

RSC NEWS

MARCH 2015 www.rsc.org

Reviewing our Benevolent Fund

Supporting our community
in times of need

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▲► Northern Ireland Local Section Heat of Top of the Bench held at Queen's University, Belfast. Students also enjoyed a tour of the School of Chemistry and Chemical Engineering, including the NMR spectroscopy suite.



▲ Our Northern Ireland Local Section present certificates and cheques to the top GCE Chemistry girls and boy from 2014. Bronagh McGuckin from St. Mary's Grammar School, Magherafelt, Amy Thompson from the Rainey Endowed Grammar School, Magherafelt, and Joshua Alexander from Friends' School, Lisburn.



▲ The South and East Organic Division Regional Meeting took place at Imperial College London and included talks from 2014 Centenary Prize Winner, Professor Sir Fraser Stoddart; 2014 Pedler Award winner, Professor David Leigh and 2014 Hickinbottom Award winner, Dr Steve Goldup.



▲ Members of our Deccan local section, in India, led a seminar, quiz and workshop for school students in Mukkamala, a remote village in Andhra Pradesh State.

◀ Education Co-ordinators talking at our regional meeting for the Midlands in February – there's more information on regional meetings on page 19.

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Snapshot

A look at the latest news from around the world

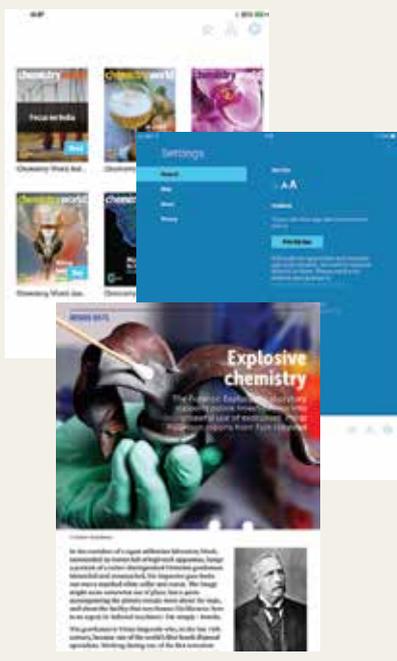
IN BRIEF

Chemistry World app update

If you would like to read *Chemistry World* on the go using your phone or tablet, there's no better way than using the app. There's a major revamp in progress, to include more features and functionality than ever before. In the new version you'll be able to complete interactive crosswords, view image galleries and use the scrapbook function to collect and collate the articles that interest you. It will also be compatible with a wider range of phones and tablets.

The app will be available soon on the Apple app store and Google Play store, and Royal Society of Chemistry members can access all of our content for free.

As a member of the RSC, just enter your membership ID and password on the account screen for access. This step involves contacting the RSC computer system, so you'll need to be connected to the internet, but once you've logged in and downloaded an issue, you will be able to read that issue offline. There's a process of constant redevelopment, building in new features and functions, so if there's anything you would particularly like to see, please get in touch by email at chemistryworld@rsc.org.



RSC leadership team expanded to accommodate growth and success

CEO Dr Robert Parker has expanded the RSC's leadership team, to better lead and serve our growing, successful organisation. At the December 2014 meeting Council welcomed the proposed changes, and the evolved staff structure is now being rolled out across the organisation.

"Since I became CEO three years ago, our membership has grown to an all-time high of 52,000, revenues have grown 15%, and our investment in chemical science has increased 32.5% to £53m. We're a much bigger organisation, with many of the new challenges that face big organisations," said Dr Parker.

"I'm evolving the leadership team to be scalable, have a broader range of knowledge and experience, and to have more capacity to lead this successful organisation as well as it deserves."

With a mix of long-term RSC employees and new, experienced talent from elsewhere, the new 12-strong leadership team will set a powerful long-term vision for the organisation and support our staff and members in pursuing it. Recruitment is underway for a Director of Education and a Director of Communications and Marketing.

THE RSC LEADERSHIP TEAM

Robert Parker	CEO
Helen Pain	Deputy CEO
Stephen Hawthorne	Deputy CEO
Nick Hills	Chief Financial Officer
Clare Viney	Director, Membership and External Affairs
Frank Gibson	Director, Technology
Karen Roberts	Director, HR & OD
Dan Dyer	Director, Sales
Emma Wilson	Director, Publishing
Martin Dachs	Group Financial Controller
Vacancy	Director, Education
Vacancy	Director, Communications and Marketing



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Dr Diana Leitch MBE

Diana Leitch FRSC has been invested with her MBE for services to chemistry, by His Royal Highness Prince Charles, at Buckingham Palace.

Diana is an independent consultant who is internationally respected for her work as an academic librarian and information professional.

As Treasurer of our Chemical Information and Computer Applications Group she has played a leading role in numerous outreach activities including the Origins project with the Catalyst Science Discovery Centre in Widnes, where she is also a trustee.



Diana with the Buckingham House Yeomen of the Guard. (Image © Royal Society of Chemistry).

Take 1...minute for chemistry in health – voting now open!

Our video competition invited undergraduates through to early-career researchers based in industry and academia to make an original, imaginative video highlighting how chemistry has helped to address challenges in health. The videos are all aimed at a non-specialist audience and we received some great entries which have been shortlisted.

We are now asking for your help to vote for your favourite, the video with the most votes will receive £500. Voting closes on 17 April 2015. Visit <http://rsc.li/take-1-videos> now to vote and to find out more about the competition.



Faraday in India

More than 100 crystallographers, spectroscopists and computational chemists, from 20 countries, attended India's first-ever Faraday Discussions, held in Bangalore in January.

Prof Siva Umaphathy of the Indian Institute of Science co-chaired the meeting – themed *Temporally & Spatially Resolved Molecular Science* – with Professor Judith Howard, from Durham University.

Professor Howard said: "This meeting is not about crystallography versus spectroscopy but it is about crystallographers working together with spectroscopists and computational scientists to take forward the science and develop important new interdisciplinary areas.

"The meeting has been a great success thanks to the speakers and leaders of the

discussions and to the participants for their contributions to lively and vigorous discussions we have all enjoyed."

"It was particularly pleasing to see the younger participants joining in very actively with the discussions and we were pleased to have been able to award six poster prizes, from the 50 posters that were on display from across the globe."

Professor Umaphathy, from the Indian Institute of Science, said: "This has been a wonderful opportunity for Indian students to learn about how science discussions at international level are conducted, in depth and with an open mind."

The meetings, conceived in 1903 by the Faraday Society, focus on cutting edge and fundamental science. So far, 262 meetings have been held in 10 different countries.



© PROFESSOR S. UMAPHATHY

Encouraging Emerging Technologies entries

The Emerging Technologies Competition is our flagship event to accelerate innovation and support both cutting-edge technologies in the chemical sciences and the people who invent them. It was set up three years ago to help support new technologies on the rocky road to commercialisation, as often the discoveries made in research laboratories don't make it into the real world where they can make a difference.

Unlike most business competitions, our entrants are judged on the potential for their technology to impact individuals and the economy, rather than their profit forecasts or how ready their invention is. The winners receive a cash prize of up to £20,000, but also something that money can't buy: a partnership with a renowned multinational company who can help them develop their technology into a business.

Reaping rewards

Since the first competition in 2013 we have crowned seven winners – a mixture of

small chemical companies and university researchers at academic labs. Even in the short period of time since they won, many of our winners have seen the benefits:

Dr Matthew Gibson at the University of Warwick won in 2014 with his antifreeze proteins (inspired by arctic fish) which can be used to preserve donated blood and organs. He has since received €1.5 million in funding to further develop this technology.

AQDOT won in 2013 with their intelligent encapsulation technology which has many different applications: from detergents, pharmaceuticals and paints, to cosmetics, fragrances and personal products. They have since formed collaborations with Procter & Gamble and GlaxoSmithKline, and received £3.7 million venture capital investment.

Get involved

If you know of anyone with an especially innovative technology, why not encourage them to enter? <http://www.rsc.org/competitions/emerging-tech/>

One to one

Take advantage of a wide range of member services

Our new mentoring service

In December we told you of our plans to develop a new mentoring service to support members in their career progression, development and growth. Since then we have received some great feedback from the members taking part in the pilot programme that is currently running, so we want to share these results and our future plans with you.

Pilot feedback

We set up a pilot service with 16 enthusiastic volunteers in 2014 to help us establish the best way to set up a mentoring scheme as a new member service. These members have wholeheartedly committed to making the pilot a success through their time, effort and feedback, to which we are extremely grateful. And their inputs have been essential in our developments for the future of this service.

Overall the feedback has been extremely positive, with 15 out of 16 recommending we roll the service out to all members. All responding participants found the guidelines useful and felt they were well-matched with their mentee/mentor. And they were very positive about the support they have received from us, with all but one rating it good or excellent. One mentee said: "The up-front guidelines were very clear and Hannah has been in regular touch by email to see how things are going. The mentoring group online was also useful way to share our experiences and offer advice to other mentees".

Mentoring is valuable to both mentees and mentors and the benefits it can have can vary considerably between each individual. In general, mentors in the pilot found the experience rewarding and were proud to be helping another member. One found "happiness in listening and being able to see someone grow as they address their own challenges, considering their relationships at work and thinking of the future."

The mentees have found mentoring has helped them to achieve:

- greater clarity around their career goals and how to achieve them;
- learning about themselves;
- greater self-confidence and self-belief;
- personal development and practical learning;
- improved relationships with colleagues;
- improved performance in current role.

One member described how having a mentor has given him an opportunity he otherwise wouldn't have had. He said: "It's always useful to think about my goals and setting myself objectives. Everyday life often prevents me from doing this and so this has given me an opportunity to do so."

Future plans

Considering the positive responses from those taking part in the pilot, we plan to roll the mentoring service out to all members. And we will be doing this regionally to ensure we are able to fully commit to the demand and development of the programme, starting with the North West, Midlands, South West and Scotland in 2015.

The process

Each mentee and mentor fills out an initial questionnaire. This allows the mentee to reflect on what they would like to achieve through mentoring and helps us evaluate the mentor's experience and values.

We provide training for mentors and briefing sessions for mentees. This ensures you are fully prepared for the mentoring relationship and comfortable with what our mentoring scheme involves. The training was very well received in the pilot and all mentors felt it provided them with enough tools and skills to mentor effectively, with one commenting "it was very useful, particularly to ensure that the mentors are all "normed" on expectations." The 2015 dates for your diary for these sessions are:

- 16 April in Manchester
- 16 June in Nottingham
- w/c 22 June in Bath
- 16 September in Edinburgh

We then match you with an appropriate mentor mentee as soon as possible, which will be based upon the responses in the initial questionnaire. Please be aware that while we will do our best to find a match for you, we cannot guarantee one.

Lastly, you meet your mentor/mentee and get started!

And we won't just leave you there; we will be here to support you through every step of the process. Working with mentoring experts at Coach Mentoring Ltd we have developed

a series of support resources for you to access at any time during the mentoring relationship, including:

- 12 webinars and 25 reading resources;
- an independent confidential mentoring hotline to ask questions or address any issues;
- online interactive groups, one for mentees and one for mentors, to contact each other, share best practice and update others with the progress of your mentoring; and
- regional mentor professional development sessions to help mentors gain additional skills and techniques, as well as providing networking opportunities to share best practice.

If you are interested in having a mentor, mentoring another member or would like more details about mentoring we would love to hear from you – email us at careers@rsc.org, putting 'mentoring' in the subject line.



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Profile

A closer look at our members and their interests



Richard Barr CChem MRSC splits his time between the Dana Petroleum office in Aberdeen and the freezing waters of the North Sea.

Richard Barr

Meet the production chemist who help keeps our North Sea Oil flowing

Q What do you do and why did you decide to follow this career in chemistry?

A I've worked in the oil industry for over 14 years now and have settled in the role of production chemist for Dana Petroleum. Currently my job primarily involves flow assurance, integrity, process and production operations for the Triton FPSO vessel and Hudson Oil Field, north-east of the Shetland Islands.

FPSO means Floating Production, Storage and Offload and I am also currently involved with the process chemistry design for a new FPSO called Western Isles.

In the run-up to managing production chemistry for operating companies, I worked for a global chemical company that had a contract with Total, managing their chemical injection and supplies.

I also spent almost five years offshore, working in the lab and learning the process systems where we use many chemicals. I have always been fascinated with engineering and chemistry and I guess in this role both are heavily relied upon, so it was the right industry for me.

Q What is a production chemist?

A Production chemistry plays a vital role in flow assurance, a key factor in optimising and enhancing upstream hydrocarbon production. Its aim is to provide solutions to maintain safe, sustainable and efficient operations to the business and for the environment.

The need for chemicals has existed since the earliest days of oil and gas exploration and production. They recognised that corrosion of equipment, deposition of scale and solids, and problems with separation of crude oil and water could, relatively easily and cost-effectively be solved by the application of specialist chemicals.

Today, a variety of production chemicals are used to assist with enhanced oil recovery, optimisation of production and reservoir support. Crucially, they also suppress damaging effects of the process.

It would be all but impossible to control the effect of the oil industry on the environment, particularly offshore, without the use of any production chemicals, particularly in regard to discharge of waste produced water.

From reservoir to refinery and engineering to the environment, production chemistry provides solutions to support and enhance oil and gas production.

Q What skills do you need for the job?

A The position requires a good knowledge of the basic chemistry and engineering principles, along with the ability to review and interpret data, and action accordingly. The role I would say involves forward thinking and being proactive on issues as they develop in remote locations (usually offshore).

On a typical day we look at the bigger picture of operations, from the reservoir through to the refinery and engineering through to environment. Some people think we just pump chemicals, but I see it that we provide solutions to engineering problems.

Looking at it another way, I don't know any installation in the North Sea that doesn't use production chemicals. And even then many still suffer with corrosion, scale and other chemistry related issues.

Q What type of person is suited to your job and how would they get into it?

A Someone that can work well under pressure and has a good memory is a good place to start. They should also be proactive to situations as they arise and be a good problem solver.

To get the best out of it, I think it is worthwhile experiencing all sides of the job, starting out working offshore in a lab to gain a hands-on approach to understanding the offshore lab analysis, process and logistic issues offshore.

Then, look to work for a chemical company and gain a good insight to the onshore chemical testing works, how chemicals are manufactured and the issues that can arise. There is no typical entry route as-such. However, I am a firm believer in training and development to bring out the best in people

In my role it is the engineering and chemistry side that I find fascinating. Drilling holes in the seabed thousands of feet deep, locating oil and then building massive structures that are able to process the oil, gas and water is an amazing achievement. Being part of that – and being able to contribute – is a good feeling.

"I have always been fascinated with engineering and chemistry and I guess in this role both are heavily relied upon, so it was the right industry for me"

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Nobody knows what the jobs of the future will look like but many of them will be created in chemistry to solve global challenges to human health, energy and the environment.

Find your future in chemistry at www.rsc.org/careers/future

Reviewing our Benevolent Fund

In 2014 we reviewed the Benevolent Fund to ensure it continues to be relevant for a modern community

The Royal Society of Chemistry Benevolent Fund supports members and their families in difficult times, through advice and guidance, financial support and volunteer support.

History and context

The Benevolent Fund was established in 1920, when the then *Institute of Chemistry* established it as a memorial to its members who died in the First World War. It was for “necessitous persons who are, or have been, Fellows or Associates of the Institute, their wives or children, and the widows and dependent relatives of deceased Fellows or Associates”. The ethos of ‘members helping members’ stemmed from prior fund-raising activity of the Council before the fund was officially formed.

This ethos remains at the heart of why the Benevolent Fund exists, with its primary charitable objective of “the relief of poverty”. A support network of 100 volunteers means we have members at hand to visit and support other members in need. Much of the funding continues to come from generous donations and larger bequests from our members.

Current situation

While the purpose of the fund remains the same, the landscape has changed significantly since the post-war years. The demographic and diversity of our members is very different, and the economic situation of our members – and the support routes that are available to them – are very different too. At the same time, the fund value has been increasing, with investments and interest providing an additional healthy increase to the fund each year.

If no significant changes in income or expenditure patterns occur, the RSC Benevolent Fund will continue to grow significantly year-on-year, with a predicted fund balance of £16 million by 2019.

While we need to ensure that the funds available are sufficient and sustainable to meet current and future needs of our community, we also have obligations within our status as a charity; to ensure that funds do not accumulate, that those that are entitled to support can access it, and that the charitable remit is still fit for purpose and not outdated for modern society.

The Benevolent Fund Grants Committee led a review, overseen by the Membership and Qualifications Board. Their recommendations have been agreed by our council as trustees of the fund.

Review process

In 2014 we carried out a formal review which covered the following areas:

- how well is the purpose and remit of the Benevolent Fund understood among members who could apply to it?;
- what do other benevolent funds do and how does their expenditure compare?;
- is there more we could do to support our members?;
- is the charitable Trust Deed fit for purpose?;
- what are members’ perceptions?

Our member survey showed that 69% were aware of the benevolent, with 31% having no awareness of it. We therefore convened four focus groups of members, with different age segments, to understand more about perceptions of the fund. From this we learned the following:



- most members we spoke to had misconceptions about who the Benevolent Fund was for and what support was available;
- many had an initial assumption that it was primarily for the elderly or ill, rather than financial necessity – this was particularly true for younger members;
- for many the name was seen as old fashioned, and it didn't represent the non-financial support that is available.

Recommendation

We therefore plan to change the 'working name' of the Benevolent Fund and ensure the messaging and imagery make it accessible. This will be accompanied by increased marketing activity. The 'Benevolent Fund of the Royal Society of Chemistry' would remain in the strapline and the registered charity name.

• Other benevolent funds and financial forecasts

We reviewed the charitable remit of other similar benevolent funds, along with the services they offer and their number of applicants and grants awarded.

We found that our Benevolent Fund has a relatively narrow remit for its prime purpose: 'relief of poverty'; many of the other benevolent funds have the broader remit of 'prevention and relief', which gives them more flexibility in supporting an individual before he or she hits desperate financial circumstances.

We have also used the expenditure information from other benevolent funds that support professional scientists and engineers to predict how much our expenditure could increase, if we improve our branding and marketing as well as broaden the remit. Forecasts indicate that, even with conservative estimations, funds are expected to grow year-on-year at a faster rate than expenditure.

• What else could we do?

In the short term, as part of our current remit of relief of poverty, there are additional services that we plan to introduce for those considered 'in financial need'. These range from more intensive careers support from a local consultant, to legal support through a helpline, to support for specialist therapies.

In the medium term, we plan to increase our remit to include prevention of poverty. This would bring us more in line with other benevolent funds linked to professional bodies. We would then be able to extend the services above to those at risk of becoming in poverty, where such services can help reduce that risk. Other additional support to help prevent poverty might include grants towards retraining where a need for this can be demonstrated.

Under our current remit, beneficiaries should normally have had over three years of membership to be eligible for support. This generally excludes most students in their early years of study.

The Benevolent Fund is not intended to support normal student hardship or debt. However, some students hit unexpected difficulties beyond the norm, such as family bereavement or illness, which can financially set them back more than they could have planned for. We therefore plan to explore introducing student hardship grants, only for these exceptional, unfortunate cases, which could be awarded to members with less than three years of membership.

• Is the Trust Deed fit for purpose?

There is actually a large degree of flexibility within our current Trust Deed, due to a clause that states if funds are not needed to relieve poverty, then it may be used to carry out any other legally charitable purpose. This provides a lot of freedom, but not much guidance on how it might be applied. Following legal advice on this matter, we therefore plan to formally make changes to include 'prevention of poverty' within the Trust Deed to formalise this activity.

All our other forecasts and comparisons with other benevolent funds also show that we can be confident we have funds to cover the new activities that we aim to introduce, but also that the funds are likely to continue to grow.

Benevolent Fund estimates show that the new planned activity could increase the total expenditure of the fund to approximate £340k; this represents approximately a 65% increase of expenditure compared to the average over the last six years, including increase in marketing costs, grant levels and staffing costs. To put in context of the fund value and growth, the Benevolent Fund could be reduced by up to £2.5 million, and expenditure could be increased by 75% and the fund would still generate a surplus of approximately of £140k pa for reserves.

Over the next year we will investigate if there are new charitable ways that the fund may be able to support disadvantaged individuals, including supporting young people into chemistry education routes that may not otherwise be possible for them. At this stage this would just be a scoping exercise and changes would only be made when the financial impact of other changes have been realised.

Next steps

Some changes are already underway for the improvements we can make within the current Trust Deed. As we are looking to expand support towards the prevention of poverty later this year, we welcome your comments and feedback from before such changes are made. Please contact Sheena Elliott, Manager of Member Services, by 31 March 2015 on elliotts@rsc.org.

The Benevolent Fund could not be what it is without the support of our members. We thank all those who contribute to the fund through donations or volunteering time, for the significant difference you make to so many people (see page 10).

Help is at hand

Our Benevolent Fund supports members of our community through a range of incredibly difficult circumstances

To show you just what a difference that support can make we spoke to Samantha Maxwell, from Liverpool. Samantha's husband Vincent was a member of the Royal Society of Chemistry until his untimely death in 1997.

What was your husband's career and his background with the Royal Society of Chemistry?

I think it took him about two years to become a member of the RSC. He'd done a degree – a Bachelor of Science – then his Masters in the same subject. When he got his membership, he was over the moon.

Vincent was teaching at the time but he was only teaching for a year before he died. He was a science teacher, he taught combined sciences, physics, biology and chemistry. It was all ages at secondary school and A-levels as well.

He also did a bit of tutoring as well, outside school, for people going in to do their A-levels or even going to university – helping them as well.

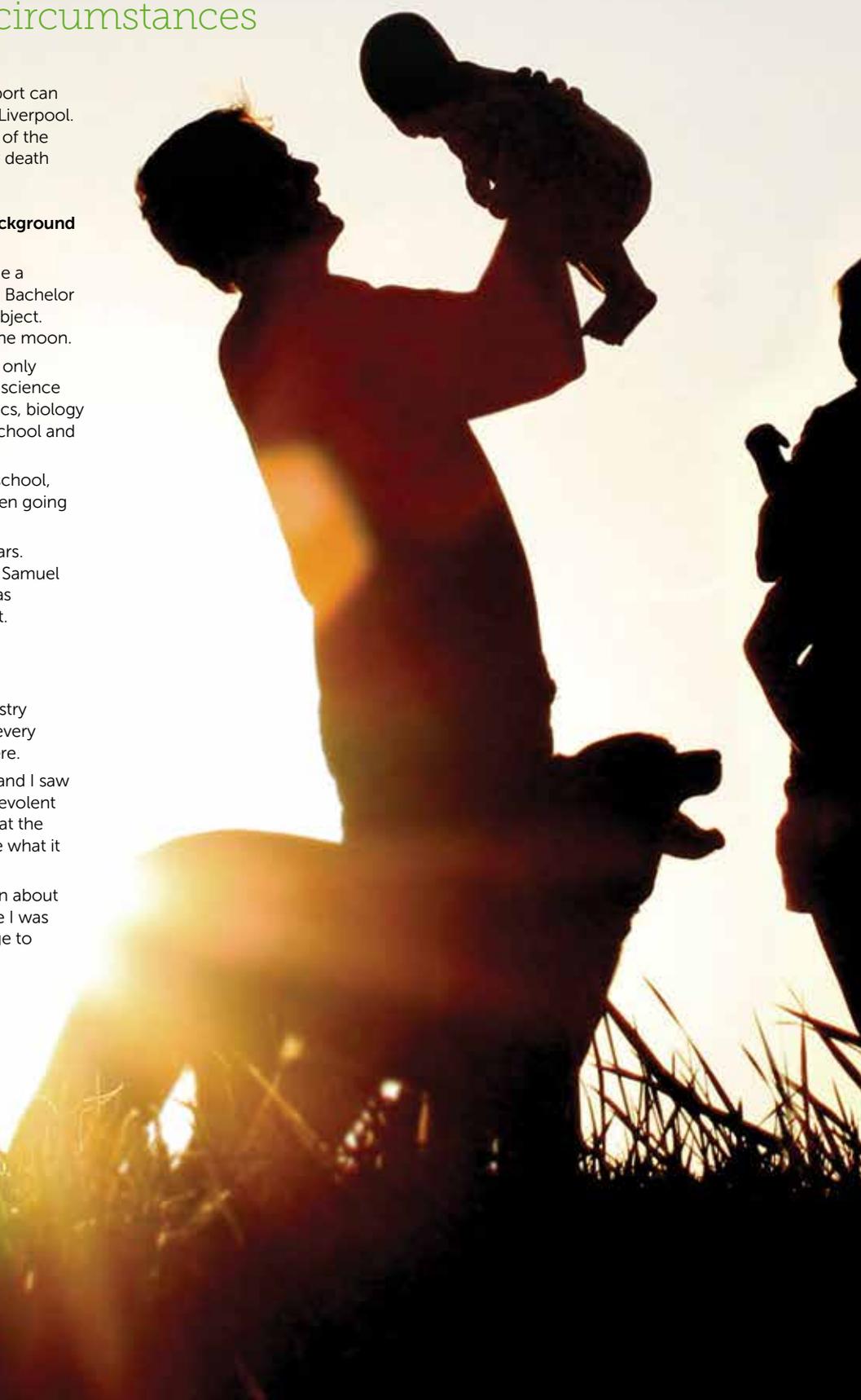
When he died we were married for seven years. I already had three children; Lucy the eldest, Samuel and then Jonathan. When their dad died I was expecting Alexis – I was six months pregnant.

How did you find out about the Benevolent Fund at the time?

We used to have the Royal Society of Chemistry magazine posted to us – I kept getting that every month and after he died his name was in there.

I would always look through it every month and I saw an article that said something about the Benevolent Fund. I didn't know anything about the fund at the time and I thought I'd give them a ring to see what it entailed to get some help.

I needed help at the time – it must have been about three years after my husband died – because I was struggling financially. So I plucked up courage to ring up and ask, just to see.



"I saw an article that said something about the Benevolent Fund... I thought I'd give them a ring to see what it entailed to get some help."



So how were you feeling when you approached the Benevolent Fund?

I was going to go back into work but wanted to wait until Alexis was three or four – a few years ago it was hard to get your children into nursery – and with me being on my own, my dad was helping me out quite a lot and I thought I'd go back to work when Alexis was about four.

When my youngest was four, my dad died. Just as I was thinking about going back into work myself, my dad died and my mum became dependent on me – she had arthritis – and so it was quite difficult.

We lived in London at the time – my children were all brought up in London when they were younger – I have a lot of friends in London but we didn't have much family in London at the time.

My mum said we might come back up north, so I said I would. That's why we moved back up to Liverpool because all our family was there.

You must have been feeling low at that stage?

Seems to me it's every four years that something drastic happens. Four years after my dad died I got diagnosed with cancer – I had Non-Hodgkins Lymphoma and was told by the doctors there was no cure, they could only treat it, they couldn't cure it.

So that was a turmoil. I had the children and they were only small at the time. Alexis was only eight, Lucy was at Lancaster doing Law, though she'd only been there half a year. She had to come out of university because I was on chemotherapy. I didn't want her to – she was only 18 at the time – only a child herself.

Chemo went on for six months, it was really intense therapy and afterwards they said while it's still not cured, it's in remission, so Lucy went back to university.

Four years after that my mum died. Every time I was getting back to normal, getting back to myself, just getting back on top of things and feeling a bit normal. It's been really stressful for about the last fourteen years, it's just been one thing after the other.

So it was while you were going through these bad times that you contacted the Benevolent Fund...

I ended up talking to someone for about an hour and they sent me some forms to fill out. A couple of days later I got some forms through the post. I filled out some information about my husband and myself and a few weeks later the Royal Society of Chemistry offered me a grant.

At the time I was claiming income support – I just couldn't manage at all with four children – they were all in education so I don't know how I could cope with it. So it was a big relief to get the help from the RSC.

How was that initial phone call?

I felt somebody cared, really. She was really friendly and nice and very helpful – I felt very comfortable.

How did speaking to somebody and knowing there was some possible support there make you feel?

I was quite drained. I'd never really spoken to anybody about my situation so after the conversation it was quite a relief, a weight off my shoulders really, because everything was just mounting up and piling up with stress.

After speaking to the Benevolent Fund it was a relief. A volunteer visitor used to come out and see me and he was very helpful, so I felt I had a lot of support from you.

If it hadn't been for the Benevolent Fund, how would you have managed?

Do you know what, I don't know how. I don't think I would have managed.

I would have struggled on but emotionally, I think I would have had a breakdown myself. Every time I picked myself up to do something, I was bombarded with something else that needed my time, which was like a full-time job in itself and not getting paid for it.

If you knew of any other member in a similar position to you, what would you say to them?

I'd say to them to trust the RSC because they are really helpful and supportive. They don't make you feel uncomfortable or belittle you in any way. Just go ahead and do it.

How important is it that you have emotional support – it's not just financial?

I know that if I did need any help – if I needed someone to talk to they have got volunteer visitors who can come out to your house – so I know it's there. I've been there in the past and I've wanted it, so it's really good that I know the support is there for me.

Did you find asking for help was a barrier that was difficult to overcome?

Only because of embarrassment really. Before I did call I was thinking it's a charity and it was bad of me to call because there's people who are less fortunate than I am. I am quite fortunate because I have got family. I just felt a bit rude, actually, ringing you. Swallow your pride and just remember that help is there.

WORDS

EDWIN SILVESTER AND DAWN MCGAHAN

Open access and us

Open access publishing is one of our strategic priorities, supporting our mission to advance excellence in the chemical sciences

What is 'open access' publishing?

Open access (OA) is free and permanent unrestricted access to journal articles where authors retain copyright to their work and license it so that it can be redistributed and reused freely, provided full accurate attribution is given.

It's vital to stress that for high-quality prestigious publishers, OA is not an opportunity for self-publishing or a means to bypass peer review.

Essentially, open access only differs from traditional subscription publishing in who pays; either to publish or access content. For subscription, the publisher carries out the publication services and charges a subscription fee for access. In OA, authors are charged by the publisher for the publishing service and access to articles is free to all.

For the Royal Society of Chemistry, the criteria and quality control for both business models is identical: the journals have editors and an editorial board; online submission and publishing systems; rigorous peer review standards; and we strive for inclusion in indexing services and to obtain impact factors.

How did OA come about?

Several factors inspired the development of OA.

- the 'serials crisis' which describes the chronic subscription cost increases of many scholarly journals. The prices of institutional and library subscriptions have been rising fast for several decades, while library budgets have remained static or have declined in real terms. As a result, academic and research libraries have regularly cancelled serial subscriptions, meaning the articles published in these journals are not made available for researchers to use;
- the creation of new digital publishing opportunities and technologies;
- a progressive "open" movement demanding unrestricted access to publicly-funded research;
- requirements from funding organisations for research outputs to be made freely available to maximise dissemination of the research they fund. For example, the Research Councils UK mandated that from April 2013 outputs from their funded research submitted for publication must be made open with the most liberal licence, giving readers unrestricted reuse rights. And with effect

from 2016, the Higher Education Funding Council for England states that for articles to be included in a Research Excellence Framework assessment, the article metadata must be deposited within three months of acceptance in a repository, and the article must be made available via OA.

Green and Gold

Over time, two different OA models have emerged, Gold and Green.

Gold OA publishing gives immediate access to articles after peer review. The author pays for publication, which covers:

- editorial tasks (handling manuscripts through peer review to publication);
- technical input (development and maintenance of online journal systems);
- production (formatting of articles, inclusion in indexing services);
- marketing (ensuring readers know about journals and articles); and
- customer services (responding to authors, referees, readers etc).

Green OA publishing involves self-archiving of articles in institutional repositories with no publication charge. Articles are not available immediately but can typically be accessed 6-24 months after publication.

Pure gold OA journals and so-called hybrid journals, with subscription and OA content, now also exist. Publication charges can be paid directly out of research funds or central funds provided by some funding organisations and institutions. Some journals cover costs via sponsorship, so there are no direct charges for authors.

So what does this mean for our journals?

We want to support OA models that make sure scholarly publishing activities operate in a long-term, sustainable way, while also maximising availability and accessibility of research, maintaining standards and ethics of publishing, and providing a quality publishing service.

To achieve this, we provide Gold OA options for all our current journals. In addition, our multidisciplinary

WORDS
JAN KURAS

high-impact journal *Chemical Science* moved to fully Gold OA from 2015, with publication charges waived for two years. This is a bold and exciting move which immediately puts us at the forefront of high quality chemistry OA publishing.

We can facilitate Green OA via our Chemical Science Article Repository, with full text of the article available 12 months after publication.

How we're helping authors – Gold for Gold

We recognise that researchers are being asked to publish OA but may not have the funding. Gold for Gold is an initiative for all RSC Gold subscribing institutions where voucher codes are provided to publish Gold OA at no extra cost. The number of voucher codes received by an institution is based on the RSC Gold subscription divided by our standard publication charge.

Next steps

We want to provide a trusted voice during the growth of OA publishing, work with the community to support their requirements and be involved in the discussions about directions in academic publishing. To help with that we are:

- updating our web pages and other materials to accurately reflect OA policies;
- enhancing our editorial and production systems to support OA publishing as effectively as subscription publishing;
- developing appropriate OA content and journals to meet the needs of the chemical science community.

Open access is generating a wide range of opinions – get in touch with your thoughts or any feedback you receive during your interactions with researchers and the wider chemical science community. Email oa@rsc.org



Opinion

Letters and comments on RSC activities and issues

FROM THE EDITOR



Many of the pieces in this issue have a thread of sharing and community.

Being part of a growing, thriving community gives us strength in numbers and a

sense of shared purpose. It also allows us to help our less fortunate peers when they need it most.

For the last year my colleagues in our Benevolent Fund team have been busy making sure the fund works for our modern community (p8) and there's a powerful example of its continued importance to members and their families (p10).

We have an update on our exciting mentoring service, currently going through a highly promising pilot programme (p6).

And in an era of increasing scientific collaboration and sharing across international borders, we take a look at the development of Open Access publishing and how it supports our goal of advancing excellence in the chemical sciences (p12).

Edwin Silvester
rscnews@rsc.org

Chemistry research in robust health

As members know, we were delighted with the positive outcome for chemistry of the 2014 Research Excellence Framework (REF). As well as generating a real increase in the quality of research undertaken since 2008 (when the previous assessment took place), chemistry departments demonstrated the wide-ranging contribution they make to the economy and to society.

Our discipline is clearly vital to the pharmaceutical and manufacturing sectors, has strong impact on health, clinical practice and areas of environmental science, and exerts influence over several aspects of public policy. In addition, departments have been investing in the next generation of chemistry researchers, with a healthy 25% growth in PhD graduates over the period.

Although the outcome for chemistry is very positive, we recognise that the REF generated a huge volume of work for our members. On 2 February, 45 Heads of Chemistry departments met in Burlington House to celebrate the successes in our discipline. They also discussed some of the challenges of the current exercise and debate the opportunities for change ahead of the next assessment.

Panel speakers included representatives from the Higher Education Funding Council for England (HEFCE), the Engineering and Physical Sciences Council (EPSRC) and members of the REF sub-panel for chemistry, including Professors Richard Catlow and Graham Hutchings, the chair and deputy chair.

Going forward we hope to continue this debate and consider how we encourage more chemistry departments to engage in the next round of assessment, to ensure it reflects the full range of excellence and impact that our discipline has achieved.

We also plan to use the wealth of good news stories, submitted in over 100 impact case studies, to convince politicians of the real value of chemistry and the on-going need to invest in our discipline.

The REF showed that chemistry is in robust health – the stories you generated will support our work to help make sure it stays that way.

Gemma Garrett,
Higher Education manager
Royal Society of Chemistry
Cambridge, UK

REF2014
Research Excellence Framework

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](https://www.facebook.com/RoyalSocietyofChemistry)

Providing skills across the country

Supporting businesses in establishing appropriate vocational training will help meet rural skills needs, says Hilary Jeffreys.

Businesses in rural areas of the UK, especially those operating in technical fields, can face various challenges. The 2013 Northern Devon Skills Survey, for example, highlighted particular skills shortages in the manufacturing and business support service sectors in this area. In addition, the availability of providers that are able to deliver courses locally can be restricted. This is further complicated by the relatively high number of small and medium enterprises (SMEs) in this area that can have varying needs and smaller numbers of students spread over a larger area. Vacancies as a result of skills shortages can, in turn, impact businesses, including increasing the workload of staff and delaying the development of new products or services.

In 2013, the Royal Society of Chemistry, the Salters' Institute, the Gatsby Charitable Foundation and the Society of Chemical Industry brought together more than 50 chemical industry employers, trainers and stakeholders to discuss technical skills needs in the chemical industry. The resulting Supporting Technical Skills in the Chemical Industry report highlighted "the need for high quality technical and vocational education has never been more important to the UK than it is today. The chemical industry has an ambition to raise its contribution to the economy ... But that will only happen if the industry has the right people with the right skills to make the most out of the opportunities at hand."

Some of the report's recommendations for employers included ensuring that more apprenticeships are available and for employers to invest and develop in the skills capacity in their geographical area by offering work placement opportunities to local colleges, collaborating with SMEs.

What do we need to do?

If apprenticeships are a potential solution to technical skills shortages, we must consider four key areas to ensure their success, especially in rural areas.

- Employers need to support apprenticeships across a range of disciplines.
- Schools need to understand and promote the opportunities of apprenticeships.
- Apprenticeships standards and quality systems must be available to ensure high-quality training.
- Relevant providers must be available to support and/or deliver apprenticeships.

One way to address the first two points is to foster stronger links between employers and schools/FE colleges, ensuring good understanding of technical career opportunities and that the right skills are available to support future business needs. For example, the North Devon STEM task group has been working on a range of initiatives to develop

such relationships. By increasing the number of STEM ambassadors and employer interventions with schools and colleges, we have been able to promote apprenticeships and scientific career opportunities.

To deliver a successful apprenticeship programme, it is also important to ensure that relevant apprenticeship standards are available and supported in the local area. The Apprenticeship Trailblazer project has brought together employers, professional bodies, the Sector Skills Council, UK government representatives and apprenticeship providers to develop the standards in a range of areas including the life sciences and industrial sciences field. In October last year, the government published a report that outlines its four key aims for reforming apprenticeships in England. These are to:

- increase the quality of apprenticeships;
- put employers in the driving seat;
- simplify the system;
- give employers purchasing power.

The Life Sciences and Industrial Sciences Trailblazer phase 1 team has successfully developed apprenticeship standards for a range of roles, including the laboratory technician, science manufacturing technician and science manufacturing maintenance technician. It has been very beneficial for employers to share best practice, design recognised and transferrable standards that are suitable across the sector and include rigorous assessment. As more employers consider offering apprenticeships this will encourage more students to consider apprenticeships and the associated future career opportunities. It will then be important to capture and publicise the benefits and successes for both employers and students.

Focus on rural areas

To provide access to high quality apprenticeships in all areas of the country, it is also vital that we focus our efforts on rural areas. In North Devon, I have been working with local training providers to look into the delivery of the apprenticeships in rural areas. This also requires providers to bring together employers including SMEs to ensure that the apprenticeships on offer meet the skills needs of the customers and are financially sustainable. Sharing examples where apprenticeships have already been successful in helping to close the skills gap will hopefully encourage other employers of the long term benefits to grow their own talent and support the technical skills shortage in more rural areas.

All in all, it is currently a very interesting time for apprenticeships and the development of skills capacity in local areas. In order to meet existing needs, we must make sure we work together across a range of areas to share our expertise and shape the future.



Dr Hilary Jeffreys CSci CChem FRSC works as Technical Transfer Manager at Actavis and is the Chair of our Admissions Committee. She is involved in numerous activities to promote science skills and was given the national *Outstanding Leadership in Skills Award* in 2014.

"...it is currently a very interesting time for apprenticeships and the development of skills capacity in local areas."

Diary

Your guide to all important events

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NOTICES



Our president, Dominic Tildesley, speaking at the North West regional Meeting in Preston (p22).

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

ARF15

Analytical Research Forum 2015

3 July 2015
London, UK

Registration is now open

Over the course of one day, ARF provides a high-impact scientific meeting for the UK analytical community with both high-profile speakers and opportunities for younger researchers to present work.

Networking opportunities will be plentiful, particularly at the extended evening event which includes a buffet and will end with a wine reception.

Keynote speeches and invited talks are joined by additional oral papers selected by the Scientific Committee from the submitted abstracts – while the flash poster session allows even more participants to share their work. Prizes will be awarded for the best oral and poster contributions from students and researchers – so be sure to submit your research today.

<http://rsc.li/arf15>

ISACS17

Challenges in Chemical Renewable Energy

8–11 September 2015
Rio de Janeiro, Brazil

Abstract submission – now open

Brazil is considered to have the world's first sustainable biofuels economy, making it the perfect location for the latest conference in our International Symposia on Advancing the Chemicals Sciences (ISACS) series. Leading scientists from across the world will meet in Rio de Janeiro to share scientific developments in renewable energy generation and storage.

The five themes for ISACS17 are:

- solar fuels and molecular catalysis
- photovoltaics
- biofuels
- battery technology/energy storage
- fuel cells

Challenges in Chemical Renewable Energy is set to be a significant milestone in the ISACS series. Abstract submission is now open so, if your research aligns with any of the above themes, take advantage of this opportunity to showcase your work in Brazil.

<http://rsc.li/isacs17>



ANNOUNCING

Advanced Vibrational Spectroscopy for Biomedical Applications (Faraday Discussion)

21–23 March 2016
Cambridge, UK

<http://rsc.li/vibspec-fd2016>

Designing New Heterogeneous Catalysis (Faraday Discussion)

4–6 April 2016
London, UK

<http://rsc.li/catalysis-fd2016>

DATES AND DEADLINES

Corrosion Chemistry (Faraday Discussion)

13–15 April 2015
London, UK

Final registration deadline:
16 March 2015

<http://rsc.li/corrosion-fd2015>

Nanoparticle Synthesis and Assembly (Faraday Discussion)

20–22 April 2015
Chicago, USA

Early bird registration:
2 March 2015

Final registration deadline:
23 March 2015

<http://rsc.li/nanoparticle-fd2015>

Challenges in Chemical Biology (ISACS16)

15–18 June 2015
Zurich, Switzerland

Poster submission deadline:
7 April 2015

Early bird registration
deadline: 27 April 2015

<http://rsc.li/isacs16>

24th International Symposium: Synthesis in Organic Chemistry (OS24)

20–23 July 2015
Cambridge, UK

Early bird registration:
31 March 2015

<http://rsc.li/os24>

Events

Further information

The RSC News Diary this month lists RSC events from March to April 2015 that are held on the RSC conference database. Further details on any of these meetings can be obtained from the named contact or from the 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

UEA School of Chemistry Research Seminar

11 March
University of East Anglia, Norwich
Dr Chris Russell of the University of Bristol will give a lecture on Organometallic Chemistry.
Contact John Fielden
01603 593137
john.fielden@uea.ac.uk

UEA School of Chemistry Research Seminar

25 March
University of East Anglia, Norwich
Professor Mike Ward of the University of Sheffield will give a lecture on Supramolecular Inorganic Chemistry.
Contact John Fielden
01603 593137
john.fielden@uea.ac.uk

RSC Joseph Chatt Award Lecture

8 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
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
Professor Dek Woolfson of the University of Bristol will give a lecture on research in Biological Chemistry and Synthetic Biology.
Contact John Fielden
01603 593137
john.fielden@uea.ac.uk

Essex Section

Essex Section Annual General Meeting

18 March
Old Big School, Brentwood School, Brentwood
Annual General Meeting of the RSC Essex section, followed by a presentation by the curator of the ship model and boat collections at the National Maritime Museum.
Contact Colin Ward
01375 407361
colinmward@blueyonder.co.uk

Fun with Chemistry

26 March
University of Essex
A presentation of exciting chemistry demonstrations for 12-14 years olds, with audience participation and prizes. Liquid nitrogen, cardice, luminol, pyrophoric iron, non-burning £20 note trick and much more. School parties of up to 100 can be accommodated.
Contact Alan Osborne
0208 5902021
dimequin@bushinternet.com

Teacher Training Scholarships

Inspire the next generation

Apply for a Royal Society of Chemistry Teacher Training Scholarship

<http://rsc.li/teacher-scholarships>



Other Events

Analytical Division – East Anglia

Social event – Gourmet meal at Cambridge Regional College

12 March
Cambridge Regional College
The restaurant has been reserved for an evening social event, where a three course meal, inclusive of wine, will be cooked and served to us by the students, with their tutors overseeing the process. The cost of attending this event will be £22.50 per head. Members will be allowed to bring along one guest.
Contact Brian Woodget
07899 910954
bwoodget1@sky.com

Biological and Medicinal Chemistry Sector

Fragments 2015: Fifth RSC-BMCS Fragment-based Drug Discovery meeting

22-24 March
Churchill College, Cambridge
The aim of the meeting will be to continue the focus on case studies in Fragment-based Drug Discovery that have delivered compounds to late stage medicinal chemistry, preclinical or clinical programmes. The conference will include successful examples from all types of fragment-based approaches, including high concentration, NMR, SPR and X-ray screening.
Contact Maggi Churchouse
01359 221004
maggi@maggichurchousevents.co.uk

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. The meeting will also be applicable to all those working in medicinal chemistry and drug discovery. In addition, the meeting will offer excellent networking opportunities.
Contact Maggi Churchouse
01359 221004
maggi@maggichurchousevents.co.uk

Chemistry Biology Interface Division

Directing Biosynthesis IV

25-27 March
The John Innes Centre, Norwich
Natural products produced predominantly by microorganisms and plants have inspired the development of many blockbuster drugs and crop protection agents. Natural Products research is strategically important to industry and society globally.
Contact Events Department RSC
01223 432380
events@rsc.org

INTERNATIONAL

North India Section

ChemCareers India 2015, Hindu College University of Delhi

28 March
Hindu College, University of Delhi
The objective of organising this fair is to provide students an opportunity to learn about prospective employers, receive expert advice from professionals and gather information on career options. At the same time it's an opportunity for industries to tap into a wider chemical sciences pool, from graduate students to research scholars and strengthens their brand awareness among students.
Contact Reena Jain or Dr Devanshi Magoo
+91 981 189 5579
reenajain70@yahoo.co.in

Other events

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

EVENTS

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

IRELAND

Northern Ireland Section

RSC Ireland Regional Meeting 2015

12 March
Chartered Accountants House, Dublin
Once a year active RSC members attend our regional meetings. These provide a fantastic opportunity for members to meet representatives of RSC Council and to find out more about our strategic goals. It is also the perfect opportunity to discover the wonderful work of our member networks and the work we are doing to support our community, and network with RSC staff and members in your local area. Attendance is by invitation only but any interested member can apply to attend.

Contact Marie Chapman, RSC
01223 432274
networks@rsc.org

MIDLANDS

East Midlands Section

East Midlands Section Annual General Meeting 2015

5 March
University of Leicester, Department of Chemistry
Contact Sarah Hill
07718 191115
rscemsecretary@gmail.com

Other Events

RSC 2014 Khorana Prize Lecture by Professor Gideon Davies

12 March
University of Warwick, Physics Lecture Theatre

Professor Davies is the 2014 winner of the RSC Khorana Prize for his seminal and lasting contributions to our understanding of carbohydrate enzymology, particularly in his pioneering work on conformational analysis of enzyme action.

Contact Christophe Corre
02476 523557
C.Corre@warwick.ac.uk

NMR Discussion Group Spring Meeting: Diffusion NMR

31 March
The School of Chemistry, Birmingham University.
The meeting will include presentations from leading practitioners in addition to a poster session. There is also an opportunity to give a 'quickfire' oral poster presentation. It is anticipated that the meeting will be of both specific and general interest to most NMR spectroscopists. The event will be attended by vendors of NMR equipment and accessories, providing an opportunity to discuss latest developments in hardware or software.

Contact Melanie Britton
0121 414 4391
m.m.britton@bham.ac.uk

Organic Division RSC Organic Division Midlands Meeting 2015

9 April
University of Sheffield, Richard Roberts Building
This event will include presentations from early career researchers, from the Universities of Sheffield, Nottingham, Nottingham Trent, Leicester, Loughborough, Warwick and Birmingham. A plenary lecture will be given by the 2014 Norman Heatley Award Winner Professor Ed Tate, Imperial College London. There will be the opportunity for poster presentations by researchers at PhD and postdoctoral level from the respective local universities.

Contact Elaine Fray
01142 224987
e.fray@sheffield.ac.uk

NORTH EAST

Hull and East Yorkshire Section

Cafe Scientifique

25 March
The White Horse Inn (Nellies), Beverley
Contact Mark Lorch
01482 465687
m.lorch@hull.ac.uk

Newcastle upon Tyne and North East Section

Seminar – Rita and John Cornforth Award, 2014

3 March
Newcastle University
• Dr Paul Brennan
The speaker will 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

Seminar – Dalton Young Researcher Award, 2014

14 April
Newcastle University
• Dr Kogularaman Suntharalingam
The speaker will 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

Chemistry in Space

17 March
University of Sheffield
Science Week Lecture
Contact Jackie Morton
01298 218437
jackie.morton@hsl.gsi.gov.uk

Polysaccharides, Polyphenols and Pilsner: The Chemistry of Beer?

19 March
University of Sheffield
Science Week Lecture by Charlie Bamforth
Contact Jackie Morton
01298 218437
jackie.morton@hsl.gsi.gov.uk

8th Annual Pub Quiz

26 March
Bloo 88 (old Hallamshire Hotel), Sheffield
The pub quiz is based on quite a few rounds of various topics. Each team should have no more than six people. Entry fee £3.00 per person. There will be food provided mid-way through the quiz.
Contact Jackie Morton
01298 218437
jackie.morton@hsl.gsi.gov.uk

Southumbria Section

Wine tasting – Alsace and Jura

27 March
Conoco Room, Louth
Wine tasting followed by a buffet. Cost £5.00 per person.
Contact Keith Hard
01507 603847
e.hardy@talktalk.net

Teesside Section

Lunch in a Castle

28 March
Walworth Castle Hotel, Darlington
Networking / social lunch for members and guests.
Contact Lucinda Dudd
07973 532564
lucindadudd@yahoo.co.uk

Other Events

Water Science Forum, Environmental Chemistry Group, International Network of Environmental Forensics
Emerging Contaminants in Waters and Soils, Practical Considerations: Sampling, Analysis and Consequences.

4 March
The Source Skills Academy, Sheffield
Contact Kevin Prior
01890 818050
kevin@thackie.co.uk

Faraday Division

Nucleation – A Transition State to the Directed Assembly of Materials: Faraday Discussion

30 March-1 April
Leeds Beckett University, Rose Bowl, Leeds
This meeting aims to bring together this growing body of theoretical and experimental work from both the academic and industrial spheres in order to assess recent progress, highlight on-going challenges in the domain area and route-map future work still needed.
Contact Events Department, RSC
01223 432380
events@rsc.org

Organic Division North-Eastern Regional Meeting 2015

1 April
The University of Bradford
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 or
Dr William Martin
01274 233362
h.sheldrake@bradford.ac.uk

Inorganic Biochemistry Discussion Group (IBDG) Spring Meeting

9-10 April
University of York
Contact
01904 322561
alison.parkin@york.ac.uk

NORTH WEST

Lancaster and District Section

Wine Tasting followed by a Buffet Supper

17 March
Preston's College, Preston
Contact Harry Clarke
01995 640003
hclarke906@btinternet.com

Annual Quiz Night followed by a Buffet Supper

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

Liverpool Section

Retired Members' Lunch and Talk

25 March
Colours Restaurant, St Helens
A three-course lunch will be
followed by a talk on 'How modern
advances in Analytical Chemistry
will affect you'. Tickets are £11.00
and members can bring a guest.
Contact Dr Bob Lee
0151 334 7875
drboblee@msn.com

SCOTLAND

Mid-Scotland Section

The Best of the Rest

27 March
Best Western Park Hotel, Falkirk
Professor John Hepworth from
Preston returns to delight us
all with a selection of wines
supplemented by a feast of Cuisine.
Contact Mark Dennis
07859 027868
mark1_dennis@hotmail.com

Annual General Meeting & Dinner

24 April
Best Western Park Hotel, Falkirk
The AGM of the Mid-Scotland
Local 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

Protein and Peptide Science Group

Nanopeptide 2015

2-4 March
University of Strathclyde
Programme Topics range from
materials science, soft matter
physics, biophysics and chemistry
through to biomedical applications
of peptide & protein biomaterials.
Contact Stephen Hoare
01949 839586
shoare@peptideconferences.org

SOUTH EAST

Chilterns and Middlesex Section

RSC Chilterns and Middlesex Section Humphry Davy Public Lecture

5 March
The Royal Society of Chemistry,
Burlington House, London
Space: The Ups and Downs of
Modern Exploration by Dr Helen
Sharman OBE
Our understanding of physics
and chemistry enables humans
to continue to explore, no longer
being confined to the limits of
a planet. But pulling together all
the sciences and combining with
engineering and technology means
we can do this relatively safely and
in reasonable comfort. This talk
will explore some of the issues
and how they are solved, looking
forward to a time when space
travel will be a joyful (and safe)
experience for many.
Contact Stanley Langer
0208 458 1910
stanley1910@yahoo.co.uk

Retired Local Members Lunch

16 March
The Cock Inn, Sarratt
Contact Tom Keaveny
07785 997828

The Livery Companies of the City of London

23 April
The Royal Society of Chemistry,
Burlington House, London
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.
Contact Stephen Robinson
0208 546 7940
stephenrobinson_3@hotmail.com

Kent Section

Schools and Public Lecture: 'Climate Change in Kent: should we be concerned?'

11 March
St Lawrence College, Ramsgate
The lecture will be presented by Dr
Andrew Haggart, Principal Lecturer
in Geography and Environmental
Science at the University of
Greenwich. Based at the Medway
Campus in Chatham, he has
published academic papers on
environmental change, notably
sea-level change in Scotland and
SE England during the Holocene,
our present warm period.
Contact Ed Pegden
01843 587666
elp@slcuk.com

'Fuels for the Future' British Science Week Symposium

18 March
University of Greenwich at Medway
This symposium is aimed at Yr 11
and A-Level students, with the
intention of promoting diverse and
exciting science based careers.
The event is open to students and
parents – we would like anyone
with a passionate interest in
science to attend.
Contact Sam Booth
0208 331 9965
S.E.Booth@gre.ac.uk

Kent Local Section Annual General Meeting

25 March
Kent Science Park
AGM followed by a lecture: 'A Mass
Spectrometer Too Far? The Rosetta
Mission to Analyse a Comet' By
Professor John Todd, University of
Kent. Both members and partners/
guests are welcome at the AGM
and lecture. If you are interested in
serving on the Kent Local Section
committee in any capacity, please
contact Dave Alker by 13 March
2014
Contact Dave Alker
07962 929700
dave.alker@btinternet.com

Other Events

Management Group

The Pitfalls of New Material Product Development and Introduction

16 March
The Royal Society of Chemistry,
Burlington House, London
A lecture giving insights into the
introduction of new material
products to the marine coatings
market. Dr Raouf Kattan will
give examples based on actual
problems encountered by raw
material suppliers and developers
in trying to sell product to coating
companies involved in the marine
coatings business. The talk will
identify the barriers to the market
and opportunities to save money
in product development. It will
consider the best routes to
understanding end user needs and
discuss the issue of how much
testing should be done before
introduction. This lecture is FREE
to attend but you must book in
advance.
Contact Alan Keasey
alankeasey@hotmail.com

Historical Group

The Life and Work of Sir John Cornforth CBE AC FRS

18 March
The Royal Society of Chemistry,
Burlington House, London
well as presentations
on Cornforth's scientific
achievements, we hope to hear
personal reminiscences about him
from family and colleagues. There
is no charge for the meeting, and
it will be open to non-members of
the Historical Group.
Contact John Hudson
01946 861555
johnhudson25@hotmail.com

The RSC Tilden Prize Lecture

18 March
Queen Mary University of London,
School of Biological and Chemical
Sciences
The RSC Tilden Prize Lecture
Speaker: Professor. Iain McCulloch,
Imperial College London
Contact Chris Bray
0207 882 3271
c.bray@qmul.ac.uk

EVENTS

2014 Corday-Morgan Prize Winner Lecture

18 March

University College London
This is a lecture delivered by Professor Molly Stevens from Imperial College London, the 2014 winner of the RSC's Corday-Morgan Prize. Professor Stevens was awarded the Prize for her research in the field of biomedical materials, especially her development of nanoparticles and diagnostic platforms that can detect biomarkers corresponding to specific disease states such as cancer and infectious disease.

Contact Martijn Zwijnenburg
0207 679 4558
m.zwijnenburg@ucl.ac.uk

2014 Rita and John Cornforth Award Winner Lecture

18 March

University College London
This is a lecture delivered by Professor Stefan Knapp of the Structural Genomics Consortium at the University of Oxford, the 2014 winner of the RSC's Rita and John Cornforth Award. The Structural Genomics Consortium was awarded the Rita and John Cornforth Award. The topic of the lecture is 'Specific targeting of protein interactions mediated by epigenetic reader domains'.

Contact Hugo Bronstein
0207 679 7466
h.bronstein@ucl.ac.uk

Joint Pharmaceutical Analysis Group

Combating Counterfeit Medicines: the Solutions

19 March

The Royal Society of Chemistry, Burlington House, London
Sub-standard and counterfeit medicines are a great threat to patient health and safety as well as the profitability of the UK pharmaceutical industry. This symposium looks at the big issues and current best practice: designing the formulation of medicines for authentication, the steps being taken by the European pharmaceutical industry to implement the European Falsified Medicines Directive as well as the MHRA's enforcement successes and the role of its Laboratory.

Contact Amy Le Vannais
0207 572 2326
events@jpag.org

Marketing Group

Top Secret – British Boffins in WWII

23 March

The Royal Society of Chemistry, Burlington House, London
This talk will bring to light some of the remarkable achievements by academics in aid of the war efforts, People from Alan Turing, working in Bletchley Park, to people who designed and supervised the Mulberry Harbours for the invasion of France. Sir Frank Whittle also came to the public's attention for his war work on the jet engine.

Contact Paul Fielding
01256 478509
paul.fielding@cogo.co.uk

Separation Science Group

Emerging Separations Technologies

26 March

Royal Society of Chemistry, Burlington House, London
The program is being designed to cover a range of topics, such as multidimensional chromatography, SFC, new detectors, including MS, etc., from highly regarded international speakers and new emerging professionals. Emerging Separations Technologies provides you with a unique means of discussing the very latest instrumentation and applications and sharing experiences with other professionals and will also provide excellent networking opportunities.

Contact Paul Russell
01234 264831
paul.j.russell@unilever.com

Dalton Division Poster Symposium

31 March

The Royal Society of Chemistry, Burlington House, London
A poster symposium, bringing together young inorganic chemists from across the breadth of the field to give them the opportunity to present their work to their peers with the opportunity to win significant prizes.

Contact Events Department RSC
01223 434048
events@rsc.org

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. Corrosion science does not always attract the plaudits of other more fashionable subjects, but is nevertheless of huge strategic importance. This statement is increasingly true as we move towards a world where every atom counts, e.g. in maintaining the performance of nano-devices, as well as ensuring sustainability through optimum use of natural resources.

Contact Events Department RSC
01223 432254
events@rsc.org

Biological and Medicinal Chemistry Sector/ 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
At this symposium key scientists and stakeholders in the area will disclose recent progress in this field, 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
02380 593209
j.j.frey@soton.ac.uk

The 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

SOUTH WEST

Bristol and District Section

Grow Your Own Diamonds

25 March
University of Bristol
Family Lecture 7.00pm
Contact Tim Harrison
0117 928 8663
t.g.harrison@bristol.ac.uk

Mid-Southern Counties Section

Lunch For Retired Members

10 March
The Three Lions Restaurant,
Stuckton, Fordingbridge
The lunch for retired members
and their guests. The cost of the
three course lunch is £26.00 per
head for RSC members and their
partners and will include wine
and a glass of sherry or soft drink.
Non-members are welcome to
attend and the cost will be £32.00
per head. Those wishing to attend
are asked to notify the organiser
as soon as possible and in any
case by Monday 23 February as
numbers may be limited.
Contact Ian Anderson
02380 730673
ian_anderson@consult-igma.co.uk

Top of the Firm 2015

12 March
Arlott Bar of the Staff Club,
Highfield Campus, Southampton
University
A light hearted fun night to
discover who will win the coveted
title of Top Firm 2015. It will be
a pub quiz event based around
Chemistry for teams of up to five
people. £5 per person including
buffet. Please contact the organiser
by 12 February 2015. Teams will be
made on the night.
Contact Louisa Wronska
01489 563540
Louisa.Wronska@saufloncl.co.uk

A Room with a Boom

25 March
University of Southampton
This is our annual Schools' Lecture
for Y10 students. Chemistry and
chemicals are all around us.
Chemists have to alter, analyse
and adapt these chemicals to
meet a range of challenges. In
this show Nick Barker (University
of Warwick) will, by the use of a
range of practical demonstrations,
show the beauty and importance
of chemistry. This may be your only
opportunity to see a nappy and
hydrochloric acid feature in the
same science lecture.
Contact Outreach Team,
University of Southampton
02380 598562
UGapply.FNES@soton.ac.uk

Other Events

RSC Southwest Regional Meeting 2015

19 March
Bristol Marriott Hotel City Centre
Once a year active RSC members
attend our regional meetings.
These provide a fantastic
opportunity for members to meet
representatives of RSC Council
and to find out more about our
strategic goals. It is also the
perfect opportunity to discover the
wonderful work of our member
networks and the work we are
doing to support your community,
and network with RSC staff and
members in your local area.
Attendance is by invitation only but
any interested member can apply
to attend.
Contact Marie Chapman, RSC
01223 432274
networks@rsc.org

RSC Prize Lecture

29 April
University of Bath, Department of
Chemistry
Professor Joseph 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

WALES

South East Wales Section

Chemistry and Biology of Englerin A

2 March
Cardiff University
The lecture will last for
approximately 1 hour.
Contact James Redman
02920 876273
redmanje@cardiff.ac.uk

Changing structures, tuning properties: insights into functional materials from variable temperature structural studies

9 March
Cardiff University
The seminar will last for
approximately 1 hour.
Contact James Redman
02920 876273
redmanje@cardiff.ac.uk

Microwave-assisted synthesis of noble metal and bimetal nanosols.

16 March
Cardiff University
The seminar will last for
approximately 1 hour.
Contact James Redman
02920 876273
redmanje@cardiff.ac.uk

Multicomponent Supramolecular Hydrogels

23 March
Cardiff University
The seminar will last for 1 hour.
No registration necessary.
Contact James Redman
02920 876273
redmanje@cardiff.ac.uk

Adventures in Continuous Flow Chemistry

30 March
Cardiff University
The seminar will last for 1 hour.
Contact James Redman
02920 876273
redmanje@cardiff.ac.uk

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

20 April
Cardiff University
The lecture last for approximately
1 hour.
Contact James Redman
02920 876273
redmanje@cardiff.ac.uk

South Wales West Section

Local Section Annual Summer Dinner

24 March
Sketty Hall, Swansea
Preceded by the Local Section
Annual General Meeting
Contact John Davies
01792 894778
j.s.davies131@btinternet.com

Adventure in Organic Chemistry: Synthesis Structure and Mechanism

26 March
Swansea University
Contact Bill George
01792 406994
bill.george@southwales.ac.uk

A Chemist's Journey from Amino Acids to Mad Cows

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

Other Events

RSC Wales Regional Meeting 2015

5 March
Millennium Stadium, Cardiff
Once a year active RSC members
attend our regional meetings.
These provide a fantastic
opportunity for members to meet
representatives of RSC Council
and to find out more about our
strategic goals. It is also the
perfect opportunity to discover the
wonderful work of our member
networks and the work we are
doing to support your community,
and network with RSC staff and
members in your local area.
Attendance is by invitation only but
any interested member can apply
to attend.
Contact Marie Chapman, RSC
01223 432274
networks@rsc.org

Notices

2015 Regional Meetings

We are over half way through the 2015 programme of Regional Meetings, where delegates – many who have never attended a regional meeting before – have had the opportunity to meet with members who live in their local area, learn about our initiatives and events and find out more about how they can get involved in our member networks.

At each event, delegates were welcomed by a member of our council and then updated on Royal Society of Chemistry activities. A presentation from a member of our Leadership Team informed members about the increase in member engagement, with our activities and new member benefits that offer additional support to our members, such as more training offerings and travel grants for conferences.

We have also been introducing members to the new logo for our divisions, local sections and interest groups; we know from feedback we've had from members that there has been an appetite for a formal logo for some time. Using a coherent identity will strengthen our reputation and collective voice, which is more important than ever in our work to show that chemistry is fundamental to our lives and the world around us.

Dr Chiara Ceci then shared information on our *how to influence the public perception of chemistry* campaign and how members can get involved. These were followed by an update on education and outreach activities in the region – from the local Education Coordinators and Programme Managers in the region – and finished with an update from the Chair of the Regional Steering Groups (made up of representatives from our Local Sections, Interest Groups, Analytical Division and Education Division Region committees and our network representatives).

Once the main part of the meeting was over, members made the most of speaking with other members, Royal Society of Chemistry staff and council members, and made many useful contacts. Several members became more actively involved there and then, with one volunteering to become a Benevolent Fund Representative, and new members being drafted on to Local Section committees.

2015 BMCS Travel Prize

The Biological and Medicinal Chemistry Sector (BMCS) is pleased to announce the winners of the 2015 BMCS Travel Prize. From a large number of very high quality applicants the judges selected: Marta Brambilla (Oxford University); Chris Brown (Bristol University); Ewen Calder (Glasgow University); Miguel Garzon Sanz (Birmingham University); Gemma Geary (Leicester University); Maria Shchepinova (Glasgow University).

Recognising that early-career researchers (ECRs) are the potential Nobel prize-winners of the future, the BMCS introduced the Travel Prize programme in 2014 to help support, encourage and develop the training of next-generation research leaders. The winners receive funding of up to £1500 to support their attendance and travel to high impact international conferences relevant to their projects.

Chair of the judging panel, Dr. Andrew Williams, commented: "If anything, the quality of the applications in the second year of this initiative was even higher than in 2014 and the increased number gave the judges an even bigger headache. My sincere congratulations and thanks go to all the applicants."

Information about applications for the 2016 BMCS Travel Prizes will be available later in the year, check www.rsc.org/bmcs for further information.

Benevolent Fund Grants Committee vacancies

This summer we will have new vacancies on our Benevolent Fund Grants Committee, which assess applications for financial support and sets the strategy for the fund. If you are interested in finding out more, please email benfund@rsc.org

For more information on the Benevolent Fund, see pages 8-11.



Vacancies and Elections

The closing date for receipt of nominations for vacancies on Council, Boards and Divisions is 6 March 2015. Information on the vacancies can be found at <http://rsc.li/vacancies-elections>

If nominations exceed vacancies, Mi-Voice will manage the elections, counting the electronic and paper votes and reporting the results to the RSC.

All members who have provided us with a valid email address will be invited to vote electronically. If you would like to update your email address, please contact membership@rsc.org before 20 March.

Voting papers will be posted to members who have not provided a valid email address.

Public attitudes to chemistry member survey

We told you in October that we are researching public opinion about the chemical sciences. Since then we've held focus groups throughout the UK and, at the moment, we are conducting a quantitative, face-to-face survey with 2,000 people.

As we measure public perceptions of chemistry, we also want to measure our perception of the public.

Take part in a short online survey – between 1 and 8 March 2015 – at rsc.li/pac-member-survey

Deaths

Professor Giorgio Adembri

MRSC Retired director, institute of organic chemistry, University of Siena. Died 5 May 2014, aged 89

Professor Ashok Kumar Adya

CChem MRSC Reader, University of Abertay Dundee. Died 30 December 2014, aged 62

Dr Frank Harmsworth Allen

CChem FRSC Emeritus Research Fellow, Crystallographic Data Centre. Died 10 November 2014, aged 70

Mr Geoffrey Robert Andrews

CChem FRSC Retired. Died 30 November 2014, aged 88

Dr George Brian Arrowsmith

MRSC Retired, University of Greenwich. Died 26 December 2014, aged 82

Dr Brian Devlin Baigrie

FRSC Retired. Died 15 December 2014, aged 67

Mr Kenneth Bell

MRSC Retired station chemist, CEGB. Died 27 December 2014, aged 82

Dr Roger Bolton

CChem Retired reader in organic chemistry, University of Surrey. Died 30 November 2014, aged 77

Dr Edward Guy Bradfield

CChem FRSC Retired. Died 13 December 2014, aged 89

Dr Frederick William Bultitude

CChem MRSC Retired principal scientific officer, MOD (PE) AWRE. Died 31 December 2014, aged 84

Mr David Buttimore

CChem MRSC Retired. Died 25 November 2014, aged 83

Mr Stephen Croker

CChem FRSC Technical laboratory manager, University of Bristol. Date of death not supplied

Mr Anthony Cullen

MRSC Retired sales office manager, Brad-Chem Ltd. Died 31 December 2014, aged 75

Mr Harold Owen Dickinson

CChem FRSC Retired head of research, Ilford Limited. Died 6 May 2014, aged 94

Dr Dennis Ernest Mackley

Evans FRSC Retired director, United Antistatics Ltd. Died 28 November 2014, aged 82

Dr Desmond John Eve

CChem FRSC Honorary research associate, Rhodes University. Died 28 April 2014, aged 83

Mr Robert Howard Gammon

MBE MRSC Retired. Died 26 December 2014, aged 87

Professor Frank Glockling

MRSC Retired. Died 23 December 2014, aged 91

Mr Allan David Gregory

CChem MRSC Retired product safety manager, Coalite Chemicals Division. Died 15 December 2014, aged 77

Dr Mary Catherine Ambrose

Griffin CChem FRSC Assistant registrar, University of Cambridge. Died 24 November 2014, aged 62

Professor Helfried

Hemetsberger MRSC Retired Professor, Ruhr-Universität Bochum. Died 30 November 2014, aged 77

Mr David John Hennessey

MRSC Works manager, Gower Chemicals Ltd. Died 4 December 2014, aged 64

Dr Alexander Cantlay Hutchison

CChem FRSC Retired managing director, BDH Chemicals Ltd. Died 25 December 2014, aged 98

Mr Michael Alun Jenkins

CChem MRSC Retired. Died 24 October 2014, aged 74

Mr Peter Joseph Jones

CChem FRSC Retired. Died 11 November 2014, aged 81

Mr Gerald Andrew King

MBE CChem FRSC Retired secretary professional affairs, Royal Society of Chemistry. Died 29 November 2014, aged 84

Emeritus Professor Patrick

Meares CChem FRSC Emeritus Professor, University of Aberdeen. Died 4 December 2014, aged 91

Mr Michael O'Donovan

MRSC Retired. Died 30 December 2014, aged 90

Mrs Hazel Pool

EurChem CChem MRSC Retired product formulation consultant. Died 25 December 2014, aged 61

Mr Cyril John Relf

CChem Retired. Died 15 December 2014, aged 86

Mr Iolo Francis Roberts

CChem FRSC Fellow, Keele University. Died 14 November 2014, aged 89

Mr Peter Alan Savage

CChem MRSC Retired. Died 21 December 2014, aged 92

Mr Peter Haydock Scholes

MRSC Editorial & Ind consultant. Date of death not supplied

Mr Peter John Scott

OBE CChem FRSC Retired. Died 7 December 2014, aged 79

Dr James Donald Shimmin

CChem MRSC Retired. Died 21 June 2014, aged 88

Mr Ronald Herbert Smith

CChem FRSC Retired HM district industrial air pollution inspector. Died 11 November 2014, aged 93

Dr William Arthur Swindin

CChem MRSC Retired training manager, Unilever Ltd. Died 4 October 2014, aged 91

Mr Albert William Taylor

CChem MRSC Retired. Died 19 December 2014, aged 92

Professor Dr Hans Joachim

Teuber MRSC Retired. Date of death not supplied

Dr John Henry Paul Tyman

CChem FRSC Retired honorary reader in chemistry. Died 10 December 2014, aged 91

Mr Leslie Gordon Lovett

Unstead-Joss CChem FRSC Retired. Died 13 November 2014, aged 93

Mr Glynne Williams

CChem MRSC Retired. Died 25 December 2014, aged 82

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

Becoming chartered: what's in it for me?

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