

RSC NEWS

APRIL 2015 www.rsc.org

Setting the agenda for science

What's in store for science
in the next parliament?

Our honorary
fellows
p8

Officially
Amazing
p12



ROYAL SOCIETY
OF CHEMISTRY



▶▶ More than 40 of our members attended the Big Bang Fair from 11-14 March – to educate, inform and inspire young people with their own experiences of chemistry (see more on p4). Images © Stephen Lake / Royal Society of Chemistry



▶ Our regional meetings for 2015 have come to a close. On 5 March, members in the Wales region met at Cardiff's magnificent Millennium Stadium, complete with view over the pitch. Image © Royal Society of Chemistry

▶ The RSC Pakistan Section and the Department of Chemistry at FCC University, in Lahore, organised a conference on Medicinal Chemistry. Image © Dr Ashraf Chaudhry



▶ 'Officially Amazing': Guinness World Record for the world's largest practical science lesson (feature on p12). Image © NI Science Festival / Paula McManus Photography

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Welcome to our newest members



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Snapshot

A look at the latest news from around the world

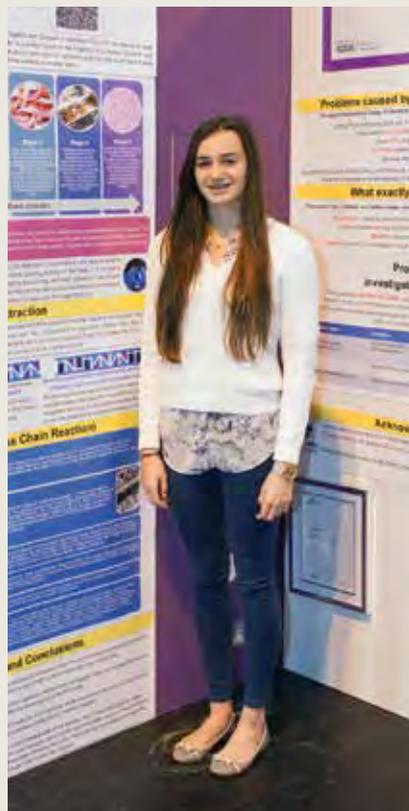
IN BRIEF

NSEC winner

The Big Bang Fair also hosts the finals of the National Science and Engineering Competition. The competition is open to all 11-18 year olds living in the UK and provides young people with the opportunity to build their skills and confidence in project-based work.

Each year our members are invited to judge the entries that focus on chemistry, and this year the Royal Society of Chemistry Prize was awarded to Charlotte Duff from Whitley Bay High School. In her Newcastle University-based research project, *Investigation of Potential Biomarkers for Urinary Tract Infections*, Charlotte tried to identify a protein that could provide the basis for a quick and easy clinical test for infection.

The judges were particularly impressed by her subject knowledge and understanding of the techniques she used and Charlotte will now receive £500 and a work-experience placement to develop her skills further.



© STEPHEN LAKE / ROYAL SOCIETY OF CHEMISTRY

Big Bang Fair 2015

Educating, informing and inspiring

From 11-14 March, more than 40 members of the Royal Society of Chemistry attended the Big Bang Fair – to educate, inform and inspire young people with their own experiences of chemistry.

With around 80,000 visitors attending, the Big Bang Fair is the largest celebration of science, technology, engineering and maths for young people in the UK.

Through a combination of hands-on activities, demonstrations and high-tech kit, our exhibition stand was designed to demonstrate that chemistry is all around us and contributes significantly to the lives of us all.

Members promoted our 2015 Global Experiment by demonstrating the science of hydrogels, outlining their uses and

discussing their potential impacts on the environment; introduced analytical chemistry by providing visitors with the opportunity to use an infrared spectrometer, and encouraged students to consider importance of structure and bonding by challenging them to build a model of diamond in the quickest time possible.

Providing our members with the opportunity to effectively engage with newcomers to the chemical sciences is a core strand of our outreach strategy. For more information on how you can get involved visit <http://rsc.li/take-part>

▼ RSC members inspiring the next generation at the Big Bang Fair.



SET for Britain

Thirty young chemists presented posters at Parliament in the final of SET for Britain. Professor Helen Fielding, from our Council, was among the judges and said the standard of the presentations was "inspirational".

"Chemistry is crucial to society, playing an important role in energy, health, food, and tackling climate change. We hope that many more talented scientists – like these finalists – have the opportunity to contribute to society," she added.

Yuval Elani, a Research Fellow at Imperial College, London, said he "couldn't be happier" as he claimed the top prize – a gold medal and £3000 – for his poster on research developing artificial cells that mimic biological ones for medicinal and drug delivery applications.

Natalie Theodoulou was second with her poster on research that focuses on the development of chemical tools to enable drug discovery.

"It's fantastic to present to so many people and it has given me a lot of confidence – for my PhD studies and for applying for conferences in the future," said Natalie, who is studying

► Clockwise from top left: Stephen Benn, Andrew Miller MP, Helen Fielding, Angela Strank, Natalie Theodoulou, Yuval Elani and Ryan Gorman.



© JOHN DEHMAN / SET FOR BRITAIN

on a collaborative industrial programme between GlaxoSmithKline and the University of Strathclyde.

Ryan Gorman, a final year chemistry PhD student at the University of York, got the bronze medal. He's researching making drug synthesis affordable and more environmentally friendly using copper catalysis.

"I was honoured just to be selected to be here. There are so many fantastic posters and there is so much great research," he said.

Andrew Miller MP, Chairman of the Parliamentary and Scientific Committee, said the future of British science was "in safe hands".

"These early career engineers, mathematicians, and scientists are the architects of our future and SET for Britain is politicians' best opportunity to meet them and understand their work."

IN BRIEF

An update on our Outreach Fund

It is hugely encouraging to see the level of interest in the Outreach Fund since its launch in the summer of 2014. We have received nearly 200 applications and awarded over £200,000 to support activities that help raise the awareness of chemistry in people's everyday lives.

Large grants

In the funding cycle ending 31 October 2014 we awarded large grants to two projects; *Up to Your Element at the Festival of Curiosity* and *A Shedload of Science*.

Our support of the Festival of Curiosity will enable the project team to integrate a programme of chemistry-themed events throughout the four day festival in Dublin, while *A Shedload of Science* is a collaboration between Glasgow Science Festival, the University of Glasgow and community organisations, which explains the contribution of the chemical sciences to society and create a network of researchers confident in their ability to engage with the public.

Our review panel said: "*The project has the potential to reach some of the most disengaged and often-overlooked members of our society and has set itself very clear aims, backed by a well-considered strategy*".

Reaching all corners

Medium grants were awarded for a variety of projects, including interactive school workshops and a science comedy show at the Edinburgh Fringe. The largest of our medium grants was awarded to Dr Robyn Wheldon-Williams MRSC, to support delivery of the Flash Bang show to schools throughout Wales. Robyn said: "*The show has been one of the most successful at the National Eisteddfod, engaging thousands of children and their parents in Chemistry. Thanks to support from the Outreach Fund, we are now able to take it on the road to visit all corners of Wales.*"

Apply now...

The next deadline for application is 30 April 2015. Following the deadline, the fund will not reopen until September 2015, allowing us to evaluate both the fund and the projects that we have supported so far. During this time RSC Member Networks will be able to apply for funding to run events during Chemistry Week 2015.

For a list of all previous funding and more details on how to apply to the Outreach Fund, visit <http://rsc.li/outreach-fund>

Training Vouchers for EnterprisePlus companies now open for applications

EnterprisePlus, the Royal Society of Chemistry's service for micro, small, and medium companies in the chemical sciences, has now launched the Training Vouchers scheme to enhance CPD in its member companies.

The Training Vouchers will provide up to £1,000 towards the cost of a training course nominated by a member at one of our 200 EnterprisePlus companies. This will enable staff member to develop the skills and competencies needed to advance their businesses and their careers.

Access to skills and training emerged as one of the top concerns of small businesses in a recent survey conducted by the Royal Society of Chemistry. Small chemical science companies often find that they cannot

afford to train their staff, given the uncertainties over cash flow and budgets, and it is hoped that the Training Vouchers will help to alleviate this barrier.

The launch of the Training Vouchers is another step towards strengthening the Royal Society of Chemistry's support to its members for professional development: in November we released our database of Approved Training courses, which helps our members to find the high-quality training they need. Our online CPD tool is also available to members to help them manage and record their skills and training.

More information about the Training Vouchers and how to apply can be found at www.rsc.org/sme/training-vouchers

One to one

Take advantage of a wide range of member services

Supporting graduate members taking the next steps

Once you have finished studying for your undergraduate degree or when your postgraduate research has come to an end, you may be wondering what's next. As the future leaders of our community, we're passionate about supporting our graduates with our member services.

Last year we helped over 1000 members with their careers. Using your membership once you graduate opens a gateway to our service and to our community more broadly. We can support you through our career management advice, networking opportunities, resources and grants, helping you in your next steps.

Shaping your future

As a chemical scientist you have endless career opportunities, from the more obvious choices of research and development through to less well-known routes such as working in the government. Whatever you choose, our career management team will help you throughout the process.

Our online resources contain practical advice and a chance for you to join in with webinars and discussions. We can also give you personalised consultations, either face to face, by phone or using Skype, as well as email support with your CV, and advice on interview techniques. And through events we organise both locally and nationally, you can find inspiration from our speakers, while networking with other members and fellow graduates.

Get support from our career management team by emailing careers@rsc.org

Helping you financially

"My Small Grant award allowed me to visit the lab at the University of British Columbia for four weeks. It enabled a discussion at the Royal Society of Chemistry's Chemical Biology awards symposium last year, held at the University of Bristol, to develop into a full collaboration." Kieran Hudson AMRSC

Funding makes a huge difference to your opportunities, and we are here to help.



Attending conferences is a great way to talk about your research, network with others in your field and stay up to date with the chemical sciences. If you are a post-doctoral researcher within five years of completing your PhD, up to £800 is available to help you travel to conferences both in the UK and overseas. We can also help you to attend conferences with grants of up to £150.

To find out more about what conference and travel grants are available to you, visit www.rsc.org/awards-funding/funding/

Our Benevolent Fund offers breathing space grants to support recent graduates looking for their first job. If you're struggling with large student debts and living independently then you may be eligible for a one-off payment of £300 to spend however you need.

For more information about these grants, contact the Benevolent Fund on 01223 432227 or benfund@rsc.org

Providing you with resources

"The Virtual Library has been a convenient source of online materials, while the Library itself in Burlington House offers a really wonderful atmosphere for working." Pip Hellier

Once you graduate, you may feel the loss of your university library and might not be able to afford hefty subscriptions to your favourite journal titles. That's where we can help. We will keep you up to date, wherever you are, through our Virtual Library, giving you free online access to a range of well-known journals, books and databases, including ScienceDirect, Springer and Reaxys.

To access the Virtual Library, visit www.rsc.org/virtuallibrary

If you're in London and looking for a quiet workspace, then visit our library at Burlington House. Here you can use our Members'

Computer Room from Monday to Friday, 9am-5pm, and you will find hard copies of books and journals in our Reading Room.

For more information about our Library, including opening times, visit www.rsc.org/library

Creating networking opportunities

"The diversity of chemistry, and the activities and opportunities have allowed me to form important connections." Dr Matthew Tozer

Sharing your ideas and meeting new people can create great opportunities. Our networks can put you in touch with other members and build your professional contacts, from fellow recent graduates through to those with more established careers.

Our 75 interest groups, based on scientific interest, offer a range of events that benefit members in the early stages of their career, and often give out awards and bursaries to recent graduates. And through our 35 local sections, 22 international sections and our younger member network, we can help you develop both personally and professionally, from organising and attending events to participating in outreach.

If you want to find out how to get involved in our networks, email networks@rsc.org

Profile

A closer look at our members and their interests



John Gleeson is a PhD student at the School of Veterinary Medicine at University College Dublin and one of our 175 Faces of Chemistry.

"I ended up discovering chemistry was something I was actually really good at. I loved chemistry and adore whenever I get to use my analytical chemistry knowledge."

John Gleeson

Meet the winner of the inaugural Take 1... Minute for Chemistry in Health competition

Q What brought you into chemistry?

A I suppose it might have seemed very likely to happen because both my father's parents were pharmacists, and my parents encouraged my (highly!) inquisitive nature as a child. My mother always had a quirky taste for food and I'd definitely attribute that to my current career in food science. Being fascinated and learning has always given me a little buzz.

I chose biology, music and history for my Leaving Certificate as at that time I wanted to study classics with a focus on Greek Mythology. However, my biology teacher in Templeogue College, Ms Justine Gates, reignited my passion for science and particularly the notion of studying the chemistry processes within biological systems. She flipped the switch and I'm so grateful for that!

I studied pharmaceutical science first and then transferred to Nutraceuticals – combining food science with pharmaceuticals.

I hadn't studied chemistry since I was 15 in school, so I was rather nervous of tackling it at 18 and at a higher level. I ended up discovering chemistry was something I was actually really good at. I loved chemistry and adore whenever I get to use my analytical chemistry knowledge.

Q What is your current research about?

A My PhD involves looking at the short protein fragments or peptides originally found in foods such as milk and chicken muscle. The aim is towards applying techniques from oral pharmaceuticals to food compounds that help increase their rate of absorption into the blood stream. This will allow people who are pre-hypertensive maintain a normal healthy blood pressure.

Q What drives your interest in science communication?

A I think I have a responsibility to ensure that the public have access to information on my research in a digestible manner. People like VlogBrothers on YouTube and their CrashCourse series help to remove barriers to learning and allow everyone access to the information which can allow them progress to university. These videos tend to be short and concise can help with revision or learning a new topic.

Overall, I think times are changing for under-represented groups in general and as a young researcher, it's nice to look at journal editor-in-chiefs or professors and see different groups represented. Barriers are still there though. There are students from families with financial burdens or low income areas, that aren't afforded the same opportunities. Students who don't have access to grind schools or private tutoring ahead of pre-university exams are at a disadvantage at times. University students who must work for financial reasons generally have a higher burden too.

Q What do you say to those starting out in chemistry?

A Fail often, fail fast, and learn to suss out everything that leads to that failure so you can control it in the future. And then when you get it to click, well that's a feeling that people outside of science struggle to comprehend, it's exhilarating.

Chemistry and science can be intimidating, and the best advice I would give anyone is to swallow your pride and ask for help.

Q What comes next for you?

A I'd love to be a leading researcher in the nutraceutical field where the wealth of knowledge in components of native plants, seaweeds and foods is only beginning to be tapped into. And to keep thoroughly enjoying being fascinated and learning.

TAKE 2... VOTE NOW!

John won the first Take 1... Minute for Chemistry in Health competition in 2013 for his science communication video titled *Harvesting Food for Health*.

The competition challenges undergraduates, PhD students, post docs, and early career researchers to communicate the importance of chemistry in human health in a minute or less.

Voting is now open for this year's Take 1... Minute for Chemistry in Health competition – you can see the six excellent finalists and choose your favourite at <http://rsc.li/take-1-vote>.

Voting closes on 17 April 2015.

Our honorary fellows

WORDS
EDWIN SILVESTER

We recognise substantial contributions that individuals make to the chemical science community by awarding them honorary fellowship to the Royal Society of Chemistry. We welcome eight new honorary fellows, including three Nobel Laureates and a Knight of the Realm. To find out how to nominate someone or for a list of all honorary fellows, visit www.rsc.org/honfrsc

Surpassing the limitations of the light microscope



Eric Betzig HonFRSC

Janelia Research Campus,
Howard Hughes Medical Institute,
Ashburn, VA, USA

IMAGE © MATT STALEY



Stefan W Hell HonFRSC

Max Planck Institute for Biophysical
Chemistry, Göttingen, and German Cancer
Research Center, Heidelberg, Germany

IMAGE © MAX PLANCK INSTITUTE FOR BIOCHEMISTRY



William E Moerner HonFRSC

Stanford University, Stanford,
CA, USA

IMAGE © KEVIN LOWDER

The Royal Swedish Academy of Sciences awarded the Nobel Prize in Chemistry for 2014 to Eric Betzig, Stefan W Hell and William E Moerner, 'for the development of super-resolved fluorescence microscopy'.

For a long time optical microscopy was held back by a presumed limitation: that it would never obtain a better resolution than half the wavelength of light. Helped by fluorescent molecules the Nobel Laureates in Chemistry 2014 ingeniously circumvented this limitation. Their ground-breaking work has brought optical microscopy into the nanodimension.

In what has become known as nanoscopy, scientists visualize the pathways of individual molecules inside living cells. They can see how molecules create synapses between nerve cells in the brain; they can track proteins involved in Parkinson's, Alzheimer's and Huntington's diseases as they aggregate; they follow individual proteins in fertilized eggs as these divide into embryos.

In 1873, the microscopist Ernst Abbe stipulated a physical limit for the maximum resolution of traditional optical microscopy: it could never become better than 0.2 micrometres. Eric Betzig, Stefan W Hell and

William E Moerner are awarded the Nobel Prize in Chemistry 2014 for having bypassed this limit. Due to their achievements the optical microscope can now peer into the nanoworld, though using two different principles.

Stimulated emission depletion (STED) microscopy, developed by Stefan Hell, uses two laser beams; one stimulates fluorescent molecules to glow, another cancels out all fluorescence except for that in a nanometre-sized volume. Scanning over the sample, nanometre for nanometre, yields an image with a resolution better than Abbe's limit.

Eric Betzig and William Moerner, working separately, laid the foundation for the second method, single-molecule microscopy. The method relies upon the possibility to turn the fluorescence of individual molecules on and off. Scientists image the same area multiple times, letting just a few interspersed molecules glow each time. Superimposing these images yields a dense super-image resolved at the nanolevel.

Today, nanoscopy is used world-wide and new knowledge of greatest benefit to mankind is produced on a daily basis.



Jacqueline Barton HonFRSC

Arthur and Marian Hanisch Memorial Professor of Chemistry and Chair of the Division of Chemistry and Chemical Engineering, California Institute of Technology, USA

Professor Jackie Barton has made outstanding contributions in several areas of chemistry. She pioneered the use of late transition metal complexes for the investigation of recognition and reactions of double helical DNA. She developed chiral complexes that recognise nucleic acid sites with specificities that compare favourably with DNA-binding proteins. Her insights provided a framework for the design of novel therapeutics.

Professor Barton received the 2010 National Medal of Science, the 2015 Priestly Medal, ACS (2015) and in 2012 she was elected member of the Institute of Medicine.

IMAGE © CALIFORNIA INSTITUTE OF TECHNOLOGY



Bengt Nordén HonFRSC

Professor of Physical Chemistry, Chalmers University of Technology, Sweden

Professor Bengt Nordén is a distinguished physical chemist and founder of the Molecular Frontiers Foundation, a global outreach organisation. He has pioneered polarised-light spectroscopy (Linear dichroism, LD) for studying transition moment directions in small molecules in anisotropic media.

In particular his work on 'Site Specific Linear Dichroism by Molecular Replacement' was a major breakthrough in the study of systems not amenable to crystallography or NMR structural analysis. Recently his group has identified an elongated conformation of nucleic acids which could explain the triplet base arrangement and the 64 combinations of the genetic code as a natural consequence of the stacking physics of DNA.

Professor Nordén has carried out tireless work for the Nobel Committee for Chemistry over many years and continues to do so. He travels the world as an ambassador and great enthusiast for his subject.

IMAGE © JAN-OLOF YXELL



Martyn Poliakoff HonFRSC

Research Professor in Chemistry, University of Nottingham

Professor Sir Martyn Poliakoff is the foreign secretary and vice-president of the Royal Society. He is also a green chemist, working on gaining insights into fundamental chemistry and on developing environmentally acceptable chemical processes and materials.

He began his academic career as at King's College, Cambridge, then worked in the Department of Inorganic Chemistry of the University of Newcastle.

In 1979, he gained a Lectureship in the Department of Chemistry at the University of Nottingham where he is now a Research Professor in Chemistry. Professor Poliakoff is also an Honorary Professor of Chemistry at Moscow State University and was elected foreign member of the Russian Academy of Sciences in 2011.

He was awarded a CBE for 'Services to Sciences' in 2008 and, as we reported in our February edition, was knighted 'for services to the chemical sciences' in the 2015 New Year Honours.

IMAGE © CAMPBELL ROWLEY/UNIVERSITY OF NOTTINGHAM



Gábor A Somorjai HonFRSC

Professor of Chemistry, Department of Chemistry, University of California, Berkeley

Professor Gábor A Somorjai is a surface scientist, whose work impacts on a number of areas of science, including catalysis, tribology and nanotechnology. His group is studying the structure, bonding, and reactivity at solid surfaces on the atomic and molecular level.

He has been a pioneer in the development of our understanding of a wide range of phenomena – from surface reconstructions to imaging catalytic reactions at high pressure, from structured nanoparticle fabrication to theoretical aspects of diffraction analysis.

Professor Somorjai is the author of over 1,000 scientific papers and inventor of more than 50 patents, his work has received ~ 50,000 citations (h-index over 100), ranking him among the most highly cited chemists worldwide.

IMAGE © UNIVERSITY OF CALIFORNIA, BERKELEY



Julia Slingo HonFRSC

Chief Scientist, Met Office

Professor Dame Julia Slingo is the Chief Scientist at the Met Office and is a world renowned expert in climate modelling and research. She was the first external scientist to be appointed to her current role and has been very vocal on climate change issues, publicly stating that climate change is likely to be a factor in the storms and floods Britain had been experiencing in recent times.

Julia graduated from the University of Bristol with a BSc in Physics and joined the UK Met Office.

In 1986 she moved to the National Centre for Atmospheric Research in the US where she successfully completed her PhD thesis from the University of Bristol through a series of published papers.

She was awarded an OBE in 2008, a DBE in 2014 and continues to be an excellent role model for female scientists.

IMAGE © MET OFFICE

Setting the agenda for science

The UK general election taking place on Thursday 7 May will have a big impact on the issues that the chemical science community cares about

The UK's strong research base creates growth and jobs, but there are concerns that our structurally low level of investment will lead to us falling behind our competitors. Chemistry also influences nearly all areas of everyday life and consequently the interests of those involved in the chemical sciences spread into almost all areas of public policy – including climate change, the need for clean sustainable energy, the need to maintain food production and how we educate and train our young people so that they can continue working to solve these issues in the future.

So we asked political parties what their priorities for science are and how they would ensure that the UK remains the best place in the world to do science.

For more information about the campaigning work that we do and to take action in our campaigns on science funding and specialist teaching, go to <http://rsc.li/campaign>

WORDS
MATT DAVIES





Naomi Long MP

Alliance

Alliance believes the future of the economy will be based on securing high-tech, highly-innovative and highly-skilled jobs. In Westminster, Alliance will support changes to improve the standing of science, skills and innovation.

This will include increasing investment in science and research through the UK Research Councils, due to the clear link between state investment in science and economic prosperity. We will also audit what scientific infrastructure is lacking and ensure it is considered part of the UK's scientific investment programmes.

Alliance will specifically identify what gap exists in funding and infrastructure for science in Northern Ireland, as well as supporting the universities to down greater levels of science and research funding from both the Research Councils and the EU.



Rt Hon Greg Clark MP

Conservative

Scientific endeavour is inherently worthwhile, expanding the frontier of human understanding.

We have invested in British science, despite making difficult decisions elsewhere. We have protected science funding in this Parliament and made the longest commitment to science capital in decades – £5.9 billion from 2016 to 2021. We are incentivising companies to invest in R&D and bringing together scientists, engineers and businesses to turn ideas into reality by setting up a network of Catapult centres.

Science and innovation are at the heart of our long-term economic plan. By investing in our future we are helping to grow new industries and create more high quality jobs, meaning more financial security for people across the country.



Rt Hon Liam Byrne MP

Labour

Britain's science base is under threat. University finances are at risk from a bankrupt student loan system. The Conservative's reckless plans to take public spending back to the 1930s will cripple the nation's science and skills budgets. We're being cut off from global science partners as this government damages our vital research relationship with the EU and turns away the best and the brightest international students.

Labour's priorities couldn't be more different. We'll fix university finances, introduce a long-term R&D funding framework and invest in gold standard vocational training to get more young men and women into STEM subjects. A Labour government will also take international students out the net migration target and secure Britain's place in a reformed EU.



Dr Julian Huppert MP

Liberal Democrat

As a chemist myself – an FRSC – science and research are absolutely key to my thinking. I'm delighted that my party has backed my proposals to make sure we remain world class.

In the next Parliament, we will ring-fence the science budget for both capital and revenue, and continue to press for a 15-year cross party agreement to increase the budget by 3% above inflation. That would provide the certainty people need.

Good science needs good people, so we'll help unleash future talent by requiring STEM specialists at schools, and we'll promote diversity so no one is left out because of gender, ethnicity, socioeconomic background or anything else.

We'll also make it easier for key workers to come here from overseas.



Dr Alasdair McDonnell MP

SDLP

Love of science is something that needs to be nurtured at an early age. Our first priority is ensuring that science is supported at primary school level by hiring more teachers alongside encouraging innovative teaching methods.

We continue to back funding for Third level research, as institutions such as Queens University produce world leading research from Belfast. Specialism, especially in chemical engineering and biomedical research, is a value added component of the economic product offered in Northern Ireland and we must continue to encourage that.

In addition we welcome the development of Science Parks as quality bases for R&D and commercialisation. Specific science based clustering in sites across Northern Ireland has given us a competitive advantage and should be supported.



Mike Weir MP

SNP

The SNP ambition for Scotland includes substantial growth in renewable energy, which not only contributes to our low carbon future but also can create thousands of new sustainable jobs. We are also heavily promoting Scotland's important food and drink sector. Both of these are heavily dependent upon, and show the importance of innovation and science to everyday life.

We are committed to protecting the cash ring fence of the science budget. Currently, Scotland has over 620 organisations in the science and innovation sector employing over 30,000 staff and the SNP Scottish government understand the importance of well-funded science and research. Investing in Science and innovation can strengthen our performance in export markets, support economic growth and maintain our global reputation.

Supersized science lesson

On 24 February 2015, 1,339 schoolchildren at the Odyssey arena in Belfast smashed the Guinness World Record™ for the largest practical science lesson.



Organised by our Ireland regional team in collaboration with the Northern Ireland Science Festival and supported by the British Council, this huge event has been in the planning since the summer of 2014.

People, planning and preparation

The regional team works to support our members who told us that they wanted to get more involved with science outreach, and support chemistry teachers in getting their students to meet real scientists and be inspired about science. This idea seemed to fit the bill really well! We decided to invite primary as well as secondary schools because we know that primary teachers are more likely to lack confidence in teaching science. This is something we are bringing to the attention of the All-Party Group on Science and Technology at Stormont.

The Northern Ireland Science Festival director, Chris McCreery, secured funding from the British Council and booked the Odyssey arena, while Education Co-ordinator for Ireland, Stephanie Nelson, got to work on the huge task of organising the schools. We used our Learn Chemistry database to invite teachers and almost all of the available places were snapped up shortly before Christmas 2014, with the remaining places filled via the festival website soon afterwards.

Then came the huge task of recruiting and training over 100 volunteer scientists to help on the day. Local employers such as Almac and Actavis sent volunteers, together with students from Queen's University and the University of Ulster. The Northern Ireland local section and members also turned out in force.

Organisation on the day

Starting at 6am, the volunteer team put out 1,500 chairs, 200 tables and all the student experiment packs, even arranging student snack packs (thanks to local crisp company Tayto).

The students arrived and had to be counted through the turnstiles with the utmost attention to detail, provided by the experienced Odyssey staff.

The massive practical lesson was a 'crime scene investigation' based on a chromatography experiment that Stephanie had used successfully as a teacher. Local professional 'Scientific Sue' took on the big teaching role on the day and added her own twists such as separating salt and pepper via a miniature 'tea-bag' and doing a supersized demo on separations with golf balls, salt and Smarties.

After an exciting hour's lesson, everyone waited nervously to see if the record had been broken.

Official Guinness World Records Adjudicator Pravin Patel was satisfied with the count and the organisation. He said, "To complete the record they had to follow a set of guidelines that anyone attempting the record has to follow. They had to complete at least two experiments and complete a workbook, which they did and it was fantastic."

Stephen Farry, Minister for Employment and Learning said "I congratulate all the students here today who have come together to become world record breakers. I am pleased that the previous world record has not only been surpassed, but vastly exceeded.

"After meeting the students who took part, their enthusiasm for STEM subjects is clear for all to see. I'm sure that they will maintain this enthusiasm as they continue to study STEM subjects at school, college and university in Northern Ireland, and will ultimately seek employment in these key sectors of our local economy."

Stephanie Nelson summed up the success of the day. "We were overwhelmed with the support and engagement that we got for this event, from the volunteers to the teachers to the financial supporters", she said.

"And while it is important to us that the record has the Royal Society of Chemistry's name attached to it, it really belongs to everyone who made this happen. We couldn't have done it without them. We think that this was a fantastic achievement for Belfast, for the Northern Ireland Science Festival and for our members."

WORDS

ANGELA MCKEOWN



Opinion

Letters and comments on RSC activities and issues

FROM THE EDITOR



It can hardly have escaped your attention that the UK is in the middle of an election campaign. And while debate rages over who will get the keys to 10

Downing Street in May, our public affairs team have been talking to legislators throughout the UK.

We've sought a range of political views, with many of the main parties setting out their priorities for science and how they would ensure that the UK continues to compete on a global scale (p10).

We recognise the contributions that individuals make to the chemical science community in a number of ways, including the prestigious honorary fellowships to the Royal Society of Chemistry, which this year includes three Nobel Laureates and a Knight of the Realm (p8).

Our Northern Ireland regional education team organised a Guinness World Record, inspiring an incredible 1,339 budding chemists in the world's largest practical science lesson (p12). That makes us "Officially Amazing".

Edwin Silvester
rscnews@rsc.org

RSC News welcomes letters, which should be concise (normally less than 300 words) and timely. Those selected for publication are subject to editing for clarity and length. Letters should be marked 'for publication'; letters are not routinely acknowledged. rscnews@rsc.org

You can also let us know your thoughts and comments via Twitter or Facebook.



@RSC_Comms



facebook.com/RoyalSocietyofChemistry

The scope of our Benevolent Fund

Ben Fund (pp8-9, RSC News, March 2015)

I know that this was established in 1920 explicitly for RIC/RSC members and their relatives.

Is there a way in which genuine chemist non-members (i.e. who have never been members) may also be helped, should the need arise?

Professor D W Jones, CChem FRSC, Bingley, UK

This is an interesting suggestion which should be considered carefully. Our current Trust Deed does not currently allow for this, and if we were to make that change in the future, we would need to give an opportunity for members to input feedback on this specific change.

We would also need to consider whether we would apply this to international chemists (as all our members, including those who currently live outside the UK, are eligible for Benevolent Fund support).

This is something we will certainly keep in mind as we scope some broader ideas for how the benevolent fund can most appropriately be used over the coming 12 months.

Sheena Elliott, Member Services Manager, Royal Society of Chemistry

A great man

Remembering Jack Lewis, president of the Royal Society of Chemistry, 1986-1988

6 March 2015

Last weekend there was a memorial service attended by a great many people for Professor Lord Lewis. It was preceded by a symposium the day before, with speakers describing his many activities. Having attended both events, I was moved to write a short account.

Robinson College, Cambridge was flying its flag on Saturday 28 February, in memory of its late lamented founding warden. It was not at half-mast (as it was last July when he died) because it marked the occasion of a memorial service in the chapel to celebrate and remember a lifetime's dedication to public service and the furtherance of science.

"Jack", as he was known to his friends, gave 26 years of his life to Robinson College, first overseeing its building under the guidance of the benefactor and then serving as the first warden.

To appreciate his success in creating an institution that in due course took its place in the University hierarchy, it is only necessary to look around "the house that Jack built", to quote the current warden.

As a symbol of gratitude for all that he did, a new staircase to the Gallery has been built in the chapel, suitably inscribed with his name and the dictum "his wisdom shaped this college".

So many people wished to attend the service that they could not all be accommodated in the chapel and the service was relayed to the auditorium.

On the previous day, a symposium reflecting on some of his many achievements was chaired by Emeritus professor Brian Johnson, who had worked closely with Jack for over 30 years and followed him into the Chair of Inorganic Chemistry.

The Royal Society of Chemistry generously published a collection of Jack's papers, which was distributed at the symposium. The reprints were chosen by his co-authors to highlight the various areas of his chemical interests under the title "in memory of Lord Jack Lewis".

G Gamlen CChem FRSC, Altrincham, UK

What next for Forensic Science provision in the UK?

Whoever is in government after this year's UK election, there is a clear need for a thorough review of spending on forensic services, says Alan Handley

It is now three years since the closure of the Forensic Science Service (FSS) in England and Wales and concerns expressed at the time have not gone away. An article in *RSC News* in April that year identified both insufficient consultation before the decision and the negative impact on forensics research that might result.

It was clear that work previously done by FSS would have to be allocated either to private labs or in-house police labs. With a declining trend in police spending on forensics at the time, there was concern that more work would be brought into in-house police labs as a cost-saving exercise – despite many such labs lacking the desired accreditation specified by the Forensic Science Regulator, with potential consequences for the criminal justice system/miscarriages of justice.

The NAO report...

A recent report by the National Audit Office (NAO) has confirmed these concerns. For a start, getting an accurate picture of the landscape has proved impossible. The NAO have not been able to obtain comprehensive detailed data on how much police forces are spending on the various forensics services on offer.

This makes comparisons between the 43 police forces in England and Wales very difficult. However, the NAO have pointed out that only one police force entirely outsourced its forensics work.

Despite the lack of detailed data on the size of the overall UK forensics market or the level of spending on forensic lab services by the police, it is clear that increased use has been made of in-house police labs since 2012.

The NAO report highlights that the external forensics services market has shrunk from £104 million in 2012-2013 to £81 million in 2014-2015. Meanwhile the internal market (i.e. police in-house labs) has grown from £113 million to £122 million over the same period.

In addition to the quality concerns held by many over unaccredited police labs doing more of the work, the overall fall in UK capacity is worrying. Delays caused by insufficient capacity and quality issues could significantly add to the cost of criminal justice in this country, as well as risking miscarriages of justice.

These points have been echoed by Andrew Miller MP, chair of the House of Commons Science and Technology Committee, which invited the NAO to investigate. He was not surprised by these findings and has raised concerns over the adverse effect on the value of scientific evidence in criminal cases.

Addressing the need into the future...

Whoever is in government after this year's UK election, there is a clear need for a thorough review of spending on forensic services, along with providing the Forensic Science Regulator with the teeth to insist that all forensic laboratories comply with accreditation criteria.

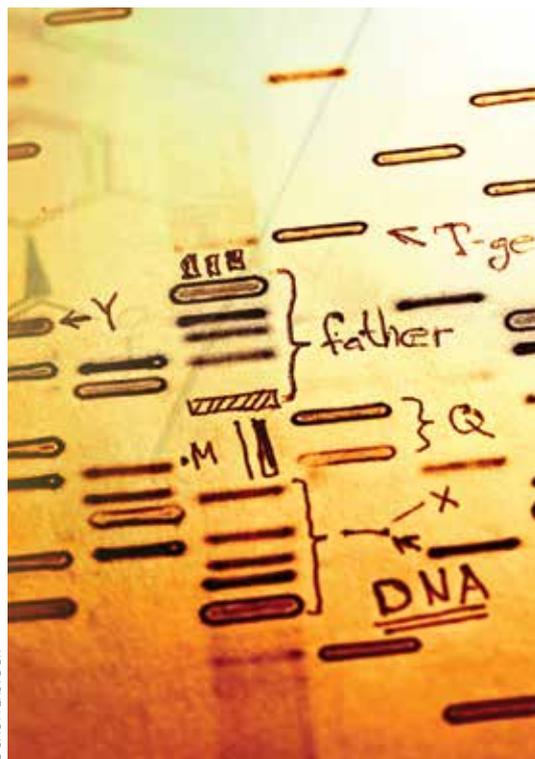
The long-awaited Home Office Strategy on Forensic provision will need to include a commitment to producing a sustainable system for forensic service provision in the future.

If the UK forensics research base is to remain strong – and to take the international lead in developing novel and improved technologies in forensic science – we need to engage the EPSRC and other bodies, for example the Forensics Science Society and the University Heads of Chemistry UK.

As immediate past president of our Analytical Division you'd expect me to extol the value of analytical chemistry, wouldn't you? But if science is to bring startling clarity to criminal investigations (and we know it can) our community must highlight the vital importance both of the provision and quality of scientific services.



Alan Handley, CChem FRSC is a Senior Scientist and Head of Knowledge Exchange and Development at LGC.



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"In addition to quality concerns held by many over unaccredited police labs doing more of the work, the overall fall in UK capacity is worrying."

Diary

Your guide to all important events

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NOTICES



Our Career Management Team in Indonesia, supporting members and students at accredited universities (p21).

Further information

To find out more about any event on this page, see www.rsc.org/events

Call +44 (0) 1223 43 2254/2380

Or email events@rsc.org

RSC conferences

ISACS18

Challenges in Organic Materials and Supramolecular Chemistry

19–21 November 2015
Bangalore, India

Announcing: the first ever ISACS conference in India

2015's International Symposia on Advancing the Chemical Sciences (ISACS) series culminates in Bangalore this November. This is the 18th ISACS conference but the very first in India and brings together world-leading experts from several fields under the broad research disciplines of organic materials and supramolecular chemistry.

The conference will provide an overview of some of the key challenges within the field, in an environment designed for interaction and networking. There will also be extensive poster sessions in the evening and questions after each talk.

Visit the conference website for updates.

<http://rsc.li/isacs18>



Joliot-Curie Conference 2015

16–17 September 2015
Murray Edwards College, Cambridge

Poster abstract submission deadline – 22 July 2015

Building on the success of the last three years, the Joliot-Curie Conference 2015 is designed to raise aspirations of young chemists, particularly those underrepresented in chemistry research careers in academia or industry. With a range of panel discussions, interactive workshops and networking sessions, the conference provides information and support to enable you to overcome barriers to career progression.

Make the most of this highly interactive networking opportunity: submit a poster abstract based on your current research and get advice from experienced researchers on how best to present your poster.

Shape your future career in chemistry research: register now

The Joliot-Curie Conference 2015 is open to final year PhD students, post-doctoral researchers and other early career chemists from any UK or Republic of Ireland organisation. Registration and meals are free.

<http://rsc.li/joliot-curie-2015>

DATES AND DEADLINES

Challenges in Chemical Biology (ISACS16)

15–18 June 2015
Zurich, Switzerland
Poster submission deadline: 7 April 2015
Early bird registration deadline: 27 April 2015
Final registration deadline: 18 May 2015
<http://rsc.li/isacs16>

Medicinal Chemistry Residential School

21–26 June 2015
Loughborough, UK
Early bird registration deadline: 19 April 2015
Poster submission deadline: 19 April 2015
<http://rsc.li/med-chem-2015>

Solid Oxide Electrolysis: Fuels and Feedstocks from Water and Air (Faraday Discussion)

13–15 July 2015
York, UK
Poster submission deadline: 4 May 2015
Early bird registration deadline: 25 May 2015
<http://rsc.li/electrolysis-fd2015>

12th International Conference on Materials Chemistry (MC12)

20–23 July 2015
York, UK
Poster submission deadline: 11 May 2015
<http://rsc.li/mc12>

Challenges in Chemical Renewable Energy (ISACS17)

8–11 September 2015
Rio de Janeiro, Brazil
Oral abstract deadline: 27 April 2015
<http://rsc.li/isacs17>

Nanoparticle Assembly: From Fundamentals to Applications

7–9 January 2016
Mumbai, India
Oral abstract deadline: 20 April 2015
<http://rsc.li/assembly-fd2016>

Events

Further information

The RSC News Diary this month lists Royal Society of Chemistry events from April to May 2015 that are held on our conference database. Further details on any of these meetings can be obtained from the named contact or from our conference website at www.rsc.org/events

You can search events by name, date or keywords and have the option to browse by location, subject area and event type.

EASTERN

East Anglia Section

RSC Joseph Chatt Award Lecture

7 April
University of East Anglia, Norwich
Professor Amy Rosenzweig of Northwestern University will give a lecture on her research in bioinorganic chemistry.
Contact John Fielden
01603 593137
john.fielden@uea.ac.uk

UEA School of Chemistry Research Seminar

15 April
University of East Anglia, Norwich
Professor Rudolf Allemann of the University of Cardiff will give a lecture on research in Biological Chemistry.
Contact John Fielden
01603 593137
john.fielden@uea.ac.uk

UEA School of Chemistry Research Seminar

22 April
University of East Anglia, Norwich
Professor Dek Woolfson of the University of Bristol will give a lecture on his research in Biological Chemistry and Synthetic Biology: 'Expanding the Universe of Possible Protein Structures and Assemblies by De Novo Design'.
Contact John Fielden
01603 593137
john.fielden@uea.ac.uk

Dr Keith Taber – RSC Award Lecture

20 May
University of East Anglia, Norwich
Dr Keith Taber of the University of Cambridge will give a lecture in honour of his RSC Education Award: 'The Imaginary and the Imagined: When scientific concepts meet students' conceptions'.
Contact John Fielden
01603 593137
john.fielden@uea.ac.uk

Essex Section

Spring Lunch

13 May
Galleywood Heritage Centre, Chelmsford
Lunch followed by a talk from Mr Nick Wickenden from the Chelmsford Museum entitled Roman Chelmsford. There is a £10 charge per attendee.
Contact Colin Ward
01375 407361
colinmward@blueyonder.co.uk

Other Events

Biological and Medicinal Chemistry Sector 26th Symposium on Medicinal Chemistry in Eastern England

23 April
The Fielder Centre, Hatfield
The symposium will comprise presentations covering various aspects of drug discovery, including medicinal chemistry case studies and SBDD, as well as more general topics related to medicinal chemistry and drug discovery. In addition, the meeting will offer excellent networking opportunities.
Contact Maggi Churchouse
01359 221004
maggi@maggichurchousevents.co.uk

INTERNATIONAL

Biological and Medicinal Chemistry Sector

Proteinase 2015: 9th RSC / SCI Symposium on Proteinase Inhibitor Design

13-14 April
Novartis, Basel, Switzerland
This symposium will cover progress in the design and synthesis of protease inhibitors for a diverse range of disease indications, while also covering a range of novel drug discovery activities: from 'Molecules to Medicines'. This meeting is aimed at medicinal chemists and other scientists interested in furthering their knowledge of proteases in the context of drug discovery.
Contact Maggi Churchouse
01359 221004
maggi@maggichurchousevents.co.uk

Faraday Division

Nanoparticle Synthesis and Assembly: Faraday Discussion

20-22 April
Argonne National Laboratory, Chicago, USA
Nanoparticles can be viewed as a new type of 'atom' with size dependent physical, optical and electronic properties that make them suitable for a wide variety of applications. There are many open questions in the field of nanoparticle synthesis and assembly.
Contact Claire Springett, RSC
01223 432537
events@rsc.org

2nd Organic Chemistry Frontiers International Symposium

21 April
Zhejiang University, Yuquan Campus, Hangzhou, China
The aim of this symposium is to bring together world-leading scientists to communicate and discuss advancing research in organic chemistry, stimulating the exchange of ideas and experiences and fostering new research collaborations for the sake of better chemistry and a better world. The Organic Chemistry Frontiers International Symposia are a series of meetings sponsored by Organic Chemistry Frontiers, a collaborative journal developed by the Chinese Chemical Society, the Royal Society of Chemistry and Shanghai Institute of Organic Chemistry.

Contact Wenjun Liu
+86 (0)10 5982 2339
OrgChemFrontiersED@rsc.org

International Symposium on Energy Conversion and Storage

31 May-1 June
Institute of Process Engineering, Chinese Academy of Sciences (IPE-CAS), Beijing, China
The symposium is supported by the Royal Society of Chemistry, and is hosted by Professor Dan Wang at the Institute of Process Engineering, Chinese Academy of Sciences.
Contact Events Team RSC, China
+86 (0)10 5982 2341
ChinaEvents@rsc.org

IRELAND

Northern Ireland Local Section

RSC Northern Ireland Annual Dinner

1 May
Ulster Reform Club, Belfast
The guest speaker at the Northern Ireland Local Section Annual Dinner is RSC deputy chief executive Stephen Hawthorne.
Contact Dermot Hanna
07894 309840
hughdiarmaid@btinternet.com

Other Events

Organic Division Ireland Regional Meeting

17 April
University College Cork, Cavanagh Pharmacy Building
RSC Natural Product Award 2014 Lecture will be given by Professor Ian Paterson and will coincide with the Organic Division Regional Symposium and other events at University College Cork. No formal registration required.
Contact Gerard McGlacken
+353 21 490 2866
g.mcglacken@ucc.ie

EVENTS

NORTH EAST

Newcastle upon Tyne and North East Section

Seminar – Dalton Young Researcher Award, 2014 – Dr Kogularamanan Suntharalingam

14 April
Newcastle University
Speakers will be asked to address a general audience drawn from all parts of the subject and related areas, and ranging from Stage 4 undergraduates to senior academic staff. All are welcome
Contact Graeme Turnbull
0191 227 4228
g.turnbull@unn.ac.uk

Sheffield and District Section

Retired Members Springtime Social

28 April
Sheffield Botanical Gardens
Lunch at The Curator's House, followed by tour of Botanical Gardens.
Contact Jackie Morton
01298 218437
jackie.morton@hst.gsi.gov.uk

Sheffield & District AGM

14 May
University of Sheffield
Contact Jackie Morton
01298 218437
jackie.morton@hst.gsi.gov.uk

Other Events

Organic Division North-Eastern Regional Meeting 2015

1 April
The University of Bradford
Showcasing organic and medicinal chemistry across the North East, this one day meeting will appeal to academic and industrial researchers. Including contributors from across the region, poster session for junior researchers, and Keynote address from the Bader Award winner, Professor David Procter.
Contact Helen Sheldrake
01274 233362
h.sheldrake@bradford.ac.uk

Inorganic Biochemistry Discussion Group (IBDG) Spring Meeting

9-10 April
University of York
A fantastic invited speaker line-up that includes several RSC Prize winners. Costs have been kept to a minimum and there are opportunities for early career researchers to present posters and short talks.
Contact Alison Parkin
01904 322561
alison.parkin@york.ac.uk

Fluorine Chemistry Group 15th Annual RSC Fluorine Subject Group Postgraduate Meeting

16-17 April
University of Durham, Van Mildert College
Contact Steven Cobb
0191 334 2086
s.l.cobb@durham.ac.uk

Analytical Division – North East Analytical Science in Art

14 May
Northumbria University
An early evening symposium on the application of analytical science to works of art.
Contact Professor John Dean
0191 227 3047
john.dean@northumbria.ac.uk

NORTH WEST

Lancaster and District Section

Annual Quiz Night Followed by a Buffet Supper

28 April
Preston's College, Preston
Quiz followed by a Buffet Supper prepared & served by the College Students.
Contact Harry Clarke
01995 640003
hclarke906@btinternet.com

Liverpool Section

Retired Members' Lunch and Talk

13 May
Southport Masonic Hall, Southport
Lunch will be followed by a talk on the 'Prehistoric Footprints at Formby'. Tickets are £16 and members can bring a guest.
Contact Dr Bob Lee
0151 334 7875
drboblee@msn.com

Liverpool Local Section AGM and Lecture

14 May
The National Wildflower Centre, Knowsley
The meeting will be followed by a lecture entitled 'The Light Fantastic: Photodynamics in the Age of Drug Resistance' by Mark Wainwright, Professor of Chemotherapy in the School of Pharmacy & Biomolecular Sciences at Liverpool John Moores University.
Contact I Buschmann
0151 949 9304
ibuschmann.rsc@gmail.com

Other Events

Automation and Analytical Management Group

Thermal Desorption – Then and Now

16 April
The Health and Safety Laboratory, Buxton
This conference takes a fascinating look at the early history and development of thermal desorption, and moves rapidly up to the here and now with technical presentations covering a wide variety of challenging applications. From split control to sample recollection, from the ubiquitous Tenax to exotic sorbents, samplers and traps, the evolution of this precision method and control software will be demonstrated in a series of application talks designed to stimulate interest as well as provide academic information.
Contact R Narayanswamy
07974 515265
conference@aaamg-rsc.org

Analytical Division RSC Analytical Awards Symposium

20 April
University of Manchester's Institute for Biotechnology (MIB).
Contact Christopher Cowan
0161 306 8713
christopher.cowan@manchester.ac.uk

Theoretical Chemistry Group Graduate Student Meeting

22 April
University of Manchester, School of Chemistry
All are welcome and there is no registration. Submit your abstract for either a talk (final year PhD students) or poster (other PhD students and all postdocs) to Dr Tanja van Mourik
tanja.vanmourik@st-andrews.ac.uk
Contact Richard Henschman
0161 306 5194
henschman@manchester.ac.uk

Heterocyclic and Synthesis Group 22nd Lakeland (Grasmere) Heterocyclic Conference

7-11 May
Grasmere Village, Lake District
An excellent line up of plenary speakers will be supported by a large number of supporting talks and postgraduate short talks, as well as a poster session.
Contact Professor Adrian Dobbs
020 8331 9689
a.dobbs@gre.ac.uk

SCOTLAND

Mid-Scotland Section

AGM & Dinner

24 April
Best Western Park Hotel, Falkirk
The AGM of the Mid-Scotland Section followed by a three-course dinner and an after-dinner talk. The speaker is Professor Alan Dronsfield and his topic is 'To Sleep, Perchance to Dream – the early chemical history of anaesthesia.'
Contact Mark Dennis
07859 027868
mark1_dennis@hotmail.com

Senior Members' Afternoon Tea

5 May
Bluebell Tea Room, Stirling
An invite to all our Senior Members to come along to renew old acquaintances and to catch up with all the news while enjoying a leisurely afternoon tea.
Contact Douglas McMillan
douglas_mcmillan@hotmail.co.uk

SOUTH EAST

Chilterns and Middlesex Section

The Livery Companies of the City of London

23 April
The Royal Society of Chemistry
A talk by Mr Murray Craig, Clerk of the Chamberlain's Court, Guildhall, entitled 'The Livery Companies of the City of London', followed by buffet lunch. Suitable for retired members.
Contact Stephen Robinson
020 8546 7940
stephenrobinson_3@hotmail.com

Downland Section

Visit to the Mullard Space Science Laboratory (MSSL)

20 May
The Mullard Space Science Laboratory, Holmbury St. Mary, Dorking
UCL's Department of Space and Climate Physics (MSSL) is a world-leading research organisation and is the UK's largest university-based space research group.
Contact John Harbridge
01306 881520
jharbridge@sky.com

Kent Section

RSC Golf Day

1 May
Weald of Kent Golf Club, Headcorn
With a variety of man-made and natural lakes and hazards the Weald of Kent is a challenge to golfers of all abilities. The Kent Section has kindly subsidised this event which is brought to you at a reduced price of £35 per person, and is open to both members and guests.
Contact Paul Douglas
07545 315123
paul.z.douglas@gmail.com

Other Events

Faraday Division

Corrosion Chemistry: Faraday Discussion

13-15 April
The Royal Society of Chemistry, Burlington House, London
Over the last decade or so, there has been immense progress in the development of tools, both experimental and theoretical, for probing the solid/fluid interface at the nanoscale. These advances open the way towards mechanistic understanding, and potentially prediction, of chemical processes occurring at this interface. Amongst the fields beginning to benefit from such effort is corrosion science, which is primarily concerned with degradation of metallic materials immersed in either liquid or gaseous environments, and control thereof.
Contact Events Department, RSC
01223 432254
events@rsc.org

Nucleic Acids Group

Nucleosides and Nucleotides: Synthetic and Biological Chemistry

17 April
The Royal Society of Chemistry, Burlington House, London
Nucleosides and nucleotides remain one of the most fruitful drug classes, providing about 50% of antiviral drugs and 20% of cancer drugs used in the UK. Nucleoside and nucleotide chemistry constitute a vibrant field of research for both synthetic and biological chemists. This meeting will bring together scientists at the interface of synthetic chemistry and biology to tackle current challenges and celebrate recent achievements in the field.
Contact Maggi Churchouse
01359 221004
maggi@maggichurchousevents.co.uk

Dalton Division

Southern Dalton Meeting

20-21 April
University of Sussex
Contact Oscar Navarro
01273 678734
o.navarro@sussex.ac.uk

Biotechnology Group

Small-molecule Potentiation and Differentiation of Stem Cells: a Growth Area?

20 April
The Royal Society of Chemistry, Burlington House, London
To allow the potential of stem cells to be realised in the clinic, the unique ability of small molecules to direct and control stem cell fate has been increasingly harnessed, enabling controlled tissue repair and regeneration and meeting key challenges such as cell availability and allogenic rejection. At this symposium key scientists and stakeholders in the area will identify new perspectives and discuss future challenges for the use of chemical approaches to facilitate stem cell therapy and regenerative medicine.
Contact Irene Francois
01483 715126
irene.francois@ntlworld.com

Chemical Information and Computer Applications Group

From Big Data to Chemical Information

22 April
The Royal Society of Chemistry, Burlington House, London
Large and complex data sets, often referred to as 'Big Data' can be difficult to manage and analyse using conventional processes and software tools. Most chemists are familiar with the huge growth in the number of compounds

registered in databases in the public domain, the majority of which have data associated with them. Many will also have struggled with increasingly large data sets generated through their work, often stored in spreadsheets with limited analytical capabilities. The CICAG, in partnership with the EPSRC's Dial-a-Molecule Grand Challenge Network, is therefore organising a scientific meeting to explore the challenges presented by big data in chemistry.
Contact Professor Jeremy Frey
023 8059 3209
j.j.frey@soton.ac.uk

Colloid and Interface Science Group

2015 Rideal Meeting: Polymers in Colloid Science

23 April
SCI, Belgrave Square, London
The speakers are all former students of Professor Paul Luckham or academics and industrialists he has collaborated with during his career. This one day meeting will include a student poster session prior to Professor Luckham giving the Rideal Lecture
Contact Helen Gibb
020 7598 1561
conferences@soci.org

Formulation Science and Technology Group

Formulating Functional Films and Coatings

24 April
The Royal Society of Chemistry, Burlington House, London
This meeting is aimed at academic and industrial scientists and engineers involved in the manufacture and the application of films and coatings, across many industrial areas from coatings, to pharmaceuticals to thin film/printable electronics, etc. It will also be of use to users of other technologies where functions currently provided by bulk means could be achieved more sustainably with functional films and coatings, such as the use of thin coatings to provide scratch resistance and electrostatic protection to bulk materials.
Contact Deborah Reed-Aspley
0115 922 9422
deborah@constableandsmith.com

Royal Society of Chemistry's Pan Africa Chemistry Network Dinner 2015

28 April
The Royal Society of Chemistry, Burlington House, London
This event will bring together academics, researchers, industrialists and policy makers from the UK, Africa and beyond. The evening will be a celebration of the achievements of the

Royal Society of Chemistry's Pan Africa Chemistry Network (PACN), and a look forward to the future growth of the Network and how you can be involved. This is an invitation-only event but if you are interested in attending, please email the events team
Contact Events Department, RSC
01223 434048
events@rsc.org

Marketing Group

Food Colours Ancient and Modern – A Chemist's View – Tom Coultate

7 May
The Royal Society of Chemistry, Burlington House, London
Substances used to add colour in food have changed over time. In the 19th century they were lethal; unsurprisingly these were replaced. However, in the 20th century, many replacements turned out to be carcinogenic. A lot of currently used food colourings are 'natural' but these present their own problems. This lecture will explore these trends.
Contact Margaret Bond
020 8946 4608
margaret.3791@btinternet.co

Industry and Technology Division

Chemistry Means Business 2015

11 May
Royal College of Physicians
During the day our community of small and medium chemical companies will meet to network, receive key updates and share knowledge. The event will conclude with the prestigious Industry & Technology Awards Ceremony hosted by comedian and presenter, Sandi Toksvig, to celebrate excellence across the industry.
Contact Events Department, RSC
01223 434048
events@rsc.org

Polymer Chemistry, Hypervelocity Physics and Space Science

13 May
University of Kent
Professor Steven Armes, University of Sheffield 2014 Interdisciplinary Prize Lecture. Awarded for his significant contribution to our current understanding of micrometeorites and the behaviour of cosmic dust particles
Contact Jorge Quintanilla
01227 816024
j.quintanilla@kent.ac.uk

EVENTS

Joint Pharmaceutical
Analysis Group

Antibody Drug Conjugates: Analytical Efforts and Expectations.

14 May

The Royal Society of Chemistry Antibody Drug Conjugates (ADCs) are an exciting and challenging new area of research and are becoming ever more popular across the industry with more than 50 ADCs reported in the clinic. The targeted nature of the molecules makes them extremely suitable for delivering toxic molecules to the target. This symposium brings together experts from across the industry to share their knowledge and learning for an engaging and exciting joint meeting with JPAG and DMDG.
Contact Amy Le Vannais
event@jpag.org

Chemistry in Health Symposium 2015

26 May

The Royal Society of Chemistry This symposium will highlight the value of chemistry and biochemistry in understanding disease and developing new therapeutics. Leading researchers will discuss their work ranging from chemistry-driven drug discovery, understanding the processes of infectious disease to the development of new antibiotics. We will also explore the development of new improved platforms for collaboration, such as Public Private Partnerships (PPP), which enable the research and development that is needed to better deliver the medicines of the future.
Contact RSC Science
01223 422699
science@rsc.org

Half Term Visit to The Royal Gunpowder Mills

27 May

Royal Gunpowder Mills Visit will include land train tour of site (limited capacity) and also visits to the main exhibition, Armoury, Film Show, Women at War and Rocket Vault as desired. Cost £10 per adult and £5 per child, under twos free. To be paid in advance, booking closes two weeks before visit.
Contact Alan Osborne
020 8590 2021
dimequin@bushinternet.com

SOUTH WEST

Bristol and District Section

Visit to Butcombe Brewery

22 May
Butcombe Brewery, Wrington
Open to RSC members and guests.
Limited Numbers; advise contact if interested
Contact Pam Day
0117 970 1860
pamday_rsc@btinternet.com

Mid-Southern Section

Virtual Instruments for Molecular Science: a Multifrequency Spectrometer

1 April
University of Southampton
A lecture of computational spectroscopy
Contact Ilya Kuprov
023 8059 4140
i.kuprov@soton.ac.uk

Adventures in Quantum Chemistry

29 April
University of Southampton
A half-day meeting
Contact Syma Khalid
023 8059 4176
sykhalid@googlemail.com

Other Events

RSC Prize Lecture

29 April
University of Bath,
Department of Chemistry
Professor Joseph T. Hupp
(Northwestern University) received the 2014 Stephanie L. Kwolek Award for key enabling discoveries in the design and syntheses of functional materials relevant to energy science applications, including light-to-electric energy conversion and supramolecular framework-based sensing, sieving, gas storage and catalysis.
Contact Ulrich Hintermair
01225 386682
u.hintermair@bath.ac.uk

Retired Members Luncheon

6 May 2015
The Mill at Rode, nr Frome
RSC Members, retired or not, are welcome; advise contact if planning to attend.
Contact Trevor Letcher
01761 232311
trevor@letcher.eclipse.co.uk

Analytical Division

EAP 2015 Lighting the Way... For Analytical Scientists

8-10 May
Aztec Hotel and Spa, Bristol
Contact Charlene Butler
07731 477259
asnenquiries@hotmail.co.uk

RSC Prize Lecture

18 May
University of Bath,
Department of Chemistry
Professor Robert G. Bergman
(University of California, Berkeley) received the 2014 Robert Robinson Award for his outstanding contributions in physical organic and organometallic chemistry.
Contact Ulrich Hintermair
01225 386682
u.hintermair@bath.ac.uk

Chemical Biology and
Bioorganic Group

RSC Chemical Biology and Bio-Organic Chemistry Postgraduate Symposium

19 May 2015
University of Bristol, School of
Chemistry
This one-day meeting is open to all and is an opportunity for postgraduate students to present their work at a national level. The day will conclude with a plenary lecture from Professor Dek Woolfson. Submission of abstracts for oral presentations and posters are welcome from postgraduate students in the broad fields of bio-organic chemistry and chemical-biology. Prizes will be awarded for the best oral and poster presentations.
Contact M. Carmen Galan
0117 928 7654
m.c.galan@bris.ac.uk

WALES

South Wales West Section

A Chemist's Journey from Amino Acids to Mad Cows

16 April
Swansea University
Contact Bill George
01792 406994
bill.george@southwales.ac.uk

Science & Energy Demonstration Lectures for Schoolchildren

7 May
University of Wales, Trinity St David
A series of demonstration lectures for schoolchildren where the children carry out all of the experiments.
Contact Neville Jones
01269 850815
dnj.derwydd@mac.com

South East Wales Section

Copper-N-Heterocyclic Carbenes; Synthetic Strategies, Activities and Reactivities

20 April
Cardiff University
The lecture will last for approximately one hour.
Contact James Redman
029 2087 6273
redmanje@cardiff.ac.uk

Crystal Engineering of Task-Specific Materials

18 May
Cardiff University
The lecture will last for approximately one hour.
Contact James Redman
029 2087 6273
redmanje@cardiff.ac.uk

Other Events

Science and the Assembly 2015

19 May
The Senedd and Pierhead,
Cardiff Bay
This event is designed to develop closer links between the scientific community in Wales and the National Assembly for Wales and the Welsh Government. This year's scientific presentations are based on the theme of: Energy and the Environment
Contact Leigh Jeffes, RSC
07860 803724
jefjest@rsc.org

Notices



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Presidential Election

The deadline for nominees for president-elect passed on 6 March.

In addition to Council's nominee, Professor Sir John Holman, a nomination was also received for Professor Richard Catlow, and so this has triggered an election for the role of president-elect.

The election will be managed through Mi-Voice and is scheduled to run from 7 May to 8 June.

Statements and biographies for both candidates will appear in the May edition of *RSC News*.

Supporting Career Development in South East Asia

Julie Franklin from our Career Management Team was in Singapore and Indonesia in February, supporting members and students at accredited universities with their career development.

The Career Management Team run regular regional Careers Hubs throughout the UK and Republic of Ireland, so it was an exciting development for Member Services to extend the Hub concept to Singapore. All members in Singapore were invited to book a 45-minute confidential discussion with Julie on any aspect of managing their career or getting their Continuing Professional Development on track. Twelve members took up the offer, and the Career Management Team has continued to support them by email in the subsequent weeks.

ChemCareers Indonesia was held on 12 February at the Institut Teknologi Bandung (ITB). Julie and Mr Muhamad Martoprawiro, President of the Indonesian Chemical Society welcomed 180 students – from ITB and other accredited universities in Indonesia – to a day of planning for the future. The students heard personal stories from speakers who have pursued a diverse range of careers in academia and industry, including Mr Eddie Setiawan, the President of Dow Chemical Company, South East Asia.

The students took part in an afternoon workshop to focus on their own aspirations and the skills they will need, and found out how membership of the Royal Society of Chemistry can support them throughout their professional life. ChemCareers Indonesia followed the same format as the equally successfully ChemCareers Malaysia, held at the International Medical University in Kuala Lumpur last December. Our thanks to all the staff at ITB for their support.



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Our latest student quiz winners

The latest in our series of student quizzes was based on the theme of Pancake Day. From those who successfully completed all questions, we selected three winners, Mary Wood, University of Cambridge, Rachel Smith, University of York and Jennifer Hack, Durham University, who each win a £20 Amazon voucher.

Keep a look out for more competitions, discussions and games on the MyRSC Higher Education (HE) student group. Or go to <http://my.rsc.org> for more information.

The Knox Medal – call for nominations

The Knox Medal is awarded by the Royal Society of Chemistry Analytical Division Separation Science Group to honour individuals deserving special recognition of their innovation or influential work in the field of Separation. Nominations are open for the 2015 award until Friday 15 May 2015.

Royal Society of Chemistry Summer Party

We would like to invite you to join us for our Summer Party at this year's Royal Academy of Arts Summer Exhibition, Burlington House, London on Thursday 16 July 2015, 7.30pm-10.00pm.

Our Summer Party offers the ideal opportunity to meet up with members, friends, industrialists, politicians and distinguished scientists, whilst viewing the largest exhibition of contemporary art in the world. Entertainment and a selection of food and drinks will be provided throughout the evening.

Look out for the registration form on the back page of next month's *RSC News* or register online to purchase your tickets at the special member rate of £65 per head, non-members rate £95 per head.

<http://rsc.li/summer-party>



Admissions April 2015

Fellow (FRSC)

Niyaz Ahmed, Oswaldo Luiz Alves, Muhammad Dabai Bala, John Barry, Carsten Bolm, Guoping Chen, Jun Chen, Patrick Collins, Daniel Comins, Laurence Cowie, Rene Csuk, Martin John Cubitt, Yi Ding, Darren Dixon, Chunhai Fan, Omar Farha, Vania Gomes Zuin, Dhanaraj Gopi, Lin Guo, Alvin Holder, Jianbin Huang, Andrew Toby Jenkins, Xudong Jing, Roderic Jones, Nazira Karodia, Sanjeev Katti, David Stanley Kendall, Branko Kolaric, Guruswamy Krishnamoorthy, Bhanudas Kuchekar, Stuart Leeming, Mark Mackey, Alison Mansfield, J Justin Mason-Home, Ian Richard Mccracken, Michael David Kearns McTeir, Shivani Mishra, Trilochan Mishra, Tasnim Munshi, Alvise Perosa, Vivek Polshettiwar, D P S. Rathore, Subrayal Reddy, Jonathan Rogers, Malcolm Keith Salisbury, Henri Stephen Schrekker, Sarman Singh, Satyanarayana Sirasani, Corey Stephenson, Julian Tanner, Magdalena Titirici, Mark Alan Treasure, Sambasiva Rao Vajja, Andrew Wain, Zhao-kui Wan, Simon Webster, Neil Williams, John Williams, Steven Woodhead, Anjaneyalu Yerramilli.

Member (MRSC)

Ershad Abubacker, Vijay Kumar Akkilagunta, John Albaya, Jennifer Anne Alcock, Peter Aldred, Hiba Alhamidi, Hugh Allen, Marco Alberto Allodi, Fiona Almond, Anita Alni, Estela Alvarez Moreta, Muhkmmad Bachri Amran, Jie An, Salzitsa Anastasova-Ivanova, Catherine Andrews, Noli Angeles, I Made Arcana, Jacqueline Arguello Da Silva, Sakthivel Ayyamperumal, Chandra Sourabh Azad, Catherine Bacon, John Marshall Baker, Mohammed Balogun, Wan Jeffrey Basirun, Thomas Bennett, Edilson Valmir Benvenuti, Jonathan Best, Edward Bilbe, Samantha Binding, Matthew Binns, Imogene BlignautOBrien, Thierry Fabrice Bonnaud, Jennifer Botham, Guy Brain, James R. D. Brown, Bunbun Bundjali, Joanne Burford, Oliver Burnham, George Butcher, Jane Caborn, Miranda Camping, Celine Cano, Matthew Capener, Antonella Carangio, Marco Antonio Ceschi, Mark Chaplin, Sofia Chaudhry, Siew Lee Cheong, Andrew Ching, Mandy Clement, Gavin Couch, Louise Courtney, Philippa Cranwell, Alasdair Crawford, Jenna Crisp, Renata Da Costa Magueta, Franck Dal-Molin, Clare Dalton, Peter Davey, Angela Davies, Adam Davis, Max Dawson, Ciara Dempsey, Joanna Sarah Denton, Surya Devarakonda, Adhene Dhouib, Paul Dillon, Samitha Djajanti, Craig Donald, Rachel Donnelly, Paul Howard Dowson, Jonathan Dunn, Stewart Eccles, Samuel Alexander Edwards, Martin Elliott, Robert Elmes, Oritsejotomi Elsie Etuwewe-Mordi, Craig Evans, Elisa Fadda, Cecilia Fenech, Pablo Sebastian Fernandez, Neil Findlay, David Flint, Peter Fotios, Benjamin France, Leandra Franciscato Campo, Iain Fraser, Yang Gan, Raquel Garcia, ISABEL GARCIA PEREZ, Christopher Geeson, Valentina Gentili, Russell James Gibbs, Matthew Gill, Martha Teresa Glabska, Ruben Gomez, Laura Gonzalez-Macia, Sarah Goodchild, Kesavan Gopalan, Ronda Gras, Robin Greenwood, Peter Haffenden, Simon Halstead, Fouzia Hannour, Hassan Harb, Timothy Hele, Rukman Hertadi, Paul Hicks, Stella Ho, John Holbrey, Lauren Holley, Mark Andrew Honey, Tom Hooper, Jonathan Thomas Scott Hopper, Jennifer Hulse, Imtiaz Hussain, Shauna Jayne Innell, Ismunandar, Imran Jan Mohamed, Lucy Jenkinson, Stuart Jones, Rachel Jones, Rebecca Jones, Clifford Juengst, Lia Dewi Juliawaty, MURUGESH Kandasamy, Gew Beng Kane, Rebecca Kaner, Andrew Kavanagh, Thakor Kikabhai, Joshua King, Eleanor Laney, Stuart Lang, Vladimir Lavayen, Andrew Lawrence, Andrew Leach, Mia Ledyastuti, Hian Kee Lee, Vivienne Lee, Zhiqiang Li, Cynthia Linaya, David Liptrot, Nicholas Lewellyn, David Lumsden, Andrew Mace, Tomasz Pawel Majchrowski, Wing Man, Anna Markowska, Anita Jocelyne Marsaioli, Inyoman Marsih, Lucas Gelain Martins, Marija Matkovic, Brett McGuire, Eleanor McKay, Sarah Ruth McLusky, Scott McPhee, Siti Nurul Ain Md. Jamil, Rebecca Elizabeth Meadows, Ramu Meesala, Sioned Nia Meiring, Clive Mills, Fabrizio Minicone, Jennifer Mitchell-Chard, Faiezah Ali Ahmed Mohamed, Lee Moir, Daniel Molyneux, Filippo Monti, Tiddo

Mooibroek, Jane Elizabeth Moore, Juliet Morgan, Nelson Morgan, David Morris, Didin Mujahidin, Nessa Mullane, Alexandria Olessia Naden, Yuki Nagao, Charmaine Nathaniel, Simon Naylor, Michelle Ni, Indra Noviantri, Zeily Nurachman, Sarah Nwinee, Rene M. Oetterli, Mathew Folaranmi Olaniyan, Anthony Oldroyd, Djulia Onggo, John Onyari, Natasha Openshaw, Asun Orio, Timothy Jeremiah Cornelius O'Riordan, Emma Packard, Natasha Page, Matteo Palma, Xiaoyun Pan, Namrata Pandey, Vyom Parashar, Tanveerkhan Pathan, Anita Kerry Peacock, Benjamin Peek, Samuel Peel, Dave Perkins, Kari Pitts, Fernanda Poletto, Christopher Priestley, Bambang Prijamboedi, Amy Pritchard, Jonathan Pritchard, Sophie Purser, Cormac Quigley, Rachmawati, Yanti Rachmayanti, Ria Sri Rahayu, Kambiz Ramzan Ali, Enny Ratnaninhsih, Kirsty Robbins, Rosalind Frances Roberts, Heather Robinson, Jennifer Rochford, Achmad Rochliadi, Fabiano Severo Rodembusch, Isabel Rodriguez, Andrew Rollinson, Isolda Romero Canelon, Jack Routledge, Fabio Rui, Joseph Rumer, Handajaya Rusli, Rusnadi Rusnadi, Sunil Sabbani, Irene Teresinha Santos Garcia, Megawati Santoso, Dilip Sarkar, Zachary Schultz, Callum Scullion, Matthew Seabrook, Marek Przemyslaw Serda, Ewelina Serda, Henry Setiyanto, Ravi Shankar, Ryan Sharpe, John Sebastian Shaw, Stephenie Anne Shaw, Ian Michael Shortman, Gustavo Pozza Silveira, Baljeet Singh, Ramakrishna Sistla, Rosane Michele Soares, Yolanda Salinas Soler, Laura Ann Spencer, Geetha Srinivasan, Angela Stack, Ian Stefanuti, Carolyn Stevenson, Claire Stewart, William Stimpson, Craig Streu, Rachel Strickland, Sarah Stubbs, Veinardi Suendo, Aminndin Sulaeman, Rachel Sunderland, Slavka Sykovska, Louise Szymanski, Partha Talukdar, Punnayakoti Veeraveedu Thanikachalam, Denise Thomas, Claudio Francisco Tormena, Paolo Tosatti, James Trebilco, Lore Troalen, Aminu Tukur, Lewis Tyson, Minesh Vaidya, Maria Goreti Vale, Carl Alexander Vas, Fiona Vesey, Praveen Vuyyuru, Deana Wahyuningrum, Gemma Louise Ward, Claire Ward, Fida Madayanti Warganegara, Luke Whiley, Sam Whitehouse, Kimberley Whittaker, Made Puspasari Widhiastuty, Lucia Wiwid Wijayanti, Colleen Williams, Trevor Wilson, William Wiseman, Milena Wobbe, Kong Ching Wong, Tiffany Wood, Sean Woodall, Lisabeth Woolley, Paul Wren, Yue Wu, Francesco Zamberlan, Marzena Zdzarska, Christian Zerfass, Huiying Zhao, Muhammad Ali Zulfikar.

Associate Member (AMRSC)

Jwan Abdulsattar, Manuel Abelairas Edesa, John Agbike, Firas Al-Lolage, Dilan Amaratunga, James Andrew Ardrey, Oluwqle Samuel Aremu, James Arnold, Sara Artola Gil, Kathryn Ashe, Karim Bahou, Chelsea Bailey, Nicole Isabella Banks, Thais Mendonga Barbosa, Robert Barker, Enrico Bartoletti, Jacqueline Batty, Hossein Bayahia, Alga Malgorzata Bohuszewicz, Sandi Botonjic, Elizabeth Bramhall, Sam Briggs, Martin Briggs, Roisin Brown, Adam Brown, Simon Burns, Jonas Calleja Priede, Emmanuelle Casanova, Marina Chanidou, Paul Choi, Shuen Lann Yvonne Choo, Jillian Clapp, Christopher Clarke, Daniel Clea, Philip Coalter, Alice Violey Coles-Aldridge, JeanMarie Cols, James Coverdale, Lucy Currie, Anis Daou, Jonathan Dare, Paul Davis, Chloe Dearden, Michael Dent, Eleanor Dickinson, Claire Dickson, Graziella-Ioana Dragomir, Michael Drysdale, Valentine Ibeziako Ekwueme, Majd Eshtaya, Vikki Evans, Ifeanyi Jude Ezeonwumelu, Hardeep Farwaha, Alexander Fawcett, Erna Febriyanti, Joao Pedro Figueira Nunes, Paraskevi Filippousi, Catherine Vanessa Finch, Patricia Fitzpatrick, Nikki Fowler, Kevin Joseph Fox, Digi Frances, Samuel Freeman, Jamie Fyfe, Zuzana Gajdosechova, Marzia Galli, Narayan Garimella, Sylwia Gawron, Nikolaos Georgakopoulos, Timothy Gilliatt, James Glasby, Harriet Gliddon, Hassan Gneid, Chris Goodall, Sean Edward Goodwin, Mona Gupta, Jessica Hall, Samuel Hare, Matt J. Harper, Jack Harris, Ilaha Hasanova, Sammer Ul Hassan, Hawazen Hassanain, Yunxiang He, David Heard, Edward Hems, Scott Hicks, Matthew Wilfred Ho, James Hogg, Craig Hopper, Mark Horsman, Rebecca How, Shida Hu, Jacob Hutchful, Callum Idle, Gideon Idowu, Zubera Iqbal, Fiona Jackson, Kenneth Robert

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Chartered Chemist (CChem)

Edel Abbott, Kelechi Ahuekwe, C. Remzi Beker, Nicholas James Bright, Karl Rufus Broberg, Richard David Brown, Paul Bultitude, Victoria Burnell, Stephen Chappell, Sofia Chaudhry, Amy L. Cooper, Maire Daly, Jon Deeley, Thomas Douglas, Kristopher John Elliott, Pamela Louise Foster, Ruth Anne Foster, Matthew Robert Gravett, Matthew Habgood, Mahesh Hariharan, Michael Finbarr William Harrington, Paul Gerrard Harrison, Krishna Hassomal, Maira Hernandez Guzman, Peter James Hickey, Peter Ivanov, Colette Jeffery, Andrew Stuart Kirk, Christian Lucas, Michelle Mace, Kerstin Tanja Mader, Tung Man Kin Sam, Jennifer Louise Margetts, Henry Paul McIntyre, Laura Melton, Jane Elizabeth Moore, Kevin Morgan, Bahjat R. J. Muhyedeen, Stuart Notman, Anthony Oldroyd, Kevin O'Reilly, Ruth Poultney, Carl Andrew Roeschlaub, Nicola Ryder, Helen Sarginson, Fraser Scott, Alison Scott, Ian Stefanuti, Steven Paul Tedds, Danlu Tong, Sam Tulloch.

Chartered Scientist (CSci)

Gordon Fern, Sofia Chaudhry, Clare Hoskins, Benjamin Welsh, Jacob Irwin, Tilele Stevens, Kevin Morgan, Emma Cochrane, Adam Ellis, Sam Tulloch, Paul Woodbridge, Naheem Ali Sadiq, Linda Christine Allison French, Francis Eugene David Gaffney, Gary James O'Hara, Amy L. Cooper, Susan R. Brittain, Bahjat R. J. Muhyedeen, John Robert Griffiths, Matthew Robert Gravett, Drew Sebastian Royal.

Registered Science Technician (RSciTech)

Adam Grossman, Jayne Alexandra Ede, Craig Hopper, Claire Campbell, Kathryn Hope, Adetayo Francis Onikosi, Natasha Page, Susanne Patel, Luke Pettican, Adam Justin Savin.

Registered Scientist (RSci)

Thenuka Kiritharan.

Deaths

Dr Russell James Bayly CChem

FRSC Retired manager, scientific affairs, Amersham International Plc. Died 11 November 2014, aged 90

Professor David Arthur

Brown CChem FRSC Emeritus Professor, University College Dublin. Died 27 September 2014, aged 85

Mr Arthur Clark CChem FRSC

Retired top grade biochemist, Pembrokeshire Health Authority. Died 3 November 2014, aged 84

Mr Robin Leslie Thomas Cooper

CChem MRSC Retired marketing executive, Euro-DPC Ltd. Died 20 November 2014, aged 67

Mr Cyril Cresswell CChem

FRSC Retired self-employed consultant. Died 29 November 2014, aged 84

Professor Roger J Griffin

CChem FRSC Professor of medicinal chemistry, Newcastle University. Died 24 September 2014, aged 59

Mr David Holey MRSC

Retired product manager, speciality, Bayer New Zealand Ltd. Died 11 September 2014, aged 75

Dr Lyn Holt CChem MRSC

Retired, proprietor, Applied Technology. Date of death not supplied

Professor Dr Rudolf Reinhold

Otto Hoppe MRSC Retired. Died 24 November 2014, aged 92

Professor Gerald Houghton

CChem FRSC Retired Professor of engineering science, University of North Carolina at Charlotte, USA. Died 17 November 2014, aged 88

Mr Anthony Martin Humphrey

MRSC Retired consultant. Date of death not supplied

Dr Ernest A Knipp MRSC

Date of death not supplied

Dr Alan Wallace Nineham MRSC

Retired head of information services, May & Baker Ltd. Date of death not supplied

Mr Narayan Mangesh Rege

CChem MRSC Retired executive director, Soybean Processors Association of India. Died 28 February 2014, aged 74

Dr Hilary Muir Smith CChem

MRSC Retired assistant toxicology manager, ICI Plc. Died 7 November 2014, aged 83

Professor Alistair Matthew

Stephen CChem MRSC Emeritus Professor, University of Cape Town. Died 8 November 2014, aged 92

Mr John Edward Stuckey

CChem FRSC Retired lecturer in polymer chemistry. Died 5 May 2014, aged 88

Mr Ramachandran Subramanian

CChem FRSC Retired. Date of death not supplied

Dr Vincent Roy Switsur

CChem MRSC Retired director, radio carbon dating research laboratory, University of Cambridge. Died 5 November 2014, aged 85

Mr Paul Anthony Thomson

CChem MRSC Retired. Died June 2014, aged 73

To inform us of the death of an RSC member please contact the Membership Department on 01223 432141 membership@rsc.org

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