

Curriculum Vitae: Professor Richard Dendy

Current Employment:

Warwick University

Professor of Physics since 2012 (previously honorary since 1997)

Director, Centre for Fusion, Space, and Astrophysics since 2006

United Kingdom Atomic Energy Authority, since 1983

Senior researcher; Group leader for Theoretical Physics 1995-2011

Other Professional Roles and Distinctions:

2018- REF 2021 Physics Panel member

2017-19 Blavatnik Awards UK Physics Panel member

2017- Annual prize “PPCF Dendy Award” launched: for Europe-Asia research collaboration in plasma physics

2016- Chair, European Physical Society Plasma Physics Division

2016 Chair, Landau-Spitzer Prize Committee (combined award of European and American Physical Societies)

2014-16 Chair of Education Committee, FCO Marshall Commission

2011-15 REF 2014 Physics Panel member

2010-16 Commissioner, FCO Marshall Commission: oversight of US-to-UK Marshall Scholarship postgraduate programme, appointed by Foreign Secretary

2010- Honorary Professor of Physics, Kyushu University, Fukuoka, Japan

2008-16 European Physical Society Plasma Physics Division Board: elected member,

2007-14 EPSRC Physical Sciences Strategy Advisory Team: member

2007-11 External examiner, Queen’s University Belfast MSc in plasma physics

2005- Editor-in-Chief, *Plasma Physics and Controlled Fusion*

2005-15 Nuclear Research Advisory Council, Ministry of Defence, member

2005-10 Science Board of the Institute of Physics, member

2002-04 Chairman of Programme Committee, 31st EPS Plasma Physics Conference

1997- Honorary Professor of Physics, Warwick University

1996- Fellow of the Institute of Physics

1989-2006 Director, Culham Postgraduate Summer School

1987-94 Research Fellow, Wolfson College, Oxford

Education:

1980-83 Dept of Theoretical Physics, Oxford University:

D.Phil in Theoretical Plasma Physics

1976-79 Dept of Applied Maths and Theoretical Physics, Cambridge University:

Part III, Mathematical Tripos

1976-79 Merton College, Oxford University:

B.A. Physics: Final Honours, Class I; Honour Moderations, Class I

Publications:

A list of my refereed publications is at <https://publons.com> Author or co-author of one hundred and ninety-six refereed journal articles, cited 4805 times, h-index 37. Twenty-four of my papers have been cited more than fifty times; these are in subject areas spanning fusion, solar, space and astrophysical plasma physics.

In the past five years, I have published thirty journal articles, including three *Physical Review Letters*, eleven papers in *Nuclear Fusion*, and one in *Nature Physics*.

Two books: an undergraduate plasma physics textbook published by O.U.P (1990) and by Kodansha (Japanese translation, 1996); and a course book published by C.U.P (1993).

Some Recent Lecturing and Seminar Highlights:

I have delivered a fourth year undergraduate course on *High Energy Astrophysics* each year at Warwick since 1999: positive anonymous feedback questionnaires, 40 students.

2014 Plenary invited review, 17th International Congress on Plasma Physics

2011 onwards: Each year, a course of ten hours of postgraduate-level lectures at Kyushu University, Japan.

2010 Topical invited review at 15th International Congress on Plasma Physics

2009 Three invited review talks at international conferences, including at International Centre for Theoretical Physics, Trieste

2008 Course of five postgraduate-level lectures at *International Summer School on Complex Systems*, Australian National University

Research funding:

Highlights: £5.3M from EPSRC, jointly with Prof S C Chapman, to create a centre of excellence in fusion plasma physics at Warwick University. 2.0M euros 1994 and 1998 to support European Community research networks in plasma astrophysics.

International profile:

In addition to activities listed elsewhere in this CV, and to research collaborations shown in my list of publications, I have given seminars at:

-Princeton -MIT -University of Texas -UCLA -University of Maryland
-General Atomics -CEA Saclay -Max Planck Institutes in Heidelberg and Greifswald
-KTH Stockholm -National Institute for Fusion Science, Nagoya -Kyushu University
-Australian National University -Sydney University -University of Chile

-Imperial College -Oxford University -Manchester University -St Andrews University
-University College Dublin -Queen's University Belfast

Some of my PhD Students and Postdoctoral Researchers:

-Dr Giovanni Manfredi (Marie Curie Postdoc 1994-96) moved to a long-term research position at Strasbourg University and is now Directeur de Recherche.

-Dr Jonathan Graves (EPSRC CASE PhD student 1996-99) is a permanent staff scientist at the Centre for Research in Plasma Physics, Lausanne, Switzerland.

-Dr Mark Dieckmann (EU Network Postdoc 1998-2000) moved to a long-term staff position at Linköping University, Sweden.

-Dr Silvia Annibaldi (collaborator as Marie Curie PhD student, 1998-2001) moved to a postdoctoral research post in fusion plasma physics in Frascati, Italy.

-Dr Roderick Vann (EPSRC CASE PhD student 1999-2002) is Lecturer in the theory of magnetically confined plasmas at York University.

-Dr Bogdan Hnat (collaborator as PhD student and postdoc, 1999 to present) is now Reader in fusion and astrophysical plasmas at Warwick University.

-Dr Holger Schmitz (EU Network Postdoc 2000-2002) moved to a postdoctoral position and is now a theoretical plasma physicist on the staff of Rutherford Appleton Laboratory.

-Dr John Greenhough (PPARC CASE PhD student 2000-2003) moved to a postdoctoral research position in Earth observation at Leicester University.

-Dr Robert Lee (PPARC CASE PhD student 2001-2004) became a quantitative analyst in the financial services sector.

-Dr Thomas March (PPARC CASE PhD student 2002-2005) joined a consultancy specialising in commercial and defence applications of information theory.

-Dr Nathan Sircombe (EPSRC CASE PhD student 2002-2005) moved to a staff research position in theoretical and computational plasma physics at Aldermaston.

-Dr James Merrifield (EPSRC CASE PhD student 2003-2006) joined a scientific consultancy specialising in defence applications of fluid turbulence theory.

-Dr Robert Wicks (PPARC CASE PhD student 2005-2008) moved to a postdoctoral research position at Imperial College and is now Lecturer at University College London.

-Dr William Hornsby (EPSRC CASE PhD student 2004-2008) moved to a postdoctoral position at Bayreuth University.

-Dr Ruth Nicol (PPARC CASE PhD student 2006-2009) moved to a postdoctoral position at Warwick University.

-Dr Walter Guttenfelder (EPSRC S&I Postdoc 2008-2010) moved to a research position at Princeton University's Plasma Physics Laboratory.

-Dr Yann Camenen (EPSRC S&I Postdoc 2008-2010) moved to a research position at the University of Provence.

-Dr Francesca Poli (EPSRC S&I Postdoc 2008-2010) moved to a research position at Princeton University's Plasma Physics Laboratory.

-Dr Joseph Dewhurst (EPSRC CASE PhD student 2006-2010) moved to a staff position in medical physics at a teaching hospital in Manchester.

-Dr James Cook (EPSRC PhD student 2007-2011) moved to a postdoctoral research position at Warwick University.

- Dr Peter Gingell** (EPSRC PhD student 2008-2012) moved to a postdoctoral research position at Queen Mary, University of London.
- Dr Hao Zhu** (self-funded PhD student 2010-2014) moved to a postdoctoral research position at the Max Planck Institute for Plasma Physics, Germany.
- Dr Francisco Calderon** (Chilean Government Scholarship PhD 2011-2015) moved to a faculty position at Universidad Católica del Norte, Chile
- Dr Leopoldo Carbajal** (Mexican Government Scholarship PhD 2012-2015) moved to a research staff position at Oak Ridge National Laboratory.
- Dr Bernard Reman** (EPSRC PhD student 2014-2018) moved to a postdoctoral research position at the University of Toulouse, France
- Dr Ben Chapman** (EPSRC PhD student 2015-2019) moved to a research staff position at Culham Centre for Fusion Energy