



Member Networks Annual Report Form
Reporting events held in 2017 and those planned for 2018

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 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: **9th February 2018**

Deadline for receipt of Annual Report by Networks Team: **26th February 2018**

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 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.

Committee	Chemical Education Research Group
Completed by	Michael Seery
Date	

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

Annual General Meeting (if being held)

Date:	
Venue:	We are not hosting an AGM in 2018

Proposed Committee Meetings Dates

Date	Venue
22/5/17	Burlington House
8/11/17	Online



2017 Events

Please append electronic copies of any meeting reports, newsletters or relevant materials to this report.

Please report below on activities undertaken in the past year. If you have more detailed information about any particularly successful events, or advice to share please use a separate sheet. For more events continue as necessary.

EVENT KEY:

- Education Event (including outreach activities for school students or the general public)
- Public Lecture
- Retired Members Event
- Scientific Conference - 1 day
- Scientific Conference - multi day
- Social Event
- Training/workshop
- Award Lecture
- Other

Event Name	Methods in Chemistry Education Research
Event Type (key)	Scientific Conference - 1 day
Comments	<p>This one day conference is being organised in response to a growing demand and interest in chemistry education research in the UK. The meeting will focus in particular on methods; the practicalities of how to do chemistry education research. Invited speakers with experience of completing and publishing discipline-based education research will give talks on particular methods, relating the methods to a theoretical framework, the research question, and discussing the practicalities of gathering data. Approaches to publication will be outlined. Each speaker will be followed by an extended structured discussion so that attendees have time to discuss further issues that arise. The meeting is being organised with the journal <i>Chemistry Education Research and Practice</i> and is also supported by the Tertiary Education Group.</p> <p>Details of the 2017 meeting are at: https://micerportal.wordpress.com/ 60 people attended, including some school teachers (A discounted price was available for school teachers).</p>

Event Name	Webinar: Prof Alison Flynn
Event Type (key)	Scientific Conference - 1 day
Comments	<p>Prof Alison Flynn (University of Ottawa) delivered an online seminar (webinar) on the topic "<i>Organic reaction mechanisms: symbolism, patterns, and explanations</i>". Over 120 people registered for the webinar, with 75 attending online on the evening of the presentation. The webinar was very well received; a feedback survey was completed by about 1/3 of those attending and it was overwhelmingly positive. Details of our webinar series are at: https://rsc.org/group-activities/serginar/</p>



Event Name	Webinar: Prof Keith Taber
Event Type (key)	Scientific Conference - 1 day
Comments	<p>Prof Keith Taber (University of Cambridge) delivered an online seminar (webinar) on the challenges of experimental approaches in educational research. Over 130 people registered for the webinar. The webinar raised some challenging questions and as with all of webinars, is logged on our YouTube channel (linked from website) so as to be a very useful resource for those conducting education research.</p> <p>Details of our webinar series are at: https://rsccegr.wordpress.com/group-activities/cegrinar/</p>

Awards and Bursaries

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

Please ensure that all members of your network are notified of any awards or bursaries for general application.

We funded 5 education research fellows thanks to the support of RSC Networks, liaising with the RSC Educational Techniques Group.

Subject to securing funding, we intend to continue with another funding call in 2018 for 2019 Fellows.

Other information/comments:

We have launched a new website, which has been a useful platform for our activities. We intend to continue to use this to engage with our membership.

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.

Event Name	Webinar Series
Comments	<p>Our webinar series continues til May 2018, with one on the last Wednesday of each month. We will review the webinars at that stage.</p> <div style="border: 1px solid black; padding: 10px; margin: 10px 0;"> <p style="text-align: center;">CERG Webinar Series Autumn - Spring 2017 - 2018</p> <p>Oct 25, 2017: Alison Flynn, University of Ottawa <i>Organic reaction mechanisms: symbolism, patterns, and explanations</i></p> <p>Dec 6, 2017: Keith Taber, University of Cambridge <i>The challenge of doing experimental studies in science education research</i></p> <p>Jan 24, 2018: Nathaniel Grove, University of North Carolina <i>What can cognitive science teach us about Lewis structures?</i></p> <p>Feb 21, 2018: Donald Wink, University of Illinois <i>The role and process of case studies: How frameworks support rich descriptions of chemistry education</i></p> <p>Mar 21, 2018: Nicole Graulich, University of Giessen <i>Capturing students mechanistic reasoning – approaches and challenges in organic chemistry</i></p> <p>Apr 25, 2018: Ginger Shultz, University of Michigan <i>Writing-to-learn science: Research and practice informed by sociocultural theory</i></p> <p>May 23, 2018: Vincente Talanquer, University of Arizona <i>Controlling Intuition</i></p> <hr style="width: 50%; margin: 0 auto;"/> <div style="display: flex; justify-content: space-between; align-items: center;">  <div style="text-align: right;"> <p>Webinars are open to all Registration and details on CERG website: rsc.org/wordpress.com Queries: michael.seery@ed.ac.uk</p> </div> </div> </div>

Event Name	ASE
Comments	We have returned to ASE in 2018, after an interregnum, with our Chair Jane Essex giving a presentation.

Event Name	MICER
Comments	We will again support MICER18, being held at Burlington House. Support involves funding the travel expenses of some speakers.



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 as soon as possible.

Position	Name	Dates on committee (20xx – 20xx)
Chair	Jane Essex	2018 - present
Secretary	Michael Seery	2017 - present
Treasurer	Saima Salehjee	2018 - present
Ordinary Members	Raj Randev Sarah Masters Gan Shermer Simon Rees Suzanne Fergus	2015 – present 2015 – present 2015 – present 2015 – present 2017 – present
Chemists' Community Fund Representative (if relevant)		
Co-opted members and their affiliation		

Diversity & Inclusion

Our trustees are aiming to embed diversity and inclusion in all of our activities and networks. Our [online network handbook](#) contains more information to support our networks in achieving this.

Please comment on how your group is showing that it has embraced Diversity and Inclusion within its practices.

The committee has a good balance of female:male members. We intend that all but one of our committee meetings in 2018 will be held online to facilitate those who cannot travel. Our activities such as webinars have enabled members to engage with our events without the need to travel, which may be restricted for a variety of personal reasons. Both our invited speakers and applicants funded show a good distribution of gender, age, and location.



Appendix
Flyers for 2017 Events

The CERG Webinar Series #CERGINar



Alison Flynn

3M National Teaching Fellow
Associate Professor & Chair in University Teaching
University of Ottawa



***Organic reaction mechanisms:
symbolism, patterns, and explanations***



Chemical Education Research Group

Webinar is open to all
Log in details will be posted on CERG website: rscceg.wordpress.com

Queries: michael.seery@ed.ac.uk

The CERG Webinar Series #CERGINar



Keith S Taber

Professor of Science Education
University of Cambridge



***The challenge of doing experimental
studies in science education research***



Webinar is open to all
Registration and details on CERG website: rscceg.wordpress.com

Queries: michael.seery@ed.ac.uk



2018 Education Research Fellowship Scheme

In a joint initiative with our sister interest group, the **Educational Techniques Group**, we have secured funding from the RSC to support classroom based education research. Support comes in the form of a financial stipend, a mentor, and a critical friend, with the purpose of building a community of practice for those pursuing education research in their classroom.

Congratulations to our 2018 Awardees:

Robert Campbell *Evaluating 'flipped learning' approaches to GCSE practical work*

Joanna Haywood *Evaluation of the use of British Sign Language to support the learning of Chemistry*

Naomi Hennah *Using oracy to reduce cognitive load in the laboratory*

Susan Jones *Identifying and disseminating best practice with regards to teaching Chemistry through the medium of Welsh and bilingually*

David Paterson *Evaluation of an 'integrated diagram' format for practical work*



ROYAL SOCIETY
OF CHEMISTRY

CHEMICAL EDUCATION RESEARCH GROUP
rscceg.wordpress.com

CERG Committee Members acting as mentors and critical friends include:

Jane Essex, Suzanne Fergus, Sarah Masters, Rajan Randev, Simon Rees, Michael Seery, Gan Shermer.

We will be receiving updates about these projects over the course of 2018. Keep an eye on our website for details: rscceg.wordpress.com



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Annual Report 2017

Promoting and disseminating research at all levels of chemistry education

THE COMMITTEE

Jane Essex (Chair)
Saima Salehjee (Treasurer)
Michael Seery (Secretary)
Suzanne Fergus
Sarah Masters
Raj Randev
Simon Rees
Gan Shermer



Organised

2

Committee Meetings
May (London)
Nov (Online)

& thank you to Alan Goodwin & Sarah Hayes

NEW WEBSITE

SINCE
SEPT
LAUNCH

1,824
VISITORS FROM

50
COUNTRIES WITH

3,448
VIEWS LOGGED

CERG SUPPORTED EVENT

Methods in Chemistry Education Research 2017
Burlington House, London



60
Participants

Speakers included
RSC HE Award Winner
RSC Education Award Winners

EDUCATION RESEARCH SUPPORT

5 Education
Research
Fellows



awarded grants to support classroom based research projects mentored by CERG Committee establishing a Community of Practice.



Funding from RSC Networks in collaboration with RSC Educational Techniques Group.

LAUNCH OF CERG WEBINAR SERIES

October: Alison Flynn | Organic Mechanisms
December: Keith Taber | Experimental Studies in CER



261 from **12**
Registrants Countries

Get involved: rscceg.wordpress.com