

International Summer School on Global Greenhouse Gases

16-23 August 2015
Edinburgh, United Kingdom

This intensive 8-day course is aimed at advanced PhD students and post-doctoral researchers in the natural sciences who want to develop a solid understanding of the role of key greenhouse gases (GHGs) in the Earth system and the processes that govern their dynamics in the atmosphere, ocean and biosphere.

The residential course for 20-25 participants will be based at the University of Edinburgh and comprises a combination of lectures, practical exercise, seminars and field/lab work. Organised by international experts in oceanography, atmospheric science and terrestrial biogeochemistry, the course will provide:

- **theoretical background** on the role of greenhouse gases in the Earth System
- **practical training** in how to measure and model fluxes
- **interaction with leading experts** in the field
- the opportunity to **network with other early-career scientists**

Topics will include:

- Greenhouse gases (GHGs) in ocean, atmosphere and biosphere, with a focus on carbon dioxide (CO₂), methane (CH₄) and nitrous oxide (N₂O)
- Instrumentation for measuring GHGs: theory and practice
- Process modelling of GHG fluxes
- Satellite observations of GHGs
- Measuring and up-scaling fluxes in the terrestrial biosphere



Accommodation will be in central Edinburgh. The summer school co-incides with the renowned Edinburgh Festival, and there will be opportunities for social interaction around the festivities.

Staff will be drawn from the UK Greenhouse Gas Emissions and Feedback Programme, including researchers from the Universities of Edinburgh, Exeter, Bristol, York, Leicester, Cambridge, Manchester, East Anglia and dedicated UK research centres including the Centre of Ecology and Hydrology (CEH), Plymouth Marine Laboratory (PML), National Oceanography Centre (NOC) and others.

How to apply

To apply, please fill in the online application form at www.greenhouse-gases.org.uk/summerschool2015

The application **deadline is 2 March 2015**. Places are limited to 25. We will inform you by the end of March whether you have been accepted.

All participants will be expected to present a poster on their research during the summer school.

There is no course fee, accommodation at Edinburgh University's student residence, and meals are free. Participants are expected to cover their own travel costs. Additional travel support may become available for a limited number of students from European countries.

Contact

If you have any questions please contact Stephan Matthiesen (University of Edinburgh, Stephan.Matthiesen@ed.ac.uk).

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