

# Roger D. Turner, Ph.D.

Roger\_D\_Turner@hotmail.com

## EDUCATION

University of Pennsylvania

Ph.D. History and Sociology of Science. May 2010.

“Weathering Heights: The Emergence of Aeronautical Meteorology as an Infrastructural Science”

M. Susan Lindee, Primary Advisor. Readers: Ruth Schwartz Cowan and James Rodger Fleming (Colby College)

Major Fields: History of Modern Science; History of Modern Technology; History of Computing and Communications.

M.A. History and Sociology of Science. May 2005

Brown University

B.A. *magna cum laude*, Independent Concentration in History of Science, May 2001

Honors Thesis: “The Seeds of Distrust: Emotional Knowledge and the Rejection of an Environmental Technology.” Joan Richards, Primary Advisor.

## WORK HISTORY

Research Fellow, Chemical Heritage Foundation. Providing research support and developing storylines for a documentary film and online museum exhibit. July 2016 to Present.

Consulting Historian. Clients included: Chemical Heritage Foundation; Air Resources Laboratory, NOAA; and the American Institute of Physics. Fall 2014 to June 2016.

Adjunct Professor, History Department, Dickinson College. Taught 2013-14, and Spring semester 2012.

Visiting Assistant Professor, Environmental Studies Department, Dickinson College, 2012-13.

Visiting Assistant Professor, Department of Science, Technology and Society / Public Policy, Rochester Institute of Technology, 2010-2011.

Guggenheim Pre-Doctoral Fellow, Smithsonian National Air and Space Museum, 2009-10.

Graduate Student at University of Pennsylvania, funded by fellowships from the National Science Foundation, the American Meteorological Society, and Penn. 2003-2010.

Information Manager, History of Science Society, July 2001–August 2003.

## RESEARCH GRANTS AND HONORS

Pan Am Historical Foundation, Dave Abrams and Gene Banning Research Grant, July 2009.

American Meteorological Society, Graduate Fellow in History of Science, 2007-08.

National Science Foundation Graduate Research Fellow, University of Pennsylvania, 2003-06.

Royce Fellowship for Independent Research, Brown University, 2000-2001.

Research at Brown Grant, Brown University, 2001.

Elected to *Phi Beta Kappa* (Rhode Island Alpha), 2000.

NSF Research Experience for Undergraduates, Santa Fe Institute, 1999.

## PUBLICATIONS

Curator and Lead Author, [PicturingMeteorology.com](http://PicturingMeteorology.com).

Essay Review of: Robert H. Simpson with Neal M. Dorst, *Hurricane Pioneer: Memoirs of Bob Simpson*; and Luis E. Ramos Guadalupe, *Father Benito Viñes: The 19<sup>th</sup>-Century Life and Contributions of a Cuban Hurricane Observer and Scientist*. *Earth Science History* (January 2015): 372-373.

Review of James Bergman, "Climates on the Move: Climatology and the Problem of Economic and Environmental Stability in the Career of C. W. Thornthwaite, 1933-1963". [Dissertation Reviews](#), April 1, 2015.

Review of Siobhan Roberts, *Wind Wizard: Alan G. Davenport and the Art of Wind Engineering*. *Isis* (September 2014): 670-671.

Review of Malcolm Walker, *History of the Meteorological Office*. *Weather, Climate and Society* (January 2012): 81-82.

Review of Erik M. Conway, *Atmospheric Science at NASA: A History*. *Isis* (September 2010): 672-673.

Review of Kristine C. Harper, *Weather by the Numbers: The Genesis of Modern Meteorology*. *Technology & Culture* (October 2009): 49-50.

"More Than Just Talking," review of Bernard Mergen, *Weather Matters: An American Cultural History Since 1900*. *Science*, September 4, 2009: 1208.

"Keeping Meteorology Masculine: The American Meteorological Society's Response to TV 'Weather Girls' in the 1950s," in *Weather, Local Knowledge and Everyday Life: Issues in Integrated Climate Studies*, edited by Vladimir Jankovic and Christina Barboza (Rio de Janeiro: MAST, 2009): 147-158.

"Laughing at the Weather? The Serious Business of Weather Cartoons," *History of Science Society Newsletter*, January 2009: 1, 4.

"Horace Robert Byers," in *The New Dictionary of Scientific Biography, volume 1* (Charles Scribner's Sons, 2007): 468-471.

"Francis Wilton Reichelderfer," in *The New Dictionary of Scientific Biography, volume 6* (Charles Scribner's Sons, 2007): 219-223.

"Teaching the Weather Cadet Generation: Aviation, Pedagogy, and Aspirations to a Universal Meteorology in America, 1920-1950," in *Intimate Universality: Local and Global Themes in the History of Weather and Climate*, edited by James R. Fleming, Vladimir Jankovic, and Deborah R. Coen (Sagamore Beach, MA: Science History Publications, 2006): 141-173.

Editor, *The Guide to the History of Science, 9<sup>th</sup> Edition*. (University of Chicago Press, 2002): 390 pages.

“John Harrison,” “Igor Sikorsky,” “Pedro Nunes,” short biographical essays in *Science and Its Times*, edited by Neil Schlager (Gale Group, 2001).

## **TEACHING EXPERIENCE**

Dickinson College (Professor)

ES 111: Environment, Culture, Values (Fall Semester 2012)

First Year Seminar: “Watched—Surveillance and Society” (Fall 2012)

ES 330: Environmental Policy (Spring 2013)

ES 406: Senior Seminar: Infrastructure and Sustainability (Spring 2013)

HI 118: America since 1877 (Spring 2012, Fall 2013, Spring 2014. Also served as a long term substitute for final six weeks after a colleague fell ill)

HI 276: Outsiders in America (Took over class after colleague passed away mid-semester)

Rochester Institute of Technology (Professor)

STSC 508-211: Science, Technology and Values (three sections, quarter system)

STSC 508-212: Introduction to Environmental Studies (one section)

STSC 508-489: History of the Environmental Sciences (one section)

STSC 508-530: Senior Seminar in Science, Technology and the Environment (two sections)

University of Pennsylvania (Graduate Teaching Assistant)

HSSC 110: Science and Literature (Spring 2006)

HSOC 010: Health and Societies: Global Perspectives (Fall 2005)

BIOL 003: What Every Lawyer, Businessperson, and Citizen Should Know about Molecular Biology. (Spring 2004)

Brown University (Undergraduate Teaching Assistant)

ES 152: Conceptions of Property Rights from Locke to Deep Ecology (Spring 2001)

## **SPECIALIZED PEDAGOGICAL TRAINING**

Integrating place-based and experiential learning into the Liberal Arts curriculum: Valley and Ridge Workshop, Dickinson College, Summer 2012.

Expository writing: Writing across the Curriculum Workshop, Dickinson College Summer 2012; Writing Across the University Program, Univ. of Penn, Spring 2004

Public Speaking: Communications within the Curriculum Program, Penn, Fall 2005

Grant Writing: Navigating the Grant Program, Univ. of Penn., Spring 2004

## **INVITED WORKSHOP PARTICIPANT**

Weather and Society \* Integrated Studies, National Center for Atmospheric Research, Boulder Colorado, August 2008.

Oceans and Atmospheres, the 2006 Dibner/Marine Biological Laboratory Summer Seminar. Woods Hole, Massachusetts. May 2006.

Instruments at Work. First Dutch International Summer School in the History of Science. Utrecht University Museum, July 2005.

Summer Policy Colloquium, American Meteorological Society. NSF-funded  
Student Participant, Washington, D.C. June 2004.

## CONFERENCE SESSIONS ORGANIZED

History of Science Society Annual Meetings

“SciViroTech or, Science that Changed the World Materially,” 2014 (session comentator).

“Science as an Agent of Continuity, Parts 1 and 2,” 2013 (with Christine Manganaro).

“Drawing in Print Culture: Why Cartoons Matter to the History of Science,” 2009.

“From Dissertation to Book,” 2008; Sponsored by the Graduate and Early Career Caucus  
(with Jacqueline Wernimont)

“Environmental Science as Industrial Research,” 2007; Sponsored by the Earth and  
Environment Forum.

International Commission for History of Meteorology

“The Public Faces of Weather.” Weather, Local Knowledge and Everyday Life Conference,  
Rio de Janeiro, Brazil. May 29, 2008.

Society For Social Studies of Science Annual Meeting

“Managing Invisibility: Knowledge and the Operation of Infrastructures.” Open Session,  
Denver, November 13, 2015.

## CONFERENCE PAPERS AND INVITED PRESENTATIONS

I have presented my research at more than 20 international, national, and local conferences, including annual meetings of the History of Science Society, American Meteorological Society, 4S, SHOT, ASEH, and OAH. I have given invited presentations at the Smithsonian Museum of American History, and the Millersville University Department of Earth and Atmospheric Science, among other institutions.

## PEER REVIEWER

AGU Books in the Earth and Space Sciences (Wiley Press)

*Bulletin of the American Meteorological Society*

*History of Meteorology*

*International Journal of Biometeorology*

*International Journal of Mass Emergencies and Disasters*

*Isis*

*Social Studies of Science*

National Science Foundation, Polar Programs Division

*Weather, Climate and Society*

## MEDIA

Curator and Lead Author, [PicturingMeteorology.com](http://PicturingMeteorology.com).

“[In ‘Toon with the Weather,’](#)” *SAS Frontiers* (now *Omnia*), July 2008. An Internet slide show produced in collaboration with the University of Pennsylvania’s External Affairs division. Awarded 2<sup>nd</sup> place in the Environmental History Slidecast Competition by the Network in Canadian History and Environment, November 2009.

[“Teaching Military Pilots Weather Mechanics—Using Cartoons,”](#) by Arielle Kane, *The Daily Pennsylvanian*, October 23, 2008: p. 1. A profile of my work on comic training manuals.

Quoted in “Scientists Savor Air of Relief,” by Sandy Bauers, *The Philadelphia Inquirer*, September 14, 2007, B4. Comments on the 20<sup>th</sup> anniversary of the Montreal Protocol.

## **ACADEMIC SERVICE**

### American Meteorological Society

History Committee, 2009-2011 (Chair, 2010 and 2011). Reviewed conference submissions, organized sessions, recruited new committee members, and evaluated applications for graduate fellowship in history of science.

### Brown University

Founded the Science Studies Undergraduate Group, Fall 2000  
Dean’s Committee on Academic Advising, 1999-2000

### History of Science Society

Program Co-Chair for the Poster Session, 2015, 2016  
Nominating Committee, Member at Large (Elected), 2013  
Steering Committee, Earth and Environment Forum, 2011-2014

### International Commission for History of Meteorology

Webmaster and member of the Executive Committee, 2007 – 2009

### Rochester Institute of Technology

Joint Committee for the History of Science and Technology Minor, 2010-11

### University of Pennsylvania

Vice President for Policy and Administration, Graduate Student Government of the School of Arts and Sciences, 2007-2008  
University Council Committee on Libraries, 2003-2006