



# Environmental Field Techniques

# NERC

SCIENCE OF THE ENVIRONMENT

## Scaling Molecular Physiology to Leaf and Crop Canopy Lisbon, Portugal 12th - 16th September 2016

# UK Plant Phenomics Network

This PEPG (special interest group of SEB & BES) workshop will provide a unique opportunity for MSc, PhD students and early career researchers to gain training in plant ecophysiology techniques, including:

- leaf-level processes including **photosynthetic gas exchange, chlorophyll fluorescence, water status and hydraulic conductance**
- canopy processes including **stable isotopes, monitoring canopy development/Leaf Area Index, IR thermography and soil water/nutrient status**
- theory and practice of long-term monitoring under field conditions, incl. **micrometeorology, eddy covariance, and remote sensing methodologies**

This comprehensive five day workshop provides an unrivalled opportunity for manufacturers to introduce their latest equipment and provide hands-on training. The successful format includes daily lectures introducing theory of techniques, demonstration of the equipment, followed by hands on sessions for participants to collect data. Evening sessions allow group discussions of techniques and data analysis, -modelling, as well as a formal research poster session.

### Internationally renowned scientists will explain and demonstrate key techniques:

**Prof. Susanne von Caemmerer** (ANU); **Prof. Steve Long** FRS (Illinois, USA); **Dr. Bernard Genty** (CNRS, France); **Dr Xinguang Zhu** (PICB, China); **Prof. Howard Griffiths** (Cambridge, UK); **Dr. Andrew Leakey** (Illinois, USA); **Dr. Wanne Kromdijk** (Illinois, USA); **Prof. Lawren Sack** (UCLA, USA); **Prof. Kathy Steppe** (Gent University, Belgium); **Dr. Colin Campbell** (Decagon Devices, USA); **Dr. Katie Field** (Leeds, UK); **Prof. Carl Bernacchi** (Illinois, USA); **Dr. Gary Lanigan** (Teagasc, Ireland); **Dr. Saoirse Tracy** (UCD, Ireland); **Dr. Craig Yendrek** (Illinois, USA); **Dr. Olga Grant** (UCD, Dublin); **Dr. Steven Garrity** (Decagon Devices, USA); **Dr. Jochem Evers** (Wageningen University); **Dr. Erik Murchie** (Nottingham, UK); **Dr. Tracy Lawson** (Essex, UK); **Dr. Steven Driever** (Wageningen University); **Dr. Richard Webster** (Aberystwyth, UK); **Prof. Colin Osborne** (Sheffield, UK); **Dr. Matthew Davey** (Cambridge, UK).

The workshop (limited places) will run for five days at the Quinta da São Pedro, Lisbon in September 2016 <http://www.quintasaopedro.pt/> For information on registration, costs, travel, accommodation, programme visit [http://www.essex.ac.uk/bs/conferences/pepg\\_workshop.aspx](http://www.essex.ac.uk/bs/conferences/pepg_workshop.aspx) as soon as possible!

### For further information contact:

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