

CURRICULUM VITAE

Name: S(usan) Jocelyn **BELL BURNELL**

Address: University of Oxford, Astrophysics, Denys Wilkinson Building, Keble Road,
Oxford OX1 3RH, United Kingdom

Telephone: 01865 273306

Fax: 01865 273390

E-mail: jocelyn@astro.ox.ac.uk

Date of birth: 15 July 1943

1. EDUCATION AND TRAINING

- 1956 - 61 The Mount School, York; 8O, 3A, 2S levels
- 1961 - 65 The University of Glasgow, Glasgow; BSc Hons Physics
- 1965 - 68 The University of Cambridge, Cambridge; PhD
- 1989 SERC/AFRC/NERC Senior Management Training Course
- 1989 - 90 Open University Management Course 'Women into Management'
- 1990 Spanish GCSE

2. PRESENT POSITIONS

2018 – present, Chancellor, University of Dundee

**2004 – present University of Oxford, Visiting Professor, Department of Physics and
Professorial Fellow, Mansfield College**

- **Department:** member of Graduate Cttee, Graduate Selection Cttee; lecturer on Graduate Course; supervisor or mentor to several graduate students; graduate student ombudsman.
- **Mansfield College:** Governing Body. Tutor for Women Students and Welfare Advisory Panel and Equal Opportunities Policy and Oversight Cttee 2005 -7. Chair, Search Committee for new Principal, 2009-10.
- **University:** committee to select next VC (2007 – 8); FEST Advisory Board (2007 – 10); Gender Equality Scheme Steering Committee (2007 - 12); Co-opted member Equality and Diversity Panel (2012 -)

3. SCIENTIFIC AND MANAGEMENT EXPERIENCE

1965- 1968 University of Cambridge

- Discovered first four pulsars

1968 - 1973 University of Southampton

- 1968 - 70 Science Research Council Fellowship
- 1970 - 73 Junior Teaching Fellowship
- Assisted in the design and development of the first 1 - 10 MeV gamma ray telescope.
- Undergraduate teaching: introductory atomic and nuclear physics; first quantum mechanics course.

1974 - 1991 raising a family; part-time portfolio as follows:

1974 - 1982 Mullard Space Science Laboratory, UCL

- 1974 - 76 (part-time) Graduate Programmer
- 1976 - 82 (part-time) Associate Research Fellow
- Operations manager for the X-ray spectrometer on the Ariel V satellite; optimised the science output from it; supervised two members of staff.
- Involved in many discoveries with this successful equipment.
- PR work (exhibitions, press conferences) for laboratory.

1982-1991 Royal Observatory, Edinburgh

- 1982 - 86 (part-time) Senior Research Fellow
- 1985 - 86 (part-time) Astronomer in charge of the Visitor Centre
- 1986 - 90 (part-time) Head of James Clerk Maxwell Telescope (JCMT) Section - as Senior Scientific Officer till 1989, then as grade 7.
- 1991 (part-time) Project Manager, EDISON project.
- As Head of Visitor Centre and Observatory Publicity Officer organised exhibitions, publicity and special events. Increased number of visitors and shop sales by 80%; supervised four staff.
- As Head of the JCMT Section responsible for building up the Section, defining functions, determining job descriptions, recruitment, induction and training of staff; establishing methods of operation, monitoring and analysing the effectiveness of these; responsible for liaison with the international user community, for management of the programme for the construction of new receivers in laboratories in three countries, and for presentation of policy, planning and reporting materials at international committees and Board in support of operations. Management of a budget of £1 million (in four currencies) and six staff (two on secondment from overseas).
- Undergraduate teaching: course on neutron stars to final year students.

1991 - 2001 The Open University

- 1991 - 01 Professor of Physics
- 1992 - 99 Chair of Physics Department
- As Chair of the Physics Department responsible for some 65 staff, including recruitment, staff development, appraisal, negotiation and scheduling of workloads, resource allocations and the delivery of teaching materials to some 4700 students p.a. on physics courses. Major development work: redirection of the Department - research income grew 5 fold between 1992 and 1996, and the number of refereed research publications grew 30%; creation and leadership of the astrophysics research group - this group grew to 25 - 30 people.
- Research interests: the astrophysics of neutron stars, the study of Cygnus X-3 and other energetic binary systems, the physics of plerions.
- Undergraduate teaching: astronomy and planetary science; introductory physics; relativity and cosmology; Fourier optics. At University of Warwick, 3rd/4th year option on 'Neutron Stars'.

1999 - 2000 Princeton University

- Visiting Professor for Distinguished Teaching (on leave from Open University)

- One of two University-appointed VPDTs, hosted by Physics Department. Teaching Sophomore mechanics, and a Freshman Seminar. Working with Physics Faculty on a re-examination of the Physics courses and teaching, and on making the Department more 'woman-friendly'. Advising on distance education.
- Colloquia/classes/talks at: Arecibo, Bell Labs, Berkeley, Carleton College MN, Carnegie Institute Washington, Chicago, Columbia, Georgian Court College NJ, Goddard, Guilford College NC, Haverford College PA, Illinois, Livermore, NIST, The College of New Jersey, NRL, NYU, Princeton Gravity Group, Princeton Plasma Lab, Stockton College NJ.

2001 - 04 University of Bath, Dean of Science

- Appointed to manage a budget of £23M, 3000 students and 530 staff in 9 Departments. Chair of Faculty Board of Studies, Chair of Faculty Executive. Attend Court and Council, member of Senate and University Executive. Member Council Nominations Committee. Chair Ethics Committee 2001 – 03. Equal Opportunities Champion 2003 – 04. Chair Student Experience and Strategy Committee 2002 – 04. Chair Steering Group Institute for Scientific, Architectural, Industrial and Archaeological Heritage (ISIAAH) 2002 – 4.

4. PROFESSIONAL ACTIVITIES

Membership of Professional Bodies

- Fellow Royal Astronomical Society 1969 -
- Fellow Institute of Physics 1992 - ; Honorary Fellow 2012 -
- Member American Astronomical Society 1992 – ; Hon Member 2015 -
- Member International Astronomical Union 1979 -
- Fellow Royal Society of Arts 1999 – 2011
- Fellow Royal Society 2003 –
- Fellow Royal Society of Edinburgh 2004 –; President 2014 - 8
- Foreign Associate, US National Academy of Sciences, 2005 –
- Hon Member Royal Irish Academy 2012 – ; Chair of Strategy Cttee 2018
- Member American Philosophical Society 2016 –
- Hon Member The Science Academy, Istanbul (Bilim Akademisi) 2016 –
- International Hon Member American Academy of the Arts and Sciences 2018 -

Public Service

- Trustee, National Maritime Museum, Greenwich 2000 – 09
- Trustee, Bath Royal Literary and Scientific Institute 2003 – 4

University Governance (see also under Dean of Science, University of Bath)

- Member Open University Senate 1991 - 2001
- Cttee for the appointment of OU's next Vice Chancellor 2000 - 01
- Open University Council 1997 - 99
 - Council Membership Committee 1998 - 99
 - Open University Finance Committee 1998 - 99
- Oxford University Physical Sciences Board Promotions Cttee 1999 - 00, 01 – 02, 05 - 06

- Member of External Panel reviewing University of Oxford's Physics Department 2001 – 2
- Elector, several Cambridge University Physics Chairs, 2006, 07, 09.
- University of Cambridge; Nominations Board for the Offices of Chancellor and High Steward, 2003 – 2014
- University of Oxford, Nominating Committee for the Vice-Chancellor, 2005 - 10
- Mansfield College, Oxford, Governing Body
- Cambridge University Library Visiting Committee 2008 – 14
- Chair, Search Committee for new Principal of Mansfield College, 2009-10 Baroness Helena Kennedy elected.
- Advisory Council, Durham University Institute of Advanced Study, 2012 – 14
- Strategic Orientation Committee, Paris Science et Lettres Research University 2012 – 7
- Pro-Chancellor, University of Dublin (Trinity College) 2013 – 8
- External member, Heriot-Watt Principal/VC Appointment Committee 2015
- External member UCD Review of School of Physics 2017

Professional Science – UK (See also under International, below)

- Editor of *The Observatory* 1973 - 76
- SERC Astronomy I Committee 1978 - 84
Vice Chair 1983 - 84
Also gamma-ray panels, NRAO Panel
- BNSC Space Science Programme Board 1991 - 92
X-ray Panels, Rolling Grants Panel, ISO Panels 1986 - 92
- SERC/PPARC Radio Astronomy Panels 1991 - 97
- PPARC Astron and Astrophys Cttee 1992 - 94
UKIRT Users/Programme/Steering Cttee 1992 - 95
Rolling Grant Panel 1994, 96
- PPARC Ground Based Facilities Committee 1998 – 00
- PPARC/STFC Chair Advanced LIGO Oversight Committee 2003 – 11
- Royal Astronomical Society:
Council Member 1978 - 81, 92 - 95
Vice President 1995 – 97
President 2002 - 04
- Deputy Chair, Standing Conference of Physics Professors, 2001 – 3
- Science Council 2002 – 04, 08 – 10.
- Royal Society:
Council member and member of President's Informal Review Group 2004 – 6.
Editorial Board, Proceedings: Mathematical, Physical and Engineering Sciences, 2004 – 06
Summer Exhibition Committee 2004 – 9 (Chair 2007 - 9)
Hooke Committee 2007 – 9
Awards Nominations Committee 2011- 14
Faraday Award Committee, 2011 – 2014
- Leverhulme Trust, Astronomy Prize Cttee, 2005, 2007, 2009.
- RSA Risk Commissioner 2006 – 8

- Scientific Organising Committee, X-ray source populations, Florida November 2007
- Institute of Physics (50000 members):
 - Patron, Einstein Year Programme 2004 – 5
 - President-elect 2007 – 8;
 - President 2008-10;
 - Recalled as President Jan 2011 – Oct 2011.
- Royal Society of Edinburgh:
 - D2 Sectional Committee 2009-13
 - Chair, Inquiry into Women in SET in Scotland, 2010 – 12
 - President 2014 - 8
- SEPNET Scientific Advisory Panel 2010 – 13
- University of Durham, Institute of Advanced Studies Advisory Committee (2011 – 14)

International (see also UK, above)

- European Commission, TMR Programme:
 - Chair, Physics Training (Fellowships) Panel 1996 - 98
 - Vice Chair 1995
 - Physics Networks Panel 1995 – 98
- European Commission, Marie Curie Excellence Award, Chair of Grand Jury, 2005.
- European Research Council, Vice-Chair, Starter Grants Review Panel 2007
- Foreign Member Onsala/SEST Telescope Board, Sweden 1996 – 2002
- International Astronomical Union, Resolutions Committee, 2003 – 9 (Chair 2006 – 9)
Facilitated sessions that led to redefinition of a planet, Prague 2006.
- Peter Gruber Foundation, Cosmology Prize Advisory Board 2004 – 7
- International Solvay Institutes, Scientific Committee for Physics 2004 – 10
- Member ASTRON Review Panel (NL) 2005.
- Extern member of promotions board, National Univ Ireland, Galway, 2006
- Distinguished Fellow, Institute for Advanced Studies, Ewha University, S. Korea, 2006 –
- European Physical Society Council, 2008 -11
- International Astronomical Union, Member Special Nominations Cttee 2009 – 12
- Patron, Euroscience Open Forum, Dublin (2012)
- AIMS-Ghana International Scientific Advisory Board 2010 -
- Danny Heineman Prize Committee (AAS) 2010 - 12
- Square Kilometre Array Site Advisory Committee, 2011-12
- Strategic Orientation Committee, Paris Science et Lettres Research University 2012 – 7
- Honorary Principal, Number 35 School, Beijing, 2012 –
- Canada Excellence Research Chairs Review Panel 2013 - 5
- Co-chair, Review of IAU Office of Astronomy for Development, Cape Town, 2015
- Chair, Review of National Astronomical Observatory Japan, Tokyo, 2015.
- Honorary President, The Soko Fund, Malawi 2016 -2020
- Selector, Schmidt Science Fellows, NY, 2019

Major Lectureships and Visiting Positions

1993 Roy Soc Chemi Lecturer, Asscn Sci Educators meeting

1994 Inst of Physics Lecturer, Assocn Sci Educators meeting
 1994 Marie Curie Lecturer, IoP/Edinburgh Science Festival
 1994 Appleton Memorial Lecturer, Univ of Edinburgh
 1994 British Council Lecturer, Strasbourg and Paris, France
 1995 National Council of Women Centenary Lecturer
 1995 Jansky Lecturer, NRAO, USA
 1996 Royal Institution Discourse
 1997 Maddison Lecturer, University of Keele
 1997 Flamsteed Lecturer, University of Derby
 1997 Royal Society Public Lecture
 1997 Hamilton Lecturer, Princeton University, USA
 1999 Australian Institute of Physics, Women in Physics Lecturer
 1999 Bishop Lecturer, Columbia University, NY
 1999/2000 Philips Visitor, Haverford College, PA
 2000 Sackler Visiting Professor, University of California Berkeley
 2000 Tuve Senior Fellow, DTM, Carnegie Institution of Washington
 2000 Distinguished Lect., Internatl. Space Univ. Summer Session, Chile
 2000 CERN Colloquium
 2001 Spreadbury Lecturer, University College, London
 2001 Plenary Speaker, Danish Physical Society Annual Meeting
 2001 Lecturer Nordic-Baltic Summer School, Ventspils, Latvia
 2001 British Council Lecturer, Athens and Thessaloniki, Greece
 2002 Lecturer, International Space University Summer Session, USA.
 2003 Lecturer, Norwegian Physics Students Annual Conference, Oslo
 2003 Flamsteed Lecturer, Royal Greenwich Observatory
 2003 Herschel Lecturer, Bath
 2003 Distinguished Scientists Panellist, INTEL Internatl Science and Engineering Fair
 2003 British Embassy/British Council Lecturer, Japan.
 2004 ΣΠΣ Quadrennial Congress speaker
 2004 Robinson Lecturer and Robinson Schools Lecturer, Armagh Observatory
 2005 Nuffield Foundation Lecturer, Association of Science Educators
 2005 Institute of Physics Ireland Lecturer (Limerick, Cork, Belfast, Dublin)
 2005 British Council/British High Commission Lecturer, Malaysia and Singapore
 2005, 6, 7, 8, 9 Distinguished Scientists Panel, INTEL Internatl Science and Engineering Fair
 2006 Lecture tour, South Korea, China (British Embassy, Chinese National Academy of Sciences)
 2006 Campbell Lecturer, University of Southampton
 2006 Gordon Lecturer, Cornell University/Arecibo
 2006 Plenary Speaker AAPT National Meeting
 2006 Athena Lecturer, Keele University
 2007 Lecture Tour, S. Africa
 2007 Kelvin Lecture, Royal Philosophical Society, Glasgow
 2008 Compton lecturer, Washington University, St Louis, USA
 2008 Invited speaker, Kavli Award Symposium, Oslo
 2008 Sophia Lecture, University of Newcastle
 2008 Ewha Academy Special Lecture, Ewha University, Seoul.
 2008 Invited plenary speaker, Australian Institute of Physics Congress, Adelaide
 2008 Dean's Lecture, University of Melbourne
 2009 Invited Lecturer, official opening IYA2009 at UNESCO

2009 Invited Reviewer, IAU –UNESCO Symposium ‘The role of astronomy in society and culture’
 2009 Moll Lecturer, Baldwin-Wallace College
 2009 Invited Lecturer ‘Pulsars in their Diversity’ (Pacini Festschrift)
 2009 Invited Speaker ‘Accelerating the Rate of Progress in Astronomy’ IAU Brazil
 2009 Invited Lecturer ‘Celebrating Science’ NPL
 2010 IoP John Lewis Lecture, ASE
 2010 Royal Irish Academy lecturer, Dublin
 2010 Invited speaker, Chatham House
 2011 Royal Society Michael Faraday Lecture
 2011 IUPAP Women Invited Plenary Speaker, S Africa
 2011 Gen Teaching Council, NI, Annual Lecture
 2011 Opening Plenary speaker ICWES Australia
 2011 Eckersley Lecture, Bedales School
 2011 Lindsay Memorial Lecture, Imperial College, London
 2011 Festival of Britain Anniversary Lecture, Southbank, London
 2011 Public Lecture, MEARIM, CapeTown
 2011 Public Lecture, APRIM, Chiang Mai, Thailand
 2011 de Waard Lecture, Groningen University
 2012 Josiah Wood Lecture, Mount Allison University, Canada
 2012 Edinburgh Lecture, Royal Society of Edinburgh
 2012 Helen Sawyer Hogg Lecture, Royal Astronomical Society of Canada
 2012 Lecturer, IAU Beijing Opening Ceremony
 2012 Sven Berggren Lecturer, Kungl. Fysiografiska Sällskapet I Lund, Sweden
 2012 Appleton Lecture, Rutherford Appleton Lab
 2012 Keynote lecturer, Royal Society Research Weekend
 2013 Lise Meitner Lecture, DPG (German Physical Society)
 2013 TEDxStormont speaker (15th anniversary N Irish Good Friday agreement)
 2013 TEDxVienna speaker
 2013 Lise Meitner Lecturer, Austrian Physical Society
 2014 Vainu Bappu Visiting Prof, Indian Institute of Astrophysics, Bangalore
 2014 Centenary Lecturer, Indian Institute of Science, Bangalore
 2014 Keynote Lecturer, Royal Astronomical Society New Zealand
 2014 J L Synge Lecturer, Trinity College Dublin
 2015 Founders Lecturer, University of Bath
 2015 Durham Castle Lecturer
 2015 Moon Lecturer, San Angelo State University, Texas
 2015 DeCoursey Lecturer, Trinity University, San Antonio, Texas
 2016 Mohler Lecture, University of Michigan Astrophysics
 2017 Barkla Lecture, University of Liverpool
 2017 Menelaus Lecture (and Medal), S. Wales Institute of Engineers
 2017 Inaugural Ada Lovelace Lecture, Bodleian Library/Oxford Lit Festival
 2017 Paco Yndrain Colloq, Universidad Autonoma Madrid
 2018 John Bolton Lecture, Parkes, Australia
 2018 Allison Levick Lecture, Sydney, Australia
 2018 Elizabeth Laird Memorial Lecture, W. Ontario, Canada
 2018 Erasmus Darwin Mem Lecture, Lichfield
 2019 Clark Lecturer, Coe College, Iowa
 2019 Reines Lecture, University of California Irvine
 2019 Greenstein Lecture, Cal Tech

2019 Walter Stibbs Lecture, University of Sydney

In the last academic year I gave 73 talks to audiences totalling over 14,600 people (42% female), in 14 countries (USA, Canada, Mexico, Taiwan, Australia, plus 9 European countries).

Education

- Open University tutor, consultant, examiner, lecturer 1973 - 87
- Oxford University Advisory Council on Continuing Education 1992 - 00
- Royal Society Education Committee 1994 - 97
- PPARC Education and Training Committee 1994 - 98
- External Examiner, University of Sheffield 1991 - 94
- External Examiner, University of Hertfordshire 1994 - 98
- External Examiner, Queen Mary Westfield 1998 - 01
- Contract Lecturer, University of Warwick 1996, 98, 00
- Extern Examiner, National University of Ireland, Galway, 2001 – 02
- External Examiner Open University S381 2007 – 09
- External Assessor Open University Certificate in Astronomy, 2007
- Patron, Helena Kennedy Bursary Scheme 1998 –
- Chair, British Physics Olympiad 2006 - 2010

Advancement of Women in Science

As one of the few senior women in astronomy/physics I have found myself:

- Speaking, broadcasting, prize-giving and official opening engagements where I am present as a *role model* or *mentor*
- *Spokeswoman* for women in science; *speaker about* and *interpreter* of women in science
- *Representative*; service on panels, committees, programmes where there is a desire to include at least one woman.
- *Promoter* of women in science - e.g. recommending women as speakers, supporting and advising younger women. Facilitating networking.

More specifically:

- Executive Cttee, Through the Glass Ceiling 1998 – 99
- Athena Advisory Committee (Deputy Chair 2004 - 07) 2002 – 07; created the Athena-SWAN Awards, subsequently funded by HEFCE
- Rosalind Franklin Awards Committee 2003 – 05
- Advisory Panel, IoP Women in Physics Group 2004 –
- Inter Academy Council panel on ‘Women for Science’ 2005 – 06
- Tutor for Women Students, Mansfield College, 2005 - 07
- Science Judge, First Women Award, 2006.
- Opening speaker, GASAT 12, Brighton, 2006.
- President, Mount Old Scholars Association 2007 – 09

- Advisory Board, Females in Science, Engineering and Technology, University of Oxford, 2007 – 10.
- Gender Equality Duty Advisory Group, Univ Oxford, 2007
- Gender Equality Scheme Steering Cttee, Univ Oxford, 2007 - 2012
- Founder Chair, Athena Forum, 2008 - 9
- Chair, Royal Society of Edinburgh Inquiry into Women in SET in Scotland, 2010-12
- University of Oxford Co-opted member Equality and Diversity Panel 2012 –

Presenting Science

- Co-ordinated major Royal Society Exhibit on behalf of Profs Boyd, Hawking, Hewish, Lovell and Pounds to mark Queen's Silver Jubilee, 1977
- Edinburgh Science Festival Programme Cttee 1991 - 96
- PPARC *Frontiers* Editorial Advisory Board 1997 - 2000
- Chair PPARC PUST/Science and Society Advisory Panel 2001 – 4.
- Judge GSK-Assn Brit Science Writers Competition 2001
- Royal Society Summer Exhibition Committee 2004 – 9 (Chair 2007 - 9)
- BAAS President of Physics and Astronomy Section, 2005.
- Honorary Vice President, William Herschel Society 2006 –
- Royal Society Faraday Award Committee, 2011 – 2014
- President British Science Association 2011 – 12
- Chair of Judges, Royal Society Winton Prize for Science Books, 2012.

See also sections on media and lectureships

Recent Media Highlights

In a typical year I make several radio or TV broadcasts. Recent programmes have included: BBC TV *Beautiful Minds* and *Great Scientists*; BBC Radio *Life Scientific*; RTE TV *Sisters in Science*; and RTE Radio *Irish Scientists*. In 2016 I took part in a BBC TV *Stargazing Live* Programme and recorded material for a Japanese astronomy TV programme *Cosmic Front*. In 2017 I have recorded a tribute to Vera Rubin for BBC Radio 4 *Women's Hour* and featured in BBC Radio 3's *Essential Classics*. I have recorded material for an RTE TV programme about LOFAR.

In 2006 the Royal Astronomical Society commissioned June Mendoza to paint my portrait, in 2015 the Royal Society of Edinburgh commissioned Victoria Crowe to paint a portrait and in 2017 Oxford University commissioned a portrait of me by Ben Hughes. 2019, Stephen Shankland has been commissioned by Roy Soc to paint a portrait, and DCU has commissioned

Voluntary Sector

- Member British Council of Churches (BCC) Assembly 1978 - 90
British Council of Churches Nominations Cttee 1981 - 82
- Member Scottish Council of Churches 1982 - 90
Scottish Council of Churches Executive Cttee 1984 - 88
- Member BCC Delegation to the Soviet Churches 1986
- Honorary Associate, National Council of Women 1995 -
- Clerk Britain Yearly Meeting - i.e. President of British Quakers and Chair of Annual Assembly 1995 – 99

- Clerk, Central Executive Committee, Friends World Committee for Consultation, 2008 – 2012
- Athenaeum Club Talk Dinner Committee 2013 – 9 (Acting Chair 2018)

5. AWARDS, HONOURS, DISTINCTIONS AND OTHER RECOGNITIONS

- 1962 Joseph Black Medal and Cowie Book Prize for Geology, University of Glasgow
- 1973 Michelson Medal, Franklin Institute, Philadelphia, USA
- 1978 J. Robert Oppenheimer Memorial Prize, Center for Theoretical Physics, Coral Gables, FL
- 1987 Beatrice M. Tinsley Prize, American Astronomical Society (first recipient)
- 1989 Herschel Medal, Royal Astronomical Society, London
- 1993 Hon DSc, Heriot-Watt University
- 1994 Hon DUniv, University of York
- 1995 Hon DSc's: University of Warwick; University of Newcastle
- 1996 Hon ScD, University of Cambridge
- 1996 Honorary Fellowship, New Hall Cambridge
- 1997 Hon DSc's: University of Glasgow; University of Sussex
- 1999 CBE
- 1999 Edinburgh Medal, City of Edinburgh and Edinburgh Science Festival
- 1999 Giuseppe Piazzi Prize, Palermo, Italy
- 1999 Hon DSc's: University of St Andrews; University of London
- 2000 Hon Member Sigma Pi Sigma (US Physics Students' Honor Society)
- 2000 Hon DSc's; Haverford College, Philadelphia; University of Leeds; Williams College, MA
- 2000 Magellanic Premium, American Philosophical Society
- 2001 Honorary Associate, National Council of Women
- 2002 Hon DSc's: University of Portsmouth; Queens's University Belfast
- 2002 Joseph Priestly Prize, Dickinson College, PA
- 2003 Fellow, Royal Society
- 2004 Hon DSc, University of Edinburgh
- 2004 Fellow, Royal Society of Edinburgh
- 2004 Robinson Medal, Armagh Observatory
- 2004 Honorary Professor University of Bath (to 2010)
- 2005 Foreign Associate, US National Academy of Sciences
- 2005 Hon DSc, Keele University
- 2006 Distinguished Fellow, Institute for Advanced Studies, Ewha University, Seoul
- 2006 One of 6 selected for 'Women of outstanding achievement in SET' photographic exhibition.
- 2006 Honorary Fellow, the BA
- 2006 MA, University of Oxford (by resolution).
- 2007 DBE
- 2007 Hon SD, Harvard University; Hon DSc, University of Durham.
- 2007 Royal Philosophical Society, Glasgow, Kelvin Medal
- 2008 Hon Fellow, Institute of Physics Singapore
- 2008 Hon DSc's: University of Michigan; University of Southampton; Hon ScD, Trinity College Dublin
- 2009 Hon DSc's: University of Leicester; Loughborough University; University of Lancaster; National University Ireland; Hon DUniv, The Open University

- 2009 Voted most inspirational living woman scientist, and fourth most inspirational ever in a *New Scientist* poll
- 2010 Hon Fellow European Physical Society; Hon Fellow Science Museum, London
- 2010 Royal Society (350th Anniversary Year) Michael Faraday Prize and Lecture
- 2010 Rated 15 in *The Times*’ compilation of the UK’s 100 most important scientists
- 2011 Grote Reber Medal (centenary of his birth) - URSI
- 2011 Honorary Fellowship, Glyndwr University
- 2011 In *The Guardian*’s list of 100 most inspiring women (1 of 7 in science & medicine)
- 2012 Honorary Member, Royal Irish Academy
- 2012 In the BBC Radio 4’s list of 60 ‘New Elizabethans’.
- 2012 Helen Sawyer Hogg Prize, Royal Astronomical Society, Canada
- 2012 Honorary Principal, Number 35 School, Beijing
- 2012 Sven Berggren Prize, Royal Physiographic Society, Lund, Sweden
- 2012 Honorary Fellowship, Institute of Physics
- 2013 In the BBC *Women’s Hour* list of the 100 most powerful British women
- 2013 Ranked 4th in most important Great British Innovations in last 100 years
- 2013 Hon DSc’s: Aberdeen University; University College London
- 2013 Honorary Professor, Xinjiang Astronomical Observatory, China
- 2014 Judged one of UK’s 100 leading practising scientists by Science Council
- 2014 One of BBC’s 100 Women 2014
- 2014 Hon DSc, University of Manchester
- 2015 Honorary Member, American Astronomical Society
- 2015 Hon DSc’s: McGill University, Canada; Edinburgh Napier University; Strathclyde University; University of Hull; Hon DPhil, Dublin City University
- 2015 Medalla de Oro (Gold Medal) Consejo Superior de Investigaciones Científicas, Spain
- 2015 Royal Medal (physical sciences), Royal Society London (first female recipient)
- 2015 Women of the Year (60th Anniversary) Lifetime Achievement Award
- 2016 Mohler Prize and Lecture, University of Michigan Astrophysics
- 2016, 17 Listed in Debrett’s 500
- 2016 Elected Foreign Member of the American Philosophical Society
- 2016 Honorary Member, Bilim Akademisi (The Science Academy, Istanbul)
- 2016 Honorary DSc’s: Rutgers University (250th anniversary, +Barrack Obama); University of Alberta
- 2016 Saltire Society Scotland (80th anniversary), Fletcher of Saltoun Award for Science
- 2016 Institute of Physics, President’s Medal
- 2017 Honorary DUniv, University of Valencia; Hon LLD, University of Dundee.
- 2018 International Honorary Member, American Academy of Arts and Sciences
- 2018 Special Breakthrough Prize in Fundamental Physics
- 2018 Grande Médaille, Académie des Sciences, Paris.
- 2019 Hon DSc’s: Willamette Univ (OR); Ulster. Hon LLD Bath.

6. PUBLICATIONS

Papers

- About 70 scientific papers and some 35 Quaker publications

Chapters and Books

- 1985 Arthur S Eddington :”Our Most Distinguished Astrophysicist”. S. Jocelyn Burnell. Chapter 2, Vol II, Living in the Light, ed Leonard S. Kenworthy. Friends General Conference, Philadelphia.
- 1989 Broken for Life. S. Jocelyn Burnell. Quaker Home Service, London
- 1992 Next Generation Infrared Space Observatory. Eds S. J. Bell Burnell, J. K. Davies, R. S. Stobie. Kluwer, Dordrecht
- 1994 Supergiants, Supernovae and Black Holes. S. J. Bell Burnell. Chapter 4, Book 1, Astronomy and Planetary Science, ed B. W. Jones, Open University
- 2006 ‘Astronomy and Poetry’ in Contemporary poetry and contemporary science. Ed. Robert Crawford, pp 125 - 140. Oxford University Press.
- 2008 ‘Dark Matter: Poems of Space’. Eds. Maurice Riordan and Jocelyn Bell Burnell. Calouste Gulbenkian Foundation (rated one of the 10 best poetry books by *The Independent*).
- 2013 A Quaker Astronomer Reflects. Jocelyn Bell Burnell. Australia Yearly Meeting

7. LEISURE INTERESTS

Popularising astronomy; walking; Quaker activities; listening to choral music; gardening; poetry. Member Athenaeum club.

July 2019