

Curriculum Vitae

Sean F. Johnston

Current position: **Emeritus Professor of Science, Technology and Society**
University of Glasgow, UK

Affiliate Research Fellow, School of Interdisciplinary Studies, College of Social Sciences

Honorary Research Associate, Centre for Business History in Scotland, College of Social Sciences

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<http://eprints.gla.ac.uk/view/author/11538.html>
www.academia.edu/SeanFJohnston
https://www.researchgate.net/profile/Sean_Johnston
<https://philpeople.org/profiles/sean-f-johnston>

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EDUCATION

- **PhD History and Philosophy of Science**, University of Leeds, UK, 1994. Dissertation: *A Notion or a Measure: the Quantification of Light to 1939*. Supervisor: Prof G. N. Cantor.
- **MSc Physics**, Simon Fraser University, Vancouver, Canada, 1980. Dissertation: *The Far-Infrared Reflectivity of Liquid Ga-Te Alloys*. Supervisor: Prof B. P. Clayman.
- **BSc Physics** (First Class Honours, Maths minor), Simon Fraser University, 1978.

CAREER HISTORY

Nov 2019-: **Emeritus Professor** of Science, Technology and Society and **Affiliate Research Fellow**, School of Interdisciplinary Studies. Member, Centre for Business History in Scotland. University of Glasgow.

Aug 2012 – Oct 2019: **Professor of Science, Technology and Society**, School of Interdisciplinary Studies, College of Social Sciences, University of Glasgow.

Jan 2007 – Jul 2012: **Reader in History of Science and Technology**, School of Interdisciplinary Studies.

Aug 2002 – Dec 2006: **Senior Lecturer, Science Studies**, University of Glasgow Dumfries Campus.

Jul 1999 – Jul 2002: **Lecturer, Science Studies**, University of Glasgow Dumfries Campus.

Aug 1996 – Jun 1999: **Research Fellow, History of Technology**, History Dept, University of York, UK.

Oct 1995 – Jul 1996: **Teaching/Research Fellow** joint appointment in the History & Philosophy of Science Division of the Philosophy Dept and in the Interdisciplinary Research Centre (IRC) for Polymer Science and Technology, University of Leeds.

Aug 1992 – Oct 1995: **Research Fellow**, IRC in Polymer Science & Technology, University of Leeds.

Oct 1989 – Jul 1992: **Research and Development Manager**, Laser Monitoring Systems Ltd, Newlands Science Park, Hull University, Hull, East Yorkshire, UK.

Jan 1988 – Oct 1989: **Head of Analytical Division**, Lloyd Instruments plc, Southampton, Hampshire, UK.

Jun 1981 – Jan 1988: **Group Leader, Systems Engineering; Senior Optical Scientist**, Bomem Inc, Quebec, Canada.

Jun 1980 – Jun 1981: **Image Analyst and Programmer**, Canada Centre for Remote Sensing, Ottawa, Canada.

May 1977 – Aug 1977: **Summer student**, Optics group, Physics Division, National Research Council of Canada, Ottawa.

May 1975 – Aug 1975: **Summer student**, Remote Handling Section, TRIUMF cyclotron facility, University of British Columbia, Vancouver, Canada.

INTERNATIONAL AND NATIONAL DISTINCTIONS

2011 *Dingle Prize* shortlist (one of three from forty submissions), British Society for the History of Science, best publication 2009-2010 communicating the history of science to broad audiences, for *History of Science: A Beginner's Guide* (Simon & Schuster, 2009).

2003 *Paul Bunge Prize* administered by the Gesellschaft Deutscher Chemiker for research in the history of scientific instruments. The € 7,500 prize, awarded annually for the best monograph on the subject internationally, recognised *A History of Light and Colour Measurement: Science in the Shadows* (Taylor & Francis, 2001).

2001 *George E. Davis Medal*, Institution of Chemical Engineers (UK) for research on the history of engineering and the co-written historical monograph *Scaling Up* (Kluwer Academic, 2000).

1996-1997 *International Scholar* of the Society for the History of Technology (USA).

1991 *Small Firms Merit Award for Research and Technology* (SMART), UK Dept of Trade and Industry, UK government, for the design of an innovative family of gas sensing instruments.

GRANT REVIEWING FOR AWARDING BODIES

- British Academy peer reviewer, *Knowledge Frontiers: International Interdisciplinary Projects* (2017-19)
- Carnegie Research Assessor, (2014-19).
- Member of the Economic and Social Research Council (ESRC) Peer Review College (2010-19).
- ESRC Advanced Training Initiative Reviewer (2014-15).
- Funding reviewer for the Wolfson Foundation (2012).
- Assessor for the ESRC *Future Research Leaders Scheme* (2011-12).
- External reviewer for the Research Council of the Katholieke Universiteit Leuven, Belgium (2003).

REFEREEING AND REVIEWING FOR PROFESSIONAL JOURNALS, PUBLISHERS AND SOCIETIES

- Prize reviewer for Society for the History of Technology Dibner museums prize, 2017.
- Steering group, AHRC project 'Informing the Good Society – new directions in information policy', Edinburgh Napier University, 2013-2016.
- Reviewer of staff member, Oak Ridge National Laboratory, 2016.
- Member of Pickstone Prize Committee of the British Society for the History of Science, 2014, 2016.
- Refereeing of publications nominated for the Partington Prize of the Society for the History of Alchemy and Chemistry, 2008 and 2005.
- Refereeing of fifteen book manuscripts (history of aviation mathematics, 2020, for McGill-Queens University Press, holographic art, 2019, for MIT Press; biography of Philip Anderson, 2019; sociology of

nanotechnology, 2018; the rise of science, 2017; interwar nuclear physics, 2017, visual culture in the sciences, 2013, a history of the nuclear race, 2012, and a history of optics, 2010, all for Oxford University Press; a popular history of the moon for Yale University Press, 2009; a history of visual afterimages in art, science and culture, 2007; a history of ocean optics for SPIE Press, 2007; a biography of Nobel physicists William and Lawrence Bragg, 2006; the mentality of post-war German physicists, 2005; and a history of lighting, 1998), the latter three for Oxford University Press.

- Refereeing of seven book proposals (on the Royal Institution, 2020, for Oxford University Press; science in museums 2017 for Routledge; on polarised light in nature for Taylor & Francis, 2013; a history of 3D imaging for MIT Press, 2010; a history of rubber technology for Oxford University Press, 2008; a history of mediaeval magic for OneWorld Publishers, 2007; and, on technology and culture for Berg Publishers, 2004).
- Refereeing of submitted papers for *Technology & Culture* (2019, 2015, 2013, 2011, 2010, 2009), *Arts* (2019), *American Art* (2019, 2018), *Business History* (2017), *Nuncius* (2017), *Review of Scientific Instruments* (2017, 2015, 2013, 2012, 2011, 2007 and 2001), *Notes and Records of the Royal Society* (2016, 2014, 2012 and 2011), *Applied Physics Letters* (2016), *British Journal for the History of Science* (2015), *Scientia Canadensis* (2014), *Sociology Forum* (2014), *History and Technology* (2013), *Evidence and Policy* (2012), *Bulletin for the History of Chemistry* (2012), *British Museum Technical Research Bulletin* (2010), *Ambix* (history of chemistry, 2008 and 2003), *Earth Sciences History* (2007), *Isis* (history of science, 2004), *Solid State Ionics* (2000), *Electrochimica Acta* (1998) and *Polymer* (1995).
- Member of three-person 'review-symposium' for *Metascience* (2011).
- Named book reviewer for *Metascience* (2020), *Ambix* (2003-2015), *Economic History Review* (2015), *Journal of Modern History* (2015), *Minerva* (2015), *Technology and Culture* (2010-15), *British Society for the History of Science Review*, (2013), *British Journal for the History of Science* (2013, 2001-2007), *Business History* (2012), *Scottish Studies Review* (2006), *Science and Public Policy* (1997-2002), *Public Understanding of Science* (1996), *Annals of Science* (1994), *Optics News* (1993), *Spectroscopy Europe* (1992) and *Chemistry in Britain* (1990).

INVITATIONS TO SPEAK AT INTERNATIONAL MEETINGS

- 20 invited academic presentations: see appended list of publications.

MEDIA

- Interviewed by BBC Radio Scotland for holography archive initiative Feb 2017
- Interviewed for *The Times* (London) obituary of artist Margaret Benyon Oct 2016
- Interviewed by Oak Ridge newspapers about Alvin Weinberg research, May 2016.
- Consultant for [American] National Inventors' Hall of Fame, Aug 2014.
- Interviewed for Glasgow School of Art project on social media and society, Jun 2014.
- Consultant for independent feature documentary on nuclear power industry, Jul 2012.
- Interviewed by *Boston Globe* on the history and future of holography, Jun 2012.
- Consultant for BBC Four programme on the history of units of measurement, Jan 2012.
- Consultant for BBC Four programme on the history of nuclear power, Mar-Jul 2011.
- Interviewee on Bergen, Norway popular science radio programme *Soft Science*, 'Science and World Wars', Sep 2010.
- Interviewee on Radio 4 science series programme, 'The death ray in your pocket', May 2010.
- Consultant for planned C4 programme on the genealogy of machines, Aug 2009.
- Consultant for planned C4 programme on Scottish scientists, Mar 2009.

PUBLIC ENGAGEMENT

- Invited keynote speaker for retrospective exhibition 'Royal Society of Art Holography Unit, 1985-94', The Glue Factory, Glasgow, Sep 2012.
- Articles on the history and future of holography for *Pour La Science* (Apr 2012) and *American Scientist* (Dec 2011).

OTHER INDICATORS OF ESTEEM

- Dedicated eponymous lecture room, University of Glasgow Dumfries Campus, Nov 2019.
- Member of Council, British Society for the History of Science, 2014-17.
- ESRC funded project outcomes ranked 'outstanding' by three reviewers, 2013.
- Consultant for appointment of senior staff for the Science, Technology, Engineering and Public Policy initiative at University College London, 2013.
- Consultant for appointment of Director for the Science and Technology Policy Research Unit (SPRU), University of Sussex, 2013.
- Consultant for redevelopment of the Polytechnic Museum, Moscow, 2013.
- Consultant for *Shaping Our World* gallery at National Museums Scotland, 2012.
- Editorial Advisory Board member, *Journal of Multidisciplinary Engineering Technologies* (2012-18).
- Advisory Board member for *Understanding Technology* seminars, University of Edinburgh Institute of Science, Technology and Innovation and National Museums Scotland, 2008-12.

FUNDING

- Scottish Funding Council Global Challenges Research Fund £34968 (co-investigator, 2017-18)
- British Academy Research Grant £9702 (2014-16)
- Carnegie Trust Research Grant £2449 (2013-2014)
- American Institute of Physics Center for the History of Physics Grant-in-Aid \$2219 (2013-14)
- School of Interdisciplinary Studies travel grant for Society for the History of Technology conference £870 (2012)
- Economic and Social Research Council (ESRC) Grant, full economic costing £108,055 (2007-2011)
- Technische Universität Berlin lecture travel grant £550 (2010)
- MIT Museum lecture travel grant £800 (2009)
- Carnegie Trust Research Grant £1,350 (2007-2008)
- Chemical Heritage Foundation lecture travel grant £427 (2007)
- Dumfries Campus conference travel grant £288 (2007)
- Dumfries Campus conference travel grant £275 (2006)
- Royal Society Conference Attendance grant £860 (2005)
- British Academy Research Grant £4,739 (2002-2004)
- Shearwater Foundation Research Grant £3,409 (2002-2007)
- Carnegie Trust for the Universities of Scotland Research Grant £1,800 (2002-2005)
- American Institute of Physics, Center for the History of Physics Grant-in-Aid \$1500 (2002-2007)
- Dumfries Campus conference travel grant £503 (2001)
- Dumfries Campus conference travel grant £343 (2000)

SUPERVISION OF RESEARCH STUDENTS AND STAFF

- Elisabeth Loose (PhD, 2016-20), on 'maker' communities, gender and environmental practices.
- Sotirios Frantzanas (PhD, 2011-19), on the nature of anarchism and the state.
- Fiona Munro (PhD, 2013-2017; first supervisor from 2016) on renewable energy environmental policy
- Lena Hiltrop (PhD, 2011-2013), on appropriate technologies.

- Theresa Munoz (PhD, 2008-13, interim second supervisor, 2009-10).
- Laura Ferguson (PhD, 2006-10), on the cultural history of portrayals of war.
- Gillian Robertson (MPhil, 2003-05), on cremation as a socially-shaped technology [studies suspended owing to family bereavement].
- Supervision of seventeen undergraduate dissertations (2001-16), seven Honours projects (2004 and 2008) and twenty taught postgraduate dissertations (2008, 2010-18).
- Academic Mentor for Dr Helen Baxter (2017-18) [Research Associate], Dr Bettina Bluemling (2014-16) [lecturer], Dr Gwylm Davies (2012-14), Dr Steven Gillespie (2009-11), Dr Bethan Wood (2005), Dr Stuart Hanscomb (2003-06) [lecturers] and Dr John Harries (2001-03) [faculty assistant]. Informal mentoring of two other academic colleagues, Dr Benjamin Franks and Dr David Borthwick [lecturers].
- Twelve years' prior experience in technical management of commercial development projects and supervision of engineering personnel at Laser Monitoring Systems (2 staff), Lloyd Instruments (4 staff) and Bomem Inc (10 staff).

OUTLINE OF TEACHING

- Taught some 1900 undergraduate and graduate students at the University of Glasgow 1999-2019.
- Fellow of the Higher Education Academy and Member of its predecessor, the Institute of Learning and Teaching in Higher Education; contributor to its subject-specific journal *Discourse*, devoted to studies of the teaching of history of science, philosophy and religious studies.
- Developer/principal lecturer/director of a rolling suite of twelve undergraduate and postgraduate courses in history, philosophy and social studies of science and technology – one of them, uniquely for the UK, a core course for undergraduates and the source for a new teaching text. The courses gained consistently high student and External Examiner evaluations.
- Developer and director of the MSc Environmental Science, Technology and Society programme from 2012 (title changed to Environmental Change and Society, 2017) including design and delivery of two PGT courses within it. One of the postgraduate courses (Environmental Ethics and Behaviour Change) led to a collaborative book project (Routledge-Earthscan, 2018).
- Co-designer and co-presenter of Continuing Professional Development (CPD) course for members of medical Research Ethics Committees, 2002-2004.
- In previous posts at the University of Leeds Physics and Philosophy departments, teaching included in duties as a laboratory demonstrator/tutor in physics (1993-5) and adjunct lecturing in the history and philosophy of science and technology (1995-6).

OUTLINE OF SERVICE/ADMINISTRATIVE/MANAGEMENT CONTRIBUTIONS

Senior roles at School and College level include:

- Programme Director for MSc in Environmental Change and Society, 2012-2019.
- Deputy Head of School, Sep 2006-Nov 2017.
- Member of Executive Group, School of Interdisciplinary Studies and of its predecessor, the Crichton Management Group, 2002-2017.
- Member of 21 New Appointments interview panels held between Feb 2000 and Sep 2018
- School Research Lead, 2002-2005; 2010-2014; 2015-16.
- Chair of MPhil and PhD viva examining panels, Jan 2013, Dec 2013, Feb 2015, Aug 2016, May 2018, Aug 2019.
- School Plagiarism Officer, 2014-2019.
- Member of Senate Appeals Committee, 2014-2017.

- Member of School Athena SWAN Bronze Award Committee, 2017-18.
- Student Advisor, 2017-2019.
- Departmental coordinator of Senate Review of Departmental Programmes of Teaching and Learning (DPTLA), 2009-10; Quality Assurance and Enhancement Officer 2006-10; Member of the Academic Standards Committee and Faculty Quality Assurance and Enhancement Officers' Group at Gilmorehill 2006-10.
- Chair of campus Ethics Committee and Ethics Officer, 2005-2008; member of campus Ethics Committee, 2001-10, 2014-19.
- Postgraduate Coordinator 2002-2005.
- Exams Officer 1999-2003.
- Departmental webmaster 1999-2001.

PROFESSIONAL QUALIFICATIONS AND MEMBERSHIPS

- Fellow of the Higher Education Academy
- Member of Council, British Society for the History of Science, 2014-18; member 1990-2018
- Chartered Physicist and Member of the Institute of Physics (CPhys and MInstP), 1990-
- Chartered Scientist (CSci, Science Council) 2004-9
- Society for the History of Technology (SHOT)
- Optical Society of America 1979-

COMPLETE LIST OF PUBLICATIONS

Most non-book publications are available as open-access full texts on the University of Glasgow *Enlighten* website, <http://eprints.gla.ac.uk/view/author/11538.html> and other open-access academic sites including <http://glasgow.academia.edu/SeanFJohnston> , https://www.researchgate.net/profile/Sean_Johnston and <https://philpeople.org/profiles/sean-f-johnston> .

| Ref. No. | I (a) Books |
|----------|--|
| 9 | Sean F. Johnston 2020, <i>Techno-Fixers: Origins and Implications of Technological Faith</i> . Montreal: McGill-Queen's University Press. ISBN 978-0228001324. |
| 8 | Benjamin Franks, Stuart Hanscomb and Sean F. Johnston 2017, <i>Environmental Ethics and Behavioural Change</i> , Abingdon: Routledge-Earthscan. ISBN 978-1-138-92404-8 (hbk); ISBN 978-1-138-92405-5 (pbk); ISBN 978-1-315-68461-1 (ebk). |
| 7 | Sean F. Johnston 2015, <i>Holograms: A Cultural History</i> , Oxford: Oxford University Press, ISBN 978-0-19-871276-3. |
| 6 | Sean F. Johnston 2012, <i>The Neutron's Children: Nuclear Engineers and the Shaping of Identity</i> , Oxford: Oxford University Press, ISBN 978-0-19-969211-8. |
| 5 | Sean F. Johnston 2009, <i>History of Science: A Beginner's Guide</i> , Oxford: Simon & Schuster (OneWorld), ISBN 978-1-85168-681-0 (pbk); Bolinda Publishing ASIN B007R6PXMK (audiobook); Chinese translation, 人人都该懂的科学简史, Zhejiang Education Publishing House ISBN9787572208539. |
| 4 | Sean F. Johnston 2006, <i>Holographic Visions: A History of New Science</i> , Oxford: Oxford University Press, ISBN 978-0-19-857122-3. |
| 3 | Sean F. Johnston 2001, <i>A History of Light and Colour Measurement: Science in the Shadows</i> , Bristol: Taylor & Francis (Institute of Physics Press), ISBN 978-0750307543. |
| 2 | Colin Divall and Sean F. Johnston 2000, <i>Scaling Up: The Institution of Chemical Engineers and the Rise of a New Profession</i> , Dordrecht: Kluwer Academic, ISBN 978-9048156061. |
| 1 | Sean F. Johnston 1991, <i>Fourier Transform Infrared: A Constantly Evolving Technology</i> , Chichester: Springer (Ellis Horwood), ISBN 978-0133274790. |
| | I (b) Edited books |
| 1 | Carol Hill and Sean F. Johnston (eds.) 2005, <i>Below the Belt: the Founding of a Higher Education Institution</i> , Dumfries: University of Glasgow Crichton Publications, ISBN 0-85261-815-8. |
| | II Chapters in books |
| 12 | Sean F. Johnston 2014, 'The cultural landscape of three-dimensional imaging', in: Martin Richardson (ed.), <i>Techniques and Principles in Three-Dimensional Imaging: An Introductory Approach</i> , Hershey PA, IGI Global (2014), pp. 212-232; ISBN 978-1-46664-933-0. |
| 11 | Sean F. Johnston 2009, 'Der parallaktische Blick: Der militärische Ursprung der Holographie' ['The parallax view: the military origins of holography'], in: Stefan Rieger and Jens Schröter (eds.), <i>Das Holografische Wissen</i> , Dortmund, Diaphane (2009), pp. 33-57; ISBN 978-3-03734-071-4. |
| 10 | Sean F. Johnston 2009, 'Why display? Representing holography in museum collections', in: P. Morris and K. Staubermann (eds.), <i>Illuminating Instruments</i> , London, Smithsonian Museum Scholarly Press, pp. 97-116; ISBN 0-9788460-3-6. |
| 9 | Sean F. Johnston 2009, 'The telephone in Scotland', in: K. Veitch (ed.), <i>Scottish Life and Society: A Compendium of Scottish Ethnology, Vol 8: Transport and Communications</i> , Edinburgh, Tucker Press, pp.716-727; ISBN 1-904607885. |
| 8 | Sean F. Johnston 2008, 'A historian's view of holography', in: H. J. Caulfield and C. Vikram, (eds.), <i>New Directions in Holography and Speckle</i> , American Scientific Publishers, pp. 3-15, ISBN 1-58883-101-9. |
| 7 | Sean F. Johnston and Mhairi Harvey 2005, 'Science Studies in a Liberal Arts curriculum', in: C. Hill and S. F Johnston (eds.), <i>Below the Belt: the Founding of a Higher Education Institution</i> , Dumfries, University of Glasgow Crichton Publications, pp. 73-86, ISBN 0-85261-815-8. |
| 6 | Sean F. Johnston 2002, 'From eye to machine: shifting authority in colour measurement', in: B. Saunders and J. Van Brakel (eds.), <i>Theories, Technologies and Instrumentalities of Colour: Anthropological and Historiographic Perspectives</i> , pp 289-306, Lanham, Maryland, University Press of America, ISBN 0-7618-2265-8. |

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| 5 | Sean F. Johnston 2001, 'In search of space: Fourier spectroscopy, 1950-1970', in: Bernward Joerges and Terry Shinn (eds.), <i>Instrumentation: Between Science, State and Industry, Sociology of the Sciences Yearbook</i> , pp 121-141, Dordrecht, Kluwer Academic, ISBN 0-7923-6736-7. |
| 4 | Sean F. Johnston and Colin Divall 1999, 'Identity through alliances: the British chemical engineer', in: I. Hellberg, M. Saks and C. Benoit (eds.), <i>Professional Identities in Transition: Cross-Cultural Dimensions</i> , pp 391-408, Gothenburg, Almqvist & Wiksell, ISBN 91-630-8243-8. |
| 3 | Colin Divall and Sean F. Johnston 1998, 'Scaling up: the evolution of intellectual apparatus associated with the manufacture of heavy chemicals in Britain, 1900-1939', in: A. S. Travis, H. G. Schröter and E. Homburg (eds.), <i>Determinants in the Evolution of the European Chemical Industry, 1900-1939: New Technologies, Political Frameworks, Markets and Companies</i> , pp 199-214, European Science Federation, Dordrecht, Kluwer, ISBN 0-7923-4890-7. |
| 2 | Sean F. Johnston 1982, 'Holographic animation apparatus', in: D. C. O'Shea and D. C. Peckham (eds.), <i>Lasers</i> , pp 122-123, New York, American Association of Physics Teachers. |
| 1 | Sean F. Johnston 1980, 'Recording spectrophotometer', in: J. Walker (ed.), <i>Light and its Uses: Making and Using Lasers, Holograms, Interferometers, and Instruments of Dispersion</i> , pp 124-130, New York, W. H. Freeman, ISBN 0-7167-1184-2. |
| | III (a) Full papers in refereed journals |
| 36 | Sean F. Johnston 2018, 'The technological fix as social cure-all: origins and implications', <i>IEEE Technology & Society</i> 37 (1), pp 47-54, ISSN 0278-0097. |
| 35 | Sean F. Johnston 2018, 'Alvin Weinberg and the promotion of the technological fix', <i>Technology and Culture</i> 59 (3), pp. 620-51, ISSN 0040-165X. |
| 34 | Sean F. Johnston 2018, 'Vaunting the independent amateur: <i>Scientific American</i> and the representation of lay scientists', <i>Annals of Science</i> 75 (2), pp. 97-119, ISSN 0003-3790 (print); 1464-505X (web) |
| 33 | Sean F. Johnston 2017, 'Holograms: the story of a word and its cultural uses', <i>Leonardo</i> 50 (5), pp. 493-499, ISSN 0024-094X. doi: 10.1162/LEON_a_01329. |
| 32 | Sean F. Johnston 2017, 'Technological parables and iconic illustrations: American technocracy and the rhetoric of the technological fix', <i>History and Technology</i> 33 (2), pp. 196-219, ISSN 1477-2620. |
| 31 | Sean F. Johnston, Benjamin Franks and Sandy Whitelaw 2017, 'Crowd-sourced science: societal engagement, scientific authority and ethical practice' <i>Journal of Information Ethics</i> 26 (1), pp. 49-65, ISSN 1061-9321. |
| 30 | Sean F. Johnston 2011, 'Making the invisible engineer visible: Du Pont and the recognition of nuclear expertise', <i>Technology and Culture</i> 52 (3), pp. 548-573, ISSN 0040-165X. |
| 29 | Sean F. Johnston 2011, 'Security and the shaping of identity for nuclear specialists' <i>History and Technology</i> 27 (2), pp. 123-153, ISSN 0734-1512. |
| 28 | Sean F. Johnston 2009, 'Creating a Canadian profession: the nuclear engineer, c.1940-1968', <i>Canadian Journal of History</i> 44 (3), 435-466, ISSN 0-008-4107. |
| 27 | Sean F. Johnston 2009, 'Implanting a discipline: the academic trajectory of nuclear engineering in the USA and UK', <i>Minerva</i> 47 (1), 51-73, ISSN 0026-4695. |
| 26 | Sean F. Johnston 2008, 'A cultural history of the hologram', <i>Leonardo</i> 41 (3), pp. 223-229, ISSN 0024-094X. |
| 25 | Sean F. Johnston 2006, 'Absorbing new subjects: holography as an analog of photography', <i>Physics in Perspective</i> 8, pp 164-188, ISSN 1422-6944. |
| 24 | Sean F. Johnston 2005, 'From white elephant to Nobel Prize: Dennis Gabor's wavefront reconstruction', <i>Historical Studies in the Physical and Biological Sciences</i> 36, pp 35-70, ISSN 0890-9997. |
| 23 | Sean F. Johnston 2005, 'Attributing scientific and technical progress: the case of holography', <i>History and Technology</i> 21, pp 367-392, ISSN 0734-1512. |
| 22 | Sean F. Johnston 2005, 'Shifting perspectives: holography and the emergence of technical communities', <i>Technology and Culture</i> 46, pp 77-103, ISSN 0040-165X . |
| 21 | Sean F. Johnston 2004, 'Telling tales: George Stroke and the historiography of holography', <i>History and Technology</i> 20, pp 29-51, ISSN 0734-1512. |
| 20 | Sean F. Johnston 2003, 'An unconvincing transformation: Michelson's interferential spectroscopy', <i>Nuncius</i> 18 fasc.2, pp 803-823, ISSN 0394-7394. |
| 19 | Sean F. Johnston and Mhairi M. Harvey 2002, 'Informing, teaching or propagandising? Combining Environmental and Science Studies for undergraduates', <i>Discourse: Learning and Teaching in Philosophical and Religious Studies</i> 1, pp 130-140, 2002, ISSN 1741-4164. |
| 18 | Colin Divall, James F. Donnelly and Sean F. Johnston 1999, 'Professional identity and organisation in a technical occupation: the emergence of chemical engineering in Britain, ca 1915-1930', <i>Contemporary British History</i> 13, pp 56-81, ISSN 1361-9462. |

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| 17 | M. J. Williamson, J. P. Southall, H. V. St. A. Hubbard, Sean F. Johnston, G. R. Davies and I. M. Ward 1998, 'NMR measurements of ionic mobility in model polymer electrolyte solutions', <i>Electrochimica Acta</i> 43, 1415-1420. |
| 16 | Sean F. Johnston 1996, 'The construction of colorimetry by committee', <i>Science in Context</i> 9, pp 387-420, ISSN 0269-8897. |
| 15 | Sean F. Johnston 1996, 'Making light work: practices and practitioners of photometry', <i>History of Science</i> 34, pp 273-302, ISSN 0073-2753. |
| 14 | S. F. Johnston, I. M. Ward, J. Cruickshank and G. R. Davies 1996, 'Spectroscopic studies of lithium triflate association in polymer gel electrolytes and their constituents', <i>Solid State Ionics</i> 90, pp 29-48, ISSN 0167-2738. |
| 13 | J. P. Southall, H. V. St. A. Hubbard, S. F. Johnston, V. Rogers, G. R. Davies, J. E. McIntyre and I. M. Ward 1996, 'Ionic conductivity and viscosity correlations in liquid electrolytes for incorporation into PVDF gel electrolytes', <i>Solid State Ionics</i> 85, pp 51-63, ISSN 0167-2738. |
| 12 | Sean F. Johnston 1992, 'Gas monitors employing infrared LEDs', <i>Measurement Science and Technology</i> 3, pp 191-192, ISSN 0957-0233, and reprinted in <i>Engineering Optics</i> , Mar 1992. |
| 11 | F. J. Bryant and Sean F. Johnston 1992, 'Infrared absorption measurements in the field using LED sources', <i>Power Engineering Journal</i> 6, 56-60. ISSN 0950-3366. |
| 10 | Sean F. Johnston 1989, 'Autonomous meridian scanning photometer for auroral observations', <i>Optical Engineering</i> 28, pp 20-26, ISSN 0091-3286. |
| 9 | W. A. Gault, S. F. Johnston and D. J. W. Kendall 1985, 'Optimization of a field-widened Michelson interferometer', <i>Applied Optics</i> 24, pp 1604-1612, ISSN 0150-536X. |
| 8 | G. G. Shepherd, W. A. Gault, D. W. Miller, Z. Pasturczyk, S. F. Johnston, P. R. Kosteniuk, J. W. Haslett, D. J. W. Kendall and J. R. Wimperis 1985, 'WAMDII: Wide Angle Michelson Imaging Interferometer for Spacelab', <i>Applied Optics</i> 24, pp 1571-1589, ISSN 0150-536X. |
| 7 | J. R. Wimperis and S. F. Johnston 1984, 'Optical cements for interferometric applications', <i>Applied Optics</i> 23, pp 1145-1149, ISSN 0150-536X. |
| 6 | B. P. Clayman and S. F. Johnston 1983, Microcomputer experimental control and data analysis for Fourier transform spectroscopy, <i>International Journal of Infrared and Millimeter Waves</i> 4, pp. 961-968. |
| 5 | S. F. Johnston, E. D. Crozier and B. P. Clayman 1983, 'Far infrared reflectivity of liquid Ga-Te alloys', <i>Canadian Journal of Physics</i> 61, pp 1503-1508, ISSN 0008-4204. |
| 4 | Sean F. Johnston 1981, 'Thermodynamic evidence for clustering in liquid Ga-Te alloys', <i>Philosophical Magazine B</i> 43, pp 937-938, ISSN 1478-6435. |
| 3 | S. F. Johnston and B. P. Clayman 1980, 'Reflectivity measurements on hot reactive liquids using a FIR laser', <i>Applied Optics</i> 19, pp 3118-3122, ISSN 0150-536X. |
| 2 | P. D. Carman and S. F. Johnston 1980, 'Effects of ambient conditions on film sensitivity', <i>Canadian Surveyor</i> 34, pp 131-138, ISSN 0008-5103 |
| 1 | Sean F. Johnston 1979, 'Holographic animation apparatus', <i>American Journal of Physics</i> 47, pp 681-682, ISSN 0002-9505. |
| | III (b) Other significant contributions to journals |
| 4 | Lewis Pyenson, Sean F. Johnston and Alberto Martínez 2011, book seminar on R. Stalley, <i>Einstein's Generation</i> , <i>Metascience</i> 20, 53-73, ISSN 0815-0796. |
| 3 | Sean F. Johnston 2006, 'The physical tourist: a Glasgow heritage tour', <i>Physics in Perspective</i> 8, pp 451-465, ISSN 1422-6944. |
| 2 | Sean F. Johnston 1990, 'The evolution of FTIR technology', <i>Chemistry in Britain</i> 26, pp 573-577, March 1990, ISSN 0009 3106. |
| 1 | Sean Johnston and C. L. Stong 1975, 'The Amateur Scientist: A high school student builds a recording spectrophotometer', <i>Scientific American</i> , pp 118-125, January 1975. |
| | IV Conference and colloquia contributions |
| 42 | Sean F. Johnston, 'American technocracy and the rhetoric of the technological fix', European Society for the History of Science annual meeting, Prague, Sep 2016. |
| 41 | Sean F. Johnston, 'Tracing – and trusting – the technological fix', 3-Societies Conference, Edmonton, June 2016. |
| 40 | Sean F. Johnston, Benjamin Franks and Sandy Whitelaw, 'Crowd-sourced science: societal engagement, scientific authority and ethical practice', Informing the Good Society, Edinburgh-Napier University, Edinburgh, Apr 2016. |
| 39 | Sean F. Johnston 2015, 'Trusting the technological fix: tracing a technological faith', Society for the History of Technology annual conference, Albuquerque, Oct 2015. |

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| 38 | Sean F. Johnston 2015, 'Capturing enthusiasms: <i>Scientific American</i> and the shaping of amateur scientists', British Society for the History of Science Annual Meeting, Swansea, Jul 2015. |
| 37 | Invited lecture, Sean F. Johnston 2015, 'Amateur physics in America: fostering technical enthusiasms, 1920-70', Sciences, Philosophie, Histoire (SPHERE), University Paris Diderot (Paris 7), Mar 2015. |
| 36 | Opening paper, Sean F. Johnston, 'The Goldilocks profession: defining the nuclear engineer', and symposium co-organiser (with Prof Terry Shinn) for 'Novel expertise and emerging specialists' symposium, 2013 International Congress on the History of Science, Technology and Medicine, Manchester, Jul 2013. |
| 35 | Invited lecture, Sean F. Johnston 2012, 'The secrecy and counterculture of holography', in the symposium series <i>Understanding Technology</i> , National Museum of Scotland and University of Edinburgh, Edinburgh, Mar 2012. |
| 34 | Invited lecture, Sean F. Johnston 2010, 'How colour was tamed', in the colloquium series 'Knowledge of Colour: History, State of Research, Challenges', Innovationszentrum Wissensforschung, IZW and the Institute of Philosophy and of History of Science and Technology, Technische Universität Berlin, Nov 2010. |
| 33 | Sean F. Johnston 2010, 'The atomic cloister: secrecy and the shaping of technical identity, 1940-60', British Society for the History of Science Annual meeting, Aberdeen, Jul 2010. |
| 32 | Sean F. Johnston 2010, 'Defining the nuclear engineer in the UK, USA and Canada, 1940-65', 7 th Meeting on 'Science and Technology in the European Periphery', Galway, Ireland, Jun 2010. |
| 31 | Invited opening paper, Sean F. Johnston 2009, 'Other dimensions of holography: the historical, social and cultural', Photons, Neurons and Bits: Holography for the 21st Century, MIT Forum, Cambridge, Massachusetts, Mar 2009. |
| 30 | Invited paper, Sean F. Johnston 2007, 'The postwar American scientific instrument industry', international seminar on the history of high-tech manufacturing, Chemical Heritage Foundation, Philadelphia, Jun 2007. |
| 29 | Invited paper, Sean F. Johnston 2007, 'Studying marginalised sciences', at Writing the History of the Physical Sciences after 1945: state of the art, questions, and perspectives, Université de Strasbourg, France, Jun 2007. |
| 28 | Keynote address, Sean F. Johnston 2006, 'Holography: a history (and future?) of expansion', Holopack-Holoprint conference, CD-ROM, Vienna, Austria, Nov 2006. |
| 27 | Invited paper, Sean F. Johnston 2006, 'The history of holography: multiple visions', Seventh International Symposium on Display Holography, St. Asaph, UK, Jul 2006, pp 14-19. ISBN 0-9553527-1-1. |
| 26 | Invited paper, Sean F. Johnston 2006, 'Emmett Leith: early career and influence', Seventh International Symposium on Display Holography, St. Asaph, UK, Jul 2006, pp 2-7. ISBN 0-9553527-1-1. |
| 25 | Invited paper, Sean F. Johnston 2006, 'Yuri Denisyuk: an appreciation', Seventh International Symposium on Display Holography, St. Asaph, UK, Jul 2006, pp 8-13. ISBN 0-9553527-1-1. |
| 24 | Invited paper, Sean F. Johnston, 2005, 'Scientists, artists and artisans: the making of holographic communities', Royal Photographic Society, London, Apr 2005. |
| 23 | Invited paper, Sean F. Johnston 2005, 'Explosion with a slow-burning fuse: origins of holography in Ann Arbor, Michigan', International conference on Holography, Optical Storage and Recording, Varna, Bulgaria, May 2005. <i>Proceedings of the SPIE: The International Society for Optical Engineering</i> (2006) 6252, pp 1-15. ISBN 0-8194-6311-6. |
| 22 | Sean F. Johnston 2004, 'From classified research to public access holography: equipment as social liberator', British Society for the History of Science Annual Meeting, Liverpool, Jun 2004. |
| 21 | Invited paper, Sean F. Johnston 2004, 'Holoscopes, wave photographs and lensless photography: changing visions of holography', International Conference on Optical Holography and its Applications, Kiev, Ukraine, May 2004. |
| 20 | Invited paper, Sean F. Johnston 2003, 'Commercial holography: midlife crisis or wise maturity?', Holopack-Holoprint Conference, CD-ROM, Vancouver, Canada, Nov 2003. |
| 19 | Award speech, Sean F. Johnston 2003, 'Scientific instruments and their cultures', Jahrestagung Chemie der Gesellschaft Deutscher Chemiker (GDCh), Munich, Germany, Oct 2003. |
| 18 | Invited paper, Sean F. Johnston 2003, 'Disciplines de mélange: la mesure de la lumière et de la couleur pendant le 20 ^{ème} siècle', La Mesure au Croisement de la Physique, de la Physiologie et de la Psychologie, CNRS, Paris, Apr 2003. |
| 17 | Invited paper: Sean F. Johnston 2003, 'Reconstructing the history of holography', Practical Holography XVII, Santa Clara, CA, Jan 2003. <i>Proceedings of the SPIE: The International Society for Optical Engineering</i> (2003) 5005, pp 130-140. ISBN 0-8194-4805-2. |
| 16 | Invited paper, Sean F. Johnston, 'An unconvincing transformation? Michelson's interferential spectroscopy', The Making of the Spectroscope, Deutsches Museum, Munich, Sep 2001. |
| 15 | Sean F. Johnston and Mhairi M. Harvey 'Informing, teaching or propagandizing? Environmental and Science Studies for undergraduates', Taking Nature Seriously, University of Eugene, Feb 2001. |
| 14 | Invited paper, Sean F. Johnston 2000, 'From eye to machine: shifting authority in colour measurement', Theories, Technologies and Instrumentalities of Colour, Institute of Philosophy, University of Leuven, Belgium, [published as book chapter; see ref 10], May 2000. |

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| 13 | Sean F. Johnston and Colin Divall 1998, 'Dogged by war: the professionalisation of the chemical engineer in Britain', Society for the History of Alchemy and Chemistry, London, Nov 1998. |
| 12 | Sean F. Johnston and Colin Divall 1998, 'War, efficiency and a new industrial order: origins of organised chemical engineering in Britain', Society for the History of Technology, Baltimore, USA, October 1998. |
| 11 | Sean F. Johnston 1998, 'Professionalising the chemical engineer in Britain', International Sociological Association Biennial Congress, Montreal, Canada, August 1998. |
| 10 | Sean F. Johnston, 'Locating the chemical engineer: the role of sponsorship in professional identity', International Sociological Association Meeting on Professionalization, Gothenburg, Sweden, May 1998. |
| 9 | Invited opening paper, Sean F. Johnston 1997, 'Transforming spectroscopy: tactics of an emergent community', Historical Conference on Research-Technology, CNRS-Sorbonne, Paris, June 1997. |
| 8 | Colin Divall and Sean F. Johnston 1996, 'The evolution of intellectual apparatus associated with developments in bulk chemical manufacturing in Britain to 1939', Determinants in the Evolution of Chemistry, European Science Foundation, Strasbourg, France, October 1996. |
| 7 | Sean F. Johnston 1996, 'Lighting the way? Illuminating engineering in America and Britain', Society for the History of Technology Annual Meeting, London, August 1996. |
| 6 | Sean F. Johnston 1996, 'Sharing, straddling or synthesising? Communities of light measurers', Third British-North American Meeting of the British Society for the History of Science, History of Science Society, and Canadian Society for the History and Philosophy of Science, Edinburgh, July 1996. |
| 5 | S. F. Johnston and J. R. Saffell 1995, 'Mid-IR LEDs for broad-band optical gas-detection systems', <i>Proceedings of the SPIE: The International Society for Optical Engineering</i> 2366, pp 77-89, 1995, ISSN 0277-786X. |
| 4 | W. A. Gault, S. F. Johnston, D. J. W. Kendall, M. J. Brousseau, K. L. Krukewich, J. G. Low, D. W. Miller and Z. Pasturczyk 1984, 'An imaging Michelson interferometer for Doppler measurements of upper atmospheric emissions', Meeting of American Geophysical Union, Cincinnati, May 1984. |
| 3 | D. J. W. Kendall, S. F. Johnston, J. A. Dobrowolski, and G. G. Shepherd 1983, 'Polarizing wide-angle Michelson interferometer for Doppler measurements of atmospheric emissions', International Conference on Fourier Transform Spectroscopy, Durham, UK, 5-9 Sep 1983. |
| 2 | S. F. Johnston and B. P. Clayman 1980, 'Far-infrared reflectivity of Ga-Te liquid alloys', Fifth International Conference on Infrared and Millimeter Waves, Wurzburg, Austria. pp. 242-243, Oct 1980. |
| 1 | P. D. Carman and S. F. Johnston 1978, 'Effects of ambient conditions on film sensitivity', International Society of Photogrammetry Symposium, Tokyo, May 1978. |
| All other outputs | |
| Encyclopaedia articles: | |
| 9 | Sean F. Johnston 2007, 'Gerhard Herzberg', in: N. Koertge (ed.), <i>New Dictionary of Scientific Biography</i> , New York: Scribner (2007), ISBN 0-6843-1320-0. |
| 8 | Sean F. Johnston 2007, 'Holographic interferometry', 'Hologram' and 'Holography' in: M. Peres, (ed.) <i>Focal Encyclopedia of Photography: Digital Imaging, Theory and Applications, History and Science</i> , Burlington, Elsevier (2007), ISBN 0-2408-0740-5. |
| 5-7 | Sean F. Johnston 2005, 'Chemical Process Engineering', 'Infrared Spectroscopy', 'Public and Private Lighting' and 'Infrared Detectors', in: W. Worthington and C. Hempstead (eds.), <i>Encyclopedia of Twentieth-Century Technology</i> , pp 141-146, 434-436, 464-466, 754-756, New York, Routledge 2004), ISBN 1-57958-386-5. |
| 1-4 | Sean F. Johnston 1998, 'Colorimeter', 'Lovibond Comparator', 'Photometer', 'Refractometer' and 'Chemical Polarimeter', in: R. Bud and D. A. Warner (eds.), <i>Instruments of Science: A Historical Encyclopedia</i> , pp 123-125, 129-130, 456-458, 473-475 and 521-523, New York, Garland (1998), ISBN 0-8153-1561-9. |
| Popular press: | |
| 11 | Sean F. Johnston 2020, 'Health Crises and Technological Fixes', <i>McGill-Queens University Press Blog</i> , 11 May 2020. |
| 10 | Sean F. Johnston 2017, 'Beware the "cult of tech fixing"', <i>The Conversation</i> Sep 2017. https://theconversation.com/beware-the-cult-of-tech-fixing-its-why-america-is-eyeing-the-nuclear-button-83387 |
| 9 | Sean F. Johnston 2016, 'Holograms are no longer the future, but we must not forget them', <i>The Conversation</i> Nov 2016. https://theconversation.com/holograms-are-no-longer-the-future-but-we-must-not-forget-them-heres-why-69306 |
| 8 | Sean F. Johnston 2015, 'Holograms and contemporary culture', <i>Oxford University Press Blog</i> 13 Dec. https://blog.oup.com/2015/12/holograms-contemporary-culture/ |
| 7 | Sean F. Johnston 2015, 'Holograms and the technological sublime', <i>Oxford University Press Blog</i> 6 Dec 2016. https://blog.oup.com/2015/12/holograms-optical-technologies-sublime/ |

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| 6 | Sean F. Johnston, 2012, 'L'épopée de l'holographie', <i>Pour La Science</i> no. 414 (April 2012), pp. 72-79, ISSN 0035-1776. |
| 5 | Sean F. Johnston, 2011, 'Whatever became of holography?', <i>American Scientist</i> 99 (December 2011), pp. 482-89, ISSN 0003-0996. |
| 4 | Sean F. Johnston 2004, 'Stephen Benton on holography, Polaroid and MIT', <i>Optics & Photonics News</i> 15 (8) 2004, 36-39, ISSN 1047-6938. |
| 3 | Sean F. Johnston 2004, 'Holography: from science to subcultures', <i>Optics & Photonics News</i> 15 (7), pp 36-41, 2004, ISSN 1047-6938. |
| 2 | Sean Johnston 1991, 'Big boom physics', <i>Physics World</i> 4 (5), p 79, May 1991, ISSN 0953-8585. |
| 1 | Sean Johnston 1990, 'The Goldilocks principle', <i>Physics World</i> 3 (6), p 76, June 1990, ISSN 0953-8585. |
| | Book reviews: |
| 1-46 | Sean F. Johnston 1990-2015, 46 book reviews for history and physics journals (<i>Ambix; Annals of Science; British Journal for the History of Science; Business History; Chemistry in Britain; Economic History Review; History of Science; Journal of Modern History; Metascience; Minerva; Optics News; Public Understanding of Science; Science and Public Policy; Scottish Studies Review; Spectroscopy Europe; Technology and Culture</i>). |
| | Translations: |
| 1 | Sean F. Johnston, commissioned French to English translations of one book (Jean-Pierre Nérrou, <i>Les Fibres Optiques</i>), one laboratory manual (Quebec: Pocatec, 1987 and 1988, respectively) and one paper (Max-Planck-Institut für Wissenschaftsgeschichte, 1998). |
| | Patents: |
| 1 | Sean F. Johnston and F. J. Bryant 1991, patent, 'Detecting the presence of a substance in a fluid' [1991/52], Europe, Patent No. EP0462755 A1 27-12-1991 [1991/52], 1991, Assigned to Laser Monitoring Systems Ltd. |

Reviews

***Techno-Fixers: Origins and Implications of Technological Faith* (McGill-Queen's University Press, 2020)**

- "Sean Johnston has written an innovative study of a movement that has become a dominant feature of the modern world's obsession with technology. This is an important story that will be of interest to historians of technology, economic and cultural historians, and anyone worried about the current state of affairs." Peter J. Bowler, Queen's University Belfast.

***Environmental Ethics and Behavioural Change* (Routledge, 2017)**

- 'Urgent environmental problems and the need to change policy and behaviour are explored and tackled with rigorous questioning of conflicting ethical theories.... This is a major philosophical contribution to the study of environmental concerns and moral obligations.' — Dr David Lamb, Hon Reader in Bioethics, University of Birmingham, UK.
- 'Addressing some of the biggest questions confronting humanity, Franks, Hanscomb, and Johnston expertly guide the reader through the complexities of our 'modern' world; and suggest ways in which a command of environmental ethics and behavioural change can produce a truly more inclusive society.' — Dr JFM Clark, Director of the Institute of Environmental History, University of St Andrews, UK.
- '*Environmental Ethics and Behavioural Change* is an incredibly helpful, clear and rigorous guide for any of us vexed about the rights and wrongs of environmental and ecological policy and practice. It is suitable for practitioners and students across disciplines.' — Prof. Simon Sadler, University of California, Davis, USA.
- 'This is an excellent and timely book. It draws on philosophical, psychological, political and other ideas to illuminate today's most urgent environmental issues, such as climate change, fracking and animal welfare. The book is exceptionally clear. It is a valuable resource for students, activists and anyone concerned about the future of our planet.' — Richard Smith, Professor of Education, University of Durham, UK.
- 'This is the perfect book for people who want to make the world a better place: what are the possible options for taking action, what are the behavioural constraints and which environmental ethical theories can inform decision-making? The book enables the development of an articulate and educated position.' — Bettina Bluemling, Assistant Professor of Regional Environmental Governance, Copernicus Institute of Sustainable Development, Utrecht University, Netherlands.

***Holograms: A Cultural History* (Oxford University Press, 2015)**

- 'Johnston is the hologram's Boswell ... Johnston meticulously records its protean adventures among scientists, entrepreneurs and the general public throughout the world' — Michael Saler, *Times Literary Supplement*.
- 'Holography is a truly fascinating optical medium, almost subconsciously embedded in our culture. Now that the field has matured, it is ripe for cultural investigation and Johnston does just that in a detailed, investigative and intelligently written series of observations.... His expert view is supported by extensive references and footnotes. This book will extend the cultural horizons of the scholar, the visual enthusiast and the curious cultural onlooker.' — Dr Andrew Pepper.
- 'This is an important contribution to a small but growing group of pioneering studies showing how twentieth century technologies drew on much richer and diverse sources of creativity across society than the moated community sometimes connoted by the phrase "science and technology". Showing how a spectrum of products and processes resulted from the interpenetration of diverse communities of physicists, engineers, corporate and countercultural enthusiasts, artists and visionaries, Johnston helps us see the process of inventing and developing the hologram in multiple dimensions.' — Dr Robert Bud, Research Head, Science Museum, London.
- 'This is a highly informative and engaging book. Johnston takes his audiences from the intriguing beginnings to the thousand-fold uses of holography today. He explores the environments in which holography developed, and the new experts who evolved with it. A must read for lay audiences and specialists alike!' — Dr Klaus Stauber, Principal Curator of Technology, National Museums Scotland.
- '*Holograms: A Cultural History* offers insightful contextualisation of a science history tracing holography from science workshop to commercial success. Its roller-coaster ride takes you from the beginnings of a new medium to its use as a ubiquitous optical security marker and beyond. Wonderfully written and crammed with factual information, I urge all those interested in understanding the journey of applied optics' greatest imaging tools.' — Prof Martin Richardson ARPS De Montfort University, Leicester.

***The Neutron's Children: Nuclear Engineers and the Shaping of Identity* (Oxford University Press, 2012)**

- 'This is a masterful study on the building of nuclear expertise... Historiographically Johnston combines social and cultural history with labour and political history, successfully weaving in insights from science and technology studies and from a practice-oriented history of science and technology. His book will become a classic for all of these fields.' – Klaus Hentschel, *Historical Institute of the University of Stuttgart*.
- 'a thorough command of the published literature and extensive archival research. It is exceedingly well-written and will appeal to a broad audience of historians, philosophers, and sociologists of science and technology as well as physicists and engineers and the general public'. – Anon. reviewer 1 for OUP.
- 'very solidly researched, densely documented and carefully argued... a lucid style and able to explain complicated technical processes'. – Anon. reviewer 2 for OUP.
- 'I enthusiastically recommend this fascinating study of nuclear engineering, which documents its development from its diverse origins in secret laboratories in the United States, Britain, and Canada during the Second World War, through its vital transformation in the international political arena during the first postwar decade, and culminates later in its maturation as a discipline through the commercialization of nuclear power, each stage of which entailed profound scientific, technical, institutional, educational, and sociopolitical consequences that affect our lives today.' – Roger H. Stuewer, *University of Minnesota*.
- Economic and Social Research Council (ESRC) ranking (3 anonymous assessors): 'outstanding'.

History of Science: A Beginner's Guide (One World, 2009)

- 'he tackles three of the biggest questions in our field. What was the significance of science throughout history? What is the correct way to think about history of science? Why should we care about it? ...As an introduction to the historiography of science, the book is superb... this volume successfully introduces not just the discipline, but many of the sub disciplines and research interests that make the field vibrant... this is a wonderfully rich volume'. – *British Society for the History of Science Viewpoint*.
- 'an impressive feat in only two hundred pages... One thing that I particularly like about this book is Johnston's writing style, as he has some excellent turns of phrase... The one that I found most striking was his parallel between the reception of Darwin's theory and the reaction to the Monica Lewinsky story during the Clinton presidency'. – *Ambix*.
- 'Clearly written without being patronising... a first-rate introduction to the history of science!' – *Science Museum, London*.

Holographic Visions: A History of New Science (Oxford University Press, 2006)

- 'Johnston's book is a valuable methodological model... a model account of recent science, and particularly notable for spanning the Soviet-West line that many historians of science assume to be a harder barrier to the transmission of knowledge than Johnston's account demonstrates'. – *Historical Studies in the Physical and Biological Sciences*.
- 'In weaving together this ambitious tale, Johnston alludes to the challenge facing historians trying to understand contemporary technoscience while striving to reconcile existing viewpoints established by living practitioners and promoters... the questions Johnston asks about what constitutes technological progress and how we both interpret and recognize it are vitally important'. – *Technology and Culture*.
- 'Only now, with Sean Johnston's richly sourced, carefully argued, multi-perspectival history, do we have an account that turns holography from a curious failure into a technique, tool, end-product, science, technology, art form and medium that can be understood as an organic part of twentieth-century society and culture'. – Jon Agar, *British Journal for the History of Science*.
- 'I suspect no-one knows the story of holography better than Johnston... I would recommend this insightful and scholarly work not only to my colleagues, but also to aspiring young scientists and students in the history and sociology of science, plus the general reader who wants to see how one field developed through its early phases'. – John Caulfield, *Physics World*.
- 'Johnston has made some real discoveries that provide new evidence on long-discussed topics in science and technology studies... One such achievement comes from his analysis of how holographic techniques and artifacts laid the groundwork for the emergence and subsequent stabilization of (new) group identities'. – *Isis*
- 'it is utterly fascinating reading... The book is extremely well written, thorough, accurate, and insightful, proving "scholarly" doesn't have to mean "boring!"'. – blogs.oracle.com/gaz/entry/capturing_the_queen_and_other.

A History of Light and Colour Measurement: Science in the Shadows (Taylor & Francis, 2001)

- 'Several themes weave their way through the fabric of the story like golden threads: physical instruments versus the human eye; science versus technology; government versus private industry; physics versus psychology; individual versus collective research; civilian versus military... I am impressed with the thoroughness of its scholarship, its

pleasant, easy style, its sparse but interesting illustrations, and its judicious use of fascinating details'. – *Physics in Perspective*.

- 'fascinating... the history of light measurement, particularly as it applies to color, shows that cultural factors determined the direction. Light measurement is seen as a 'peripheral science,' or 'research technology' because it lacks a dominant authoritative group... my own experience certainly resonates'. – *Color Research and Application*.
- 'The object of this book is to explore how and why the brightness and colour of light, which seem to be purely subjective quantities of general use, have been transformed into measurable quantities. This method applies very well to this unusual and complicated subject to describe the different levels and nodes of the network of this field of measurement'. – *Measurement Science and Technology*.
- 'In exemplary fashion this work points to new directions in instrument history'. – *Laudator, 2003 Paul Bunge Prize for history of scientific instruments*.