

Curriculum Vitae

Professor Frank A.J.L. James

PhD, MSc, DIC, FRAS, MRI

Nationality: British

Born: London, 7 March 1955

Age: 55

Married, one daughter, two sons

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Work

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Present positions and current main research:

Professor of the History of Science (from 2004) and Head of Collections and Heritage (under various titles from 1998) of the Royal Institution. Visiting Professor in the History of Science at University College, London. (2007-). Visiting Research Fellow at the Science Studies Centre, University of Bath (1998-).

Editing the Correspondence of Michael Faraday (1791-1867). This work has/is been supported by grants from the Institution of Electrical Engineers, the Royal Society and the British Academy. Volume 1 was published in 1991, volume 2 in 1993, volume 3 in 1996, volume 4 in 1999 and volume 5 in 2008. The sixth and final volume is now in preparation and should be published in 2011.

University education:

1976 MSc and DIC in History of Science from London University (Imperial College).

1981 PhD from London University (Imperial College) with thesis entitled *The Early Development of Spectroscopy and Astrophysics* (supervised by Dr M.B. Hall). Work supported by University of London Research Scholarship.

Membership of learned and professional societies:

The British Society for the History of Science (Officer and Council Member, 1989-2005, Vice President 2005-2006, 2008-2009, President, 2006-2008)
The Newcomen Society for the History of Engineering and Technology (Council, 1991-1994, 1996-1999, 2005-2007, 2009-, Vice President, 1999-2003, President 2003-2005)
History of Science Society
Society for the History of Alchemy and Chemistry (Council 2009-)
The Royal Institution
The Royal Astronomical Society (Fellow)
Royal Society of Chemistry Historical Group (Committee member, 2002-)
The British (Science) Association (Recorder of History of Science Section, 1992-1997, President, 2009-2010) Council, 1995-2000
Leonardo da Vinci Society (Committee member, 2000-)
International Union for the History and Philosophy of Science, Division of History of Science and Technology (Council member 2009-)
Society of Archivists
The Museums Association
ICOMOS-UK

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Publications:

Editions of texts:

The Correspondence of Michael Faraday, (London, Institution of Electrical Engineers).

Volume 1. 1811 to December 1831. Letters 1 to 524 (1991).

Volume 2. January 1832 to December 1840. Letters 525 to 1333 (1993).

Volume 3. January 1841 to December 1848. Letters 1334 to 2145 (1996).

Volume 4. January 1849 to October 1855. Letters 2146 to 3032 (1999).

Volume 5. November 1855 to October 1860. Letters 3033-3873 (2008)

Christmas at the Royal Institution: An Anthology of Lectures,
(Singapore, World Scientific, 2007).

Chemistry and Theology in mid-Victorian London: The Diary of Herbert McLeod, 1860-1870,
(London, Mansell, 1987).

The Tales of Benjamin Abbott: A Source for the Early Life of Michael Faraday.
The British Journal for the History of Science, 1992, **25**: 229-40.

Between Two Scientific Generations: John Herschel's Rejection of the Principle of the Conservation of Energy
in his 1864 Correspondence with William Thomson.
Notes and Records of the Royal Society of London, 1985, **40**: 53-62.

The Letters of William Crookes to Charles Hanson Greville Williams 1861-2: The Detection and Isolation of
Thallium.
Ambix, 1981, **28**: 131-157.

Books:

Michael Faraday: A Very Short Introduction
(Oxford, Oxford University Press, forthcoming, November 2010).

Science in Art: Works in the National Gallery that illustrate the history of science and technology
With J.V. Field (Stanford in the Vale, British Society for the History of Science, 1997).

Faraday

With Geoffrey Cantor and David Gooding (London, Macmillan, 1991).
Republished as *Michael Faraday* (Atlantic Highlands, Humanities Press, 1996).
Translated into Spanish as *Faraday* (Madrid, Alianza Universidad, 1994).

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Edited essay collections:

'The Common Purposes of Life': Science and Society at the Royal Institution of Great Britain
(Aldershot, Ashgate, 2002).

Semaphores to Short Waves: Proceedings of a Conference on the Technology and Impact of Early Telecommunications held at the Royal Society for the encouragement of Arts, Manufactures and Commerce on Monday 29 July 1996, organised by The British Society for the History of Science, The Newcomen Society and the RSA
(London, Royal Society of Arts, 1998).

Renaissance and Revolution: Humanists, Scholars, Craftsmen and Natural Philosophers in Early Modern Europe
Edited and introduced with J.V. Field (Cambridge, Cambridge University Press, 1993, paperback, 1997).

The Place of Experiment: Essays on The Development of Laboratories in Industrial Civilisation
(London / New York, Macmillan / American Institute of Physics, 1989).

Faraday Rediscovered: Essays on the Life and Work of Michael Faraday, 1791-1867
edited and introduced with David Gooding (London / New York, Macmillan / Stockton, 1985; paperback London / New York, Macmillan / American Institute of Physics, 1989).

Journals:

Co-editor of *History of Technology*, (London, Mansell) from 1989 (volume 12) to 1996 (volume 18).

Member of the editorial board of *History and Technology* (Amsterdam, Harwood) from 1997.

Guest co-editor of 'Science and the Visual' a special issue of *The British Journal for the History of Science*, 1998, **21**(2): 125-240.

Member of the editorial board of *The British Journal for the History of Science* (Cambridge, Cambridge University Press) from 1999-2004.

Member of the editorial board of *Interdisciplinary Science Reviews* (London, Institute of Materials) from 2002.

Manuscript guides:

Guide to the Microfilm edition of the Letters of John Tyndall (1820-1893) from the Collections of the Royal Institution
(Wakefield, Microform Academic Publishers, 2003).

Guide to the Microfilm edition of the Manuscripts of Michael Faraday (1791-1867) from the Collections of the Royal Institution, The Institution of Electrical Engineers [and] The Guildhall Library
(Wakefield, Microform Academic Publishers, 2000).
Second edition including the papers in the Royal Society, 2001.
cd edition of both the guide and papers, 2004.

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Research papers:

The Janus Face of Modernity: Michael Faraday in the Twentieth Century.

The British Journal for the History of Science, 2008, **41**: 477-516.

The Royal Institution, 1950-1985.

In R.G.W. Anderson, P.J.T. Morris and D.A. Robinson (editors), *Chymica Acta: An Autobiographical Memoir by Frank Greenaway, with Essays Presented to him by his Friends*, ([Huddersfield], Jeremy Mills Publishing, 2007), pp.175-89.

(with Anthony Peers) Constructing Space for Science at the Royal Institution of Great Britain.

Physics in Perspective, 2007, **9**: 130-85.

How Big is a Hole?: The Problems of the Practical Application of Science in the Invention of the Miners' Safety Lamp by Humphry Davy and George Stephenson in Late Regency England.

Transactions of the Newcomen Society, 2005, **75**: 175-227.

Reported in *New Scientist*, 3 September 2005, pp.48-9.

An open clash between Science and the Church?: Wilberforce, Huxley and Hooker on Darwin at the British Association, Oxford, 1860.

In David Knight and Matthew Eddy (editors), *Science and Beliefs: From Natural Philosophy to Natural Science, 1700-1900*, (Aldershot, Ashgate, 2005), pp.171-193.

Reported in *New Scientist*, 19 March 2005, pp.50-1.

Reporting Royal Institution Lectures, 1826 to 1867.

In Sally Shuttleworth and Geoffrey Cantor (editors), *Science Serialized: Representations of the Sciences in Nineteenth-Century Periodicals*, (Cambridge MA, MIT Press, 2004) pp.67-79.

Running the Royal Institution: Faraday as an Administrator.

In Frank A.J.L. James (editor), *'The Common Purposes of Life'* (2002), pp.119-146.

(with Viviane Quirke) L'affaire Andrade or how not to Modernise a Traditional Institution.

In Frank A.J.L. James (editor), *'The Common Purposes of Life'* (2002), pp.273-304.

Biographical Register

In Frank A.J.L. James (editor), *'The Common Purposes of Life'* (2002), pp.341-411.

Davy, Faraday and Italian Science.

Atti del IX Convegno Nazionale di Storia e Fondamenti della Chimica, (Modena 2001 [published 2002]), pp.149-158.

Harriet Jane Moore, Michael Faraday, and Moore's mid-nineteenth century watercolours of the interior of the Royal Institution.

In James Hamilton (editor), *Fields of Influence: Conjunctions of Artists and Scientists, 1815-1860*, (Birmingham, Birmingham University Press, 2001), pp.111-128.

Michael Faraday and Lighthouses.

In Ian Inkster, Colin Griffin, Jeff Hill and Judith Rowbotham (editors), *The Golden Age: Essays in British Social and Economic History, 1850-1870*, (Aldershot, Ashgate, 2000), pp.92-104.

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Books on the Natural Sciences in the Nineteenth Century.

In Andrew Hunter (editor), *Thornton and Tully's Scientific Books, Libraries and Collectors*, (4th edition, Aldershot, Ashgate, 2000), pp.258-71.

the civil-engineer's talent: Michael Faraday, science, engineering and the English lighthouse service, 1836-1865.

Transactions of the Newcomen Society, 1999: **70**: 153-60.

(with Margaret Ray) Science in the Pits: Michael Faraday, Charles Lyell and the Home Office Enquiry into the Explosion at Haswell Colliery, County Durham, in 1844.

History and Technology, 1999, **15**: 213-31.

Faraday, Maxwell and Field Theory.

In Frank A.J.L. James (editor), *Semaphores to Short Waves* (1998), pp.71-84.

Faraday in the Pits, Faraday at Sea: The Role of the Royal Institution in Changing the Practice of Science and Technology in Nineteenth Century Britain.

Proceedings of the Royal Institution, 1997, **68**: 277-301.

The Appliçance of Science: Humphry Davy's electrochemical protectors for ships' bottoms in the 1820s.

Engineering Science and Education Journal, 1995, **4**: S11-S16.

Science as a Cultural Ornament: Bunsen, Kirchhoff and Helmholtz in Mid-Nineteenth Century Baden.

Ambix, 1995, **42**: 1-9.

Reality or Rhetoric? Boscovichianism in Britain: the Cases of Davy, Herschel and Faraday.

In Piers Bursill-Hall (editor), *R.J. Boscovich Vita e attività scientifica His life and scientific work*, (Rome, Istituto della Enciclopedia Italiana, 1993 [published 1994]), pp. 577-85.

Davy in the Dockyard: Humphry Davy, the Royal Society and the Electro-chemical Protection of the Copper Sheeting of His Majesty's Ships in the mid 1820s.

Physis, 1992, **29**: 205-25.

Michael Faraday, The City Philosophical Society and the Society of Arts.

Royal Society of Arts Journal, 1992, **140**: 192-199.

The Military Context of Chemistry: The Case of Michael Faraday.

Bulletin for the History of Chemistry, 1991, **11**: 36-40.

Michael Faraday's First Law of Electrochemistry: How Context Develops New Knowledge.

In John T. Stock and Mary Virginia Orna (editors), *Electrochemistry, Past and Present*, (Washington, American Chemical Society, 1989), pp.32-49.

George Gabriel Stokes and William Thomson; biographical attitudes towards their Irish origins.

In John R. Nudds, Norman D. McMillan, Denis L. Weaire, Susan M.P. McKenna Lawlor (editors), *Science in Ireland 1800-1930: Tradition and Reform*, (Dublin, Trinity College, 1988), pp.75-82.

The Practical Problems of 'New' Experimental Science: Spectro-Chemistry and the Search for Hitherto Unknown Chemical Elements in Britain 1860-1869.

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The Extension of Terrestrial Chemistry in the mid-Nineteenth Century: Spectro-chemical Analysis and the Composition of the Solar System.

Proceedings of the Royal Institution, 1986, **58**: 17-30.

•The Optical Mode of Investigation: Light and Matter in Faraday's Natural Philosophy.

In David Gooding and Frank A.J.L. James (editors), *Faraday Rediscovered* (1985), pp.136-161.

The Discovery of Line Spectra.

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The Creation of a Victorian Myth: The Historiography of Spectroscopy.

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Of Medals and Muddles: The Context of the Discovery of Thallium: William Crookes's Early Spectro-Chemical Work.

Notes and Records of the Royal Society of London, 1984, **39**: 65-90.

The Physical Interpretation of the Wave Theory of Light.

The British Journal for the History of Science, 1984, **17**: 47-60.

Reprinted in S.G. Brush (editor), *History of Physics: Selected Reprints* (College Park, American Association of Physics Teachers, 1988), 64-77.

The Study of Spark Spectra, 1835-1859.

Ambix, 1983, **30**: 137-162.

The Debate on the Nature of the Absorption of Light 1830- 1835: A Core-Set Analysis.

History of Science, 1983, **21**: 335-368.

The Conservation of Energy, Theories of Absorption and Resonating Molecules, 1851-1854: G.G. Stokes, A.J. Ångström and W. Thomson.

Notes and Records of the Royal Society of London, 1983, **38**: 79-107.

The Establishment of Spectro-Chemical Analysis as a Practical Method of Qualitative Analysis, 1854-1861.

Ambix, 1983, **30**: 30-53.

Thermodynamics and Sources of Solar Heat, 1846-1862.

The British Journal for the History of Science, 1982, **15**: 155-181.

Oxford Dictionary of National Biography entries:

William Thomas Brande (1788-1866)	Herbert McLeod (1841-1923)
Samuel Hunter Christie (1784-1865)	James Marsh (1794-1846)
William Albert Coates (1919-1993)	Richard Phillips (1778-1851)
John Thomas Cooper (1790-1854)	William Ritchie (c.1790-1837)
John Frederic Daniell (1790-1845)	George John Singer (1786-1817)
Michael Faraday (1791-1867)	Arthur Smithells (1860-1939)
George Fownes (1815-1849)	William Sturgeon (1783-1850)
William Snow Harris (1791-1867)	Gerald James Whitrow (1912-2000)
George Downing Living (1827-1924)	William Mattieu Williams (1820-1882)

Founders of the Royal Institution of Great Britain

New Dictionary of Scientific Biography entries:

Humphry Davy (1778-1829)	George Porter (1920-2002)
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Guides and pamphlets:

Michael Faraday and American Science, a lecture delivered on 11 June 1999
(London, Institute of Electrical and Electronic Engineers, 1999).

The Royal Institution and the Royal Family 1799-1999 Commemorating the visit of Her Majesty the Queen to the Royal Institution of Great Britain on the occasion of its bicentenary, 7th December 1999
(London, Royal Institution, 1999).
Reprinted with modifications as *Guides to the Royal Institution of Great Britain: 3* (London, Royal Institution, 2002).

Guides to the Royal Institution of Great Britain: 1. History
(London, Royal Institution, 2000).

Faraday's London
(London, Royal Institution, 2002).

Encyclopaedia and dictionary entries:

Contributed many of the -Science, Technology, and Discovery- entries to Philip Waller and John Rowett (editors), *Chronology of the 20th Century*, (Oxford, 1995).

Bessemer, Henry.
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British Association for the Advancement of Science.
In Arne Hessenbruch (editor), *Reader's Guide to the History of Science*, (London, 2000), pp.106-7.

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Brewster, David.

In A.W. Skempton *et al.* (editors), *A Biographical Dictionary of Civil Engineers in Great Britain and Ireland. Volume 1: 1500-1830*, (London, 2002), pp.74-5.

Brockedon, William.

In A.W. Skempton *et al.* (editors), *A Biographical Dictionary of Civil Engineers in Great Britain and Ireland. Volume 1: 1500-1830*, (London, 2002), pp.80-1.

Curie, Marie.

In Encarta -98

Curie, Pierre.

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Dalton, John.

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Davy, Humphry.

In J. Yolton, J.V. Price and J. Stephens (editors), *The Dictionary of Eighteenth-century British Philosophers*, (2 volumes, Bristol, 1999), 1: 225-6.

Davy, Humphry.

In Arne Hessenbruch (editor), *Reader's Guide to the History of Science*, (London, 2000), pp.167-8.

Electric Battery.

In Peter Tallack (editor), *The Science Book*, (London, 2001), pp.116-7.

Electricity.

In Arne Hessenbruch (editor), *Reader's Guide to the History of Science*, (London, 2000), pp.204-5.
Reprinted in David Loades (editor), *Reader's Guide to British History*, (2 volumes, London, 2003), 1: 446-7.

Electromagnetism.

In Peter Tallack (editor), *The Science Book*, (London, 2001), pp.134-5.

Faraday, Michael.

In *Lexikon der Physik*, (volume 2, Berlin, 1998), pp.305-6.

Faraday, Michael.

In Arne Hessenbruch (editor), *Reader's Guide to the History of Science*, (London, 2000), pp.251-3.
Reprinted in David Loades (editor), *Reader's Guide to British History*, (2 volumes, London, 2003), 1: 489-91.

Faraday, Michael.

In Encarta, 2003.

Faraday, Michael.

In John Heilbron (editor), *The Oxford Companion to the History of Modern Science*, (Oxford, 2003), pp.295-6.

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Faraday, Michael.

In Bernard Lightman (editor), *The Dictionary of Nineteenth-Century British Scientists*, (4 volumes, Bristol, 2004), **2**: 663-70.

Faraday, Michael.

In M.M. Chrimes *et al.* (editors), *A Biographical Dictionary of Civil Engineers in Great Britain and Ireland. Volume 2:1830-1890*, (London, 2008), pp.277-9.

Field.

In John Heilbron (editor), *The Oxford Companion to the History of Modern Science*, (Oxford, 2003), p.301.

Gladstone, John Hall.

In Bernard Lightman (editor), *The Dictionary of Nineteenth-Century British Scientists*, (4 volumes, Bristol, 2004), **2**: 787.

Gravatt, William.

In A.W. Skempton *et al.* (editors), *A Biographical Dictionary of Civil Engineers in Great Britain and Ireland. Volume 1: 1500-1830*, (London, 2002), p.266.

Gregory, Olinthus Gilbert.

In A.W. Skempton *et al.* (editors), *A Biographical Dictionary of Civil Engineers in Great Britain and Ireland. Volume 1: 1500-1830*, (London, 2002), pp.273-4.

Harris, William Snow.

In Bernard Lightman (editor), *The Dictionary of Nineteenth-Century British Scientists*, (4 volumes, Bristol, 2004), **2**: 908-9.

Herschel, Frederick William.

In J. Yolton, J.V. Price and J. Stephens (editors), *The Dictionary of Eighteenth-century British Philosophers*, (2 volumes, Bristol, 1999), **1**: 422-3.

Millington, John.

In A.W. Skempton *et al.* (editors), *A Biographical Dictionary of Civil Engineers in Great Britain and Ireland. Volume 1: 1500-1830*, (London, 2002), pp.442-3.

Millington, John.

In Bernard Lightman (editor), *The Dictionary of Nineteenth-Century British Scientists*, (4 volumes, Bristol, 2004), **3**: 1404-5.

Physics (and Natural Philosophy).

In David Loades (editor), *Reader's Guide to British History*, (2 volumes, London, 2003), **2**: 1035-7.

Ritchie, William.

In Bernard Lightman (editor), *The Dictionary of Nineteenth-Century British Scientists*, (4 volumes, Bristol, 2004), **4**: 1693-4.

Royal Institution.

In Arne Hessenbruch (editor), *Reader's Guide to the History of Science*, (London, 2000), pp.661-2.
Reprinted in David Loades (editor), *Reader's Guide to British History*, (2 volumes, London, 2003), **2**: 1144-5.

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Royal Institution of Great Britain.

In F.M. Leventhal (editor), *Twentieth-Century Britain, An Encyclopedia*, (New York, 1995), p.689.

Royal Society of London.

In F.M. Leventhal (editor), *Twentieth-Century Britain, An Encyclopedia*, (New York, 1995), p.691.

Scientific Revolution timeline.

In Encarta -98

Smithells, Arthur

In Bernard Lightman (editor), *The Dictionary of Nineteenth-Century British Scientists*, (4 volumes, Bristol, 2004), 4: 1855-6.

Spectroscope (Early).

In Robert Bud and Deborah Jean Warner (editors), *Instruments of Science: An Historical Encyclopedia*, (New York, 1998), pp.563-5.

Spectroscopy.

In John Heilbron (editor), *The Oxford Companion to the History of Modern Science*, (Oxford, 2003), pp.771-2.

Young, Thomas.

In J. Yolton, J.V. Price and J. Stephens (editors), *The Dictionary of Eighteenth-century British Philosophers*, (2 volumes, Bristol, 1999), 2: 989-91.

Young, Thomas.

In A.W. Skempton *et al.* (editors), *A Biographical Dictionary of Civil Engineers in Great Britain and Ireland. Volume 1: 1500-1830*, (London, 2002), pp.818-9.

Other publications:

Fame and Faraday (with Isobel Falconer)

Elaine Moohan (editor), *Reputations*, (Milton Keynes, Open University, 2008), pp.85-122.

Back in England: The Braggs and the Royal Institution.

In *Bragg about Adelaide* (Adelaide, 2005), pp.10-15.

Editing Faraday.

Notes and Records of the Royal Society of London, 2002, **56**: 349-52.

Never talk about science, *show* it to them at the lecture theatre of the Royal Institution.

Interdisciplinary Science Reviews, 2002, **27**: 225-9.

A lighter note.

New Scientist, 20 May 2000, p.101.

Evolving Ideas.

Chemistry 2000, (London, Royal Society of Chemistry, 1999), p.31.

The Royal Institution of Great Britain: 200 years of scientific discovery and communication.

Interdisciplinary Science Reviews, 1999, **24**: 225-31.

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Past offers a future.

Financial Times Guide, 4 October 1999, p.6.

Visiting Science - The Royal Institution.

Breakthrough, 1999, **1**(3): 10.

Des éléments trahis par leurs spectres.

Les Cahiers de Science et Vie, August 1999, pp.6-15.

The Bicentenary of the Royal Institution of Great Britain.

Chemical Heritage, 1999, **17**(2): 45.

Moneyed chemist.

Chemistry in Britain, April 1999, p.22.

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Chemistry in Britain, April 1999, p.32.

Thomas Young (1773-1829)

Chemistry in Britain, April 1999, p.32.

Science for common purposes

Chemistry and Industry, 1999, p. 232.

1999: the bicentenary of a great British institution.

Materials World, 1999, **7**: 148-50.

1830-1860.

Daily Telegraph Connected, 16 July 1998, p.8.

Science v Religion: The Big Match.

The Birmingham Post, 21 October 1996, supplement, p.24

Trinity House move unearths major cache of Faraday letters.

IEE News, 1 December 1994, p. 2.

The man who cast a new light on science.

New Scientist, 17 September 1994, pp. 45-6.

Frankenstein and the Spark of Being (With J.V. Field)

History Today, September 1994, pp. 47-53.

Michael Faraday's Work on Glass.

Borax Review, 1991, **10**: 20-2.

The Faraday Industry.

Physics World, September 1991, pp. 41-3.

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Physics Education, 1991, **26**: 296-300.

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Michael Faraday - The Chemist.

Education in Chemistry, 1991, **28**: 128-30.

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Times Higher Education Supplement, 31 January 1986, p.15.

Collections X: History of Science and Technology Resources at the Royal Institution of Great Britain (With Irena M. McCabe)

The British Journal for the History of Science, 1984, **17**: 205-9.

Obituaries:

Gerald Whitrow (unsigned) in *Daily Telegraph*, 18 June 2000, p.31.

(signed) in *Astronomy and Geophysics*, 2001, **42**(2): 35-6.

Charles Taylor (unsigned with Richard Catlow) in *Times*, 3 April 2002, p.33.

George Porter (signed with David Phillips) in *Physics Today*, March 2003, pp.94-6.

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Marie Hall

Book reviews:

Essay review:

Maxwell's Early Career.

Notes and Records of the Royal Society of London, 1991, **45**: 266-270.

Review of P.M. Harman (editor), *The Scientific Letters and Papers of James Clerk Maxwell. Volume 1. 1846-1862*, (Cambridge, 1990).

Book reviews:

O. Gingerich (editor), *Astrophysics and Twentieth-century Astronomy to 1850. Part A*, (Cambridge, 1984).

Reviewed in *Endeavour*, 1985, **9**: 60.

A.D. Morrison-Low and J.R.R. Christie (editors), *'Martyr of Science': Sir David Brewster 1781-1868*, (Edinburgh, 1985).

Reviewed in *Bulletin of the Scientific Instrument Society*, 1986, no 9: 15-16

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A. Thackray, J.L. Sturchio, P.T. Carroll and R. Bud, *Chemistry in America, 1876-1976: Historical Indicators*, (Dordrecht, 1985).

Reviewed in *The British Journal for the History of Science*, 1986, **19**: 235.

R. Fox (translator and editor), *Sadi Carnot: Reflexions on the Motive Power of Fire: A Critical Edition with the Surviving Manuscripts*, (Manchester, 1986).

Reviewed in *Ambix*, 1987, **34**: 49.

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Reviewed in *The British Journal for the History of Science*, 1987, **20**: 233-4.

C. Jungnickel and R. McCormmach, *Intellectual Mastery of Nature. Theoretical Physics from Ohm to Einstein. Volume 1 The Torch of Mathematics 1800-1870; Volume 2 The Now Mighty Theoretical Physics 1870-1925*, (Chicago, 1986).

Reviewed in *Ambix*, 1988, **35**: 106-7.

D. Gooding, T. Pinch and S. Schaffer (editors), *The Uses of Experiment: Studies in the Natural Sciences*, (Cambridge, 1989).

Reviewed in *Physics World*, August 1989, p. 47.

M.B. Hall, *All Scientists Now: The Royal Society in the Nineteenth Century*, (Cambridge, 1984).

Reviewed in *Notes and Records of the Royal Society of London*, 1990, **44**: 133-4.

A. Twyman, *In Search of the Mysterious Dr. Weekes: A Fragment of Sandwich History*, (Sandwich, 1988).

Reviewed in *The British Journal for the History of Science*, 1990, **23**: 116-7.

D.S.L. Cardwell, *James Joule: A Biography*, (Manchester, 1989).

Reviewed in *Ambix*, 1990, **37**: 58-9.

André Guillerme, *Le Temps de l'Eau: La Cité, L'Eau et les Techniques: Nord de la France Fin IIIe - Début XIXe Siècle*, (Seysse, 1983) translated into English as *The Age of Water: The Urban Environment in the North of France, A.D. 300-1800*, (College Station, 1988).

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Crosbie Smith and M. Norton Wise, *Energy and Empire: A Biographical Study of Lord Kelvin*, (Cambridge, 1989).

Reviewed in *Notes and Records of the Royal Society of London*, 1991, **5**: 122-4.

Geoffrey Cantor, *Michael Faraday: Sandemanian and Scientist. A Study of Science and Religion in the Nineteenth Century*, (London, 1991).

Reviewed in *The Independent*, 9 July 1991, p. 17

and in *The British Journal for the History of Science*, 1992, **25**: 471-2.

David B. Wilson, *The Correspondence between Sir George Gabriel Stokes and Sir William Thomson, Baron Kelvin of Largs*, (2 volumes, Cambridge, 1990).

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David Gooding, *Experiment and the Making of Meaning: Human Agency in Scientific Observation and Experiment*, (Dordrecht, 1990).

Reviewed in *The British Journal for the History of Science*, 1991, **24**: 386-8.

Brian Bowers and Lenore Symons (editors), *Curiosity Perfectly Satisfied: Faraday's Travels in Europe, 1813-1815*, (London, 1991).

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Sydney Ross, *Nineteenth-Century Attitudes: Men of Science*, (Dordrecht, 1991).

Reviewed in *The British Journal for the History of Science*, 1992, **25**: 485

and in *Education in Chemistry*, 1992, **29**: 179.

John Hedley Brooke, *Science and Religion: Some Historical Perspectives*, (Cambridge, 1991).

Reviewed in *Ambix*, 1992, **39**: 100.

Karl Hufbauer, *Exploring the Sun. Solar Science since Galileo*, Baltimore, (London, 1991).

Reviewed in *Ambix*, 1992, **39**: 155-6.

Menachem Fisch and Simon Schaffer (editors), *William Whewell: A Composite Portrait*, (Oxford, 1991) and Menachem Fisch, *William Whewell: Philosopher of Science*, (Oxford, 1991).

Reviewed in *Victorian Studies*, 1992, **36**: 97-8.

Ryan D. Tweney and David Gooding (editors), *Michael Faraday's 'Chemical Notes, Hints, Suggestions and Objects of Pursuit' of 1822*, (London, 1991).

Reviewed in *The British Journal for the History of Science*, 1993, **26**: 97.

Larry J. Schaaf, *Out of the Shadows: Herschel, Talbot & the Invention of Photography*, (New Haven and London, 1992).

Reviewed in *The British Journal for the History of Science*, 1993, **26**: 246-7.

Kenneth L. Caneva, *Robert Mayer and the Conservation of Energy*, (Princeton, 1993).

Reviewed in *Ambix*, 1994, **41**: 52-3.

David Knight, *Humphry Davy: Science & Power*, (Oxford, 1992).

Reviewed in *The British Journal for the History of Science*, 1994, **27**: 230-1.

Erasmus Bartholin, *Experiments on Birefringent Icelandic Crystal*, translated by Thomas Archibald. Introduction by Jed Z. Buchwald and Kurt Moller Pedersen, with a facsimile of the original publication, (Copenhagen, 1991).

Reviewed in *The British Journal for the History of Science*, 1994, **27**: 366.

Bryan Appleyard, *Understanding the Present: Science and the Soul of Modern Man*, (Paperback edition, London, 1993).

Reviewed in *The British Journal for the History of Science*, 1994, **27**: 488-9.

Marc Rothenberg, et al. (editors), *The Papers of Joseph Henry: Volume 6. January 1844-December 1846. The Princeton Years*, (Washington, 1992).

Reviewed in *Annals of Science*, 1994, **51**: 656-7.

Colin Russell, *Edward Frankland: chemistry, controversy and conspiracy in Victorian England*, (Cambridge, 1996).

Reviewed in *Chemistry and Industry*, 1997, p. 25.

Adrian Jarvis, *Samuel Smiles and the Construction of Victorian Values*, (Stroud, 1997).

Reviewed in *Transactions of the Newcomen Society*, 1998, **69**: 174-5.

Charles Coulston Gillispie, Robert Fox and Ivor Gratten-Guinness, *Pierre-Simon Laplace 1749-1827. A Life in Exact Science*, (Princeton, 1997).

Reviewed in *Ambix*, 1999, **46**: 107-8.

David Knight, *Science in the Romantic Era*, (Aldershot, 1998).

Reviewed in *Ambix*, 1999, **46**: 111-12.

W.H. Brock and A.J. Meadows, *The Lamp of Learning: Two Centuries of Publishing at Taylor & Francis*, (2nd edition, London, 1998).

Reviewed in *Chemistry and Industry*, 1999, pp.885-6.

David Knight and Helge Kragh (editors), *The Making of the Chemist: The Social History of Chemistry in Europe 1789-1914*, (Cambridge, 1998).

Reviewed in *HYLE*, 2000, **6**: 191-193.

John Barrow, *The Book of Nothing*, (London, 2000).

Reviewed in *New Scientist*, 4 November 2000, p.59.

Albert E. Moyer, *Joseph Henry: The Rise of an American Scientist*, (Washington, 1997).

Reviewed in *The British Journal for the History of Science*, 2001, **34**: 107-8.

Frederic L. Holmes and Trevor H. Leveré (editors), *Instruments and Experimentation in the History of Chemistry*, (Cambridge MA, 2000).

Reviewed in *Chemistry in Britain*, February 2001, p.48.

Marc Rothenberg *et al.* (editors), *The Papers of Joseph Henry*. Volume 7. *The Smithsonian Years, January 1847-December 1849*. Volume 8. *The Smithsonian Years, January 1850-December 1853*, (Washington and London, 1996-1998).

Reviewed in *The British Journal for the History of Science*, 2001, **34**: 475-6.

Carsten Reinhardt (editor), *Chemical Sciences in the 20th Century: Bridging Boundaries*, (Weinheim, 2001).

Reviewed in *Chemistry and Industry*, 1 October 2002, pp.27-8.

James Hamilton, *Faraday: The Life*, (London, 2002).

Reviewed in *IEE Review*, 2002, **48**(6): 22.

Myles W. Jackson, *Spectrum of Belief: Joseph von Fraunhofer and the Craft of Precision Optics*, (Cambridge, MA, 2000).

Reviewed in *Journal of the History of the Behavioral Sciences*, 2003, **39**: 309-311.

Colin A. Russell, *Michael Faraday: Physics and Faith*, (New York, 2000) and Ann Fullick, *Michael Faraday*, (Oxford, 2000).

Reviewed in *The British Journal for the History of Science*, 2003, **36**: 98-100.

Lawrence Goldman, *Science, Reform, and Politics in Victorian Britain: The Social Science Association 1857-1886*, (Cambridge, 2002).

Reviewed in *Times Higher Education Supplement*, 4 July 2003.

P.M. Harman, *The Natural Philosophy of James Clerk Maxwell*, (Cambridge, 1998).

Reviewed in *Ambix*, 2003, **50**: 132-3.

Iwan Rhys Morus, *Michael Faraday and the Electrical Century*, (Duxford, 2004).

Reviewed in *Times Higher Education Supplement*, 27 August 2004.

Richard Corfield, *The Silent Landscape: In the Wake of HMS Challenger 1872-1876*, (London, 2004).

Reviewed in *Times Higher Education Supplement*, 14 January 2005.

David Lindley, *Degrees Kelvin: The Genius and Tragedy of William Thomson*, (Washington, 2004).

Reviewed in *Times Higher Education Supplement*, 28 January 2005.

Marc Rothenberg *et al.* (editors), *The Papers of Joseph Henry*. Volume 9. *The Smithsonian Years, January 1854-December 1857*, (Canton, 2002).

Reviewed in *The British Journal for the History of Science*, 2005, **38**: 115-16.

Stephen Brush, *The Kinetic Theory of Gases: An anthology of classic papers with historical commentary*, (London, 2003).

Notes and Records of the Royal Society of London, 2005, **59**: 337-8.

Mary Archer and C. Haley (editors), *The 1702 Chair of Chemistry at Cambridge: Transformation and Change*, (Cambridge, 2005).

Reviewed in *Chemistry and Industry*, 2006, pp.21-2.

Geoffrey Cantor, *Quakers, Jews, and Science: Religious Responses to Modernity and the Sciences in Britain, 1650-1900*, (Oxford, 2005)

Reviewed in *Times Higher Education Supplement*, 13 January 2006.

Steven Brindle (introduction by Dan Cruickshank), *Brunel: The man who built the world*, (London, 2005).

Reviewed in *Times Higher Education Supplement*, 30 June 2006.

Martin Daunton (editor), *The Organisation of Knowledge in Victorian Britain*, (Oxford, 2005),

Reviewed in *Times Higher Education Supplement*, 4 August 2006.

Frederick L. Holmes, Jürgen Renn and Hans-Jörg Rheinberger (editors), *Reworking the Bench: Research Notebooks in the History of Science*, (Dordrecht, 2003).

Reviewed in *Ambix*, 2007, **54**: 89-90.

Theodore M. Porter, *Karl Pearson: The Scientific Life in a Statistical Age*, (Princeton, 2004).

Reviewed in *Victorian Studies*, 2007, **49**: 360-2.

Ralph O'Connor, *The Earth on Show: Fossils and the Poetics of Popular Science, 1802–1856*, (Chicago, 2008) and Bernard Lightman, *Victorian Popularizers of Science: Designing Nature for New Audiences*, (Chicago, 2007).

Reviewed in *Nature*, 2008, **451**: 129-30.

Alan Hirshfeld, *The Electric Life of Michael Faraday*, (New York, 2006).

Reviewed in *Ambix*, 2008, **55**: 178.

Katharine Park and Lorraine Daston (editors), *The Cambridge History of Science: vol. 3, Early Modern Science*, (New York, 2006).

Reviewed in *Medical History*, 2008, **52**: 544-5.

W.H. Brock, *William Crookes (1832-1919) and the Commercialization of Science*, (Aldershot, 2008).

Reviewed in *Chemical Heritage*, 2009, **27**(1): 44.

Guy Ortolano, *The Two Cultures Controversy: Science, Literature and Cultural Politics in Postwar Britain*, (Cambridge, 2009).

Reviewed in *The British Journal for the History of Science*, 2010, **43**: 143-4.

Teaching:

1998-date

Visting Research Fellow in the Science Studies Centre, University of Bath. This involves delivering lectures on science and religion to the MSc in Science, Culture and Communication.

1995-1996

Taught the History, Philosophy and Sociology of Science in the School of Social Sciences, University of Bath, while Dr David Gooding was on study leave.

1986-1999

Visiting Lecturer in History of Physics at Essex University. This came to an end when the Physics Department was closed.

Summer 1986

Lecturer on science in Victorian art and architecture to the Royal Holloway and Bedford College Summer School.

1985-2006

College Lecturer in the History of Technology in the Civil and Environmental Engineering Department at University College London.

January-March 1984

Taught Mathematics, Physics, Astronomy and History of Science for the Marine Society (202 Lambeth Road, London, SE1 7JW) to sailors on board SS Uganda in the South Atlantic between Ascension Island and the Falkland Islands.

1983-1998

Tutor and from 1989 lecturer to the Royal Institution Mathematics Masterclasses.

1976-1981

Took undergraduate tutorial groups in nineteenth century science for the Humanities Department History of Science undergraduate course at Imperial College.

2009

MSc Historic Conservation course, School of the Built Environment, Oxford Brookes University 'Conservation aspects the Royal Institution project'.

2009

40th session of British Studies at St John's College, Oxford on 'Darwin, Science and Religion: How History can help'

2009-

Co-supervisor (with Professor Sharon Ruston, University of Salford) for Whaida Amin's PhD thesis on Davy's poetry.

Page 20 of James's Curriculum Vitae (teaching)

Examining:

1994-1997

Undergraduate external examiner in History of Technology at Imperial College.

1994-1997

Undergraduate examiner in History of Science at the University of Southampton.

1995-1999

Undergraduate external examiner in History of Science at Imperial College.

Also examined doctoral theses at the Universities of Cambridge and Oxford.

Open University:

Preparation of course materials for the new Open University Arts Foundation Course first used in 2008.

Visiting Professorships:

Department of Science and Technology Studies, University College, London, from 2007.

Centro Simão Mathias de Estudos em História da Ciência, São Paulo, autumn 2008.

Professional, committee and administrative activities:

Royal Institution

From 1982-1986 I was the Research Fellow of the Royal Institution Centre for the History of Science and Technology (RICHST). Between 1986 and 1997 I was Lecturer in History of Science before being appointed Reader between 1997 and 2004. Between 1982 and 1998 I was Secretary of the RICHST Steering Committee, latterly an Advisory Committee. This committee was chaired by Dr Frank Greenaway (1982-1984), Professor W.H. Brock (1984-1990) and Dr Sophie Forgan (1990-1998). My academic positions at the Royal Institution have involved organising conferences (for details see below), monthly research seminars, and the general administration of history of science activities including the supervision of research. This latter has included overseeing research workers (either at doctoral or post-doctoral level) based at the Royal Institution with grants from the Fulbright Program, the Wellcome Trust and the Spanish Ministry of Education.

In 1997 I served on the group which reviewed the library of the Royal Institution. From the beginning of 1998 I was appointed Head of Collections and Heritage of the Royal Institution with management responsibility for the library, archive, historic scientific apparatus, scientific instruments, furniture and iconographical collections. This post originally involved overseeing the implementation of the report of the library review group. This included identifying those parts of the collections which have a definable connection with the Royal Institution, preparing the collections to be catalogued electronically, developing a long term conservation programme and working with various archive cataloguing consortia such as AIM25 and A2A. I am also responsible for mounting special exhibitions both of material from the collections and from outside (see below). I frequently make formal and informal presentations about the Royal Institution and its work to a wide range of visitors. The position involves the management of four paid staff and a number of volunteers. As a member of the Senior Management Team of the Royal Institution, I frequently chair lectures and events, as well as speaking at and participating in other events.

In 1999 I oversaw the arrangements for the visit of Her Majesty the Queen and His Royal Highness the Duke of Edinburgh to the Institution on 7 December as part of its bicentenary celebrations. I also played a role in organising other bicentenary events. During 2002 I was responsible for the Royal Institution's contributions to the Golden Jubilee celebrations especially the String of Pearls Festival in London.

Between 1998 and 2008 I was involved in developing plans for a major £23M redevelopment programme for improving the building and infrastructure of the Royal Institution. I was involved with the planning and management processes for this in a number of ways, including being a member of the Client Liaison Team working closely with the architect (Sir Terry Farrell), the conservation architect (Rodney Melville), the Museum Designer (Event Communication Ltd) and the engineers (Faber Maunsell). Specifically, during 2002-2003 I co-authored (with Anthony Peers) the Conservation Plan for the buildings and contents of the Royal Institution and worked on developing the plans for the new museum design. These documents formed part of the Royal Institution's grant application to the Heritage Lottery Fund for nearly five million pounds which was awarded in February 2004. I was then responsible for developing and implementing the programme necessary to prepare the collections for the new Royal Institution for re-opening in September 2008.

COPUS

Between 1989 and 1997 I was the chief Royal Institution representative on the Secretariat and Executive Committee of the joint Committee on the Public Understanding of Science (COPUS) of the Royal Institution, British Association and Royal Society. COPUS was chaired by Professor Lord Porter PRS (to 1989), Sir Walter Bodmer FRS (1990-1993) and Professor Lewis Wolpert FRS (1994-1998). This position involved me in routine committee work, running various COPUS activities (for details see below), as well as being an active

Page 22 of James's Curriculum Vitae (professional, committee and administrative activities)

member of numerous committees connected with it. In particular I served on the Grants Committee which then awarded, under three schemes funded through the Royal Society and the Office of Science and Technology, approximately £350,000 annually. I also served on the Evaluation Committee (chaired by Professor Howard Newby) which oversaw a professional assessment of all COPUS activities. During 1999 I represented the Director of the Royal Institution at a number of COPUS meetings concerned with the process of winding up the committee.

British Society for the History of Science

In addition to editing the Society's *Newsletter*, I was concerned in the organisation of a number of conferences and with other aspects of the Society's activities such as external relations, reviewing the role of the Education Section and chairing the Society's Library Committee. During 2004-2005 I was a member of the Society's business planning group which drew up a new administrative structure for the Society which was approved in June 2005 and as President oversaw its implementation.

Newcomen Society

The Newcomen Society is the premier society in this country for the history of engineering and technology. I have served as a Council Member and as Vice President on the General Purposes and Finance Committee and the Editorial Board which I chaired. I assumed the Presidency of the Society from Sir Neil Cossons in October 2003 and during my two years of office continued with the programme of modernising the Society with which I have been closely connected. This included restructuring committees and streamlining Council. During my second term on Council, I have been chair of the Communications Committee mostly developing a new web presence for the society.

British Association

As Recorder of the History of Science Section from 1992-1997 I was responsible for organising the Section's programme at the Annual Meeting each year. Between 1995 and 1997 I took on a more active role in the planning of the Annual Meeting overall, through membership of the Annual Meeting Advisory Committee, the Programme Executive Committee and serving on Council. For 2009-2010 I am President of the Section.

Network for the History of Science, Technology, Engineering, Mathematics and Medicine

I was Secretary of this group (under a different name) from its foundation, under the chairmanship of Professor John Brooke in 1995, until 1999. In 1998 Professor Geoffrey Cantor took up the chairmanship until 2000 when Professor John Rogers took up the position. The Network draws together representatives of many of the learned societies concerned within the cognate disciplines to discuss matters of mutual interest and to lobby where necessary. I have been Chair since 2005.

International Union for the History and Philosophy of Science, Division of History of Science and Technology

I was elected a member of Council in 2009 for a four year term and am also chair of the National Organising Committee for the 24th International Congress for the History of Science, Technology and Medicine to be held in Manchester in July 2013.

Others

I am also a committee member of the Leonardo da Vinci Society, the Society for the History of Alchemy and Chemistry and the Historical Group of the Royal Society of Chemistry. I am also a director of the web-based Engineering Time Lines and have been particularly active in working on material relating to science and engineering.

Research Assistant Positions:

1976-1978

Assistant half-time editor on volumes four and five of the *ISIS Cumulative Bibliography* (5 volumes, London, Mansell) edited by Mrs Magda Whitrow.

Summer 1978

Research assistant to Professor E.J. Forbes (Edinburgh University) working on the Flamsteed Sharp correspondence for the *Correspondence of John Flamsteed*, (2 volumes and continuing, Bristol, Institute of Physics Publishing, 1995-).

Summer 1979

Research assistant to Dr M.B. Hall on the later volumes of the *Correspondence of Henry Oldenburg*.

1981-1982

Honorary Associate of the University of London Institute of Education in the Science Education department, researching, with Professor Roy MacLeod, into social and historical aspects of science in the secondary school curriculum.

1983

Sub-edited and proof read Mario Morselli, *Amedeo Avogadro*, (Dordrecht, Riedel, 1984).

Lectures, Conference and Seminar Presentations:

Special lectures:

University of Adelaide, public lecture (2009)

Michael Faraday and Invisible Forces in the Nineteenth Century

British Council, St John's Cathedral, Hong Kong, Darwin Now programme (2009)

Darwin, Science and Religion ó how history can help

Presidential Address to the British Society for the History of Science, delivered at the BSHS Annual Meeting in Manchester (2007)

Putting history of science to use: Michael Faraday in the twentieth century

Presidential Address to the Newcomen Society delivered as a joint event at the Royal Institution (2004)

Humphry Davy: How Science becomes Technology.

This was later repeated during 2004 and 2006 at meetings of the branches of the Newcomen Society in Birmingham, Newcastle, Edinburgh, Manchester and Bristol.

The Earnshaw Lecture of Queen's University, Belfast (2004)

Visualising the World ó where science and art meet.

To the meeting arranged on the occasion of the first meeting to be held in England of the IEEE Board of Directors (1999):

Michael Faraday and American Science.

Evening lecture at the Joseph Henry Bicentennial meeting held at the State University of New York, Albany (1997):

Joseph Henry and Michael Faraday: Connections and Comparisons.

Friday Evening Discourse to the Royal Institution (1996):

Faraday in the Pits, Faraday at Sea.

Page 26 of James's Curriculum Vitae (lectures, conference and seminar presentations)

Public Lecture to the University of Kent at Canterbury (1991):

Michael Faraday as an Experimentalist: An Illustrated Lecture.

Conference and seminar papers:

I read one paper (related to my thesis work) each term from 1978-1982 to the History of Science research seminar at Imperial College.

1981

To the 16th International Congress of the History of Science in Bucharest. (Attendance at this meeting was supported by a Royal Society grant):

Thermodynamics and Solar Theories, 1846-1862.

Abstract in *Proceedings I*, 142.

The Establishment of Spectro-Chemical Analysis as a Practical Method of Qualitative Analysis, 1858-1861.

Abstract in *Proceedings I*, 185.

1982

To the University of London Institute of Education English Department research seminar:

The Perception and the Use of Language Between Different Disciplinary Areas: Science and Political Philosophy in the Nineteenth Century.

To the Birkbeck College Crystallography Department research seminar:

The Physical Interpretation of the Undulatory Theory of Light: Euler, Young and Fresnel.

1983

To the British Society for the History of Science meeting on 'William Crookes, Science and Pseudo Science in Victorian Britain'

Crookes's Early Spectro-Chemical Work.

To the Science Studies Centre, University of Bath:

The Historiography of Spectroscopy.

To the Photochemistry Discussion Group, Davy-Faraday Laboratory, the Royal Institution:

Themes and Sub-themes in 19th Century Spectroscopy.

Page 27 of James's Curriculum Vitae (lectures, conference and seminar presentations)

To the joint British Society for the History of Science and Société Française d'Histoire des Sciences et des Techniques meeting 'The Discovery of the Earth' in Paris:

The Extension of Terrestrial Chemistry in the Mid-Nineteenth Century: Spectro-Chemical Analysis and the Composition of the Solar System.

To the RICHST research seminar:

The Diary of Herbert McLeod.

1984

To the British Society for the History of Science meeting on 'New Perspectives in Nineteenth Century Science'

The Creation of a Victorian Myth: The Historiography of Spectroscopy.

To the RICHST three day conference 'Faraday Rediscovered'

'The Optical Mode of Investigation': Light and Matter in Faraday's Natural Philosophy.

To the Royal Society of Chemistry Historical Group (RSCHG) meeting held to mark the closure of the Exhibition 'The Celebrated Phaenomena of Colours' at the Whipple Museum Cambridge:

Spectroscopy in Britain, 1860-1870.
Abstract in *RSCHG Newsletter* 8, 8-9.

1985

To the 17th International Congress of the History of Science in Berkeley. (Attendance at this meeting was supported by a Royal Society grant):

Professional Scientists and the Scientists' Declaration: The Case of Herbert McLeod.
Abstract in *Acts* I, Xb.

To the joint British Society for the History of Science and British Sociological Association meeting 'The Uses of Experiment: Experimentation in the Natural Sciences' in Bath:

The Practical Problems of 'New' Experimental Science: Spectro-chemistry in 1860s Britain.
Abstract p31-4 in the conference abstracts.

1986

To the Royal Institution Centre for the History of Science and Technology research seminar:

Spectro-chemistry in Britain, 1860-1869.

Page 28 of James's Curriculum Vitae (lectures, conference and seminar presentations)

To the Society for the History of Alchemy and Chemistry meeting 'The History of Spectroscopy'

The Practical Problems of 'New' Experimental Science: Spectro-chemistry and the Search for Hitherto Unknown Chemical Elements in Britain 1860-1869.

To the joint RICHST and British Society for the History of Mathematics meeting 'Ampere, Faraday and Maxwell: Three Founders of Electromagnetism'

Faraday and Electro-chemistry: His Quantitative Approach.

1987

To the Imperial College Humanities Department Research Seminar:

Religion, Science and Controversy in the 1860s: The Experience of Herbert McLeod.

To the University of Surrey meeting on the History of Technology:

Teaching the History of Technology.

To the Joint Royal Institution Centre for the History of Science and Technology and Institution of Electrical Engineers meeting '150 Years of the Electric Telegraph'

Wheatstone's early scientific work and its context.

Text in *Papers presented at the Sixteenth IEE Week-end meeting on the History of Electrical Engineering*, p.62-9.

1988

(*In absentia*) To the American Chemical Society Symposium on the History of Electrochemistry, Toronto:

How context develops new knowledge: Michael Faraday's first law of electro-chemistry.

To the joint British Society for the History of Science and History of Science Society meeting, Manchester:

The Sacralisation of Science: The Scientists' Declaration, 1864-5.

Text in *Program, Papers and Abstracts for the Joint Conference*, pp.453-60.

(Poster) The Correspondence of Michael Faraday.

1989

To the Institute of Physics meeting the 'Life and Work of James Prescott Joule' Manchester:

Prelude to Astrophysics: Meteors in the 1840s and '50s.

Page 29 of James's Curriculum Vitae (lectures, conference and seminar presentations)

To the 18th International Congress of the History of Science in Hamburg and Munich. (Attendance at this meeting was supported by a Royal Society grant):

Michael Faraday's International Scientific Relationships.
Abstract in *Congress Abstracts* K1/1.

1990

To the Imperial College Humanities Department Research Seminar:

Davy and Faraday as Military Men of Science.

To the Science Museum London Seminar on the History and Public Understanding of Science:

Science, Technology and the Military-Industrial Complex in the 1820s and early 1830s: Humphry Davy, Michael Faraday and the Royal Society.

To the University of Leeds Philosophy Department Seminar:

Michael Faraday (1791-1867) as a Natural Philosopher.

To the University of Cambridge History and Philosophy of Science Department Seminar:

Science, Technology and the Military in the 1820s and early 1830s: Humphry Davy, Michael Faraday and the Royal Society.

1991

To the Royal Society of Arts History Study Group -Symposium on Education Themes - Georgian and Victorian Times

Michael Faraday (b. 1791) and the Society.

To the History of Chemistry Section of the American Chemical Society National Meeting in Atlanta:

Chemistry and the Military in the 1820s and Early 1830s: Davy, Faraday and the Royal Society.
This paper was also given at Faraday '91 at Bowling Green State University.

To the joint British Society for the History of Science, British Society for the History of Mathematics and Newcomen Society -Babbage-Faraday Bicentenary Conference at St John's College Cambridge:

Short-termism versus Research: Faraday and the Admiralty in the 1820s.
Abstract in *Transactions of the Newcomen Society*, 1991, **62**: 152.

Page 30 of James's Curriculum Vitae (lectures, conference and seminar presentations)

To the British Association at Plymouth, History of Science Section:

Davy and Faraday's Later Relations: Science, Technology and the Military in the 1820s.

To the Faraday Symposium of the Historical Commission of the Royal Netherlands Chemical Society at the Museum Boerhaave, Leiden:

The Integral Role of Chemistry in the Work of Michael Faraday.

To Battery Division of the American Electrochemical Society meeting in Phoenix:

Michael Faraday's Work on Electro-Chemistry.

To the History of Science Seminar of the History Department of the University of California at Santa Barbara:

The Relationship between State and Private Science: The case of Michael Faraday, 1791-1867.

To the Department of Physics, University of Michigan:

The Relations between Michael Faraday's Chemical and Electrical Work.

This paper was also given to the Department of Electrical Engineering at the University of Michigan.

To the Psychology Department of Bowling Green State University:

Possible roles for Cognitive Psychology in the History of Science and Technology.

To the RICHST Research Seminar:

Davy in the Dockyard: Humphry Davy, the Royal Society and the Electro-chemical protection of the Copper Sheeting of His Majesty's Ships in the mid 1820s.

To The Royal Institution Davy-Faraday Laboratory Research Group Seminar:

Michael Faraday, His Life, Work and Letters.

1992

To The Society for the History of Alchemy and Chemistry conference on "August Wilhelm von Hofmann (1818-1892) in England"

Chemistry and Christianity at the Royal College of Chemistry in the mid 1860s.

Page 31 of James's Curriculum Vitae (lectures, conference and seminar presentations)

To the seminar of the Department of History and Philosophy of Science, University College, London:

Science and Religion in the 1860s.

1994

To the Centre for the History of Technology at the University of Bath:

Chemistry and Christianity at the Royal College of Chemistry in the 1860s.

To the British Society for the History of Science meeting on neglected figures in the history of science:

J.J. Waterston.

To the RICHST Three day meeting -Science and its Publics in Britain, 1851-1914-

Of Apes and Grandparents: The Clash between Samuel Wilberforce and Thomas Henry Huxley over Charles Darwin's Theory of Natural Selection at the 1860 Meeting of the British Association at Oxford.

To the Conservation Group of the Historic Royal Palaces Agency at Hampton Court Palace:

Michael Faraday and Environmental Science.

1995

To the Edinburgh International Science Festival Symposium -Maxwell and his Circle-

Maxwell and Faraday.

To Royal Society of Chemistry Meeting -Imperial Chemistry- held at Imperial College to make the 150th anniversary of the founding of the Royal College of Chemistry:

Religion at the Royal College of Chemistry in the mid 1860s: -The Declaration of Students of the Natural and Physical Sciences-.

To the Royal Pharmaceutical Society and British Society for the History of Pharmacy Joint Evening Meeting:

Professional Interactions: The London Pharmaceutical Community in the Life and Work of Michael Faraday (1791-1867).

1996

To the Library Circle of the Athenaeum:

Humphry Davy, Michael Faraday and the Founding of the Athenaeum.

To the Department for Continuing Education, Kellogg College, Rewley House, University of Oxford:

Science at Sea, Science in the Pits: Faraday's Work for the State.

To the Institution of Electrical Engineers:

Faraday at Sea: The Electrification of Lighthouses.

To the 3rd British - North American Meeting of the British Society for the History of Science, the History of Science Society and the Canadian Society for the History and Philosophy of Science 'Crossing Boundaries' in Edinburgh:

Science in the Pits.

To the British Society for the History of Science, Newcomen Society and the Royal Society of Arts, 'Semaphores to Short Waves: A Conference on the Technology and Impact of Early Electrical Communications' held at the Royal Society of Arts:

Faraday, Maxwell and Field Theory.

To the Society for the History of Technology visit to the Royal Institution:

The relations of Science and Technology: Crucial Experiments at the Royal Institution.

To the British Association meeting at Birmingham, History of Science Section:

The Huxley-Wilberforce Debate Revisited.

1997

To the West of England Branch of the Institution of Electrical Engineers at the Camborne School of Mines:

Faraday at Sea: The Electrification of Lighthouses.

To the RICHST research seminar:

The Huxley-Wilberforce Debate at the 1860 Oxford Meeting of the British Association.

Page 33 of James's Curriculum Vitae (lectures, conference and seminar presentations)

To the Southern Panel Luncheon Club of the Institution of Mechanical Engineers:

The Other Faraday.

To the British Society for the History of Science conference 'The Electron: 100 years of Physics and History'

Electricity without Electrons: The Work of Michael Faraday.

To the Golden Age Project of the History Workshop at Nottingham Trent University:

Faraday and Lighthouses.

To the Highgate Literary and Scientific Institution:

Science, Technology and the State: The case of Michael Faraday (1791-1867).

1998

To the RICHST Research seminar:

Faraday and Lighthouses.

To the Austrian Cultural Institute:

Faraday's theory of matter.

To the RICHST 'Fields of Influence' seminar:

A Unique Genre? Harriet Jane Moore and her 1852 watercolours of Faraday's Royal Institution Laboratories.

To the Royal Society of Arts historical symposium 'The Spirit of Improvement'

'The application of Science to the common Purposes of Life' The Royal Institution, Humphry Davy, Michael Faraday and the rise of public science.

To the Batti-Wallah's Society:

Faraday and the Electrification of Lighthouses.

To the Institute of Physics meeting, 'Electromagnetic field, Past and Present'

Faraday and Field Theory.

Page 34 of James's Curriculum Vitae (lectures, conference and seminar presentations)

To the Modern History Faculty, University of Oxford:

Where science, technology and the state met: The lighthouse service in nineteenth century Britain.

1999

To the Newcomen Society:

the civil-engineer's talent: Michael Faraday, science, engineering and the English lighthouse service, 1836-1865.

To the RICHST, BSHS, IEE meeting "200 years of electricity" held at the Royal Institution:

Faraday and the Electric Illumination of Lighthouses, 1850-1865.

To the Institute of Physics meeting "Aspects of the Relationship between Physics and Religion" held in London:

Faraday, natural philosophy and the Sandemanians.
This presentation was repeated at a similar meeting in Edinburgh.

To the RICHST Research seminar:

Presidents, Secretaries, Managers and Members: Faraday as an administrator at the Royal Institution.

To the Workshop meeting of the Golden Age History project at Nottingham Trent University:

Faraday and lighthouses.

To the History of Science Section of the British Association:

Faraday and Technology.

To the History of Science Section of the British Association:

Presidents, Secretaries, Managers and Members: Faraday as an administrator at the Royal Institution.

To "An afternoon at the Royal Institution" at the British Association:

History of Science at the Royal Institution.

To the Mill Hill Historical Society:

The Royal Institution: 200 years of scientific discovery and communication.

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To the SE Ceramics Group meeting at the Royal Institution:

Faraday as a Materials Scientist.

2000

To the University of Leeds 'Science in the Nineteenth-Century Periodical' conference:

Reporting Royal Institution Lectures.

To the British Society for the History of Science 'Science Communication, Education and the History of Science' conference held at the Royal Society:

What can we learn from the experience of the Royal Institution.

To the fourth British-North American Joint Meeting of the BSHS, CSHPS and HSS held at St. Louis:

Harriet Moore, Michael Faraday and her Watercolours of the Interior of the Royal Institution.

To the British Association 'Creating Sparks' festival at Imperial College:

Faraday and Field Theory.

To the British Society for the History of Science meeting 'Ideas whose time had come' held at the Royal Institution:

Experiments whose time had come: The case of Michael Faraday.

To the Cuming Museum:

A Man of Science: Michael Faraday.

To the Borders of Faith and Science lectures to mark the 140th anniversary of the Wilberforce/Huxley encounter held in the University Museum, Oxford:

Science and Religion at the Royal College of Chemistry: The Declaration of the Students of the Natural Science, 1864-65.

To the Royal Society of Arts:

The life and electrical work of William Sturgeon.

To the Rumford Club:

The life and work of Michael Faraday.

2001

To the National Maritime Museum's Open Museum Course 'The Man who Divided the World: The Life and Time of George Biddell Airy'

Airy and Faraday: Contrasts in Scientific Style.

To the Royal Institution's meeting 'Electricity and Life: Galvani to Hodgkin'

Davy, Faraday and electric fish.

To the Friends of West Norwood Cemetery:

William Thomas Brande FRS, chemist.

To Royal Institution, Royal Society of Chemistry Historical Group and the Society for the History of Alchemy and Chemistry joint meeting 'History of Electro-chemistry'

'A model to teach him what he should avoid' Faraday and Davy's electro-chemistry.

To the St John's College, Annapolis, conference 'Michael Faraday: The Experimental Life'

'To command nature, obey her laws' Faraday's Career as a Scientific Advisor.

To the DFT for the Study of Complex Oxides held at the Royal Institution:

Michael Faraday and the early history of scientific discovery at the Royal Institution.

To the Ice Cream Sunday event held at the Royal Institution:

A recreation of a lecture by James Dewar.

To the Victoria and Albert Museum's lecture short course 'The Victorians: makers of the modern world'

The Evolution Debate.

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To the Royal Institution meeting "Inspirational landscapes: journeys that changed the world"

Davy and Faraday on the Continent (1813-1815).

To the "Making of the Spectroscope" workshop at the Deutsches Museum, Munich:

How Comte was proved wrong: The development of spectro-chemistry and its early application to the study of the stars.

To the "Meshing science with society at the Royal Institution" session at the British Association in Glasgow:

Science and society: a 200-year-old theme at the RI.

To the IX Convegno Nazionale di Storia e Fondamenti della Chimica at Modena:

Humphry Davy, Michael Faraday and Italian Science.

2002

To the "Science and Beliefs: From Natural Philosophy to Natural Science" meeting at the University of Durham:

Of Apes and Grandparents: Wilberforce and Huxley at the British Association, Oxford 1860.

To the seminar of the History of Science Program at the University of Minnesota, Minneapolis:

An "open clash between Science and the Church": Wilberforce and Huxley at the British Association, Oxford, 1860.

To the "Taming the Electrical Fire: A Conference on the History and Cultural Meaning of the Lightning Rod" meeting at the Bakken Library and Museum, Minneapolis:

Michael Faraday, William Snow Harris and Lightning Rods.

To the History of Science Society annual meeting at Milwaukee:

Visiting the Enemy: Humphry Davy in Napoleon's Europe, 1813-1815.

2003

To the Royal Society of Medicine History of Medicine Group:

The Royal Institution: Two Centuries of Science and Society

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To the 'Fast, faster, fastest: Nobel Laureates in chemical kinetics' joint meeting of the Royal Institution and Historical Group of the Royal Society of Chemistry:

The life and works of George Porter

2004

To the Probus Club of Beaconsfield:

Michael Faraday

To the 'West Country Science' session at the British Association in Exeter:

William Snow Harris, Plymouth Science and the Introduction of Lightning Conductors

2005

To the South Place Ethical Society:

Huxley-Wilberforce Revisited

To the 'Irish Science' session at the British Association in Dublin:

Wresting Science from Theologians

To the University of Melbourne History and Philosophy of Science departmental seminar:

Life and work of Michael Faraday

To special seminar on the Braggs held at East Terrace, Adelaide

The Royal Institution and the Braggs

2006

To the Modern History Faculty, University of Oxford:

Faraday and Fame

To the University of Birmingham, Darwin Day:

Wilberforce -v- Huxley ó myth or reality?

Indian Institute of Science Centre for Contemporary Studies.

The Royal Institution, 1799-2007

To the 'Images of Science' session at the British Association in Norwich

Images of Faraday in the Twentieth Century

The British Society for the History of Science's conference 'Scientists and Social Commitment'

Celebrating Faraday, Commodifying Electricity

2007

To the History Faculty, University of Oxford:

Humphry Davy Travelling in Napoleonic Europe

To the Royal Institution

Faraday in the twentieth century

2008

To the Max Planck Institut für Wissenschaftsgeschichte, Berlin

Intellectual property issues in the history of science.

To the Institution of Engineering and Technology

Fame and Faraday: Michael Faraday in the Twentieth Century

Birkbeck College on 'Science for a Better World: The Contemporary Relevance of J.D. Bernal'

The image of science produced by electrification propaganda in the 1930s

To the BSHS-HSS-CSHPS 6th joint meeting 'Connecting Disciplines' held at Keble College, Oxford

'Its present state is not wholesome' Humphry Davy, Michael Faraday and the Royal Society after Joseph Banks

2009

To the British Society for the History of Radiology

Michael Faraday and Invisible Forces in the Nineteenth Century

To the ICOMOS-UK meeting, 'World Heritage and Science'

The Royal Institution

To the Royal Institution

Conservation Science in Context: Humphry Davy and the Herculaneum Papyri

Given later to British Society for the History of Science, Annual Meeting, Leicester, the XXIIIrd International Congress for the History of Science and Technology, Budapest and Centre for the History of Science, Technology and Medicine seminar, Imperial College

2010

Royal Society of Chemistry Historical Group meeting on the history of ICI,

Ludwig Mond & other Monds (Science & the Arts)

To the University of Leeds Tyndall symposium

Father, Son, Brother, Colleagues?: Michael Faraday and John Tyndall

To the University of Cambridge CRASSH meeting -William Henry Fox Talbot: Beyond Photographyø

Images of Faraday: Photography at The Royal Institution of Great Britain

Other presentations:

I have given talks on Faraday and other aspects of my work to a wide variety of non-specialised audiences, including schools. These include branches of the Historical Association, the Institute of Physics and the Royal Society of Chemistry, the lunch hour lecture programme of the Department of Humanities, Imperial College, the Physics Society of Birkbeck College, to the Casual Club, the Library Discussion Group of the Royal Institution, the Physics Education Centre of the University of Kent, the Maxwell Society of Kingø College London, the Physics Education Centre of the University of Essex, the Continuing Education Centre of Surrey University, the Hampstead Scientific Society and its Highgate and Sidcup equivalents, the Oxford Branch of the British Association, the Kingston Explorers Club, the Surrey Industrial History Group, the Worshipful Company of Scientific Instrument Makers the Rumford Club and to various groups at the Royal Institution.

I talked on the South Atlantic to the Abbey Community Centre Westminster (twice), the Royal Overseas League (twice), the Library Discussion Group of the Royal Institution, the English Speaking Union and in the lunch hour lecture programme of the Department of Humanities, Imperial College.

In 2008 I participated in workshop on the history of cold (including giving a talk on Faradayø work on the liquefaction of gases) at the Lorentz Centre in Leiden.

Exhibitions:

With Dr Richard Rusby of the National Physical Laboratory I arranged a display on the life and work of Fahrenheit for the Royal Society Conversazioni in 1986.

For the Royal Institution I have mounted exhibitions on the Royal Family and the Royal Institution (twice), on scientific research at the Royal Institution, on women in science and on the patrons of the Royal Institution, molecular biology at the Royal Institution and on Tom Wedgwood.

Radio and Television:

I have taken part in many radio and TV programmes and interviews including participating on a number of occasions in Lord Bragg's Radio 4 series, 'In Our Time' and talking about Faraday and on Maxwell for the BBC World Service and. The text of the latter is in *They Made our World* (London, 1989), pp.31-5. I have also talked on Faraday on BBC Radio 4 and on the relationship between science and religion to BBC Radio Shropshire. I participated in the Open University's 'Was anyone there?' television programme made in 1997 and took part in the Colin Bell discussion programme for BBC Radio Scotland on the topic of art and science. In 1998 did an interview with Finnish radio on Faraday and was interviewed by Professor Steve Jones on Faraday, science and art for a Proms interval programme. In 1999 I contributed to a Channel 4 documentary on Faraday and to a short programme on Davy for BBC West. In 2002 I talked on the BBC World Service on the history of communications and globalisation and on William Robert Grove for BBC Wales. In 2009 I talked about Darwin on Hong Kong's Radio 3 morning programme. During 2006 worked with Lord Bragg on his TV series 'Twelve Books that Changed the World' which included Faraday's 'Experimental Researches in Electricity'

Meetings and conferences organised:

For the Royal Institution:

31 October 1983

Joint meeting with the British Society for the History of Science on 'Postgraduate Work in Progress in Great Britain' (Organised with Dr Bernard Norton).

7-9 December 1983

'Pliny's Natural History: Its Origins and Influence' (Organised with Dr Frank Greenaway).

13 January 1984

'The Lives and Works of William and Lawrence Bragg'

19-21 September 1984

'Faraday Rediscovered' (Organised with Dr David Gooding).

31 October 1984

Joint meeting with the British Society for the History of Science on 'Postgraduate Work in Progress in Great Britain' (Organised with Dr Bernard Norton).

20 June 1986

Joint meeting with the British Society for the History of Mathematics on 'Ampere, Faraday and Maxwell: Three Founders of Electromagnetism' (Organised with Dr Ivor Grattan-Guinness).

17-19 September 1986

'Laboratories: The Place of Experiment'

16-18 September 1987

'The Birth of Modern British Medicine, c1760 to c1840' (Organised with Dr W.H. Brock, Dr Andrew Wear and Dr Roger French).

26 October 1987

Joint meeting with the British Society for the History of Mathematics on the 'Michelson-Morely Experiment'

28 October 1987

Joint meeting with the Institution of Electrical Engineers on '150 Years of the Electric Telegraph' (Member of organising committee).

7-8 January 1988

Joint meeting with the British Society for the History of Science on 'Anglo-Australian Science, 1788-1988' (Organised with Dr W.H. Brock).

26 October 1988

Joint meeting with Institute of Physics Historical Group on 'Chapters in the History of Low Temperature Physics' (Organised with Dr Raj Williamson).

17 March 1993

'History of the Davy-Faraday Laboratory'

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21-23 September 1994

-Science and its Publics, 1851-1914ø

18-19 January 1996

-Frankenfestø This meeting was supported by COPUS. (Member of organising committee).

28 April 1998

-Fields of Influenceø RICHST seminar. This meeting was organised with James Hamilton and supported by the University of Birmingham.

7 April 1999

-200 Years of Electricityø This meeting was organised jointly with the British Society for the History of Science and the Institution of Electrical Engineers.

27 April 1999

-Michael Faraday: Fullerian Professor of Chemistryø This meeting was organised jointly with the History Group of the Royal Society of Chemistry.

9 November 1999

Discussion Evening on Science and Religion.

15 September 2000

-Ideas whose time had comeø This meeting was held jointly with the British Society for the History of Science and marked the 80th birthdays of Marie and Rupert Hall.

14 November 2000

Discussion Evening on Science and Literature.

14 March 2001

-Electricity and Life: Galvani to Hodgkinø This meeting was organised with Professor Richard Keynes and supported by the Wellcome Trust.

23 March 2001

-History of Electro-chemistryø This meeting was organised jointly with the Royal Society of Chemistry History Group and the Society for the History of Alchemy and Chemistry.

28-29 April 2003

-Molecular Biology in the 20th Centuryø This meeting is organised jointly with the Wellcome Trust Centre for the History of Medicine at University College, London, and the Rockefeller Archive Center.

15 July 2003

-Reconstructions in the history of science and technologyø This meeting was organised jointly with the Leonardo da Vinci Society.

28 October 2003

-Fast, faster, fastest: Nobel Laureates in chemical kineticsø This meeting was organized jointly with Historical Group of the Royal Society of Chemistry.

12 May 2005

-Wedgwood and his Circle: Early Photography in its Cultural Settingø This meeting was organized with Dr Alan Barnes, with the support of the Wedgwood Museum.

For COPUS

12-14 July 1995

Joint meeting with the Association of Art Historians and the British Society for the History of Science on the, ~~–~~The Visual Culture of Art and Science from the Renaissance to the Present~~ø~~held at the Royal Society. (Member of the organising committee with special responsibility for finance).

For the British Society for the History of Science:

17-20 July 1990

~~–~~The Scientific Revolution: Science, Technology and Medicine in the Early Modern Period~~ø~~at Keble College, Oxford. (Convener and joint secretary of the organising committee). This meeting was held to mark the 70th birthday of Rupert Hall.

5-7 July 1991

Joint meeting with the Newcomen Society and the British Society for the History of Mathematics, ~~–~~Babbage-Faraday Bicentenary Conference~~ø~~held at St John~~ø~~ College Cambridge. (Member of organising committee).

14 November 1992

~~–~~Astronomy in Nineteenth Century Britain~~ø~~held at the National Maritime Museum, Greenwich. (Organised with Dr Mari E.W. Williams).

3 June 1995

~~–~~Writing Scientific Biographies~~ø~~held at King~~ø~~ College, London.

29 July 1996

Joint meeting with the Newcomen Society and the Royal Society of Arts, ~~–~~Semaphores to Short Waves: A Conference on the Technology and Impact of Early Electrical Communications~~ø~~held at the Royal Society of Arts. (Member of the organising committee).

9-11 September 1997

50th Anniversary meeting at Leeds. (Member of the organising committee).

For the History of Science Society and the Society for the History of Technology:

30 October-3 November 1991

Co-organiser, chair and co-discussant of the Michael Faraday Bicentenary Evening held at the joint annual meetings of the Societies at Madison.

For the Newcomen Society:

19-21 September 2000

~~–~~Engineering the Millennium~~ø~~ held in the Science Museum.

Privately:

22-23 September 2010

Memorial meeting for David Gooding, organised with Ryan Tweney.