

DR JOHN FINNIGAN

Director,
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"Network science is applied in areas as diverse as social organisation, traffic and pedestrian flows, food web behaviour in natural and artificial environments, genetic control and cancer spread in cells, disease propagation and data security and transfer in hostile environments like war zones"

Dr John Finnigan

CSIRO Media Release, March 2005

Dr John J. Finnigan has worked for CSIRO since 1972, when he joined the CSIRO Division of Environmental Mechanics as an experimental officer. He became Head of the CSIRO Centre for Environmental Mechanics in 1991. In 2001 Dr Finnigan became the founding Director of the CSIRO Centre for Complex Systems Science.

Dr Finnigan has served on various scientific boards, task forces and advisory committees in Australia and overseas, and holds a number of international awards, research grants and patents to his name. John is also author of over one hundred academic publications. His research interests include Complex Systems Science, network theory and its applications, Earth System Dynamics and Global change, and experimental and theoretical studies of environmental turbulence.

Prior to joining the CSIRO, John worked in the UK Aerospace Industry. He obtained a BSc in Aeronautical Engineering from the University of Manchester in 1968, and a PhD in micro-meteorology from the Australian National University in 1978.

RECENT INVITED TALKS & KEYNOTE ADDRESSES

- Royal Meteorological Society Symposium on Weather and Climate - Exeter, UK, September 11-17 2005
- "Network Dynamics and Dynamics on Networks as a Paradigm for Rapid Ecosystem Change", Sir Mark Oliphant Conference on Thresholds and Pattern Dynamics - University of Western Australia, July 3-7 2005
- Dahlem workshop on 'Integrated history and Future of People on Earth' - Berlin, 12-17 June 2005
- NATO Advanced Research Institute on Turbulence in Obstructed Geometries - Kiev, Ukraine, May 2004
- 1st IGBP iLEAPS Open Science Conference - Helsinki, Finland, 2003
- 3rd IGBP Congress, Connectivities in the Earth System - Banff, Canada 2003
- 3rd INTAS workshop on "Flux and Concentration Footprints" - Juupajoki, Finland, 2003
- Ameriflux workshop on Flux measurement Techniques - Corvallis, Oregon, August, 2002
- CNR Advanced workshop on Agricultural, Forest and Micrometeorology - Bologna, Italy, 2001

SCIENTIFIC COMMITTEES MEMBERSHIP

- Chairman of the External Advisory Board of the ARC Centre of Excellence in Complex System Science (Since 2004)
- Member of the Scientific Board of the ANU Centre for Complex Systems Science (Since 2003)
- Member of the Scientific Steering Committee for the IGBP II program "Interaction between Land Ecosystems and Atmospheric Processes Study" (Since 2002)
- Co-Chair of the International Review committee of the European Union Carbo-Europe Program, Budapest, Hungary (2002)

AWARDS AND DISTINCTIONS

- 2006-Elected Fellow of the American Geophysical Union
- 2005 - Appointed Honorary Professor at the School of Geosciences, University of Edinburgh, Scotland
- 2003-2006 - NERC (UK) Research Grant. Measurements of surface-atmosphere exchange in complex topography 1999-2001 -
- NERC (UK) Research Grant. "Improved understanding of turbulent flow to interpret long-term carbon fluxes"
- 1999 - NCAR Boulder Colorado. Mesoscale and Microscale Meteorology Program/Geophysical Turbulence Program, Visiting Fellowship
- 1999 - University of Reading / UK Meteorological Officer, Visiting Research Fellow
- 1999 - University of Edinburgh, Institute of Ecology and Resource Management, Visiting Fellow
- Numerous visiting Fellowship positions and grants at NOAA, ERL, Boulder, Colo, Dept of Atmos Sci, Georgia Institute of Technology, Atlanta Ga. and NCAR, Boulder Co.