

JULIE R. NEWELL

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Education

Ph.D. (History of Science); University of Wisconsin-Madison; December 1993
Dissertation: American Geologists and Their Geology: The Formation of the American Geological Community, 1780-1865
Major Fields: American Science (Ronald Numbers--major professor); History of Geology (Robert Dott); History of Biology (William Coleman); American Intellectual History Since 1800 (Paul Boyer)
Minor: Geology
M.A. (History of Science); University of Wisconsin-Madison; December 1987
B.S. (Biology) and B.A. (English/Communication); Boise State University; May 1983; Cum Laude with Distinguished Honors

Professional Experience

Professor of History and Department Chair, 2006-present
Associate Professor of History, Southern Polytechnic State University, 1998-2006
Assistant Professor of History, Southern College of Technology, 1993-1998
Courses Taught:

“Global Technology Seminar”:

2009, 2008: Sustainability
2007, 2006: Natural Disasters
2004: Health in Global Perspective

“Topical Studies in Science and Technology”:

2007: Global Warming
2005: Epidemic Disease

“International Issues in Science and Technology”:

2008, 2007, 2006, 2004, 2003; 2000; 1997

“Science, Technology, and Society” (STS 2400):

2007-2009: Innovation and Environment
2005-2006: Human Technology (Honors section, Spring 2006)
2003-2005, 2001: Human Genome (Honors section, Spring 2004)
2000-2001: Environmentalism
1999-2000: Control of Nature
1998: Epidemics in History

“American Women’s History through Biography” 1998

“Ecological Responsibility and Decision Making” 1995

“History of American Technology” 1998, 1997, 1995

“History of Science Survey” 1994

“Issues in Science and Technology” 1998, 1997, 1995, 1994

“United States History--II” 1993-Present

“United States History--I” 1993-Present

Coordinator, INTERFACE lecture series on science, technology, and the humanities, 2000-present

Senior Consulting Editor for Science, Technology, and Medicine, Encyclopedia of the Midwest, October 1999-January 2002

Coordinator, Science, Technology, and Society Program, Spring 1998-Present

Director, INTERFACE, annual conference on humanities and technology, 1994-1999

Editorial Assistant, Isis, July 1988 through June 1990

Teaching Assistant, University of Wisconsin-Madison:

“Science, Technology, and Philosophy II” [17th to early 20th century], Department of Integrated Liberal Studies, 1986-1988

“The Making of Modern Science” [17th to early 20th century], Department of History of Science, 1987

“Makers of the Modern Mind: Newton, Darwin, and Freud”, Department of History of Science, 1985

Office of the Dean of Student Special Services, Boise State University:

Student Assistant to the Dean, June 1982-December 1982

Tutorial Coordinator, June 1981-June 1982

Tutor, January 1979-June 1981

Publications

“The Troost Crinoids: Lost, Found, and (Finally) Published,” Earth Sciences History, 2005, 24(1):15-34.

Review of Journeys through Paradise: Pioneering Naturalists in the Southeast by Gail Fishman for ISIS 2004, 95(4): 718.

Biographical entries on John Jeremiah Bigsby and George William Featherstonhaugh for The Dictionary of Nineteenth-Century British Scientists, (2004, Thoemmes Continuum)

Review of The Establishment of Science in America: 50 Years of the American Association for the Advancement of Science by Sally Gregory Kohlstedt, Michael M. Sokal, and Bruce V. Lewenstein, in Earth Sciences History, 2003, 22(1):105-106.

Review of William Bartram and the American Revolution on the Southern Frontier by Edward J. Cashin, in Isis, 2002, 93(2):306.

Biographical entry on Benjamin Silliman, Sr., The Oxford Companion to United States History, Paul Boyer, editor in chief (2001: Oxford University Press)

Biographical entries on *American Journal of Science and the Arts*, James Hall, Edward Hitchcock, Charles Thomas Jackson, John Locke, Matthew Fontaine Maury, William Maclure, and Benjamin Silliman, Sr., for The History of Science in the United States: An Encyclopedia, Marc Rothenberg, editor (2001: Garland)

Review of Beyond the Boundaries: Life and Landscape at the Lake Superior Copper Mines, 1840-1875 by Larry Lankton, Earth Sciences History, 1999, 18(1): 128-129.

Review of Science in the Field (Osiris, Vol. 11), Henrika Kuklick and Robert E. Kohler, eds., in Earth Sciences History, 1999, 18(1):123-125.

Biographical entries on Archibald Bruce, Charles Henry Hitchcock, and George Gibbs for American National Biography, John A Garraty, general editor (1999: American Council of Learned Societies and Oxford University Press)

“James Dwight Dana and the Emergence of Professional Geology in the United States,” American Journal of Science, 1997, 297(March):273-282.

Review of Cracking Rocks and Defending Democracy: Kirtley Fletcher Mather, 1888-1978 by Kennard Baker Bork, in Isis, 1995, 86(4):677-678.

Review of 'To Bring Together, Correlate, and Preserve': A History of the Kansas Geological Survey 1864-1989 by Rex C. Buchanan, in Isis, 1991, 82(3):539.

Review of George William Featherstonhaugh by Edmund Berkeley and Dorothy Smith Berkeley, in Journal of the Early Republic, 1989, 9(2):263-264.

Papers

“David Dale Owen: Antebellum *American Geologist*.” Geological Society of America, North Central Section, Evansville, Indiana, 24 April 2008.

"Genesis and Geology in America: The Cooper—Silliman—Stuart Debate, 1829-1839." Geological Society of America, Annual Meeting, Houston, TX, 7 October 2008.

"A Story of Things Yet-to-Be: The Status of Geology in the US in 1807." History of Geology Group, Geological Society of London, London, England, November 12, 2007. Part of the bicentennial celebration of the founding of the Geological Society of London; paper has been accepted for proceedings volume to follow.

“Michael Tuomey as Exemplar and Exception: Career Patterns among Antebellum American Geologists.” Geological Society of America, Annual Meeting, Denver, Colorado, October 30, 2007.

“Undoing Thomas Cooper: Robert Wilson Gibbes’s 1849 Campaign to Rehabilitate the Science of Geology in South Carolina.” Southeastern Section, Geological Society of America, Savannah, Georgia, March 30, 2007.

“History of Science in the STS General Education Course,” as panel participant and organizer for History of Science Society Committee on Education panel discussion “Teaching with Harmonics: Integrating History of Science Content into the Non-History-of-Science Course,” at the History of Science Society Annual Meeting, Vancouver, BC, November 3, 2006.

"Building Public Support for Geology: A 19th Century Problem in the 21st Century," Department of Geological Sciences, University of South Carolina, Columbia, SC, 8 April 2005.

"A Member in Name Only: Geology as a Component in 19th Century American Natural History," Science Studies Lecture Series, University of South Carolina, Columbia, SC, 7 April 2005.

“Petit-Fours Rather than Layer Cakes: American Geologists’ Thinking on Stratigraphy in the First Half of the Nineteenth Century,” at the Geological Society of America Meeting, Denver, CO, November 8, 2004.

“Cabinet, Lab, and Field: Where is ‘Real’ Geology to Be Done in Antebellum America?” at the History of Science Society Meeting, Cambridge, MA, November 20, 2003.

“To See and Be Seen: Transatlantic Relations in Antebellum American Geology” at the Geological Society of America Meeting, Denver, CO, October 28, 2002.

“Paying for Science and Making Science Pay: Historical Perspectives on American Science,” colloquium presentation, Department of Geology and Geophysics, Georgia Southern University, Statesboro, GA, October 10, 2002.

“The Troost Collection of Crinoids”: Lost, Found, and (Finally) Published by the Smithsonian Institution,” at the Smithsonian Institution, invited lecture in the Smithsonian Institution

Archives' Works in Progress series, September 12, 2002. Also presented at Southern Polytechnic State University, October 7, 2002.

- “The Hitchcock Family: Case Study in Patterns of Geological Training and Employment in Antebellum America,” at the Geological Society of America Meeting, Boston, MA, November 7, 2001.
- “Why Do I have to Take American History Anyway?": Approaches to Increasing the Relevancy of History Courses for Non-History Majors,” at the Humanities and Technology Association Meeting, Charlottesville, VA, October 19, 2000. (available on homepage)
- “Origins and Founding of AAAS, 1840-1865,” part of a session celebrating the 150th anniversary of the AAAS, American Association for the Advancement of Science, Philadelphia, PA, 13 February 1998.
- “Trying to Tell a Blessing from a Curse: A Field Guide for Exploration,” at the University of Georgia Symposium XI: Technology in Teaching: A Blessing or a Curse?, Morrow, GA, February 28, 1997.
- “A School for American Science: Social, Political, and Scientific Aspects of American Survey Geology in the Antebellum Period,” at the Geological Society of America Meeting, Denver, CO, October 29, 1996.
- “James Dwight Dana and the Emergence of Professional Geology in the United States,” at the Geological Society of America Meeting, New Orleans, LA, November 7, 1995.
- “Looking for the Unity in Community: American Geologists in the Antebellum Period,” at the History of Science Society Annual Meeting, Seattle, WA, October 26, 1990, in a session on Geology and Geologists in Nineteenth-Century North America that I organized.
- “Geology and Revealed Religion in Antebellum America: Three Views,” at the Midwest Junto for the History of Science, Notre Dame, IN, March 19, 1988.

Presentations

- “Think Like a Bee, OR Remembering What YOU Do Really Does Matter,” SPSU *Teach-In on Sustainability and You*, 5 February 2009.
- “Women in Science and Technology: How Changing What We See Changes What Can Be,” AAUW, *Step Up to STEM*, SPSU Campus, 25 October 2008.
- “Science, Technology, and Society Lab,” SPSU Summer Institute for Teachers of Mathematics, Science, and Computer Science, 13-14 June 2007 (2-hr session each day).
- Panelist, “STS in The General Education Curriculum,” at the International Association for Science, Technology, and Society, Baltimore, MD, 3 February 2007.
- “Meet the Experts,” panel participant representing Native Plant Garden project at Tritt Elementary, 2005 Outdoor Classroom Symposium, 14 October 2005.
- “Workshop on STS teaching techniques: The Question Generator,” Clemson University, 12 October 2005.
- “Ethical Challenges and Issues in Science and Technology,” Kennesaw State University, 21 May 2003. An invited presentation combining content material and teaching techniques. Part of KSU's MayMester faculty development program.
- “Paying for Science and Making Science Pay: Historical Perspectives on American Science,” at the West Cobb Rotary Club Meeting, 27 August 2002. [much shorter, less technical version of paper given October 10, 2002 in at Georgia Southern University.]
- “Women in Science and Technology: How Changing What We See Changes What Can Be,” Women's History Month lecture. Delivered on Southern Polytechnic State University campus 8 March 2000 and at AT&T —Alpharetta, GA; 15 March 2000.

"The Birth of the Women's Right's Movement in the Abolition Movement," Women's History Month lecture. Delivered on Southern Polytechnic State University campus 9 March 1999 and at AT&T –Alpharetta, GA; 31 March 1999.

“Another Look at Change: A Model for Making Technology Choice,” at the University of Georgia System 1997/1998 Faculty Development Workshop, Athens, GA, August 22, 1997. Invited lectures at History of Science Department, University of Wisconsin-Madison (1991) and Center for the Interdisciplinary Study of Science and Technology, Northwestern University (1991).

Grants

Smithsonian Institution Short Term Visitor’s Grant, awarded April 2002 (\$910)

NSF Research Grant #0114869, NSF Science and Technology Studies Program, for project entitled “Geology and the Emergence of Science as a Profession in the United States” August 15, 2001-August 15, 2003 (\$135,020 budget) Information available at: <https://www.fastlane.nsf.gov/servlet/showaward?award=0114869>

Honors and Awards

Member, International Commission on the History of Geological Sciences, May 2004—present (one of a maximum of 11 United States members; lifetime membership)

SPSU Center for Teaching Excellence Fellow, 2003-2004; 2004-2005

Participant, Ethical, Legal, and Social Implications of the Human Genome Project Faculty Development Workshop; Ethics Institute, Dartmouth College, June 2003

Governor’s Teaching Fellows Summer Program, 2001

Nominee, YWCA Women of Achievement in Northwest Georgia Award, 2001

"Who’s Who Among America’s Teachers,” 2000

Participant, Cobb Education Consortium Leadership Academy, 2000-2001; member of Leadership, Character, and Ethics Committee, 2000-present

Nominee, U.S. Professors of the Year Program, 2000

Nominee, Regents’ Teaching Excellence Award, Fall 1999

Participant, Georgia Humanities Council Humanities Leadership Forum, 29 October 1999 (nominated by campus, selected by Humanities Council)

Nominee, U.S. Professors of the Year Program, 1999

Participant, Distinguished Professor Faculty Development Workshop, Spring semester 1999

Participant, University System of Georgia Teaching and Learning Institute, June 1998

Teacher of the Year, Southern Polytechnic State University, 1998-1999

Outstanding Faculty Award, Southern Polytechnic State University, Spring 1998

"Who’s Who Among America’s Teachers,” 1998

Participant, National Endowment for the Humanities Summer Institute for College and University Teachers, "Technology and Science Within American Culture, 1830-1950"; Iowa State University; Ames, Iowa; June 19-July 23, 1994

Outstanding Faculty Award, Southern College of Technology, Spring 1994

University Fellowship, University of Wisconsin-Madison, Fall 1990

Knapp Fellowship, University of Wisconsin-Madison, 1984-1985

University Fellowship, University of Wisconsin-Madison, Fall 1986

Numerous undergraduate scholarships and awards

Professional Associations

Organization of American Historians, member 1998-present

History of Geology Division, Geological Society of America; member 1995-present; Chair 2007, Vice-Chair 2006, Second Vice-Chair 2005

Society for the History of Technology, member, 1993-present

History of the Earth Sciences Society; member 1989-present; nominating committee 1998-2000 (chair 2000); associate editor of Earth Sciences History, 2002-present; Councilor for 2002-2003 (two-year term)

Forum for the History of Science in America; member 1989-present; member of coordinating committee 1992-1995; secretary-treasurer 1994-2006; associate newsletter editor, 1995-2006; prize committee member 1996-1998 (chair 1998)

History of Science Society; member 1984-present; Committee on Education, July 2004-June 2008 (chair 2008)