

# Curriculum Vitae

## Bruce J. Hunt

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### Education

- 1984 Ph.D., Department of the History of Science, Johns Hopkins University, Baltimore.  
1979 B.A. (History) and B.S. (Physics), *magna cum laude*, University of Washington, Seattle.

### Academic appointments

- 1992– Associate professor, History Department, University of Texas at Austin.  
1985–92 Assistant professor, History Department, University of Texas at Austin.  
1984 Instructor, History of Science Department, Johns Hopkins University.

### Books

- 2021 *Imperial Science: Cable Telegraphy and Electrical Physics in the Victorian British Empire* (Cambridge: Cambridge University Press).  
2010 *Pursuing Power and Light: Technology and Physics from James Watt to Albert Einstein* (Baltimore: Johns Hopkins University Press).  
1991 *The Maxwellians* (Ithaca, NY: Cornell University Press); paperback, 1994; reissued, 2005; Portuguese translation, *Os Seguidores de Maxwell*, published by Editora Universidade Federal de Minas Gerais, Belo Horizonte, Brazil, 2015.

### Scholarly articles

- 2020 “The Alternative Path: Oliver Lodge’s Lightning Lectures and the Discovery of Electromagnetic Waves,” in James Mussell and Graeme Gooday (eds.), *A Pioneer of Connection: Recovering the Life and Work of Oliver Lodge* (Pittsburgh: University of Pittsburgh Press, 2020), pp. 71–86.  
2018 “Imperial Science: Victorian Cable Telegraphy and the Making of ‘Maxwell’s Equations,’” *Proceedings of the Institute of Electrical and Electronics Engineers* 106: 1458–65.  
2015 “Maxwell, Measurement, and the Modes of Electromagnetic Theory,” *Historical Studies in the Natural Sciences* 45: 303–39.  
2014 Article on “Albert Abraham Michelson,” in Hugh R. Slotten (ed.), *Oxford Encyclopedia of the History of American Science, Medicine, and Technology* (Oxford: Oxford University Press), 2: 93–94.  
2012 “Oliver Heaviside: A First-Rate Oddity,” *Physics Today* (November) 65: (11) 48–54.

- 2007 “‘Our Friend of Brilliant Ideas’: G. F. Fitzgerald and the Maxwellian Circle,” *European Review* 15: 531–44; repr. in Denis Weaire (ed.), *George Francis Fitzgerald* (Pöllauberg, Austria: Living Edition, 2009), 29–42.
- 2004 Articles on “George Francis FitzGerald,” “Oliver Heaviside,” “Sir William Henry Preece,” “Cromwell Fleetwood Varley,” and “Edward Orange Wildman Whitehouse,” in the *Oxford Dictionary of National Biography* (Oxford: Oxford University Press).
- 2004 Articles on “Latimer Clark,” “George Francis FitzGerald,” and “Oliver Heaviside,” in Bernard Lightman (ed.), *Thoemmes Dictionary of Nineteenth Century British Scientists* (Bristol: Thoemmes Continuum Press).
- 2003 Article on “A. A. Michelson,” in J. L. Heilbron (ed.), *Oxford Companion to the History of Modern Science* (Oxford: Oxford University Press), 521–22; repr. in Heilbron (ed.), *Oxford Guide to the History of Physics and Astronomy* (Oxford: Oxford University Press, 2005), 216–17.
- 2003 “Electrical Theory and Practice in the Nineteenth Century,” in Mary Jo Nye (ed.), Volume V., *Modern Physical and Mathematical Sciences*, 311–27, of David C. Lindberg and Ronald L. Numbers (eds.), *The Cambridge History of Science* (Cambridge: Cambridge University Press).
- 2002 “Lines of Force, Swirls of Ether,” in Bruce Clarke and Linda Dalrymple Henderson (eds.), *From Energy to Information: Representation in Science, Art, and Literature* (Stanford: Stanford University Press), 99–113.
- 1998 “Insulation for an Empire: Gutta-Percha and the Development of Electrical Measurement in Victorian Britain,” in Frank A.J.L. James (ed.), *Semaphores to Short Waves* (London: Royal Society of Arts), 85–104.
- 1997 “Doing Science in a Global Empire: Cable Telegraphy and Victorian Physics,” in Bernard Lightman (ed.), *Victorian Science in Context* (Chicago: University of Chicago Press), 312–33.
- 1996 “Scientists, Engineers and Wildman Whitehouse: Measurement and Credibility in Early Cable Telegraphy,” *British Journal for the History of Science* 29: 155–70.
- 1994 “The Ohm is Where the Art Is: British Telegraph Engineers and the Development of Electrical Standards,” *Osiris* 9: 48–63.
- 1991 “Michael Faraday, Cable Telegraphy, and the Rise of British Field Theory,” *History of Technology* 13: 1–19.
- 1991 “Rigorous Discipline: Oliver Heaviside versus the Mathematicians,” in Peter Dear (ed.), *The Literary Structure of Scientific Argument: Historical Studies* (Philadelphia: University of Pennsylvania Press), 72–95.
- 1988 “The Origins of the FitzGerald Contraction,” *British Journal for the History of Science* 21: 67–76.
- 1987 “‘How My Model Was Right’: G. F. FitzGerald and the Reform of Maxwell’s Theory,” in Robert Kargon and Peter Achinstein (eds.), *Kelvin’s Baltimore Lectures and Modern Theoretical Physics: Historical and Philosophical Perspectives* (Cambridge: MIT Press), 299–321.

- 1986 “Experimenting on the Ether: Oliver J. Lodge and the Great Whirling Machine,” *Historical Studies in the Physical and Biological Sciences* 16: 111–34.
- 1983 “‘Practice vs. Theory’: The British Electrical Debate, 1888–1891,” *Isis* 74: 341–55.

### **Popular articles**

- 2004 “Lord Cable,” *Europhysics News* (November/December) 35: 186–88; Valencian (Catalan) translation published in *Dau Al Deu: Rivista de Divulgacio Cientifica i Tecnologica* (Summer 2018) 37–39.
- 1999 “L’empire du câble,” *Les Cahiers de Science et Vie* (April) 58–63.
- 1995 “The Scientific Revolution,” lecture at Dec. 1994 Austin meeting of the Philosophical Society of Texas, published in *Proceedings of the Philosophical Society of Texas* 58: 81–87.
- 1995 “Un débat sur la nature de la lumière,” *Les Cahiers de Science et Vie* (Feb.) 24–28.
- 1993 “La moisson des Maxwelliens,” *Les Cahiers de Science et Vie* (Oct.) 62–70.

### **Essay review**

- 2012 “Victorian Physics meets Industrial Capitalism”: retrospective essay review of Crosbie Smith and M. Norton Wise, *Energy and Empire: A Biographical Study of Lord Kelvin* (1989; 2009), in *Metascience* 21: 119–24.

### **Book reviews**

Since 1986, I have reviewed over fifty books for *Isis*, *Science*, *British Journal for the History of Science*, *Technology and Culture*, *Physics Today*, *American Historical Review*, *English Historical Review*, *Physis*, *Libraries and Culture*, *Annals of Science*, *Physics in Perspective*, *American Scientist*, *Centaurus*, *Victorian Review*, *Britain and the World*, *Albion*, *Endeavour*, and *Distillations*.

### **Invited papers and presentations**

I have delivered invited papers at Cornell, Princeton, Johns Hopkins, Notre Dame, Drexel, Oxford, Cambridge, Glasgow, Manchester, Kent, Lancaster, Liverpool, Leeds, and York Universities; at the University of Washington, the University of South Carolina, and the University of Oklahoma; at MIT, UCLA, Texas A&M, Texas Tech, Imperial College London, Queen’s University Belfast, and Trinity College Dublin; at the Royal Society of London, the Royal Institution of Great Britain, the Royal Society of Arts, the Royal Irish Academy, and the Smithsonian Institution; at the World 2000 conference in Austin and the Hyper-Velocity Impact Symposium in Galveston; and at annual meetings of the American Association for the Advancement of Science, the History of Science Society, the British Society for the History of Science, the American Physical Society, and the Lone Star History of Science Group.

### **Honors and pwards**

- 2018 George Sarton Memorial Lecturer in the History and Philosophy of Science, sponsored by the History of Science Society, at the annual meeting of the American Association for the Advancement of Science, held in Austin in February 2018.

- 2015 Elected a Fellow of the American Physical Society “for groundbreaking work on the history of electromagnetism in the nineteenth century and the relationship between physics and technology.”
- 2014 Awarded a UT Institute for Historical Studies internal fellowship for 2014–15.
- 2013 Awarded \$3000 UT College of Liberal Arts Raymond Dickson Centennial Endowed Teaching Fellowship
- 2007 Awarded a UT History Department fellowship to support a semester of research leave.
- 2002 Awarded a UT Faculty Research Assignment for 2003–2004 to support leave for research and writing on nineteenth century physics and technology.
- 2002 Received a \$5000 UT President’s Associates Teaching Excellence Award.
- 2001 Awarded a College of Liberal Arts Dean’s Fellowship to support a semester of research leave (spring 2002).
- 1989 Awarded a \$40,000 National Science Foundation grant; spent 1989–90 at Cambridge University researching the history of telegraphy and physics in 19th century Britain.
- 1989 Named Visiting Fellow of Clare Hall, Cambridge, 1989–90; later elected a Life Member.
- 1989 Received \$1000 UT Texas Excellence Teaching Award (Liberal Arts).
- 1984 Awarded a Smithsonian postdoctoral fellowship; spent 1984–85 doing research at the National Museum of American History, Washington, DC.
- 1981 Awarded a Fulbright fellowship for graduate study in Britain, 1981–82; affiliated with University College London.
- 1980 Awarded the Schuman Prize (now the Reingold Prize) by the History of Science Society for the best graduate student paper of the year.

**Public and professional service**

- 2019–21 Member of the program committee for the Fourth International Conference on the History of Physics (originally to be held in Dublin in June 2020; postponed until 2021).
- 2015– Member of the Editorial Board of the Thomas A. Edison Papers, Rutgers University.
- 2012– Member of the Advisory Board of H-PhysicalSciences.
- 2011–13 Member of the Committee on Publications of the History of Science Society (HSS); chair, 2013.
- 2009–12 Member of the NASA Fellowship Committee of the HSS; chair, 2010–12.
- 2005– Member of the Editorial Board of the Pickering & Chatto (now University of Pittsburgh Press) monograph series “Science and Culture in the 19th Century.”

- 2004–7 Member of the Council of the HSS.
- 2004 Local Arrangements Chair for the annual HSS meeting, held in Austin.
- 2000–2006 Member of the HSS Committee on Publications; chair, 2005–6.
- 1999–2006 Member of the HSS Committee on Meetings and Programs; chair, 2000–2001.
- 1998–2000 Member of the Pfizer Award Committee of the HSS, to select the outstanding book in the field for the year; chair, 2000.
- 1994 Speaker at the annual meeting of the Philosophical Society of Texas.

Since 1987, I have refereed articles for *Isis*, *Technology and Culture*, *British Journal for the History of Science*, *Annals of Science*, *Journal of American History*, and other journals; manuscripts and book proposals for numerous university presses and commercial publishers; and many grant proposals.

In 1988 I helped found and hosted the first meeting of the Lone Star History of Science Group, which each spring brings together historians of science, technology, and medicine from around Texas. I spoke at the 1991 and 2019 meetings and have hosted ten of our meetings in Austin.

### **University and departmental service**

- 2016–18 Member of the History Department Executive Committee.
- 2013 Chair of a History Department search committee in the history of science.
- 2011–16 Member of the History Department Graduate Program Committee.
- 2009–11 Member of the History Department Executive Committee.
- 2007–08 Chair of a History Department search committee in the history of science.
- 2002–07 Graduate Adviser, History Department.
- 2002–03 Chair of a History Department search committee in the history of science.

### **Teaching experience**

Since coming to the University of Texas I have taught both undergraduate and graduate courses on the history of science and have served on many master's and doctoral committees. I have supervised or co-supervised five doctoral dissertations, and students under my supervision were awarded the Lathrop Prize for the best dissertation of the year in 2004; the Perry Prize for the best master's thesis in 1991; the prize for the best senior honors thesis in 1988, 1999, 2002, 2019, and 2020; and the prize for the best undergraduate seminar paper in 1994, 1995, and 2000.

### **Professional affiliations**

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| History of Science Society                 | American Physical Society          |
| Society for the History of Technology      | Britain and the World              |
| British Society for the History of Science | Lone Star History of Science Group |