

## CURRICULUM VITAE

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 Director, Center for History of Physics, American Institute of Physics

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### EDUCATION

1982 Ph.D. History & Philosophy of Science & Technology, Univ. of Toronto, Canada  
 1976 M.A. History & Philosophy of Science & Technology, University of Toronto  
 1974 B.S. with Highest Honors, Physics, St. Vincent College, PA

### PROFESSIONAL POSITIONS

2009- Director, Center for History of Physics, American Institute of Physics  
 2007 & 08 Associate Chair and Director of Graduate Studies, History, WVU  
 2002-2005 Director, Public History and Cultural Resource Management Programs, WVU  
 1983-2008 History Department, WVU.

### HONORS AND AWARDS

2014 Doctor of Humane Letters (Honorary), St. Vincent College  
 2012- Research Affiliate, University of Oklahoma, Department of History of Science and Department of Physics  
 2009 Fellow, Geological Society of America  
 2008 Geological Society of America, Rabbitt Award for contributions to understanding the history of the geological sciences  
 2005-2006 Visiting Scholar, University of Cambridge; Life Member, Clare Hall, Camb. UK  
 2005 Outstanding Public Service Award, Eberly College of Arts and Sciences, WVU  
 2001 Heebink Award for Distinguished State Service, West Virginia University  
 1998-1999 Carnegie Institution of Washington, Research Associate  
 1990-1991 Alexander-von-Humboldt Fellow  
 1982 Smithsonian Institution Post-Doctoral Fellow

### PROFESSIONAL WORKSHOPS & OUTREACH TO AIP MEMBER SOCIETIES AND PUBLIC

Annually Host History Liaison Committee with AIP Member Societies  
 2016 Hosted Third AIP Early-Career Conference for Historians of Physical Science  
 2014 Hosted Second AIP Early-Career Conference for Historians of Physical Science  
 Oral history workshop: American Astronomical Society  
 2013 Oral history workshops: American Association of Physics Teachers; Acoustical Society of America  
 Poster: Preserving the History of Physics at HBCUs, AAPT meeting, New Orleans  
 2012 Oral history workshops: American Physical Society; AAPT.  
 Poster: Resources for History of Geophysics at AIP, AGU annual meeting  
 2011 Established Lyne Starling Trimble Science Heritage Lecture Series, Four per year  
 Established AIP Early-Career Conference for Historians of Physical Science  
 Resources for Physics Teachers at ACP, AAPT Appalachian Section Meeting  
 2010 How the Center for History of Physics can help Historians of Science in Latin America, Campinas, Brazil; Salvador, Brazil

### WEB-BASED OUTREACH AT AIP

2013-16 Team director, Teachers Guides on Women and African Americans in Physical Science. Testing and revision. <http://www.aip.org/history-programs/physics-history/materials-teachers-students>

- 2017           Oversee new web exhibits: The Voyage of the Vema; Cultures of Calculation:  
                  Climate Modeling in Different Countries
- 2012           Researched and wrote new web exhibit: Rutherford's Nuclear World  
<http://www.aip.org/history/exhibits/rutherford/>
- 2009-           Coordinate social media outreach for AIP History Programs
- 2009-           Coordinate revision of AIP History Programs web exhibits and portion of web site
- 2009           Oversee new web exhibit: Bright Idea: The First Lasers  
<http://www.aip.org/history/exhibits/laser/>

### **PROFESSIONAL SERVICE TO AIP MEMBER SOCIETIES AND AFFILIATES**

- 2015-           Centennial Sub-committee, American Meteorological Society
- 2014-           History Committee, American Meteorological Society
- 2014-           APS Historic Sites Committee
- 2012-           Committee for History and Philosophy of Physics, American Association of  
                  Physics Teachers (AAPT)
- 2009-           Abraham Pais Prize Committee, American Physical Society (APS) and AIP
- 2009-           Member (Ex officio), Executive Committee, APS Forum for History of Physics
- 2009-2011     Prize Committee, History of Geology Division, Geological Society of America
- 1989-2013     Committee for the History of Geophysics, American Geophysical Union

### **PROFESSIONAL SERVICE BEYOND AIP**

- 2017-2021     Assessor, Council of International Union of History and Philosophy of Science,  
                  Division of History of Science and Technology
- 2017-2021     Assessor, Commission on the History of Physics, IUHPS/DHST
- 2015           Fellowship Selection Committee, Chemical Heritage Foundation
- 2014-2018     Scientific Advisory Board, Niels Bohr Archives Research Unit, Copenhagen,  
                  Denmark
- 2013-           Advisory Committee, Annual History of Physics Conference, Institute of Physics  
                  and European Physical Society
- 2013-           Council Member, International Commission for History of Physics
- 2013-2015     Treasurer, History of Earth Sciences Society
- 2011-2012     President, History of Earth Sciences Society
- 2012-2014     Organizing Committee, INHIGEO meeting, Monterey CA.
- 2012           Founding Committee, Forum for Physical Sciences, History of Science Society
- 2009-2014     Editorial Board, Oxford Encyclopedia of the History of American Science,  
                  Medicine, and Technology
- 2009-2016     Vice President, INHIGEO (for North America)
- 2007-2009     Steering Committee, Earth and Environment Forum, History of Science Society
- 2005-2008     Associate Editor, New Dictionary of Scientific Biography, Geology & Geophysics
- 2003-2008     Chair, American Institute of Physics, Advisory Committee on History of Physics
- 2003-2005     Steering Committee, Forum for the History of Science in America
- 2000-2008     Grants Committee, American Institute of Physics, Grants to Archives Program
- 1999-2008     Grants Committee, WV Geological Survey, Mapping Grants Program
- 1998-2004     Editor, Earth Sciences History, journal of the History of Earth Sciences Society
- 1997-1998     President, WVU Chapter, Sigma Xi: The Scientific Research Society
- 1990-1992     Organizer, "The Earth, the Heavens and the Carnegie Institution" Conference

### **SELECTED GRANTS AND FELLOWSHIPS**

- 2005-2007     NSF, Magnetic World: Consensus, Separation, and Re-connection in Disciplinary  
                  Transformations of Geomagnetism in the 20<sup>th</sup> Century, \$145,000
- 2003-2007     National Park Service, History of New River Gorge National River, \$45,000
- 2001-2002     AGU (Sloan Foundation), grant for research assistants, history project, \$12,000
- 1990-91       Alexander-von-Humboldt Stiftung Stipendium, Geophysics in 19<sup>th</sup>- and 20<sup>th</sup>-  
                  Century Germany, at Universität Hamburg, Germany

- 1987-88 NSF, 15 months of support for: Taking the Earth's Pulse: Development of Geomagnetism in North America since 1800.
- 1982 Smithsonian Post-doctoral Fellowship. The American Magnetic Crusade.

### BOOKS

- 2008 New River Gorge National River, Administrative History. National Park Service. (With A. Lynn Stasick.) Available at: [http://www.nps.gov/history/history/online\\_books/neri/neri\\_admin\\_history.pdf](http://www.nps.gov/history/history/online_books/neri/neri_admin_history.pdf)
- 1998 Editor, Sciences of the Earth: An Encyclopedia of Events, People, and Phenomena (New York and London: Garland Encyclopedias in the History of Science, 1998). 240 articles, 2 vols., 901 pages. Reviewed in ISIS, 2000, 91:842-843; Earth Sciences History, 2000, 19:232-233.
- 1994 Editor, The Earth, the Heavens, and the Carnegie Institution of Washington, in the American Geophysical Union series "History of Geophysics," vol. 5. The volume includes 27 articles (xiv + 252 p.). Reviewed in: Science, 26 August 1994, 265:1253-1254; History: Reviews of New Books, Spring 1995, 23:118; Journal for the History of Astronomy, May 1995, 26:183-184; Earth Sciences History, 1995, 14:103-104.

### ARTICLES

- 2017 John Herschel's Geology: The Cape of Good Hope in the 1830s, in The Romance of Science: Essays in Honour of Trevor H. Levere, eds. Jed Buchwald and Larry Stewart (Cham, Switzerland: Springer, 2017, 135-150. DOI 10.1007/978-3-319-58436-2.
- 2017 Oral History: Gathering the Human Stories of Science, Physics Today, May 2017, 74-75. Online: <http://physicstoday.scitation.org/doi/full/10.1063/PT.3.3566>
- 2016 On the Trail of Charles Darwin and John Herschel: The Cape in the 1830s, 35<sup>th</sup> International Geological Congress Field Trip Guide, 2017, 16 p.
- 2014 Theodore von Kármán, and Henry August Rowland, in Oxford Encyclopedia of The History of American Science, Medicine, and Technology, 1:605-606 and 2:413-414.
- 2013 Tales of a Magnetic Planet, Metascience, DOI 10.1007/s11016-013-9857-4
- 2013 Thomas F. Malone, Eos, Dec. 10, 2013, pp. 486-487.
- 2012-13 Rutherford's Nuclear World, Hist. Phys., 44, no. 2, 5.
- 2011 Measuring the Inaccessible Earth: Geomagnetism, In Situ Measurements, Remote Sensing, and Proxy Data, Centaurus, 53:1-14.
- 2010 Rutherford's Geophysicists, in Physics Today, July 2010, 42-47.
- 2010 Sydney Chapman: Dynamo behind the International Geophysical Year, in Globalizing Polar Science: Reconsidering the Social and Intellectual Implications of the International Polar and Geophysical Years, eds. Roger Launius and James Rodger Fleming (New York: Palgrave-Macmillan), 177-203.
- 2008 S. Keith Runcorn, in The New Dictionary of Scientific Biography, ed. Noretta Koertge, 8 vols. (New York: Thomson-Gale), 6:298-302.
- 2008 Between Data, Mathematical Analysis, and Physical Theory: Research on Earth's Magnetism in the 19<sup>th</sup> Century, Centaurus, 50:290-304.
- 2008 Today's Compass: What can We Learn from Looking Back at How Scientists have studied Earth's Magnetism? The Compass of Sigma Gamma Epsilon, 81:38-42.
- 2007 Magnetic World: The Historiography of an Inherently Complex Science, Geomagnetism, in the 20<sup>th</sup> Century, Earth Sciences History, 26:281-300.
- 2007 Geophysical Travelers: The Magneticians of the Carnegie Institution of Washington. In: P.N. Wyse Jackson (ed.) Four Centuries of Geological Travel: The Search for Knowledge on Foot, Bicycle, Sledge and Camel. Geological Society, London, Special Publication 287, 395-408.
- 2007 Louis Agricola Bauer (1865-1932), in Encyclopedia of Geomagnetism and Paleomagnetism, eds. David Gubbins and Emilio Herrero-Bervera (Dordrecht, Netherlands: Springer), 42-43. Also in this volume: Carnegie Research Vessel, 56-58; Carnegie Institution of Washington's Department of Terrestrial Magnetism, 58-59;

- History of (geomagnetic) Instrumentation, 434-439.
- 2006 A Shift of View: Meteorology in John Herschel's terrestrial physics. In Intimate Universality: Local and Global Themes in the History of Weather and Climate, eds. J.R. Fleming, V. Jankovic, and D.R. Coen (New York: Science History Publications), 35-67.
- 2003 Atmospheric Electricity, in Oxford Companion to the History of Modern Science, ed. J. L. Heilbron (New York: Oxford University Press), 67-68. Also in this volume: Ionosphere, 423-424; Lightning, 466.
- 2002 From Terrestrial Magnetism to Geomagnetism: Disciplinary Transformation in the Twentieth Century, in The Earth Inside and Out: Some Major Contributions to Geology in the Twentieth Century, ed. David R. Oldroyd, Geological Society, London, Special Publication No. 192, 229-239.
- 2001 Charles Smallwood, in New Dictionary of National Biography (Oxford University Press). Also in this publication: Edward Sabine.
- 2001 Geophysics and Geodesy, in The History of Science in the United States: An Encyclopedia, ed. Marc Rothenberg (New York and London: Garland), 240-242.
- 2000 The Assembly of Geophysics: Scientific Disciplines as Frameworks of Consensus, Studies in the History and Philosophy of Modern Physics, 31:259-292.
- 2000 John A. Fleming, for the American Geophysical Union. Published on AGU Web Site.
- 2000 Waldo Smith, for the American Geophysical Union. Published on AGU Web Site.
- 1999 Louis A. Bauer, in American National Biography (Oxford: Oxford University Press), 2:349-351. Also in ANB: Sydney Chapman, 4:715-717; John A. Fleming, 8:102-104; Scott E. Forbush, 8:213-215; Ernest Harry Vestine, 22:343-344.
- 1998 Toward a History of the Sciences of the Earth. Introduction to Sciences of the Earth, 1998a, above, xvii-xxvi. Also in Sciences of the Earth: Presentism, 708-709; Disciplinary History, 171-172; Geomagnetism: Theories between 1800 and 1900, 350-357; and Resources for Research in History of the Geosciences, xxxiii-xl.
- 1998 Magnetometer (History of). In Instruments of Science: An Historical Encyclopedia, edited by Robert Bud and Deborah Jean Warner, New York: Garland Publishing, 1998, 368-371. Also in this volume: Dip Circle (History of), 175-177.
- 1994 The Breadth, Height, and Depth of the Geosciences at the Carnegie Institution of Washington. Introduction to The Earth..., above, 1994, xi-xiii.
- 1994 Vision of a Global Physics: The Carnegie Institution and the First World Magnetic Survey. In The Earth..., above, 1994, 29-36.
- 1993 Die Rockefeller Stiftung, das Geophysikalische Institut Leipzig und der Nationalsozialismus der dreißiger Jahre. Zeitschrift für Geologische Wissenschaften, December 1993, 21:1-12.
- 1991 Follow the Needle: Seeking the Magnetic Poles. Earth Sciences History, 10:154-167.
- 1991 The Rockefeller Foundation, the Leipzig Geophysical Institute and National Socialism in the 1930s. Historical Studies in the Physical and Biological Sciences, 21:299-316.
- 1991 Between Two Empires: The Toronto Magnetic Observatory and American Science before Confederation, Scientia Canadensis, 1986, 10:34-52. Reprinted in Richard A. Jarrell and James P. Hull, eds., Science, Technology and Medicine in Canada's Past: Selections from Scientia Canadensis. Thornhill: Scientia Press, 1991, 36-53.
- 1990 Scientific Sovereignty: Canada, The Carnegie Institution, and the Earth's Magnetism in the North. Scientia Canadensis, 14:3-37.
- 1990 Secular Variation of the Earth's Magnetism. Encyclopedia of the Earth Sciences, (Pasadena: Salem Press), 540-547.
- 1989 Patrick Blackett, Nobel Laureate in Physics, 1948. The Nobel Prize Winners: Physics (Pasadena: Salem Press), 551-559.
- 1988 The Study of Geomagnetism in the Late 19th Century. Eos, 69:218-232.
- 1987 John Herschel's Optical Researches and the Development of his Ideas on Method and Causality, Studies in the History and Philosophy of Science, 18:1-41.
- 1987 A History of Geomagnetic Instruments and a Catalog of the Collections of the

- National Museum of American History. Smithsonian Studies in History and Technology, No. 48, 87 p. Co-author: Robert P. Multhauf. Reviewed by Anita McConnell in ISIS, 1987, 78:611-612.
- 1987 The Unseen Forces of the Earth and the Forgotten Instruments of their Revelation, Rittenhouse: Journal of the American Scientific Instrument Enterprise, 1:40-45.
- 1986 Government Funding of Scientific Instrumentation: A Review of U.S. Policy Debates since World War II, Science, Technology, and Human Values, 11:34-46. Co-author: Jeffrey K. Stine. A revision and extension of report to NSF on contract listed above.
- 1985 Geomagnetism and Scientific Institutions in 19th-Century America, Eos, 66:521-526.
- 1985 Toronto Magnetic Observatory and International Science, Vistas in Astron., 28:387-390.

### **BOOKS IN PREPARATION**

- Earth's Cosmic Environment: How Space Weather changed from an Arcane Scientific Problem to a Real Environmental Risk
- The Astronomer who fell to Earth: John Herschel's Cosmic Earth and Early 'Geophysics'

### **PROFESSIONAL PRESENTATIONS (Recent and Forthcoming)**

- 2017 Recording the Oral History of Space Weather: How We Are Learning to Live with a Star, AMS annual meeting, Seattle, WA  
 Women and Minorities in the History of Physics, Role Models for Today, for AAPT Section Meeting: Chesapeake and Appalachian Sections, Athens, WV  
 John Herschel's Landscapes and Geology: The Cape Colony in the 1830s, CSHPS annual meeting, Toronto, Ontario  
 Rutherford's Practical Geophysicists: Patrick MS Blackett and Teddy Bullard, Reconsidered, INHIGEO/IUHPST Congress, Rio de Janeiro  
 NSTA Physics Day: Women and Minorities in the History of Physics, Role Models for Today, NSTA meeting in Baltimore, MD
- 2016 Earth's Cosmic Environment: How Space Weather changed from an Arcane Scientific Problem to a Real Environmental Risk, Baylor University, Waco, TX  
 Keynote: Before Plate Tectonics: The Long Exchange between Physics and Geology from 1600 to the 20<sup>th</sup> Century, International Geological Congress, Cape Town  
 John Herschel's Landscapes and Geology: The Cape Colony in the 1830s, International Geological Congress, Cape Town  
 The Oral History Program of the American Institute of Physics, The International Oral History Association, Bengaluru, India
- 2015 Using Oral History in Teaching Physics, AAPT summer meeting, College Park MD  
 John Herschel's Alpine Geology: Mountain Landscapes 20 Years Before Photography, GSA annual meeting.  
 One Science or Many? Geophysics and the Founding and Evolution of the IUGG, IUGG General Assembly, Prague, Czech Republic  
 Extraordinary Individuals, Team Collaboration, and Creative Environments, Niels Bohr Institute, Copenhagen, Denmark  
 How Space Weather changed from an Arcane Science to a Real Environmental Risk, Goddard Retirees and Alumni Association  
 John Herschel, Charles Lyell, and Planet Earth. American Astronomical Society annual meeting, Seattle, Washington
- 2014 Geophysics on the Eve of the Great War, 1914. Presented at Carnegie Institution of Washington, Geophysical Laboratory, Centenary of the DTM Building. Repeated at HSS annual meeting, Chicago  
 John Herschel's Cosmic View of Earth: Another Approach to the History of Earth Science, INHIGEO conference, Asilomar, CA
- 2013 Rutherford's Geophysicists, Keynote talk at two-day meeting, University of

- Cambridge, UK. Other speakers include scientists who studied under Rutherford's research students and Rutherford's granddaughter.
- Earth's Cosmic Environment: How Space Weather changed from an Arcane Science to a Real Environmental Risk, Baltimore, Johns Hopkins University Colloquium
- Earth's Cosmic Environment: Space Weather, annual meeting of American Society for Environmental History
- How Historians Come to the Islands of Kept Documents and What They Experience When They Arrive, 24<sup>th</sup> International Congress of History of Science, Technology, and Medicine, Manchester, UK
- John Herschel's Cosmic View of Earth Science, annual GSA conference
- 2012 Cold War Science at the Last Frontier: Messing with and Measuring the Magnetosphere, Three Societies Meeting (HSS, BSHS, CSHPS), Philadelphia
- The Last Environmental Frontier: Project Argus, Space Weather, and the Cold War at the Edge of Space, University of Manchester, UK; Marietta College, Ohio
- 2011 Measuring the Inaccessible Earth: Deep Time and Unreachable Space, University of Minnesota History of Science Colloquium; International Union for Geodesy and Geophysics, Melbourne, Australia
- 2010 CIW Geophysicists in South America, 1905-IGY: Changing Meanings of International Science, AGU Meeting of the Americas, Foz du Iguassu, Brazil
- Earth: From the Ancients to the 21<sup>st</sup> Century (four lectures), Campinas University, Brazil
- Inaccessible Earth, University of Bahia, Salvador, Brazil; Niels Bohr Institute, Copenhagen, Denmark; and University of Aarhus, Aarhus, Denmark
- Geomagnetic Science at the Time of Hansteen: Ideas, Instruments, and Individuals, Plenary talk to the Hansteen Symposium, University of Oslo, Norway
- Many Things to Many People: Encounters with the Home Planet, Plenary talk to the symposium Earth Science, Global Science, York University, Toronto, Canada
- 2009 Measuring the Inaccessible Earth: Deep Time and Unreachable Space, International Congress on History of Science, Budapest, Hungary
- Alexander von Humboldt's Roles in Encouraging Geomagnetic Research, International Association of Geomagnetism and Aeronomy, Sopron, Hungary
- 2008 Roald Amundsen among the Magneticians, INHIGEO, IGC, Oslo, Norway
- 2007 Sydney Chapman: The IGY Behind the Scenes and Before the Public, Smithsonian Institution
- Multiple Orientations: Studies of Earth's Magnetism in the 19<sup>th</sup> Century, Wuppertal University, Germany
- Satellites, Computers, & Geomagnetism: Enhancing Earth's Magnetic Snapshot, 1950 to 2000, IUGG General Assembly, Italy
- Conversations with Geophysicists: Oral History and the IGY, IUGG General Assembly, Italy

## **PROFESSIONAL SOCIETIES AND HONORARIES**

American Association of Physics Teachers  
 American Astronomical Society  
 American Geophysical Union  
 American Meteorological Society  
 American Physical Society, Forum for the History of Physics  
 American Society for Environmental History  
 Canadian Society for the History and Philosophy of Science  
 Geological Society of America (Fellow)  
 History of Earth Sciences Society  
 History of Science Society  
 International Commission on the History of the Geological Sciences

International Commission on the History of Meteorology  
International Commission on the History of Physics  
International Oral History Association  
Oral History Association  
Phi Kappa Phi  
Sigma Xi