

CLIMATE CHANGE SEMINAR - INVITATION

FOR INSURANCE PROFESSIONALS

This seminar brings together, for the first time, four of the world's leading climate change experts, who will shed light on:

- the mystery of what climate change really is
- how it can now be measured (using a new technique just released by one of the speakers)
- the effects that insurance underwriters need to think about for the future
- an update on climate change litigation in the USA

Speakers

- Professor John Harries
Space and Atmospheric Physics Department (SPAT)
Imperial College, London, UK
- Dr. Richard Allan
Environmental Systems Science Centre (ESSC)
University of Reading, UK
- Dr. Grant Matthews
Calibration Scientist
ITT Space Systems Division, USA (Formerly at NASA's Langley Research Centre)
- Walter Lipsman, Esq.
Environmental Attorney
Morris Polich & Purdy LLP, Los Angeles, USA

Programme

- 4.00 pm **Introduction**
- Walter Lipsman, Esq.
- 4.10 pm **How do we predict and prepare?**
Natural versus man-made climate change caused by solar and anthropogenic forcings. Why we need to be able to predict the future, not only to protect the human race, but also to prepare economically/agriculturally for forthcoming changes to the Earth's climate. How to predict and prepare? by using climate models.
- Professor John Harries
- 4.30 pm **How do climate models work and how can we use them to predict the future?**
Using examples of estimated crop yield changes, increased extreme weather events and sea-level rise effects on economic & socio-economic factors, this section of the seminar will focus on how climate models work and how we can use them to predict the future. How good are the models right now? How do they agree on predictions for the future? How can we gain confidence in a model?
- Dr. Richard Allan
- 4.50 pm **New method of measurement - climate observations**
What is calibration? - A cautionary tale of CERES contaminant spectral darkening, is it the climate changing or your instrument? New solutions to this problem - ITT is implementing the use of celestial bodies to standardise climate records and developing new technologies for CLARREO. These new technologies give experts great confidence in their use to predict how the planet will change, and what we need to do to help the business community adapt to new environmental/economical challenges.
- Dr. Grant Matthews
- 5.10 pm **Litigation in the USA - what's happening - update**
A presentation covering global warming issues, emerging case law and implications for insurance in the United States.
- Walter Lipsman, Esq.
- 5.30 pm **Business card draw** (for two HD Flip Video camcorders)
- 5.35 pm **Wine, nibbles and cheese reception**
- 6.30 pm **Finish**

DATE:

29th September, 2009

TIME:

4.00 pm - 5.30 pm

LOCATION:

Lloyd's of London, Old Library
1 Lime Street
London EC3M 7HA

RSVP:

Seats are limited - please contact George Brandon
by 24th September to reserve your place:

, 001.213.417.5124



Biographies

Professor John Harries

John Harries' career began in 1967 with a PhD in far IR spectroscopy of the atmosphere at King's, London, while working as an external student at the NPL. He built up a new group in environmental measurement, at NPL, working on the far IR spectroscopic properties of the Earth's atmosphere, especially the stratosphere. He moved to Appleton Laboratory (in process of merging with Rutherford Laboratory) in 1980 to work with Professor (later Sir) John Houghton in developing a new Division of Geophysics and Radio, concentrating on novel Earth Observation techniques. After the merger of Appleton with Rutherford Laboratory in 1981, he was appointed, in 1986, as Associate Director and Head of the new Space Science Department, responsible for over 200 people and an annual budget which varied between £15M and £20M. A large number of national and international projects in atmospheric physics and astrophysics were undertaken by Space Science Department during his Directorship. He decided to continue his scientific interests in the growing area of climate studies of the Earth from space, and in 1994 he was offered the new University of London Chair of Earth Observation, to be held at Imperial College. There, a group of some 70 members, including 14 academics, has been built up. Roughly half of this group is active in Earth observation and atmospheric physics. Harries has published extensively (c. 100 papers), and spoken widely on climate physics, the Earth radiation budget, analyses of satellite observations of the Earth's radiative spectrum, detection of changes in the Earth's greenhouse forcing, development of novel satellite and airborne instruments, and interpretation of observations against model results.

During the past decade, he has served as:

- Member of NERC Council;
- Chairman of the NERC Earth Observation Science and Technology Board;
- President of the Royal Meteorological Society;
- President of the International Radiation Commission;
- Chairman of the European Space Agency Programme Board for Earth Observation;
- Member of NERC Science and Innovation Strategy Board;
- Director for Technology of the British National Space Centre;
- plus a number of other committee and board appointments.

Dr. Richard Allan

Dr. Richard Allan gained his PhD from the University of Reading Meteorology department in 1998, and has since published over 30 scientific papers in peer reviewed journals, covering climate change feedback processes, variability in clouds and radioactive energy, changes in the hydrological cycle and evaluation of weather forecast and climate prediction models. He has previously worked at the MET Office Hadley Centre for Climate Prediction with secondments to the Geophysical Fluid Dynamics Laboratory (Princeton) and NASA Langley Research Center (Virginia) but currently is based at the Environmental Systems Science Centre (ESSC) at Reading University after winning an advanced Fellowship award from the Natural Environment Research Council in 2005. He contributes to the Intergovernmental Panel on Climate Change (IPCC), provides expert reviews for scientific journals and funding agencies, is an Associate Editor for the Journal of Climate and the recipient of the American Geophysical Union Editors' citation for excellence and the NASA HJ Reid award. Current research has focused on monitoring and understanding large-scale changes in the global water cycle, including precipitation and its extremes, using satellite data and climate prediction models.

Dr. Grant Matthews

Dr. Matthews is a scientist/engineer currently working for ITT Space Systems Division in Fort Wayne, Indiana, USA. He is implementing new methodologies for detecting climate change from space with existing and newly designed satellite instruments. His PhD was awarded by Imperial College for calibration of European Space Agency climate instruments for the Geostationary Earth Radiation Budget (GERB) experiment (under Professor John Harries). He then spent five years working at NASA Langley Research Centre on the USA sister project to GERB, known as the Clouds and the Earth's Radiant Energy System (CERES). Here he developed a new technique of, for the first time, accurately measuring the effective climate of the Moon from Earth's orbit. Since Lunar climate is not subject to change, this led to a new age of in-flight calibration for climate instruments as the Moon data could be used as a standard with which to track and compensate for instrument rather than climate change. This can allow the largest uncertainties and errors in predictions for the Earth's response to anthropogenic global warming to be resolved within less than a decade.

Walter Lipsman, Esq.

Walter Lipsman's practice focuses on environmental litigation and regulation, as well as insurance coverage counseling and litigation. He has been national counsel to the environmental group of a major commercial insurer and outside litigation counsel to a national architectural and engineering firm. In his environmental practice he has represented clients in cases involving toxic torts, soil and groundwater contamination and other environmental matters dealing with state and federal Superfund liability and Proposition 65 issues. He has counselled clients in regulatory proceedings before the California Regional Water Quality Control Boards. Walter's insurance practice includes litigation and coverage advice dealing with some of the largest Superfund sites nationwide - he has litigated dozens of these cases. He has been retained by clients on hundreds of occasions to provide advice concerning claims handling practices for environmental matters and opinions about coverage.

