



## Sustainable Laboratory Chemistry - New Challenges and Effective Responses University of York, 14 June 2010

In addition to traditional requirements such as safety, effective learning and research, and good working conditions, today's chemical laboratories must also respond to regulatory, stakeholder and other demands to minimise environmental impacts and otherwise contribute to sustainable development. This free workshop highlights existing examples of, and provides an opportunity to discuss, best practice responses to this challenge by chemists in university and other laboratories. The topics covered include:

- Best means of introducing sustainability topics into the chemistry curriculum
- Key sustainability knowledge for chemists
- Opportunities to minimise chemical consumption and costs, and to increase safety through micro-scale experimentation and chemical management
- Minimising the environmental impacts of fume cupboards and equipment
- US experience from the University of California LabRATS (Laboratory Research And Technical Staff) programme, which has had major success through auditing, awareness and training programmes, with a high level of student intern involvement.

The day will be of interest to a variety of audiences from universities, colleges and schools, including lecturers and teachers, laboratory managers and technicians, and environmental and health and safety champions, as well as external suppliers.

The event is organised by the **S-Lab** (Safe, Successful, Sustainable Laboratories) initiative of the Higher Education Environmental Performance Improvement project, in collaboration with the **Green Chemistry Network**, the Higher Education Academy **Physical Sciences Subject Centre**, the University of Bradford **Ecoversity** project (funded by HEFCE as a flagship initiative to create a sustainable student experience) and the US **Labs21** initiative.

### **Associated links and sources for further exploration:**

Ecoversity [www.brad.ac.uk/ecoversity](http://www.brad.ac.uk/ecoversity) /Green Chemistry Network  
[www.greenchemistrynetwork.org](http://www.greenchemistrynetwork.org) /HEA Physical Sciences Subject Centre  
[www.heacademy.ac.uk/physsci](http://www.heacademy.ac.uk/physsci) /HEEPI/S-Lab [www.goodcampus.org](http://www.goodcampus.org) /Labs21  
[www.labs21.org.uk](http://www.labs21.org.uk)



# Sustainable Laboratory Chemistry

## Room tbc, University of York, 14 June 2010

### Programme

- 09.45 – 10.15 Registration & Coffee
- 10.15 – 10.30 Introduction – What is a Sustainable Chemistry Laboratory?  
*Peter James, Professor of Environmental Management, University of Bradford and Director, S-Lab*
- 10.30 – 11.10 Green Chemistry and the Sustainable Laboratory  
*James Clark, Professor of Green Chemistry, University of York, and Director, Green Chemistry Network*
- 11.20 – 12.00 Sustainable Chemistry Learning in Schools  
*Professor Sir John Holman, Director, National Science Learning Centre*
- 12.05 – 12.45 Micro-Scale Chemistry – Current Use and Future Opportunities  
*Colin Gibson, Senior Lecturer in Organic Chemistry, University of Strathclyde*
- 12.45 – 13.35 Lunch
- 13.35 – 14.15 Greening the Chemistry Curriculum – Case Study  
*Dr. Peter Hopkinson, Dr. Tasnim Munshi and Amy Ridley of the University of Bradford's Ecoversity Project*
- 14.15 – 14.55 Bottom Up Initiatives to Improve Lab Environmental Performance and Enhance Learning – the LabRATS Experience  
*Dr. Amorette Getty, Institute of Energy Efficiency, University of California, Santa Barbara*

The main event will end around 1500. However, small group discussion/experience sharing will continue from 1510-1600 for those wishing to stay. (NB Many attendees at S-Lab events find these small group activities to be a highlight of the day).

Please book at [www.goodcampus.org](http://www.goodcampus.org) Events section. There is no charge for event. However, cancellations after 5<sup>th</sup> June, and no shows that are not due to illness, could be depriving others of a place and so will be charged £100.

The venue is in central York – see <http://www.york.ac.uk/np/maps/pdf/km-map.pdf>.

