

# Michael Richard Edward Proctor

## Curriculum Vitae

### Address:

Dept. of Applied Mathematics and Theoretical Physics  
Centre for Mathematical Sciences  
Wilberforce Road, Cambridge CB3 0WA                      Tel.    01223 337913  
  
King's College, Cambridge CB2 1ST                              Tel.    01223 331253

### Education:    (Graduate)

1973-1975            Trinity College, Cambridge  
Graduate Student (Ph.D. received July 1975)  
Thesis Supervisor: H.K.Moffatt  
  
1972-1973            MIT, Cambridge, Massachusetts  
(Kennedy Scholar)  
  
1971-1972            Trinity College, Cambridge  
Mathematical Tripos Part III (Distinction)

### Honours:

1995                    ScD, University of Cambridge  
2006                    Fellow of the Royal Society  
2007                    Fellow of the Institute of Mathematics and its Applications

### Present position:

Provost of King's College, Cambridge (since 2013)  
Professor of Astrophysical Fluid Dynamics, D.A.M.T.P., University of Cambridge (since 2000)  
Visiting Professor, University of Leeds (since 2009)

### Previous appointments:

Vice-Master, Trinity College 2006-2012  
University Reader, D.A.M.T.P. 1994-2000  
Assistant Lecturer then University Lecturer, D.A.M.T.P. 1977-1994  
College Lecturer and Director of Studies, Trinity College 1977-2013  
Tutor and Dean of College, Trinity College 1979-2006  
Instructor then Assistant Professor, M.I.T., Cambridge, MA 1975-1977  
Research Fellow, Trinity College 1974-1977

### Research:

#### *Main interests:*

Dynamo theory, Magnetoconvection, Solar magnetism, Absolute instability  
Nonlinear dynamics of p.d.e.'s and o.d.e.'s

#### *Current external collaborations:*

Prof. D.W. Hughes, Leeds – Fundamentals of dynamo theory  
Prof. E.Knobloch, Dr S.Tobias, Leeds – Nonlinear travelling waves in finite domains  
Dr D.J.Galloway, Sydney – Properties of strong-field dynamos

*Recent invited visits abroad:*

Ecole Normale supérieure, Paris, May 2013  
ISIMA, Santa Cruz, July 2010  
Festival de Théorie, Aix-en-Provence, July 2009  
Institut Henri Poincaré, March/April 2009  
Kavli Institute, Santa Barbara, July 2008  
Festival de Théorie, Aix-en-Provence, July 2007  
Aspen Center for Physics, July 2006  
Université Toulouse, April 2005  
University of Chicago, February 2005  
University of Colorado, Boulder, February 2005  
Ecole Normale Supérieure, Paris, November 2004  
EPFL, Lausanne December 2003

*Recent invited papers, etc.:*

Invited Lecturer, School on astrophysical turbulence, Aussois, September 2004.  
Invited Lecturer, Astrophysics meeting, Toulouse Fluid Mechanics Institute, April 2005.  
S.O.C. and invited lecturer, Dynamo Days meeting, Perm, Russia, February 2005.  
Invited Lecturer, PPARC astrophysics advanced Summer School, Leeds, September 2005.  
Invited participant, Aspen Center for Physics, July 2006  
S.O.C. Warwick School on MHD Turbulence, July 2006  
S.O.C., PAMIR, Toulon, September 2008  
S.O.C., Natural Dynamos conference, Slovakia, August 2009  
Invited speaker, IAU Symposium, Nice, June 2010  
Guest of honour, Magnetoconvection conference, Cargèse, September 2010  
Invited speaker, CITA, Toronto, April 2011  
Invited speaker and SOC, PAMIR MHD conference, Corsica, September 2011  
Invited Speaker, GDR-Dynamo meeting, Cargèse, September 2011  
S.O.C., PAMIR, Bastia, September 2012  
Invited Speaker, IOP plasma physics conference, Oxford, April 2012  
Invited Speaker, Workshop on double diffusive convection., Santa Cruz, August 2012  
Keynote speaker, UKMHD, Glasgow, May 2013

*Current and recent research grants:*

STFC: (with J. Papaloizou, G.I.Ogilvie and H.E.Mason). Rolling grant: Accretion discs, Astrophysical dynamos, Planetary formation, Exoplanet systems, Solar and stellar phenomena and non equilibrium physical processes . £1,685,690. Apr. 2009 - Mar. 2012.  
Newton Trust: Models of Solar dynamo processes. £43,671. Oct. 2012 – Sept. 2013.  
Royal Society Travel Grant: £3,000. Oct. 2012- Dec. 2012.  
University of Sydney travel grant AU\$8,500. Oct. 2012 – Dec. 2012.

*Publications:*

Over 180 papers in academic journals.

*Other Activities:*

Editorial Board, Geophysical and Astrophysical Fluid Dynamics  
Trustee, Gladstone Memorial Trust  
Governor, (former Chairman) Mill Hill School  
Governor, The King's School Ely  
Governor, Shrewsbury School  
Senior Fellow, Eton College  
Member, EPSRC Peer Review College  
PhD Examiner: Newcastle, St Andrews, Leeds, Glasgow, City, Exeter, Toulouse, Paris  
Consultant and external examiner (undergraduate), Open University (2006-2012)  
Director of Graduate Education, DAMTP (2006-2012)  
Admissions Officer in Mathematics, Trinity College (1977-2012)  
Trustee, Isaac Newton Trust 2006-2012  
Member, Royal Society Sectional Committee 1, 2010-2012  
Co-organiser, Royal Astronomical Society Discussion Meeting, Feb. 2012