Handling uncertainty in weather and climate prediction, with application to health, agronomy, hydrology, energy and economics

Event

Starts:

October 04 2012 09:00

Ends:

October 05 2012 17:00

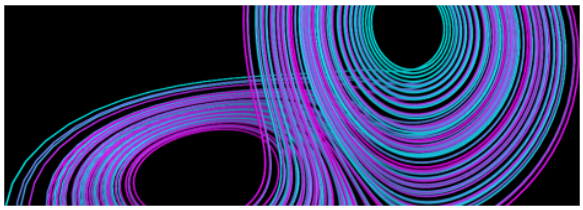
Location

Kavli Royal Society Centre, Chicheley Hall, Newport Pagnell, Buckinghamshire, MK16 9JJ

Venue information

Overview

Theo Murphy international scientific meeting organised by Professor Tim Palmer FRS



Event details

This meeting follows on from the 2010 Anniversary Discussion Meeting on “Handling Uncertainty in Science” but with a focus on weather and climate prediction and

downstream applications. How is uncertainty represented in weather and climate prediction? How reliable are representations of uncertainty? How can decision makers in weather and climate sensitive sectors make useful decisions in the light of uncertain input? Are current ensemble weather and climate prediction systems useful for decision making across a variety of application sectors? How should probability forecasts be presented to the public?

Enquiries: Contact the events team

Event organisers

Select an organiser for more information

Professor Tim Palmer CBE FRS, University of Oxford, UK

Schedule of talks

Speakers

19 talks

Hide detail

An '80% chance of confusion', or can the public make use of probabilistic weather forecasts

Liz Stephens, University of Bristol

Audio recording (mp3)

Show speakers

Tracey Brown, Sense about Science

Audio recording (mp3)

Show speakers

Climate adaptation: learning to live with uncertainty

Professor Suraje Dessai, University of Leeds

Audio recording (mp3)

Show speakers

Climate and food: adapting in the face of uncertainty

Professor Andy Challinor, University of Leeds

Audio recording (mp3)

Show speakers

Climate change and public health

Dr Jeremy Hess, Emory University Department of Emergency Medicine

Audio recording (mp3)

Show speakers

Climate forecasting and health

Dr Andy Morse, University of Liverpool

Audio recording (mp3)

Show speakers

Climate models: fit for what purpose?

Professor Judith Curry, Georgia Tech, Atlanta

Audio recording (mp3)

Show speakers

Climate science and the humanitarian sector

Professor Dominic Kniveton, University of Sussex

Audio recording (mp3)

Show speakers

Ensemble prediction of weather and its impact

Mr Ken Mylne, Met Office

Audio recording (mp3)

Show speakers

Probabilistic predictions without probabilities

Professor Leonard Smith, London School of Economics

Audio recording (mp3)

Show speakers

Sense about science: making sense of uncertainty

Professor Paul Hardaker, FInstP, FRMetS, CMet

Audio recording (mp3)

Show speakers

Sustainability through hazard anticipation and mitigation

Professor Peter J Webster, Georgia Institute of Technology, Atlanta

Audio recording (mp3)

Show speakers

The value of probabilistic weather forecasts to the commodity markets

Dr Warwick Norton, PCE Investors

Show speakers

Uncertainty and understanding: Some approaches for making climate science useful and enabling direct dialogue between the providers and users of climate science

Emma Visman, Humanitarian Futures Programme and NERC Knowledge Exchange Fellow, Kings College London

Audio recording (mp3)

Show speakers

Using or refusing uncertainty information in energy applications

Dr Renate Hagedorn, Deutscher Wetterdienst

Audio recording (mp3)

Show speakers

Weather forecasting at the BBC

Liz Howell, Head of BBC Weather

Show speakers

Weather forecasts and macroeconomic forecasts: a comparative study

Dr Reason Machete, University of Reading

Audio recording (mp3)

Show speakers

Weathering the drought: Building resilience in the face of uncertainty

Dr Rosalind Cornforth, NCAS-Climate, University of Reading

Audio recording (mp3)

Show speakers

Weather prediction and hydrology

Dr Florian Pappenberger, ECMWF

Audio recording (mp3)

Show speakers