

# International Summer School on Global Greenhouse Gases

2-12 August 2016

National Oceanography Centre (NOC)  
Southampton, United Kingdom

This intensive 10-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 National Oceanography Centre (NOC) in Southampton 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 (CO<sub>2</sub>), methane (CH<sub>4</sub>) and nitrous oxide (N<sub>2</sub>O)
- 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



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, and dedicated UK research centres including Forest Research, Plymouth Marine Laboratory (PML), National Oceanography Centre (NOC) and others.

## Course fee

There is a **course fee of £200 per student**. This will contribute approximately 20% towards the real cost of accommodation, lunches and field trips, which will be provided by the summer school. Accommodation is in single standard (non-ensuite) rooms. Students are expected to fund their own travel to and from the summer school. In exceptional cases, we can exempt some students from the course fee, so that your participation is free, for example if your grant and your institute do not cover the fee.

## How to apply

To apply, please fill in the online application form at [www.greenhouse-gases.org.uk/summerschool2016](http://www.greenhouse-gases.org.uk/summerschool2016)  
The application **deadline is 25 April 2016**. Places are limited to 25. We will inform you by mid May whether you have been accepted.

## Contact

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

[www.greenhouse-gases.org.uk/summerschool2016](http://www.greenhouse-gases.org.uk/summerschool2016)

