

**Craig Sean McConnell**  
Curriculum Vitae

Department of Liberal Studies  
California State University  
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**Education**

Ph.D., History of Science, University of Wisconsin-Madison. August 2000.

Dissertation: The Big Bang-Steady State Controversy:  
Cosmology in Public and Scientific Forums

Preliminary Examinations Completed August 1994.

Fields: Physics Since Newton

Biology Since 1600

Ancient and Medieval Astronomy and Cosmology

The Scientific Revolution

M.A., History of Science, University of Wisconsin-Madison. Minor in History. May 1993.

M.A., History, North Carolina State University. Minor in Physics. May 1991.

B.A., History, University of Colorado-Denver. Minor in Physics. May 1989.

**Honors and Awards**

Untenured Faculty Development Grant, California State University, Spring 2003.

Junior Faculty Research Grant, California State University, Summer 2001.

Millennium Technology Grant, California State University, Spring 2001.

University Fellowship, University of Wisconsin, Spring 1998.

NSF Dissertation Improvement Grant, September 1996-August 1997.

Excellence in Teaching Award, University of Wisconsin, 1996.

University Teaching Fellow, University of Wisconsin, 1995.

**Positions Held**

**Assistant Professor, Dept. of Liberal Studies, California State University-Fullerton, 2000-Present.**

Hist 302A: "Historical Dimensions of Liberal Studies" [a two-semester, team-taught

Hist 302B: "Historical Dimensions of Liberal Studies" Western Civilization survey].

LBST 304: "Science in the Modern World"

LBST 491: "Senior Seminar: Literature and Science"

**Lecturer, University of Wisconsin-Madison, 1998-2000.**

ILS 254: "Science and Literature."

ILS 202: "The Rise of Modern Science."

ILS 251: "Contemporary Physical Sciences."

HOS 203: "Science in the Twentieth Century."

ILS 251: "An Introduction to Relativity Theory."

**Teaching Assistant, University of Wisconsin-Madison, 1992-1999.**

Twelve semesters teaching a variety of courses in the Integrated Liberal Studies Program and in the Department of History of Science.

**Adjunct Professor, Lesley College, 1992.**

Taught an interdisciplinary junior-level survey of the history of science for science majors preparing to teach middle-school science.

## **Publications**

- “Twentieth Century Cosmology and Religion,” *Science and Religion: A Historical Introduction* (Baltimore: Johns Hopkins University Press, 2002).
- “Twentieth Century Cosmology and Religion,” *Garland Encyclopedia of Science and Religion* (New York: Garland, 2000).
- “George Gamow and the Hot Big Bang,” *Biographical Encyclopedia of Science* (New York: Marshall Cavendish, 1998).
- “Georges Lemaître and the Primeval Atom,” *Biographical Encyclopedia of Science* (New York: Marshall Cavendish, 1998).
- “Luis Alvarez,” *American National Biography* (Oxford University Press, 1999).
- “Harold Edgerton,” *American National Biography* (Oxford University Press, 1999).

## **In Preparation**

- Science, Government, and Industry: The Transition to Big Science*, book manuscript in development for the series *ABC-Clio Handbooks on Science & Society*.
- Popular Media and the Legitimization of Big Bang Cosmology*, book manuscript in development.
- “The Popular Press and the Resolution of the Big Bang-Steady State Debate,” article to be submitted to *Isis*.
- “Americans and Sputnik: Awe, Fear, and the Construction of a Cold War Icon,” article to be submitted to *American Historical Review* or *The Journal of the Historical Society*.
- “Victorians and the Moon: From Technical Astronomy to Popular Literature,” article to be submitted to *The British Journal for the History of Science*.

## **Book Reviews**

- “Placing Mathematics.” Essay review of *Rockefeller and the Internationalization of Mathematics Between the Two World Wars*, by Reinhard Siegmund-Schultze and *Mathematicians under the Nazis*, by Sanford Segal. In preparation for *Metascience*.
- “Illuminating Lives.” Essay review of *Percival Lowell: The Culture and Science of a Boston Brahmin*, by David Strauss and *Henry Norris Russell: Dean of American Astronomers*, by David H. DeVorkin. In *Metascience* 11 (November 2002): 306-309.
- “The Shifting Sands of Radiation Safety.” Review of *Permissible Dose: A History of Radiation Protection in the Twentieth Century*, by J. Samuel Walker. In *Metascience* 12 (July 2003): 265-266.
- “Revolution Through Tradition.” Review of *Quantum Generations: A History of Physics in the Twentieth Century*, by Helge Kragh. In *Metascience* 10 (July 2001): 284-286.
- “Bringing Reason and Context to the Science Wars.” (Craig McConnell and Bob March). Review of *Beyond the Science Wars: The Missing Discourse about Science and Society*, edited by Ullica Segerstråle; and *Real Science: What It Is, and What It Means*, by John Ziman. In *Physics Today* (May 2001): 57-58.

## **Presentations**

- “Mother Earth and Daughter Moon: George Darwin’s Lunar Genesis Theory and the Dynamics of Popularization.” History of Science Society Annual Meeting, Cambridge MA, November 21, 2003.
- “From Space and Time to Space-Time: Continuity, Revolution, and the Popularization of General Relativity” Society for Literature and Science Annual Meeting, Austin TX, October 24, 2003.
- “Reclaiming the Moon: The Life and Times of George Darwin’s Lunar Genesis Theory.” Interdisciplinary Nineteenth-Century Studies Conference, Fairfax VA, April 11, 2002.
- “Contentiousness and the Cosmos: Disputes, Polemics, and Controversies in Modern Cosmology.” International Society for Intellectual History Annual Conference, Trinity College, Cambridge, July 28, 2001.

### **Presentations (Continued)**

- “Remembering Sputnik: Awe, Fear, and the Construction of a Cold War Icon.” Popular Culture Association Annual Conference, Philadelphia PA, April 12, 2001.
- “Universal Myths: Narrative Expectations and the Origin of the Cosmos.” History of Science Society Annual Meeting, Pittsburgh PA, November 6, 1999. (I organized this panel on “Science, Popular Literature, and Narrative Traditions.”)
- “Cosmologists, *The New York Times*, and the BBC: Public Forums and the Resolution of the Big Bang - Steady State Debates.” University of Wisconsin History of Science Department Colloquium, Madison WI, February 27, 1999.
- “Recalling Victors’ Tales and Participants’ Accounts: Recasting the History of the Big Bang-Steady State Debate.” Mephistos Graduate Student Conference, Minneapolis MN, September 18, 1998.
- “Banishing God from the Heavens: Fred Hoyle, Science, and Religion.” History of Science Society Annual Meeting, San Diego CA, November 8, 1997. (I organized this panel on “Science and Religion in Postwar Astrophysics.”)
- “Lost Universes: How the Demise of the Steady State Cosmologies Shaped the History of the Big Bang.” Princeton Graduate Conference on “The Casualties of History: Losing, the Lost, and the Problem of Defeat,” Princeton University, October 4, 1997.
- “Cambridge Cosmology and the Origins of the Big Bang-Steady State Debate, 1948-1959.” History of Science Society Annual Meeting, Atlanta GA, November 8, 1996.
- “George Gamow and the ‘Almighty Dicke’: Cosmology’s Nearly Forgotten Priority Dispute.” Midwest Junto for the History of Science, Kansas City MO, March 30, 1996.

### **Service**

- H&SS Student Awards Committee, 2003.
- Invited Participant, “CSU-NASA Education Collaborative Symposium,” June 25-26, 2002. Long Beach, California.
- Chair, Group 2 Commencement Committee, H&SS Commencement Ceremony, 2002-2003.
- Chair, Liberal Studies Curriculum Committee, 2002-2003.
- Coordinator, Liberal Studies Program “Curriculum Brown Bag,” 2001-2002.
- Chair, Liberal Studies G.E. Course Development Committee, 2001.
- Invited Participant, “Mathematics and Science in Liberal Studies: Enhancing Teacher Preparation Programs,” May 3-4, 2001. Fresno, California.
- Instructional Development Program Committee, University of Wisconsin, 1998-1999. This committee selects the University Teaching Fellows responsible for training new teaching assistants, selects teaching award recipients, and oversees the development of training programs for teaching assistants.
- Undergraduate Orientation Committee, University of Wisconsin, 1996-1997. Assisted in the design and implementation of summer orientation sessions attended by incoming freshman and their parents.
- Chair, Dissertators’ Reading Group, University of Wisconsin History of Science Dept., 1998-1999.
- Graduate Student Representative, University of Wisconsin History of Science Dept., 1995-1997.
- Co-Editor, *UCD Historical Studies Journal*, University of Colorado at Denver, 1988-1989.

### **Professional Societies**

- History of Science Society since 1990.
- American Historical Association since 1995.

## **References**

Daniel Siegel, History of Science, 7143 Social Sciences, Madison, WI 53706-1393.

(608) 262-1406. [dmsiegel@facstaff.wisc.edu](mailto:dmsiegel@facstaff.wisc.edu)

Lynn Nyhart, History of Science, 7143 Social Sciences, Madison, WI 53706-1393.

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Ronald Numbers, History of Medicine, 1300 University Avenue, Madison, WI 53706-1393.

(608) 262-1460. [rnumbers@macc.wisc.edu](mailto:rnumbers@macc.wisc.edu)

Jane Camerini, History of Science, 7143 Social Sciences, Madison, WI 53706-1393.

(608) 262-1406. [jrcameri@facstaff.wisc.edu](mailto:jrcameri@facstaff.wisc.edu)

Craig Werner, Integrated Liberal Studies, 228 North Charter, Madison, WI 53706.

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