

## FRANCIS NIMMO

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**Date of birth:** 11 May 1971 **Nationality:** British

## EDUCATION

1993-96 PhD *Volcanism and tectonics on Venus*, Cambridge University

1990-93 BA Geological sciences (1st class honours), Cambridge University

## EMPLOYMENT

2002 - present Adjunct Assistant Professor, UCLA

2001 - present Royal Society University Research Fellow, University College London

1999 - 2001 Visitor, California Institute of Technology

1998 - 2001 Junior Research Fellowship, Magdalene College, Cambridge University

1997 - 1998 Post-doctoral research assistant, Cambridge University

## RESEARCH INTERESTS

Investigating the mechanisms responsible for planetary diversity, using a combination of observations and models. In particular, the processes of accretion, planetary thermal and chemical evolution, and the generation of magnetic fields.

## SCHOLARSHIPS/PRIZES

2001 Royal Society University Research Fellowship (nationally advertised, across all sciences; faculty-equivalent salary for up to 10 years at any UK institution)

2001 President's Award, Geological Society of London

1998-01 Junior Research Fellowship (nationally advertised, across all sciences)

1993-96 Shell PhD scholarship

## GRANT APPLICATIONS/AWARDS

*Internal structure and dynamics of Europa's ice shell inferred from*

*topography and surface observations*, PI, NASA-PGG, submitted May 03.

*Dynamics of the Martian crust and core*, PI, NASA-MFR, submitted April 03.

*Coupled core-mantle thermal evolution and the history of the geodynamo*,

PI, NSF-EAR, \$201k, Sep 2003 (3 yrs).

*Evolution and influence of the Martian hemispheric dichotomy*,

Co-I with Lenardic, NASA-PGG, \$160k, Dec 2001 (3 yrs).

*Characteristics and consequences of faulting on Ganymede and Europa*,

Collaborator with Pappalardo, NASA-PGG, \$140k, Dec 2001 (2 yrs).

*Mars internal evolution constrained by Mars Global Surveyor data*,

Co-I with Stevenson, NASA-MDAP, \$195k, Dec 2000 (3 yrs).

## **PROFESSIONAL ACTIVITIES**

- 2003- Associate Editor, *J. Geophys. Res. - Planets*
- 2003 Invited contributor, *Annual Reviews Earth Planet. Sci.*
- 2003 Convener, Europa shell thickness conference, Houston
- 2003- Editor, Cambridge Univ. Press Planetary Science series
- 2003 Keynote speaker, EGS/AGU/EUG Meeting, Nice
- 2002 NASA Mars Data Analysis Program grant review panel
- 2001- Team member, Virtual Planetary Laboratory (NASA Astrobiology Institute)

## **CLASSES TAUGHT**

- 2003 ESS9 (Origin and Evolution of the Solar System)
- 2004 ESS250 (Mars)

## **STUDENTS ADVISED**

- 2002- Jean-Pierre Williams, UCLA (joint with D. Paige)
- 2001- Louise Bishop, University College London (joint with J. Guest)
- 1998-2001 Dave Barnett, Cambridge University (joint with D. McKenzie)

## **REFEREES**

- Prof. M. Manga, Earth and Planetary Sciences, UC Berkeley, Berkeley, CA 94720-4767, USA  
manga@seismo.berkeley.edu, tel 510 643 8532, fax 510 643 9980
- Prof. R. Pappalardo, LASP, Campus Box 392, University of Colorado, Boulder CO 80309-0392,  
USA, robert.pappalardo@colorado.edu, tel 303 492 6423, fax 801 382 3986.
- Prof. D. McKenzie, Bullard Labs, Cambridge, CB3 0EZ, UK, mckenzie@madingley.org