Dr Stephen Jones

Senior Lecturer in Earth Systems

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Biography

2009 - present: Senior Lecturer in Earth Systems, School of Geography, Earth & Environmental Sciences, University of Birmingham

2003 - 2009: Lecturer, Trinity College, University of Dublin

2001 - 2003: Postdoctoral Research Assistant, Bullard Laboratories, University of Cambridge, 'Spatial and temporal scales of mantle convection'

2000 - 2001: Research Assistant, CASP (Cambridge Arctic Shelf Program), 'North Atlantic tectonic reconstructions'

1996 - 2000: Ph.D., University of Cambridge, Department of Earth Sciences, 'Effect of the Iceland Plume on Cenozoic sedimentation patterns'

1993 - 1996: B.Sc., University of London, UK, Royal Holloway College, Geology

1986 - 1993: Bury Grammar School

Teaching

- Petroleum Geoscience
- Deep Earth-Climate Links

Postgraduate supervision

See Geography, Earth and Environmental Sciences School website for PhD opportunities.

Research

Research cluster / group affiliation

- Geosystems

Current / recent research

- Measuring time-dependence in mantle convection, in particular the evolution of the Icelandic convective system and the effect of background convection on sedimentation patterns at passive continental margins
- Relationships between the Paleocene/Eocene Thermal Maximum global climate change event, the North Atlantic Large Igneous Province and underlying Icelandic mantle convection system
- Ridge-Plume interaction, particularly with regard to development of the Reykjanes V-Shaped Ridges and the Iceland Plateau
- Links between the Icelandic mantle convection system, the Reykjanes V-Shaped Ridges and supply of Northern Component Water to the global ocean
- Influence of mantle convective support and horizontal plate motions on hydrocarbon system development
- Development of techniques to estimate oceanic variability and mixing from oil industry multichannel seismic data
- Thermal and chemical modeling of proto-planetary bodies during the first few millions years of solar system evolution

Publications

Recent publications

See a complete list of publications (PDF - 130KB) (/Documents/college-les/gees/staff/joness-publications.pdf)

Robinson MM, Valdes PJ, Haywood AM, Dowsett HJ, Hill DJ, **Jones SM**, Bathymetric controls on Pliocene North Atlantic and Arctic sea surface temperature and deepwater production, *Palaeogeography, Palaeoclimatology, Palaeoecology*, (in press 2011) doi: 10.1016/ j.palaeo.2011.01.004.

Jones SM, Sutton C, Hardy RJJ, Hardy D, Seismic imaging of variable water layer sound speed in Rockall Trough, NE Atlantic and implications for seismic surveying in deep water, *In*: Vining BA, Pickering SC (eds) *Petroleum Geology: From Mature Basins to New Frontiers – Proceedings of the 7th Petroleum Geology Conference* (2010) 549–558, doi: 10.1144/0070549.

Nisbet, EG, **Jones SM**, Maclennan J, Eagles G, Moed J, Warwick N, Bekki S, Braesicke P, Pyle JA, Fowler CMR, Kick-starting ancient warming, *Nature Geoscience* 2 (2009) 156–159

Shorttle O, Maclennan J, **Jones SM**, Spreading ridge geometry controls the symmetry of plume-ridge interaction, *G3 Geochemistry Geophysics Geosystems* 11 (2010) doi:10.1029/2009GC002986.

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