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# MSI Special Seminar

# Challenges for management of freshwater ecosystems in Europe


## Dr. Martin Kernan, University College London


11:00 am –12 noon, Wednesday, 7th July 2010
Monash Sustainability Institute, Building 74, Clayton

All welcome. No RSVPs necessary.


## Abstract

This presentation is concerned with the science required to understand and manage the ecological consequences for freshwater ecosystems of the interactions between key drivers of aquatic ecosystem change (land-use, nutrients, acid deposition and toxic substances) and climate change.

Currently, climate change is an additional stressor adding to these impacts. In future, however, the effects of climate change are expected to become more prominent. This has implications for managers and those tasked with implementing environmental legislation.

Here I summarise research in Europe (in particular results from the EU Euro-limpacs Integrated Project to Evaluate the Impacts of Global Change on European Freshwater Ecosystems) which focuses on improving our understanding of how these interactions can change the structure and functioning of freshwater ecosystem.

In addition I will introduce the EU Project REFRESH, which considers the adaptive measures that need to be taken to restore freshwater ecosystems or to sustain priority in the face of future climate change. REFRESH (Adaptive strategies to Mitigate the Impacts of Climate Change on European Freshwater Ecosystems) seeks to generate the scientific understanding that enables such measures to be implemented successfully.


## About the speaker

**Martin Kernan** is an environmental scientist at the Environmental Change Research Centre, University College London. His current research interests include the effects of atmospheric pollution and climate change on freshwater ecosystems. He was scientific co-ordinator on the European Union Framework 6 Project, Euro-limpacs, and currently co-ordinates the Framework 7 Project REFRESH.

**Info & contacts: www.monash.edu/research/sustainability-institute/events/**