



(Henry) Keith MOFFATT

CURRICULUM VITAE
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Date of birth: 12th April 1935, Edinburgh, Scotland.

Married: 1960 Katharine (Linty) Stiven; 2 sons (1 deceased), 2 daughters.

Present Position:

Professor Emeritus of Mathematical Physics, Cambridge University, and
Fellow of Trinity College, Cambridge.

Education and Degrees:

1943-53 **George Watson's College**, Edinburgh
(exchange to **Lycée Henri IV**, Paris, April-June 1953)

1953-57 **Edinburgh University:** B.Sc. 1st class Hons.(Math.Sc.) 1957

1957-62 **Cambridge University:**
B.A. 1959 (1st class Hons.Mathematics ('Wrangler') 1958)
Ph.D. 1962; Dissertation "*Magnetohydrodynamic Turbulence*"
Sc.D. 1987.

Honorary Doctorates:

1987 Doctor h.c. Inst. Nat. Polytech. Grenoble
1990 Doctor h.c. SUNY (State Univ. of New York at Utica)
2001 Hon.D.Sc. Edinburgh University
2006 Doctor h.c. Technical University, Eindhoven
2007 Hon. D.Sc. Glasgow University

Membership of National Academies:

1986 FRS (Fellow of the Royal Society)
1988 Fellow of the Royal Society of Edinburgh
1991 Royal Netherlands Academy of Arts and Sciences, Foreign Member
1994 Academia Europæa, Member
1998 Académie des Sciences, Paris, Associé Etranger
2001 Accademia Nazionale dei Lincei, Rome, Socio Stranieri
2008 National Academy of Sciences (USA), Foreign Associate

Prizes and Medals:

1958 Ferguson Scholarship (Scottish Universities)
1959 Yeats Prize, 1960 Smith's Prize (Cambridge University)
2001 Panetti-Ferrari International Prize and Gold Medal
2003 Euromech Prize in Fluid Mechanics
2005 Senior Whitehead Prize (London Mathematical Society)
2005 Hughes Medal (Royal Society)
2009 David Crighton Medal (IMA and LMS)

Other Honours:

1998 Officier des Palmes Académiques (France)
2000–2004 President of IUTAM (International Union of Theoretical and Applied Mechanics)
2001–2003 Chaire Internationale de Recherche **Blaise Pascal** (Paris)
2003 Fellow of American Physical Society
2004–2005 Leverhulme Emeritus Professor
2007 Honorary Fellow of the Institute of Mathematics and its Applications

Career:

Cambridge University, Department of Applied Mathematics and Theoretical Physics (DAMTP):

Lecturer 1964-76 (Assistant Lecturer 1961-4);
Professor of Mathematical Physics 1980-2002;
Head of DAMTP 1983-1991;
Emeritus Professor since 2002.

Isaac Newton Institute for Mathematical Sciences:

Director 1996-2001 [Queen's Anniversary Prize 1999].

Ecole Polytechnique, Palaiseau, France:

Professeur d'exercice partiel, 1992-1999.

Trinity College, Cambridge:

Fellow 1961-76 and since 1980;
Lecturer and Director of Studies in Mathematics 1961-76;
Tutor 1970-74; Senior Tutor 1975.

Bristol University:

Professor of Applied Mathematics 1977-1980.

International Union of Theoretical and Applied Mechanics (IUTAM):

Member of International Papers Committee 1974-76;
Congress Committee 1976-2004 (Secretary 1984-92);
Member of General Assembly since 1980;
Member of IUTAM Bureau 1992-2008;
President 2000-2004; Vice-President 2004-2008;
IUTAM representative at General Assemblies of ICSU, 2002 (Rio de Janeiro), 2005 (Suzhou, China), 2008 (Maputo, Mozambique).

Journal of Fluid Mechanics:

Editor 1966-83 (Assistant Editor 1962-65)

Visiting appointments:

1965 (March–August): Stanford University, Stanford, California. Visiting Asst. Prof., Dept. of Aeronautics and Astronautics.

1965 (September–December): Johns Hopkins Univ., Baltimore Md., Visiting Asst. Prof., Dept. of Mechanics.

1973 (July): Les Houches, France, Lecturer, Ecole d'été de Physique Théorique.

1973 (October): ICTP Trieste, Italy: Lecturer at Autumn Course on Mathematical and Numerical Methods in Fluid Dynamics.

1975–76 Université Pierre et Marie Curie (Paris VI): Professeur Associé at Dépt. de Mécanique Théorique,.

1978 and 1979: Perugia, Italy; Lecturer at Summer School of Mathematics (CNR).

1982: Visitor (1 month) under USSR–UK exchange agreement to Institutes in Moscow, St Petersburg (Leningrad), Novosibirsk, Irkutsk and Riga.

1984 (January): Visiting appointment at University of Palermo, Italy (CNR).

1986 (September): Royal Society Exchange Visit to China; lectures in Beijing, Shanghai, Hangzhou and Chengdu.

1986–87: Inst.Nat.Polytec.Grenoble, Visiting appointment (CNRS) (6 months).

1987: IGPP La Jolla, and INLS, UCSD, Green Scholar (5 months).

1991: Coordinator for program “Topological Fluid Dynamics” at Institute for Theoretical Physics ((K)ITP), Santa Barbara, California, USA.

1992: (July–December) Principal Organiser for program “Dynamo Theory” at Isaac Newton Inst. for Math. Sciences, Cambridge.

1993 (January–March) Visiting appointment at RIMS, Kyoto, Japan.

2000 (May) KITP Santa Barbara, Program on Astrophysical Turbulence.

2008 (May) KITP Santa Barbara, Program on Dynamo Theory.

National and International Activities:

1972 Chairman, NATO Advanced Study Institute *Magnetohydrodynamic Phenomena in Rotating Fluids*, Cambridge, July 1972.

1976–89 Royal Society representative on British National Committee for Theoretical and Applied Mechanics.

1989– Member of UK Panel for Theoretical and Applied Mechanics.

1988–91 and 2006–2009 Royal Society Sectional Committee 1 (Chairman 1990/91).

1988–89 Chairman of International Scientific Committee for IUTAM Symposium “*Topological Fluid Mechanics*”, Cambridge, Aug. 1989.

1991–99 Scientific Council of Pôle Universitaire et Scientifique, Grenoble.

1998–2001 Conseil Administratif, Institut Henri Poincaré, Paris.

2000–2001 Co-Chairman of International Scientific Committee for IUTAM Symposium “*Tubes, Sheets and Singularities in Fluid Mechanics*”, Zakopane, Poland, September 2001.

2003 – Trustee and Member of Council, AIMS (African Institute for Mathematical Sciences), Muizenberg, Cape Town, South Africa.

2001–2008 Member of Scientific Advisory Board, Institute for Mathematical Sciences, NUS, Singapore.

2002– Member of Scientific Council, CISM, Udine, Italy.

2008 – Science Foundation Ireland, member of IC&ET Panel (Information, Communication and Emergent Technologies).

2009 Chairman and Director, ICSU-sponsored Spring School “*Fluid Dynamics and Geophysics of Environmental Hazards*”, 19 April–2 May, IMS, Singapore.

2009– Ecole Polytechnique, Palaiseau, Membre du Conseil d'Enseignement et de Recherche.