



## Member Networks Annual Report Form

*Reporting events held in 2018 and those planned for 2019*

In line with the rules for member networks and to enable us to better support our networks and their activities all member networks (Local Sections, Interest Groups and Analytical Division Regions) are asked to complete this form and return it to [networks@rsc.org](mailto:networks@rsc.org) or by post to: Networks Team, Royal Society of Chemistry, Thomas Graham House, Science Park, Milton Road, Cambridge, CB4 0WF.

### Deadlines

Deadline for receipt of Financial Accounts by RSC Finance Team: **8th February 2019**  
 Deadline for receipt of Annual Report by Networks Team: **25th February 2019**

If there is any reason that your committee will **not** be able to meet either or both of these deadlines please inform [networks@rsc.org](mailto:networks@rsc.org) as soon as possible.

This report will be uploaded to your web page to share with the members of your network. Staff will also share a digest of all member networks activities taken solely from these annual reports with appropriate staff and governance boards and committees including Division Councils with similar interests.

<b>Committee</b>	Secondary and Further Education Group
<b>Completed by</b>	Peter Calder
<b>Date</b>	Monday, 21 January 2019

Please list below the dates of all of your planned committee meetings and, if held, AGM.

### Annual General Meeting (if being held)

<b>Date</b>	Click or tap to enter a date.
<b>Venue</b>	Click or tap here to enter text.

### Proposed Committee Meetings Dates

Date	Venue	
30 Jan 2019	BH	
29 May 2019	BH	
2 July 2019	Bolton school	
23 Oct 2019	BH	



## 2018 Events

Please report below on activities undertaken in the past year. Please select the type of event and target audience from the drop-down menus. For example, a workshop for Early Career members can be categorised as “Training/ Workshop” for “Early Career

Members”.

The categories are as follows:

### **Event Types:**

- Award Lecture
- Education Event
- Networking Event
- Outreach Event
- Public Lecture
- Scientific Meeting (half-day, one-day or multi-day)
- Social Event
- Training/ Workshop
- Other

### **Audience:**

- Academics
- Consultants
- Early Career
- Industrialists
- Members of the public
- Postgraduates & PhD students
- Retired members
- School students
- School teachers
- Technicians & Support staff
- Undergraduates

If you wish to include more detailed information about any particularly successful events or advice to share please do so in the provided space. Please append electronic copies of any meeting reports, newsletters or relevant materials to this report.

For additional events please copy and paste the table and continue as necessary.

<b>Event Name</b>	4 <sup>th</sup> National Conference Secondary and Further Education Group
<b>Event Type</b>	Education Event
<b>Audience</b>	School teachers
<b>Start Date</b>	03 July 2018
<b>End Date</b>	03 July 2018
<b>No. Attendees</b>	50-100

**Comments**

**RSC Secondary and Further Education Group (SaFE) 4th National Chemistry Teachers and Educators Conference, “Transitions Post 16 and Moving On”**

This was hosted at Birmingham University on Tuesday 3rd July 2018. Approximately 75 delegates including speakers and the committee attended this one day SaFE educators conference, and it was good to see several representatives from the RSC attend the day.

We continued to have poster exhibits; (Educational Coordinators, SciChem, Peter Hoare -Free post-16 resources on line, Birmingham University-Chem Bam, University of Wolverhampton), over the breaks which were attended well by delegates. As ever, networking was popular and delegates took the chance to catch up, meet new colleagues and catch speakers during the breaks.

Professor Jon Preece welcomed the delegates introducing the School of Chemistry at Birmingham, he was pleased that we had come back to Birmingham for our 4th conference and wished us a valuable and enjoyable day.

As the SaFE chair, I welcomed the delegates, explained the format for the day and introduced our Key Note Speaker Professor David Read who presented “A” Level Chemistry, the role of the teacher. David is an excellent speaker who engaged the audience getting us to think about the pedagogical side of our teaching and incorporated “clickers” for audience response questions throughout his presentation.

It is important teachers have the opportunity to network through this conference and the breaks are as valuable as the presentations so after a short break we went into the presentations that would be offered in more depth for the afternoon breakout sessions.

Hilary Jefferys delivered an engaging presentation about changes to apprenticeship training and brought the new T-levels to the attention of the audience. Many of our students will not follow the academic route and it is important that teachers can appreciate the benefit of vocational education and employability skills as an alternative for the more “hands on” student. Hilary introduced this to our audience with examples of her follow up presentation later.

Daniele Gibney from the RSC is working on the framework of the new curriculum. Daniele shared the work to date with the audience presenting the way that our subject will be covered as the curriculum is developed for the future, this is being developed by her team and looks at chemistry across the board. Daniele also offered a workshop later in the day.

Niki Kaiser presented on her current work in the classroom about the role of research. This is really a different approach for the school teacher. There has been research into educational techniques in the past but the main work published to date is in the HE sector, however, Niki and her

team are inspiring the secondary sector to consider the research side of teaching which really gave teachers something to think about. Niki also offered a workshop later in the day.

§Damian Riddle was the final speaker of the morning and presented about the reflections and outcomes from the new “A” level chemistry. The “A” level has had major changes going from the modular curriculum to a linear programme, and the practical work has a major emphasis through portfolio work. It is hoped that “A” level students will be more skilled with their practical work, they will be examined on practical work in written papers as well. This presentation was built on with a workshop session later in the day.

Lunch and networking was a valuable time, apart from meeting new people and sharing ideas. Delegates got the opportunity to see the various posters exhibited and had the chance to integrate with new colleagues and meet presenters in an informal atmosphere.

#### **Afternoon Breakout Sessions:-**

Hilary Jefferys and Robert Bowles session “applying for apprenticeships, what to do and how to do it, CV and interview tips from an employer perspective” a detailed look at the new T-levels which was very interesting and revealed some of the finer changes that would be coming in for vocational qualifications. Employability was discussed in depth and the value of those all important skills that students can develop in the world of work, applications and CVs.

David Read and Stephen Barnes talked about “essential knowledge for chemistry teachers—how would you define it?” which was a very popular session where they picked a specific part of the chemistry curriculum and discussed the challenges of delivery through a very interactive session.

Daniele Gibney developed the morning session “towards an ideal chemistry curriculum” This session was one of many Daniele has been carrying out to engage the education community in forming the RSC Curriculum model. Most of the time was spent analysing the key aspects of the document and feeding back through discussion.

Bob Worley was back by popular request and delivered another engaging session on “microscale chemistry at “A” Level”, a number of small scale advanced experiments. Bob always comes up with innovative ways to carry out practical safely for many of the complicated experiments we offer.

Niki Kaiser used her session to continue with her research theme “But what does that look like on a Tuesday (period 5) Using research to inform Chemistry teaching” a very interesting session. It was discussed that we should be aware of trial and apply research, don’t just assume something work in your own class just because it worked in another, educational research seems to be personal

to the teacher. A few methods of research were trialled and shared to get delegates thinking.

Damian Riddle was discussing “reflections and outcomes from the new “A” level chemistry – specifications and assessment” where delegates considered the spread of results on the new course which generated interesting discussions with positive comments on the practical endorsement and discussions on the content and difficulty of exam questions. Possibly there will be disappearance of AS levels in the future.

Nicola Rogers(University of Warwick) and Zoe Schnepf (Birmingham University) shared Birmingham chemistry departments “Chem Bam – new online learning resources for students and teachers, engages students with current research themes in chemistry. Many teachers took the opportunity to find new electronic resources for their classes during this session.

Dr Peter Hoare was our plenary lecturer with his popular lecture colourful chemistry filled with many fun but spectacular demonstrations that teachers would be able to deliver in their own schools, see photos on our website. A nice way to round up a busy day.

#### **Closing remarks**

I announced that the next conference would be on Tuesday 2nd July 2019 at Bolton School in Manchester, watch this space for the 2019 news!

Some 2018 Conference feedback from delegates –advertising through social media helped improve awareness of the event with RSC members but we still need to do more to reach out to others.

Booking and registration were easier to use, as systems bed down and become familiar to people. We also took the opportunity to improve the links to the venue website, particularly with regard to directions. The venue was easy to get to, and the facilities good.

Following feedback from last year, we extended networking time, and this was well received. There was also increased satisfaction with the afternoon breakout sessions.

The format we have adopted is well liked, and we look forward to a similar format in Bolton next year.

<b>Event Name</b>	<b>SaFE / RSC Mid-Southern Counties LS Post-16 Teachers Conference</b>
<b>Event Type</b>	Education Event
<b>Audience</b>	School teachers
<b>Start Date</b>	27 June 2018
<b>End Date</b>	27 June 2018
<b>No. Attendees</b>	25-50
<b>Comments</b>	<p><b>Report on SaFE / RSC Mid-Southern Counties LS Post-16 Teachers Conference</b></p> <p>The 11th Annual Wessex Group Post-16 Chemistry Teachers' Conference ran on June 27th, with funding and support from both the Secondary and Further Education group and the Mid-Southern Counties Local Section of the RSC.</p> <p>Around 40 teachers from 30 schools and colleges attended, and the event kicked off with an introductory talk from Andy Brunning, Chemistry Subject Specialist at OCR (a.k.a. @compoundchem), which outlined some of the research they have been doing around the assessment of practical work. David Read then gave a talk titled 'What makes a good chemistry teacher?' which probed teachers knowledge of some aspects of current educational research as well as sharing some possible approaches to help students get their heads round the most challenging aspects of the discipline. The morning session closed with a talk from Naomi Hennah on her work using oracy as a technique to enhance learning from practical work. Teachers were broken into small groups in the afternoon, when they attend a sequence of workshops. Feedback was positive as always, and numerous delegates were heard to say "See you again next year!" as they departed.</p> <p>Prof David Read - University of Southampton</p>



### Awards and Bursaries

Please list any awards or bursaries presented by your committee in the past 12 months and indicate any that will be open for nomination/application in the next calendar year.

Please also include information about the application/nomination and selection processes.

Please ensure that **all** members of your network are notified of any awards or bursaries for general application. These notifications can be sent via e-alert through [networks@rsc.org](mailto:networks@rsc.org).

<b>Award</b>	NIL
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### **Future Activities**

When planning any activities please remember to ensure that all events are logged on our events database and ensure that all contracts are sent to our Legal Team with enough time for amendments and, where necessary, approval by the Board.

Please outline any activities already in planning for the next calendar year. Please include the type of event and the target audience.

For additional events please copy and paste the table and continue as necessary.

<b>Event Name</b>	5 <sup>th</sup> National conference Secondary and Further Education Group	
<b>Event Type</b>	Education Event	
<b>Audience</b>	School teachers	
<b>Proposed Date</b>	2 July 2019	
<b>Comments</b>	<p>A national event will be held at Bolton School in July. Guest speaker Helen Sharman OBE. Talks from outer space to Apprenticeships via the International year of the Periodic Table.          Participants – those concerned with all aspects of Education from apprentice training through to secondary and further Education.          5<sup>th</sup> annual conference          Secondary and Further Education Group          Venue – Bolton School Greater Manchester</p> <p>Provisional PROGRAMME (as of 12 Feb)</p> <p><b>All sessions up to lunch in the Art centre</b>          registration 9:00 to 10:00 <span style="float: right;">Tea coffee</span></p> <p>Introduction 10:00 - 10:15</p>	



	<p>From Bolton School Headmaster Mr Philip Britton and KT From SaFE JH</p> <p>10:15 - 10:30 Associate Prof Darren Walsh The University of Nottingham - IYPT <b>“International Year of the Periodic Table”</b></p> <p>10:30 - 10:45 Holly Carter “My journey from school to award winning apprentice at Astra Zeneca”</p> <p>10:45 - 11:00 AQA Highlights Peter Rupkus, Curriculum Support Manager, Science</p> <p>11:00 - 11:30 Break Networking opportunities <span style="float: right;">Tea Coffee</span></p> <p>11:30 - 12:45 Helen Sharman CMG OBE <b>the first British Astronaut “Out of this World” including a Question and Answer session at the end.</b></p> <p>12:45 - 14:00 - Buffet Lunch <span style="float: right;">Tea Coffee Networking opportunities</span></p> <p>AFTERNOON ACTIVITIES - In the Kroto Chemical labs (4 Chem Labs holding 30 and 1 classroom of 20)</p> <ul style="list-style-type: none"> <li>• 14:00 - 14:45 Breakout session 1 – 5 activities</li> <li>• 15:00 - 15:45 Breakout session 2 – 5 activities</li> </ul> <p><b>Activity 1:</b> Lab 1 Associate Professor Darren Walsh University of Nottingham. ABSTRACT International Year of the Periodic Table</p> <p><b>Activity 2:</b> Lab 2 Peter Rupkus, Curriculum Support Manager AQA, Science ABSTRACT AQA will provide updates on GCSE Science entries and the awarding process for the summer 2019 series. There will also be discussion of AQA GCSE Science mark schemes, with a more in-depth exploration into the application of mark schemes during the extended session. The extended session will use student exemplars to explore how marks are awarded to Chemistry questions in the contexts of AO2, Levels of response, Maths and Practical type questions</p> <p><b>Activity 3:</b> Lab 3</p>
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Dr. David Paterson. **Integrated instructions in practical work**

**ABSTRACT** - Integrated instructions are a new way to present practical instructions. They simplify instructions by integrating simple diagrams with minimal text, and clear pictograms and step ordering to help improve student independence and confidence during practical work. I will present research findings on their use in my classroom. There will be time in the session to discuss the currently available integrated-instructions.

**Activity 4. Lab 4**

(?) Space Agency – **no title yet - Caroline Molyneux YES can do 2 breakout sessions then plenary** Could Caroline to two breakout sessions then the Plenary ???

**Activity 5: Classroom**

Apprenticeships - Gatsby careers (speaker ?)\_

15:45 to 16:00 Reassemble in the Art Centre - Tea Coffee

**16:00 to 16:25** Plenary session Space Agency **no title yet - Caroline Molyneux**

**16:25 to closure at 16:45 Closing talk JH**

**Questionnaire / Date and venue of next conference / depart**

### Committee

This information will be used to update our membership database and your web page. Please ensure that any changes to the committee are sent to [networks@rsc.org](mailto:networks@rsc.org) as soon as possible.

<b>Position</b>	<b>Name</b>	<b>Dates on committee (20xx – 20xx)</b>
Chair	Dr Julie Hyde	2016-
Secretary	Peter Calder	2016-
Treasurer	Dr Peter Hoare	2016-
Ordinary Members	Julie Hatto Sam Walker Dr Keith Ryan David Jones Trevor Birt Inge Buschman Jill Morrell Dr Andy Markwick Dr David Paterson Jessica Ball	2016 – 2016 – 2016 – 2016 – 2016 – 2017 – 2017 – 2016 – 2017 – 2016 -
Chemists' Community Fund Representative (if relevant)	NIL	
Co-opted member(s) and their affiliation(s)	Dr Caroline Evans	2016-2018



## **Diversity & Inclusion**

### **Please ensure this section is completed**

Our trustees are aiming to embed diversity and inclusion in all of our activities and networks. Section 8 of our [online network handbook](#) contains more information to support our networks in achieving this and our Diversity team have [online Guides for Networks](#) that include actions and considerations for committees, and guides for inclusive communications and running inclusive events.

Please comment on how your group is showing that it has embraced Diversity and Inclusion within its practices. If you have diversity data from your events or activities, please include this information above.

### **Makeup of the Committee**

6 Female

7 male

From a wide geographical area from Newcastle under Tyne to Taunton

Career wise

2 from Universities

5 from schools

2 from industry

3 retired

Age Profile from 25+ to 70+