

Curriculum Vitae

Professor Sir Steven Charles Cowley FRS, FEng, HonFIET.

Short Bio:

Steven Cowley, a theoretical physicist and international authority on fusion energy, became the seventh Director of the Princeton Plasma Physics Laboratory (PPPL) on July 1, 2018, and a Princeton professor of astrophysical sciences on September 1, 2018. Most recently president of Corpus Christi College and professor of physics at the University of Oxford in the United Kingdom since 2016, Cowley previously was chief executive officer of the United Kingdom Atomic Energy Authority (UKAEA) and head of the Culham Centre for Fusion Energy. He earned his doctorate at Princeton University in astrophysical sciences in 1985 and was a staff scientist at Princeton Plasma Physics Laboratory from 1987 to 1993. From 2011 to 2017 he was a member of the UK prime-minister's Council on Science and Technology. He is a Fellow of the Royal Society, the Royal Academy of Engineering and, was knighted by the Queen of England in June 2018.

Professional Appointments:

2018-	Director, Princeton Plasma Physics Laboratory, and Professor of Astrophysics, Princeton University.
2016-2018.	President, Corpus Christi College, Oxford and Professor (part time), Department of Physics, Oxford University.
2009-2016	Chief Executive Officer, UK Atomic Energy Authority.
2008-2009	Director, UKAEA Culham.
1993-2001 2003-2008	Professor 2000, Associate Professor 1996, Assistant Professor, 1993 Director of DOE funded Centre for Multi-scale Plasma Dynamics. 2004 Department of Physics and Astronomy University of California, Los Angeles
2001-2016	Professor (Part Time 2003 -), Head of Plasma Physics 2001-2003 Department of Physics Imperial College of Science, Technology and Medicine
1987-1993	Research Physicist with Rank of Associate Professor 1992 Staff Physicist 1987, Plasma Physics Laboratory Princeton University
1985-1987	Senior Scientific Officer, UKAEA Culham Laboratory
1985-1987	College Lecturer in Physics, Corpus Christi College Oxford University
<i>Education:</i>	Ph.D., Department of Astrophysical Sciences, 1985 M.A., Department of Astrophysical Sciences, 1983 Princeton University, Princeton, New Jersey B.A., Physics, 1981 Oxford University, UK.

Students/Post-docs: supervised 15 PhD students and 13 post-docs.

Professional and Academic Service (Selected):

- Member *Prime Minister's Council of Science and Technology*, 2011 – 2017.
- Member *National Laboratory Directors' Council*, 2018 –
- Member *Ecole Polytechnique Federal de Lausanne Review committee* 2019.
- Member *Isaac Newton Institute Scientific Steering Committee*, 2012 – 2016.
- Member *ITER Council Working Group on the Independent Review of the Updated Long-Term Schedule and Human Resources* 2015-2016
- UK Member of Governing Board of Fusion for Energy 2008- 2016.
- Member Prospects for Inertial Confinement Fusion Energy Systems Committee, report “*Assessment of the Prospects for Inertial Fusion Energy.*” US National Research Council 2013.
- Chair *Princeton Plasma Physics Laboratory's Scientific Advisory Committee*.
- Judge *Google Science Fair 2012, 2013, 2014, 2015, 2016*.
- British delegate to *Consultative Committee for EURATOM on Fusion CCE-FU. 2008-2013*
- Member of the board of the *Advanced Manufacturing Institute*, Sheffield.
- Chair, Decadal Review of Plasma Science, report “*Plasma Science: Advancing Knowledge in the National Interest.*” US National Research Council 2007
- Member of the UK. Fusion Advisory Board 2003 - 2008.
- Member Burning Plasma Assessment Committee, report “*Bringing a Star to Earth.*” US National Research Council 2004.
- *Physical Review Letters*, Decadal Review committee, 2002-2004.
- Chair of the US National Research Council's Plasma Science Committee, 1997-2000.
- Physics Survey Overview Committee of the US National Research Council, 1999- 2001.
- DOE Energy Research Strategic Planning Committee 1998.
- Fusion Energy Science Advisory Committee - Review of ITER Physics Panel, 1997.
- Joint Chairman, NSF, Institute for Theoretical Physics Workshop on Plasma Turbulence and Intermittency, Santa Barbara, 1995.

Research Interests:

Fusion Theory, Space and Astrophysical Plasmas, Energy Policy.

Awards, Honors (selected):

2020	Honorary Fellowship, Corpus Christi College, Oxford
2019	Honorary Doctor of Science, University of Lancaster
2018	Knight Bachelor, Queen's Birthday Honours
2015	Honorary Fellowship, Institute of Engineering and Technology.
2014	Fellow of the Royal Academy of Engineering
2014	Fellow the Royal Society
2012	2012 Glazebrook Medal of the Institute of Physics
2009	Honorary Professor University of York
2004	Fellow of the Institute of Physics, UK.
1998	Fellow American Physical Society
1993, 96, 97, 2006	Physics Department Award for Excellence in Teaching, UCLA
1984-85	Charlotte Elizabeth Proctor Fellowship from Princeton University
1981-83	Harkness Fellowship
1978-81	Scholarship from Corpus Christi College, Oxford University

Over 190 publications including 24 Physical Review Letters. Google scholar page:

<http://scholar.google.com/citations?user=zJrztlwAAAAJ&hl=en>