists. Presentations ranged from the use of NMR for paramagnetic compounds and new techniques in high resolution mass spectrometry, to the in-situ analysis of volatile compounds and challenges of blood analysis. Presented posters were similarly broad in scope and encompassed the analysis of novel psychoactive substances, nanosensors and the analysis of essential oils. Invited speaker Prof. Michael Thompson of the Analytical Methods Committee (AMC) gave a presentation on the work of the AMC and the importance of proper method development, while invited speaker Dr. Annekke Lubben from the University of Bath gave an inspirational talk about her career and transitioning between academia and industry.

Funding provided by the Analytical Chemistry Trust Fund (ACTF) and the Analytical Methods Committee (AMC) allowed for the presentation of a best poster and a best oral presentation award. The best poster award was presented to Mathew Healey of Loughborough University for his poster *"Using nanopores to exploit particle translocation velocities for assay development"*. The award for best oral presentation was presented to Hazim Yousef of Loughborough University for his talk on breath analysis entitled *"Take my breath away: its potential and implications"*, which confers the opportunity for him to present at the upcoming Emerging Analytical Professionals (EAP) conference "EAP 2018 the circle of life – analysing the world around us".

*Written by Jack Rice, Analytical Science Network Representative*



**Hazim Yousef (left) being presented his award for the best oral presentation by BSS2017 Chair Jack Rice**



**Matthew Healey (left) being presented his poster presentation award sponsored by the Analytical Methods Committee by Prof. Mike Thompson (AMC representative, middle)**



## REVIEWS

---

### The JPAG Pharmaceutical Analysis Postgraduate Research Awards and Careers Symposium

On Tuesday 28th November ninety delegates gathered at the Royal Society of Chemistry, London, for the Inaugural Pharmaceutical analysis postgraduate research awards & careers symposium. Over half of the delegates were students representing 13 different academic institutes from all corners of the UK: Bath, Greenwich (London), Hertfordshire, Imperial (London), Kings (London), Kingston (London), Liverpool John Moores, Manchester Metropolitan, Newcastle, Nottingham, Queens Belfast, UCL (London) and Wolverhampton. Also in attendance were academic staff from most of these universities and in addition staff from Oxford University were present.

Delegates were treated to two Keynote lectures, from Professor Trevor Jones CBE, whose topic was “Pharmaceutical innovation; change is NOT a choice” and Professor Melissa Hanna-Brown, Pfizer Global R&D who spoke on “Driving future acceleration in the molecule to medicine journey”.

The symposium provided the opportunity for early-career scientist to showcase their work, and to network with peers, academics and industrial scientists. Eight young scientists presented their work in podium presentations to a sympathetic audience, and there were 20 poster presentations for delegates to view. By general consensus these presentations were all of high quality.

In addition, the Careers fair, attended by personnel from the pharmaceutical industry and the regulatory agency, were available to provide advice to young scientist about career opportunities. In total 7 organisations: Almac, AstraZeneca, Envigo, GlaxoSmithKline, MHRA, Mylan global respiratory group and Pfizer provided staff to support this event and the general feedback was very complimentary. Students also thought that the careers fair provided unique opportunities for one-to-one discussion with potential employers and experienced individuals from the pharmaceutical industry and regulatory agency.



**Matthew C Hulme receiving his award  
from Prof. Melissa Hanna-Brown**

Prizes were awarded for the best oral presentations and for the best poster presentations at the symposium. Professor Hanna-Brown presented Matthew C Hulme, Manchester Metropolitan University a certificate and a prize of £500 for the best podium presentation “Separation and identification of polyfluorinated regioisomers using 60 MHz benchtop NMR techniques”. The Commended podium award of £200 was made to Daniel Baker, University of Hertfordshire, for his presentation on “SPME: ex vivo drug distribution in tissues and organs”.

The winner of the best poster award of £200 was James Gooch, Kings College London, for his presentation on "Fluorogenic substrates for the detection of biological fluids and fingerprints". Commended poster awards, each of £100, were made to Ms Rhamiya Mahedran, University of Hertfordshire, for a presentation on "Screening the biological activity of stilbene sulphonamide analogues" and to Miss Emmanouela Kampouraki, Newcastle University, for a presentation on "CYP4F2 genotype affects circulating plasma vitamin K concentration in children on chronic warfarin therapy".

The date of the next postgraduate symposium has just been announced as Tuesday 20th November 2018 at the Royal Society of Chemistry, London.

If you are an early-career scientist, start planning now to attend to present your work. The symposium will provide the opportunity for you to showcase your work and to network with peers, academics and industrial scientists. We are seeking submission related to the use of analytical measurements to the characterisation or quality control of active substances and drug products. We are particularly interested in attracting students from additional academic institutions in UK and Ireland.

Please watch for further details on the JPAG website ([www.jpag.org](http://www.jpag.org)).



**Attendees at the JPAG event**

*Written by Dr. Arundhuti Sen, JPAG Representative*

## UPDATES

---

### CAMS-UK PROJECT UPDATE

If you have had your ear to the AD ground in recent months, I am hoping you will have heard something about the CAMS-UK project. This project is a new initiative which will launch in 2018 and which is being designed with the intention of bringing some cohesiveness to the Analytical Measurement Science Community in the UK. The project has been gaining momentum in the last 18 months and the concept was really kick-started in response to the AD landscaping exercise in 2015 and the subsequent EPSRC review of analytical science. More recently it has seen significant industrial input, UKRI and government organisation interest. *Captured your attention?* Then please read on because this project will hopefully involve you!

CAMS-UK stands for Community for Analytical Measurement Science-UK. The project has two key focus areas – our pipeline of key Analytical Measurement Science (AMS) talent and our innovative core for UK Analytical Measurement Science (initially with a strong focus on point of use measurement technologies). An important feature of this project is that it is an industrially-led membership network which is intended to connect our AMS community, nationally in the UK (i.e. it is not something new but rather a vehicle, or the glue for our community to facilitate growth of our collective identity (and future success)).

The initiative has initially focused on the UK chemical and bio-analytical measurement science communities and aims to co-ordinate its work across a distributed network of nodes of analytical measurement excellence. To do this we are proposing a new distributed UK AMS Research and Innovation Institute and a Skills institute catering for the AMS career lifecycle (e.g. undergrad / industrial placements, apprenticeships, flexible modular practical/e-/distance and classroom based learning for industry and university students alike). The two institutes will be industry led with governance through an Executive supported by a Secretariat. Membership of the community network will be split across three levels (tier 1, 2 and 3) with direct and indirect fees required from academic and industrial members in exchange for access to a variety of member benefits according to membership tier level. Importantly, membership access will be open to all UK academic organisations and industrial organisations.

In summary CAMS-UK aims to:

- Raise the profile of UK Analytical Measurement Science training and research
- Facilitate industrially-led innovation in novel point-of-use measurement technologies
- Provide a focal point for UK Chem/Bio analytical measurement science
- Provide a talent pool with industry-ready transferable skills for the future
- Facilitate access across the UK community of analytical measurement facilities, training organisations, research and commercial innovation organisations.

The project journey to date has included the following notable activities:

1. May 2016: Initial Meeting with UK skills, research councils and professional bodies to discuss potential for a community project – successfully endorsed. Mandate to gather industry buy-in

2. June- Dec 2016: Industry Surveyed for CAMS-UK need across (110 organisations of varying size and industrial sector) and MMIP (medicines and manufacturing industry partnership) sponsorship gained. Point of use technology network focus endorsed.
3. April 2017: Industrial Worskhop at Burlington House, London – bringing together some 25 representatives across different industrial sectors to discuss the project and their potential engagement in the future.
4. June 2017: Registration of the community network name – now known as Community for Analytical Measurement Science- UK (CAMS-UK)
5. Aug – Nov 2017: Development of a structure for the network and a membership agreement draft (including three tier levels with associated details on costs (££ and indirect) and benefits)
6. June-Oct 2017: In principle commitment from three initial founding academic organisations to fund and appoint Analytical Chairs (including Separation Science) as part of CAMS-UK Tier 1 commitment.
7. June-Sept 2017: Evaluation of various commercially available e-learning platforms for CAMS-UK training material provision
8. June-Sept 2017: Construction of a CAMS-UK website (about to be launched)
9. Sept 2017: Discussions with EPSRC/BBSRC/MRC to identify funding routes for programmes within CAMS-UK
10. Oct 2017: Support for development of the early stages of a multi-institutional CDT Analytical bid by Tier 1 CAMS-UK academic members
11. Nov 2017: Continued endorsement confirmed for the project by the Medicines Manufacturing Industry Partnership – within the Technology & Innovation and Skills Streams
12. Nov 2017: Discussions with the Office of Life Sciences to request this project be considered for incorporation within the government support of the life science sector deal and future wave funding
13. Nov 2017: UK Analytical Chemistry Trust Fund *in principle* Endorsement of £4M to support the initiative including supporting set-up costs for 2018 and hosting an open meeting for the UK Analytical Academic Community to hear about the project (19<sup>th</sup> Feb, London).

You may notice that the lions' share of the project focus to date has been on industry and securing their buy-in. The next stages of this project will now focus on our UK academic AMS community and if this is you and you want to find out more, please register your interest in the ACTF meeting call [here](#). In the current climate of research and innovation landscape flux in the UK, there is a tangible opportunity for our community to coalesce and ensure the identity of AMS which cuts across every scientific discipline and touches the lives of every UK citizen, is not lost (or diluted). The UK AMS sector is already a significant contributor to UK turnover (estimated at ~£7 billion) and UK employment and so the potential impact of a healthy AMS community with strong identity is similarly significant on future UK productivity.

Finally, I hope this article has given you some food for thought and serves to inspire you about what we might be able to achieve together. Constructive comment and suggestions for important points we should consider as we move towards securing membership in 2018 and building the governance structure of CAMS-UK are most welcome.

For general and membership enquiries please contact: [secretariat@cams-uk.co.uk](mailto:secretariat@cams-uk.co.uk).

Yours sincerely

Melissa Hanna-Brown, on behalf of CAMS-UK (*a ACTF and MMIP supported initiative*).



## UPDATES

---

### **Update on the International Strategy Group's work in Africa**

During 2013 when the AD formed the strategy groups, the team empowered to look at International Strategy asked themselves the following question. *"What can we do to enhance the analytical community outside the UK?"* Since then The Analytical Division has carried out high impact activities in India, Africa, Japan and Brazil. Most of our efforts to date have been concentrated in Africa where we work closely with the Pan Africa Chemistry Network (PACN) and the impact of this work has been very significant. This update outlines some of the successes we have had in Africa.

### **Empowering the Talent Pool in Africa**

The GC-MS training courses started in Nairobi by Anthony Gachanja and Steve Lancaster in 2006 have been supported by PACN with funding initially from Syngenta and more recently from GSK. These course, originally run once per year in Nairobi have now expanded to multiple courses per year in Nairobi, Nigeria, Ghana and Ethiopia. Additionally, the first HPLC course was piloted this year in Nairobi.

Ethiopia, Kenya, Ghana and Nigeria are all experiencing ongoing growth in the quality and quantity of scientific research taking place. These countries operate as 'Hubs', engaging with people from other countries in their regions. The Pan Africa Chemistry Network has been based at these four Hubs for many years, and the universities have the people, equipment and facilities needed to host the courses. In 2016, the training activities reached people from ten different countries, including Burkina Faso, Cameroon, Sudan, Tanzania and Uganda.

Now that we have courses running across Africa, more people can attend the course in their home or neighboring country, limiting the travel required. We have worked hard to widen our advertising for the upcoming courses, to give as many people as possible the opportunity to be part of it. One big challenge we face is how to manage the demand for these courses; we get many more applications to attend than there are spaces available. However, we hope that over the coming five years we can start to meet that demand through expanding the number of local trainers. To date we have started training several African trainers and we are looking forward to maintaining the quality of the courses, but expanding the number available using the excellent local chemists within the hubs. We are on target to train over 400 African scientists by 2020.

*Written by Steve Lancaster*

---

### **Prof. Melissa Hanna-Brown finishes her Analytical Division Presidency**

The AD council would like to take the opportunity to thank Melissa for her hard work over her 3-year term as AD president, including her contributions towards the CAMS-UK project. Melissa will continue working with the AD council as an elected member.

## ANNOUNCEMENTS

---

### Analytical Methods Committee Update

New Analytical Methods Committee (AMC) Technical Brief, No. 81, [A 'Periodic Table' of mass spectrometry instrumentation and acronyms](#) released.

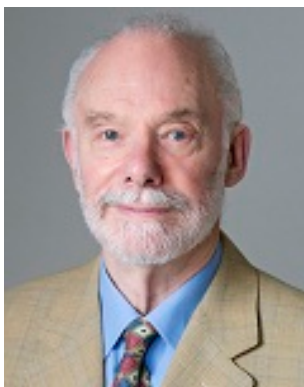
The development and maturation of mass spectrometry (MS) technology has meant that MS users are no longer required to be experts in this field. With the increasing popularity of mass spectrometry (MS) with non-expert users, the Analytical Methods Committee (AMC) of the Royal Society of Chemistry has highlighted the need to generate a glossary of instrumentation terms that is accessible to users of this technology at all levels. In order to address a wide range of users it is also necessary to provide a context and explanation for the types of MS technology and their acronyms.

Download your own MS periodic table [here](#).

**AMC Technical Briefs**  
are produced by the Analytical Methods Committee (AMC) - the branch of the Analytical Division that handles matters of technical importance to the analytical science community.  
*Find out more at: [www.rsc.org/amc](http://www.rsc.org/amc)*



The Analytical Methods Committee



The AMC also wish to use this opportunity to thank Prof. Michael Thompson for his many years of service as the editor of AMC Technical briefs, the role he has had since its inauguration in 1998. Without Mike, the over 80 TBs that have been published would not have been able to benefit analytical scientists for the last (nearly) 20 years! Mike will now pass over the role to Dr Zoe Ayres, but will continue to be a long-standing member of the AMC (he has been a member since 1984, and was chair of the statistics subcommittee for 25 years).

**Prof. Mike Thompson**

---

### 4th #RSCPoster Twitter Conference

The 4<sup>th</sup> #RSCPoster Twitter Conference will be taking place from 09:00 (GMT) March 6th to 09:00 (GMT) March 7th 2018.

The 2017 RSC Twitter Poster Conference was a huge success, with over 1500 posters, 5500 Tweets and an audience of 2.61 million people. The unique format of this poster conference allows chemists from all over the world to showcase their research, network and make new contacts without the costs of travelling and attendance associated with a traditional conference.

## ANNOUNCEMENTS

---

### Analytical Chemistry Trust Fund Update



**ANALYTICAL  
CHEMISTRY**  
TRUST FUND

ACTF, an independent charity (Reg. No. 268893) was established in 1974. It is closely associated with the Analytical Division of the Royal Society of Chemistry. Its primary task is to support analytical science in the UK and abroad. It uses the returns from its capital investments to spend a significant sum supporting PhD programmes, summer studentships, research fellowships and support for analytical conferences as well as educational initiatives. For further details please see the Analytical Chemistry Trust Fund [webpage](#).

---

### Analytical Chemistry Summer Studentships

**Deadline for application: 17:00 26 January 2018**

The purpose of the awards is to give experience of research to undergraduates with research potential and to encourage them to consider a career in Analytical Chemistry research on completion of their undergraduate degree.

The awards provide support for the student at a rate of £200 per week (£250 per week in London), for a period of between 6 and 8 weeks during the summer vacation.

Further information about eligibility and the application form visit the website [here](#).

---

### Separation Science Group Summer Studentships 2018



The RSC's Separation Science Group (SSG) is the largest interest group in the Analytical Division. The Group's primary focus is the advancement of separation science in the United Kingdom, and supporting the career progression and research activities of separation scientists, both here in the UK and around the world.

From 2018 onwards, the SSG will be funding annual summer studentships of up to **£1500**, to support innovative research projects undertaken by students affiliated with UK universities or commercial organisations.

*The proposed projects may involve any aspect of separation science, i.e. the science of separating, detecting and identifying individual components of complex mixtures, and should emphasise the use of separation techniques such as chromatography (e.g. GC, LC, SFC), capillary electrophoresis (CE), solid-phase extraction (SPE), ion-mobility etc. Projects may also involve the application of appropriate data analysis strategies, processing tools, and predictive modelling approaches to data obtained from the aforementioned separation techniques.*

To be considered for funding, a completed application form should be sent to Lee Williams ([lee.williams@sunderland.ac.uk](mailto:lee.williams@sunderland.ac.uk)) and Arundhuti Sen ([arundhuti.x.sen@gsk.com](mailto:arundhuti.x.sen@gsk.com)) by **5 pm on Friday, March 2<sup>nd</sup> 2018**.

**Complete application guidelines and materials can be found at**  
<https://sep-sci.org/funding/>

---

### **Analytical Chemistry Trust Fund February 19<sup>th</sup> 2018 Open Forum**

Many of you will have heard of the CAMS-UK initiative being developed by Prof Melissa Hanna Brown, immediate Past President of RSC AD, along with others to enhance and grow Analytical Science in the U.K.

Over the last two decades the Analytical Trust Fund have supported UK universities with over 5 million pounds in PhD studentships, research grants, professorships etc. ACTF have been approached by CAMS-UK to support its development. However, in order to counter any misinterpretations held in some quarters of CAMS-UK's approach, the Trustees of ACTF have agreed that an open meeting of any interested university representatives would be held to discuss and clarify the role of ACTF in funding analytical science in the UK post the establishment of CAMS-UK.

The ACTF Trustees will therefore hold an open meeting at the RSC Burlington House in February to discuss its future role in funding analytical science in the U.K. and elsewhere. The meeting and lunch, but not travel, will be funded by ACTF. Full details will be advertised and circulated in the New Year.

---

**SUBMIT YOUR ARTICLE TO ANALYTICAL MATTERS**  
Email the editor at [analyticalmatters@rsc.org](mailto:analyticalmatters@rsc.org)



## AWARDS

---

The [Sir George Stokes Award](#) recognizes outstanding and sustained contributions to analytical science by someone demonstrably working in a complementary field, which has led to developments of seminal importance to chemical analysis. It is awarded biennially and the winner is chosen by the Royal Society of Chemistry Analytical Division Awards Committee. We are delighted to announce that this year the award was presented to [Tony Cass](#) from Imperial College London at SciX 2017 in Reno. Tony presented his prize lecture on Tackling Global Health Challenges with Biosensor Technologies on the 9th of October. Congratulations Tony!



**Analyst Chair Duncan Graham presents Tony Cass with the Sir George Stokes Award in Reno, NV**



**Duncan Graham, is presented with the Charles Mann Award for Applied Raman Spectroscopy by Ian Lewis from Kaiser Optical Systems**

It also gives us great pleasure to announce that the **Charles Mann Award for Applied Raman Spectroscopy** was awarded to Duncan Graham, who delivered his Plenary lecture "Mann up, SERS Can be Useful!" on Tuesday 10th October. Congratulations on well-deserved awards.

*Taken from the Analyst News*



**Excellence doesn't come in just one form. Neither does our recognition. Nominate or be nominated until 15 January 2018**

### **Anne Bennett Memorial Award for Distinguished Service**

The Anne Bennett Memorial Award for Distinguished Service recognises exceptional voluntary services over a period of years to the RSC [Analytical Division](#). For more information on nominations, past winners, or selection criteria, see the [Anne Bennett Memorial Award](#) page.

### **Becquerel Medal Award**

The Becquerel Medal Award is awarded to a scientist who over a significant period of time has made an outstanding contribution in research and or teaching in radiochemistry. For more information on nominations, past winners, or selection criteria, see the [Becquerel Medal Award](#) page.

### **Centenary Prizes**

The Centenary Prizes are awarded to outstanding chemists, who are also exceptional communicators, from overseas to give lectures in the British Isles. For more information on nominations, past winners, or selection criteria, see the [Centenary Prizes](#) page.

### **Corday-Morgan Prizes**

The Corday-Morgan Prizes are awarded for the most meritorious contributions to chemistry. For more information on nominations, past winners, or selection criteria, see the [Corday-Morgan Prizes](#) page.

## **Harrison-Meldola Memorial Prizes**

The Harrison-Meldola Memorial Prizes are awarded for the most meritorious and promising original investigations in chemistry and published results of those investigations. For more information, see the [Harrison-Meldola Memorial Prizes](#) page.

## **Industrial Analytical Science Award**

The Industrial Analytical Science Award recognises the work of industrial analytical scientists and is given for outstanding contribution to analytical technology or methodology in industry. For more information, see the [Industrial Analytical Science Award](#) page.

## **Interdisciplinary Prizes**

The Interdisciplinary Prizes are awarded for work at the interface between chemistry and other disciplines. For more information, see the [Interdisciplinary Prizes](#) page.

## **Joseph Black Award**

The Joseph Black Award is for a young scientist in any field covering the practice and teaching of analytical science. For more information, see the [Joseph Black Award](#) page.

## **Lord Lewis Prize**

The Lord Lewis Prize is for distinctive and distinguished chemical or scientific achievements, together with significant contributions to the development of science policy. For more information, please visit the [Lord Lewis Prize](#) page.

## **Robert Boyle Prize for Analytical Science**

The Robert Boyle Prize for Analytical Science is awarded for outstanding contributions to analytical science. For more information please see the [Robert Boyle Prize for Analytical Science](#) page.

## Ronald Belcher Award

The Ronald Belcher Award is given for work on an analytical topic, by a graduate of a British or Irish university. For more information on nominations, past winners, or selection criteria, see the [Ronald Belcher Award](#) page.

## Royal Society of Chemistry-Société Chimique de France Lectureship in Chemical Sciences

The Royal Society of Chemistry-Société Chimique de France Lectureship in Chemical Sciences is a reciprocal lectureship awarded alternately by the Royal Society of Chemistry and the Société Chimique de France (SCF), for advances in chemistry made by a scientist while working and residing in France or the UK, respectively, please see the [Royal Society of Chemistry-Société Chimique de France Lectureship in Chemical Sciences page](#)

## Theophilus Redwood Award

The Theophilus Redwood Award is given to a leading analytical scientist who is also an outstanding communicator. Please see the [Theophilus Redwood Award](#) page for more information.

## Tilden Prizes

Founded in 1939, the Tilden Prizes are awarded for advances in chemistry. For more information please see the [Tilden Prizes](#) page.

---

This information about Royal Society of Chemistry activities, products and services is being sent to you as part of your membership of the Royal Society of Chemistry.

Unsubscribe

You can [unsubscribe](#) from all future email messages from the Royal Society of Chemistry. You may still receive service emails relating to your Royal Society of Chemistry membership, articles submitted for publication, purchases, or conferences. See our [Privacy Policy](#).

Contact us The Royal Society of Chemistry is a charity registered in England and Wales. Registered Office: Thomas Graham House, Science Park, Cambridge CB4 0WF, United Kingdom. Registered Charity Number: 207890 © Royal Society of Chemistry 2017. All rights reserved.

