

ANALYTICAL MATTERS

ISSUE 21 – DECEMBER 2021

UPCOMING EVENTS

RSC Desktop Seminar with Molecular Omics

16 December 2021, online

RSC Chemical Nanoscience and Nanotechnology Network Annual Symposium

17 January 2022, London, UK

RSC Molecular Spectroscopy Group Online Seminar Series - January 2022

20 January 2022, online

Analytical Science in the Environment

25 February 2022, Masham, UK

State-of-the-art in the Analysis of Complex Environmental Matrices

11 March 2022 London, UK

Schools' Analyst Competition 2022

25 April - 27 May 2022

CPD 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

Welcome to the twenty-first issue of Analytical Matters, the e-newsletter of the Analytical Division of the Royal Society of Chemistry (RSC). Analytical Matters aims to showcase the wide range of analytical science activities being run across the Royal Society of Chemistry Analytical Division as well as linking with parts of the UK analytical community beyond our membership.

This issue covers a range of analytical news and topics, including highlighting upcoming events for 2022. Registration for the Schools' Analyst Competition is now open. For 2022, there will be 300 analytical science kits available for schools to apply for, to participate, helping inspire the next generation of analytical scientists. Based on feedback, next year's Analytical Research Forum will be a hybrid event, allowing attendance in person, as well as the ability to participate online. Please put the date: 13-14 June in your diaries! Abstract submission is now open for both oral and poster presentations.

Nominations for our 2022 Prizes are now open. Whether you are based in industry or academia, our Prizes recognize individuals across all career stages as well as teams and collaborations. I encourage you all to consider making a nomination.

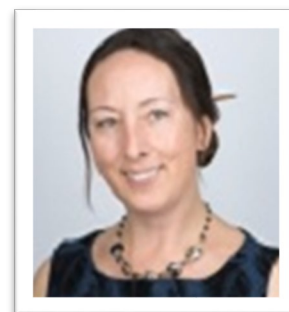
I also wish to take the opportunity to say that if you would like to get involved and be part of the new Analytical Science Community Council, there is a vacancy for President (to take office from July 2023), as well as two elected member positions. We would love to have you join us! Nominations are open until early February.

Finally, I'd like to take the opportunity to wish you a wonderful Christmas break.

Please send your feedback and any content for the next issue by 28 February 2022 by emailing the Editor [here](#).

With my very best wishes,
Diane Turner FRSC

President, RSC Analytical Division



Get involved - call for nominations

During 2020-2021, the RSC undertook a Review of RSC Divisions. The Review recommended that each Division be transitioned to a Subject Community. The 2022 Elections will be for members to join the newly formed Subject Community Councils which will be set up after the AGM in July 2022. During the transition period the terms Division and Community will both be used.

There is a vacancy for President of the Analytical Science Community Council to serve as President Elect for one-year from the AGM in July 2022 and take office as President for a three-year term until the AGM in July 2026.

There are vacancies for two elected members of the Analytical Science Community Council to take office from the AGM in July 2022, for a three-year term, until the AGM in July 2025.

Subject Community Councils will have an important role in providing leadership to the Subject Communities, and to the development and implementation of the Communities' activities. The Subject Community Presidents and Subject Community Council members come from a range of backgrounds and career stages.

[Further Information about the nomination process, the electoral regulations and full role descriptors.](#)

Closing date for receipt of completed nominations is 17:00 (UK time) on Monday 7 February 2022.

2022 Prizes are open for nominations

Nominations are open now for our 2022 prizes, representing a huge range of ways to celebrate individuals, teams and collaborations across analytical science.

Prize categories currently open for nominations are:

- **[Horizon Prizes:](#)** now in their second year, celebrating teams and collaborations whose discoveries and innovations push the boundaries of science
- **[Inclusion & Diversity Prize:](#)** now an annual prize, celebrating people improving access and progression for all in the chemical sciences
- **[Research & Innovation Prizes:](#)** celebrating exceptional people advancing the chemical sciences across industry and academia
- **[Volunteer Recognition Prizes:](#)** celebrating people who go above and beyond to form communities and support and inspire others



Making a nomination is your opportunity to tell us about the outstanding work happening in your field. If there is somebody or something that you think is brilliant, we want to know. All our prize committees want to see the very best candidates representing the full breadth and diversity of our community.

Any RSC Member can make a nomination (the judges don't see who the nominators are) and the decisions are based on the quality of relevant contributions and achievements by nominees. [Visit our prizes website](#) to find out more about the eligibility and selection criteria for the prizes relevant to the analytical science community and to make your nominations before 18 January 2022.

Are you thinking about nominating? Our [guidance for nominators](#) has information to help.

Many RSC Interest Groups administer their own prizes, you can find out more about these on the [webpage](#).

2021 Education Prize winners announced

Congratulations to all the [2021 RSC Education Prize winners](#), in particular to Professor Bhavik Patel FRSC (University of Brighton), winner of the 2021 Excellence in Higher Education Prize for the design of innovative and effective analytical chemistry curriculums.



Schools' Analyst Competition 2022

The Schools' Analyst Competition is returning to schools in 2022, with teams tasked with finding the perfect formula for fish and chips!

Teachers across the UK and Ireland are invited to apply for the chance to receive one of 300 kits for their students to compete in this practical analytical competition in your own schools. Aimed at students in Year 12 / S5 / 5th Year, the boxes will provide samples and equipment for up to ten teams of three to participate in a flexible challenge that fits around your school timetable. Teams must work together to solve the problems, answer tough questions, and submit their answers for marking. Each school will be informed of their winning team after the closing date, but winners will also be entered into a second round against school winners in their region for the chance to be crowned regional champions!

[More details and a link to register.](#)

Registration closes on Friday 25th March 2022.



St. Joseph's College Young Analysts. Congratulations to our Advanced Higher Chemistry class winners in the Royal Society of Chemistry Schools Analyst Competition. [@RSC_Scotland](#) [@doctorgraeme](#)



7:34 PM · Sep 18, 2021 · Twitter for iPhone

Announcing Analytical Research Forum 2022

13 – 14 June 2022 London, UK and online

Join us in London or online in June 2022 for a showcase of cutting-edge analytical chemistry and applications to stimulate new research, collaboration and engagement between academia and industry.

Get involved: abstract submission is now open

If you're a PhD student, postdoctoral researcher or early career scientist in industry or academia, take advantage of this opportunity to present your work alongside high-profile analytical scientists.

Abstract submission closes 21 March 2022.

Interested in sponsoring the event? Contact analyticalmatters@rsc.org for more information.

[Find out more](#)



New Analytical Methods Committee Technical Briefs

The Analytical Methods Committee (AMC) continues to produce Technical Briefs (TBs) and reports through Expert Working Groups (EWGs). The following TBs have been published since the last Newsletter:

105. [How reliable is my uncertainty estimate?](#) (*Anal. Methods*, 2021, **13**, 2728)
106. [Fourier transform infrared spectroscopic analysis of organic archaeological materials: background paper](#) (*Anal. Methods*, 2021, **13**, 2997)
107. [Method selection for liquid chromatography](#) (*Anal. Methods*, 2021, **13**, 3205)
108. [Hand-held X-ray fluorescence analysis of archaeological artefacts: challenges, advantages and limitations](#) (*Anal. Methods*, 2021, **13**, 3731-3734)

In addition, a report, in three parts, on the Application of GLC to Essential Oils has been published:

Application of Gas-Liquid Chromatography to the Analysis of Essential Oils

- (1) Part XXIV: Part 1 of 3: Fingerprint chromatograms of esters-containing essential oils: Chamomile English Perfumer and Flavorist 2021, 46 (Aug), 42 – 47.
- (2) Part XXIV: Part 2 of 3: Fingerprint chromatograms of esters-containing essential oils: bergamot oil, clary sage oil and spike lavender oil. Perfumer and Flavorist 2021, 46 (Sept), 36 – 43 + RM 1 – 3.
- (3) Part XXIV: Part 3 of 3: Fingerprint chromatographs of esters-containing essential oils: neroli oil, petitgrain bigarade oil and petitgrain oil Paraguay. Perfumer and Flavorist 2021, 46 (Oct), 26 – 32.

Members are welcome to suggest topics for TBs to the AMC Secretary or Chair. Please contact analyticalmatters@rsc.org

Nominations open for the LS Theobald Lectureship

The Lectureship is awarded to someone who has made significant contribution to analytical chemistry in an area of interest to the work of the Analytical Methods Committee. It is not a requirement that the recipient should be a member of the RSC or have contributed directly to the work of the AMC or its sub-committees.

[Further information on nominating for the LS Theobald Lectureship](#)

OPPORTUNITIES TO GET INVOLVED

Shape the future of sustainable research and laboratory practice

We want to get your perspectives on sustainability within the laboratory to prioritise our future efforts in this vital area, including where you face challenges, barriers or need further information on how to make your lab more sustainable.

The survey is open to chemistry professionals around the world including researchers and educators based in academia or industry, as well as to postgraduate students who are doing chemistry in a laboratory – including ‘wet’ as well as computational and measurement labs.

Please take a few minutes to [fill in our short survey](#) by 13 December.

Call for analysts for the RSC Road Traffic Acts Analysts booklet

The RSC produces the [Road Traffic Acts Analysts booklet](#) annually with the 2022 edition due for publishing in February. We are seeking appropriately qualified and accredited analysts who wish to be included. The booklet is given by the police to any motorist who is asked to provide a specimen of blood or urine for alcohol analysis in suspected drink-driving cases. The motorist can keep the specimen for their own retention and contact one of the individuals in the booklet for independent analysis.

To be listed as one of the analysts, you must be a full Member or Fellow of the RSC and hold CChem professional status. Preferably, you will be operating a UKAS ISO/IEC17025 procedure for alcohol analysis in blood and urine relating to Section 5 of the Road Traffic Acts 1988.

An entry in the booklet is free of charge to appropriately qualified members. If you offer these services in the UK and are suitably qualified and accredited. Please email careers@rsc.org if you are interested in being included in the 2022 edition by 11 January 2022.

RSC SUPPORT AND FUNDING OPPORTUNITIES

Research Fund

The [Research Fund](#) provides up to £4000 for chemicals and consumables for research projects and prioritises those at less well-funded institutes, early career researchers and those in developing countries. Applications close on **13 December 2021 at 14.00 GMT**, with decisions to be communicated by end of February 2022.

The following schemes are accepting applications:

- [Researcher Development Grant](#)
 - [Inclusion and Diversity Fund](#)
 - [Grants for Carers and Assistance Grants](#)
 - [Chemists' Community Fund](#)
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RSC Career Toolkit

The Careers team has recently launched a new online Career Toolkit which is available to all members. This toolkit offers a range of interactive tools designed to help with planning careers with confidence. Features include assessing personal career preferences, building and reviewing CVs, and preparing for interviews. [Register using your membership login details](#).

Chemists' Community Fund wellbeing and listening service

Stressed? Anxious? Overwhelmed? If your feelings are interfering with day-to-day life, it's time to reach out to our confidential wellbeing and listening service for support.

We have been assisting our community and their family members with support in times of difficulty for many years. Now, in response to a year of unprecedented challenges we are launching a dedicated wellbeing and listening service – available from 8am to 8pm (UK time) Monday to Friday.

The service is confidential and available to all chemical scientists in the UK and Ireland, and RSC members anywhere in the world.

Please call our wellbeing and listening service on 0800 084 3451 (UK Freephone) or +44 1223 853549 (International) or visit our dedicated wellbeing and listening service page for more information.

Analytical Chemistry Disruption Grant

TRUST FUND

ACTF Trustees recognise the disruption that the COVID-19 pandemic has had on analytical science students. We are relaunching a disruption grant of **£500** aimed at PhD students who are in the **last 6 months of their PhD** and need additional monetary support to complete their studies.

Note, this fund is to support personal costs to help enable students to complete their studies for example rent, or other caring or living costs, and cannot be used for laboratory research costs. Students must be resident in the UK or Republic of Ireland and registered at a University in the UK or Republic of Ireland.

For more details and to apply, click [here](#). Applicants will be assessed upon receipt and the call will remain open until the budget has been allocated.

The following ACTF schemes are also accepting applications:

- [Developing World Scholarships](#)
- [Analytical Chemistry Summer Studentships](#)
- [Overseas Conference Travel Grants](#)

OTHER FUNDING OPPORTUNITIES

Calling Physical Sciences ECRs!

There will be a [webinar](#) on the 19th January 2022 about EPSRC, UKRI and current funding opportunities. All early career researchers in physical sciences are welcome.

[Register to attend](#)

OTHER EVENTS OF INTEREST

BMSS Introduction to Mass Spectrometry

13-14 December, Online

This course will introduce the basic concepts and terminology of mass spectrometry. The most important ionisation techniques used in mass spectrometry are explained, including electrospray ionisation, matrix-assisted laser desorption/ionisation and atmospheric pressure ionisation techniques, as well as the most common mass analysers such as quadrupoles, ion traps, time-of-flight (TOF), Orbitrap, and Fourier transform ion cyclotron resonance (FTICR).

INTRODUCTION TO MS COURSE

★ 13-14 DECEMBER 2021 ON-LINE ★

AN INTERNATIONALLY ACCESSIBLE TRAINING RESOURCE



BMSS

Emerging Analytical Professionals

13 – 15 May 2022, Kettering Park Hotel & Spa, Kettering

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 2022 theme, **'2022 Vision: Light at the End of the Tunnel'** explores the wide breadth of analytical sciences and how we as a community have continued our work during the pandemic. Topics during the weekend will cover general analytical techniques, clinical science, environmental, forensic, pharmaceuticals and much more. **This conference aims to facilitate sharing of knowledge and experience between a diverse group of analytical scientists.**



CALL FOR ABSTRACTS - EARLY CAREER SPEAKERS & POSTER PRESENTERS

We are currently looking for **early career speakers**, from both **industry and academia** to present 'Bright Sparks' talks (20-minute talk, including questions on analytical topics pertaining 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. We also encourage delegates to present posters detailing their work or research.

Standard registration fees apply but we do have several bursaries that can be applied for.

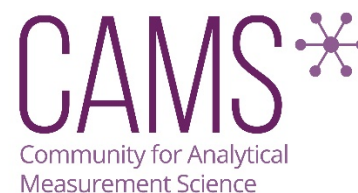
Deadlines: Oral abstract - 31st January 2022
Poster abstract - 31st March 2022

Submit a talk or poster abstract at: www.analyticalsciencenetwork.co.uk

Community for Analytical Measurement Science (CAMS) Update

CAMS Conference 2021

Thank you to all of our chairs, presenters and attendees for your participation in CAMS Conference 2021 - your presentations and input were instrumental in making this year's annual event a success. CAMS saw in excess of 45 speakers and 165 people joining online across the 4 sessions, with further engagement continuing via the Jamboards (Big Ideas and Data Science). Presentations from CAMS Academics, Industry Members and Partners, as well as skill and personal development workshops are now freely available to view and disseminate via the CAMS website.



As we reflect on the great research, insights and developments shared during the conference, please feedback on what went well and where we could improve things moving forwards - your comments and suggestions will help inform future CAMS events.

CAMS Fellowship Impact Webinar - 09 Feb 2022 (10:00-11:30HRS)

Welcome to the next in a series of webinars facilitated by the Community for Analytical Measurement Science. During this event we will be joined by CAMS 2020 Fellows who will provide us with updates on their latest research, its application, reach and impact across academia and industry. We will also hear from our 2020 and 2021 Poster Competition Winners, who will be taking part in the session's live Q&A. Please contact Secretariat@cams-uk.co.uk to register.

OTHER COMMUNITY NEWSLETTERS YOU MAY BE INTERESTED IN

[Chemistry in Europe – Brussels News Update - EUChemS](#)

To view previous issues of Analytical Matters please use the link: <http://rsc.li/analytical-matters>