Events Guide 2018-2019

www.reading.ac.uk/chemistry/outreach
## Chemistry Outreach Events 2018 - 2019

### AToM Day

**Y12/13**

*Wednesday 12th September 2018 (TBC), Whiteknights Campus.*

Alternatives to Medicine Day: A day of talks and activities involving Chemistry, Pharmacy and Food Science.

For bookings and further information contact Chris Stylianou: Tel. 0118 378 4194 or outreach@reading.ac.uk

### Teachers’ Centre Annual Meeting

**Y12/13**

*Teachers*

**Thursday 27th September 2018, 4.30 for 5.00pm start, finished by 6.30pm, Department of Chemistry, room G50**

Our annual Chemistry Teachers’ Centre meeting is an opportunity to network over refreshments, pick up free mini periodic tables and receive a giant periodic table poster. This year the focus of our discussion will be technology enhanced learning. Come along to have a go or to discuss your previous experiences.

To register, email chem-outreach@reading.ac.uk

### University Open Days

**Y12/13**

*Saturday 6th and 13th October 2018, Friday 21st and Saturday 22nd June 2019.*

For further information contact the Student Recruitment and Schools Liaison Team at Tel. 0118 378 7589, [http://www.reading.ac.uk/life/life-opendays.aspx](http://www.reading.ac.uk/life/life-opendays.aspx) or opendays@reading.ac.uk

### Spectroscopy Workshops

**Y12/13**

*Wednesday 23rd January, 13th March and 24th April 2019, 1.00 – 3.30 pm, Department of Chemistry.*

A fantastic opportunity for Year 12/13 students to visit the spectroscopy facilities at the University. After a short introductory talk, students will be shown round our Chemical Analysis Facility, which includes NMR, IR and Mass Spectrometers. This will be followed by a problem-solving session, in which students are given a chemical problem and the relevant IR, Mass Spec. and NMR data to enable them to identify a number of compounds in a reaction series.

There is a deposit (refundable on attendance) payable for this event: £50 for groups of students (maximum of 15 per school).

For bookings and further information, contact outreach@reading.ac.uk
## Heroines of Science

**Y11/12**

Wednesday 6th March 2019, 12.00 – 4:15 pm, Department of Chemistry.

Who is your heroine of science? To coincide with International Women's Day, the University of Reading invites you to join us for an exciting event celebrating the work of female scientists. This event is aimed at Y11 and Y12 students and is kicked off with an inspiring guest lecturer delving into an area of chemistry research. Students are then encouraged to contribute to one of the two following competitions:

- Each school is invited to submit a team of 4 students to give an oral presentation about their unsung heroine of science.
- Additional students (individually or in pairs) are invited to communicate their research via a poster board display.

Teams are judged via an academic panel with prizes for the best presentation. Priority will be given to students who are contributing to the presentations or display; however non-presenting students are also welcome.

There is a deposit (refundable on attendance) payable for this event: £50 per school. For more information or to book a place, email chem-outreach@reading.ac.uk

## Salters’ Festival of Science

**Y7/8**

Wednesday 8th May 2019, 9:30 am – 3:00 pm, Department of Chemistry.

Problem solving in the laboratory for teams of four Year 7/8 students. Bookings to be made through the Salters’ Institute website. [www.salters.co.uk/festivals/](http://www.salters.co.uk/festivals/)

For further information, contact institute@salters.co.uk

## Spectroscopy Masterclass

**Y12**

Wednesday 26th June (TBC) 2019, 9.30am – 3.30pm, Department of Chemistry.

The Spectroscopy Masterclass starts with short talks on spectroscopic and problem-solving techniques followed by an interactive workshop session. Students have the opportunity to visit the Chemical Analysis Facility and experience mass spectrometry, IR and NMR spectroscopy. After lunch, there will be a talk on chemistry-based university courses and an opportunity to learn about current research in the department.

The Masterclass is specifically for students who are interested in chemistry or a related science as a degree choice. Schools can apply to send up to 10 students, with or without a teacher, or students can apply individually. There is a deposit (refundable on attendance) of £50 per school group. No deposit is required from individual students.

For booking and further information, contact outreach@reading.ac.uk
Spectroscopy in a Suitcase Workshops

**Y12/13**

Spectroscopy in a Suitcase gives Year 12/13 students the opportunity to learn about spectroscopy through hands-on experience of using an Infrared spectrometer. As well as covering the principles of IR and MS techniques, the activities use real-life examples to demonstrate their applications. Career opportunities available with chemistry qualifications are discussed. University students/staff deliver the workshops at school/college (typically 1-1.5 hrs). The equipment may also be available on a short-term loan basis.

For more information go to [http://rsc.li/spec](http://rsc.li/spec)
To request a visit or loan, please fill the booking form at [http://rsc.li/book-sias](http://rsc.li/book-sias)
If you have any questions, please email chem-outreach@reading.ac.uk

**Natural Products Masterclass**

**Y9/10**

Dates dependent on interest, 10:00 – 3:00, Department of Chemistry

Students will extract caffeine from teabags in a rewarding experiment that gives them the opportunity to use a range of practical and analytical techniques not normally employed in school laboratories and learn about the importance of natural products in their everyday lives.

Suitable for enthusiastic or gifted and talented students. To register your interest and find out more information, email chem-outreach@reading.ac.uk

**Chemistry Lectures for Schools**

**Y11-13**

We offer a number of lectures suitable for students in Years 11, 12 and 13 which expand on GCSE and A level chemistry topics. Each presentation lasts for 30-50 mins and will be delivered at school/college. There will be the opportunity to ask questions, both about the talk content and about studying chemistry at university.

A wide range of topics are presented. Talk titles include:

- Our Light Materials,
- Zeolites Really Rock!
- Spectroscopy: Exploration of Space, Studies of the Past and the Fight Against Crime,
- Chemistry for our Future: Clean and Sustainable Energy,
- Liquids, Crystals, Colours and Light,
- Materials from Micelles,
- Fuelling the Car of the Future,
- Sparkling Cyanides!
- Why Chemistry at University?

For further information see [www.reading.ac.uk/chemistry/outreach](http://www.reading.ac.uk/chemistry/outreach)
For booking, contact chem-outreach@reading.ac.uk