



# The Outreach Team



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## Activities

### Practical Chemistry Laboratory Activities for KS3, KS4 & Post-16

#### Workshops

- Polymer Chemistry
- Perfume Chemistry
- Alternative Fuels
- Drug synthesis and action
- Climate Change
- Spectroscopy
- Forensic (Analytical) Chemistry
- Structure & Bonding

#### Conferences

- Enrichment—latest research in chemistry disseminated in an appropriate form for the age of the audience
- Revision – GCSE and A level

#### Residential and Non-residential Extended Chemistry Courses

Week-long and two-day courses are held which involve practicals, lectures, debates, industrial visits and cultural activities which lead to nationally recognised certification. These courses offer unique opportunities to interact with young research chemists and to carry out practicals that cannot be done in most schools.

#### Schools Laboratory Programme

Extended practicals (in analysis, synthesis and extraction chemistry) are now available on Wednesdays throughout the year.

Bespoke practicals and assessed practical work for A-Levels can also be accommodated.

[www.chemlabs.bristol.ac.uk/outreach](http://www.chemlabs.bristol.ac.uk/outreach)

# Chemistry Outreach



## Opportunities for KS3, KS4 & Post-16 Students

Bristol ChemLabS has already developed an impressive reputation for its work in promoting chemistry throughout the community.

Our ever-expanding programme of activities includes lectures, workshops, demonstrations and summer schools for school students of all ages, as well as continuing professional development courses for teachers and industrialists.

We have established a growing network of partner school and college contacts (CHeMneT) that now extends far beyond the South West of England and are collaborating with other institutions and professional bodies both nationally and internationally to maximise the impact of our activities.



The events are coordinated by the Bristol ChemLabS School Teacher Fellow Tim Harrison and the Outreach Director Dudley Shallcross and are supported by staff, postgraduate students and undergraduate students from across the School of Chemistry. Tim was a secondary school Chemistry teacher for 23 years who is now working full-time on developing and delivering high quality outreach events. Dudley is a UK National Teacher Fellow and has received awards from the RSC and the SCI for Science Education.

## Bristol ChemLabS Chemistry Outreach

In 2005 both Dudley and Tim were presented with Chemistry Education Awards from the Royal Society of Chemistry by the UK Prime Minister the Right Honourable Tony Blair.



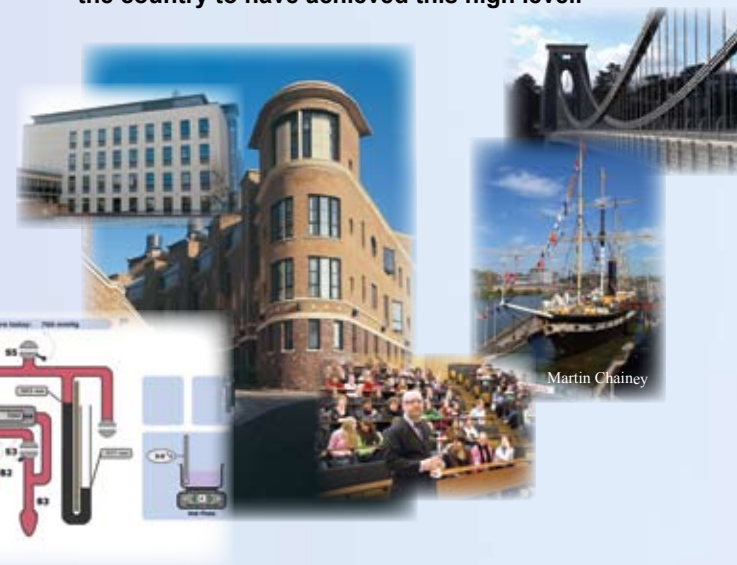
Outreach activities will use Bristol ChemLabS' state-of-the-art teaching laboratories, equipped to the highest international standards, which opened in February 2007.

The laboratories have space for 200 students at a time, with ample fume cupboard provisions and computer work stations at each bench. Considerable investment in up-to-date instrumentation and equipment will ensure that students will have the best practical experience anywhere.

Bristol ChemLabS is the UK's only Centre for Excellence in Teaching and Learning (CETL) that is devoted solely to Chemistry. The creation of the Centre for Excellence by the UK Government is intended to reward the already excellent teaching within the School of Chemistry at the University of Bristol, allowing it to increase its impact across the wider teaching and learning community.

Bristol ChemLabS will set a new standard for the teaching of practical chemistry. Our aim is to revolutionise the way students of all ages and all levels of experience study practical work, giving them access to the best laboratory facilities and educational resources available anywhere.

**The School of Chemistry has also received the top rating (5 star) for research and is one of just six in the country to have achieved this high level.**



Martin Chainey