

**Proposal for Workshop about  
“Science and Technology Studies (STS) in the Liberal Arts”**

**Location and Date: Vassar College, April 2013**

**Workshop Liaisons**

Professor Janet Gray  
Psychology, Neuroscience, Director of the Vassar Program in STS  
Vassar College  
[grayj@vassar.edu](mailto:grayj@vassar.edu)

Andrew Fiss  
Mellon Postdoctoral Fellow in STS  
Vassar College

**Planning Committee**

Donald deB. Beaver, History of Science, Williams College  
Marianne de Laet, Anthropology and STS, Harvey Mudd College  
Vivien Hamilton, History of Science and STS, Harvey Mudd College  
Darin Hayton, History, Haverford College  
Jennifer Tucker, History and Science in Society, Wesleyan University  
Jacqueline Wernimont, English and STS, Scripps College  
Richard Worthington, Politics and Director of Program in STS, Pomona College

**Description of Proposed Workshop**

We request support for a two-day workshop about pedagogical and curricular issues related to science and technology studies (STS) in liberal arts colleges. Diverse programs in STS have existed at small liberal arts college throughout the country since at least the early 1970s. In the last year, Harvey Mudd, Pomona, Scripps, Vassar, and Wesleyan have all embarked on self-studies to explicitly address our continued relevancy at our specific institutions, and we believe an intercollegiate workshop to be the logical next step as we try to envision the future of STS locally and globally. Because of the growth of multidisciplinaries at the graduate level, an increased interest in career paths stemming from undergraduate multidisciplinary training, and the solicitation of new visions for multidisciplinary graduate work, we see this time as a transition moment in STS, an opportunity for strengthening and renewing multidisciplinary pedagogical models and for developing links between our various liberal arts programs. Our hope is to present the results of our workshop in a pedagogy session of a national or international conference, such as the Society for the Social Studies of Science (4S).

The proposed workshop would last two days. The first day would consist of registration and dinner, and the second day would consist of two sets of pedagogy workshops, a

working lunch about curricular issues, and a discussion of a pre-circulated paper about the state and stakes of science and technology studies.

Possible core questions for the workshops include:

- 1) Are there emerging methods for teaching in programs that bridge the humanities, social sciences, and natural sciences?
- 2) How might we make connections with small and large businesses, government agencies, and NGOs, who could possibly employ our STS graduates?
- 3) How can the core competencies of an STS graduate be articulated on the open job market? How can we be sure we're addressing these at small liberal arts colleges?
- 4) Are there strategic ways of building relationships to other multidisciplinary fields, such as Media Studies and the Digital Humanities?
- 5) How might collaborations between small liberal arts colleges foster fundable undergraduate opportunities across or between institutions?

And possible topics for the working lunch include:

- 1) What modes of curricular organization already exist for undergraduate STS Programs?
- 2) How could we align general education, major, and minor courses to enhance the educational experience for students in STS programs and to highlight the contributions that STS makes to campus-wide discussions?
- 3) How could we tailor the content of STS classes for our diverse students, who generally have greater or lesser interest in science or engineering as subjects and as careers?

In the end, we hope to use this workshop to disseminate pedagogical insights from liberal arts colleges to national STS communities, to build bridges between undergraduate STS programs throughout the country, and to strengthen and broaden models for multidisciplinary teaching in STS-related fields.

We will evaluate the workshop by asking participants to complete the AALAC Assessment Form, and we will additionally develop pre/post forms with a Vassar-based assessment consultant.

## **Budget**

|  |         |
|--|---------|
| Travel for members of the planning committee               |         |
| From California  |         |
| 4 Flights from LAX to local airport (\$500/trip)           | \$2,000 |
| (Quote from Hooker Ave. Travel)                            |         |
| 4 Car Rentals for travel to Poughkeepsie (\$280/car)       | \$1,120 |
| (Quote from Budget Car Rental)                             |         |
| From Northeastern institutions                             |         |
| From Wesleyan (200 miles @ \$0.555/mi)                     | \$111   |
| From Haverford (375 miles @ \$0.555/mi)                    | \$209   |
| From Williams (225 miles @ \$0.555/mi)                     | \$125   |
| (According to Vassar's mileage chart)                      |         |
| <br>Accommodation for members of the planning committee    |         |
| 7 People for 2 Nights at the Rate of \$140/night           | \$1,960 |
| Optional third night for 4 Californian committee members   | \$560   |
| (Quote from Vassar College's Alumnae House)                |         |
| <br>Conference meals and coffee breaks for 25 participants |         |
| 2 Breakfasts (Catering at the Retreat)                     | \$300   |
| 1 Lunch (Catering at the Retreat)                          | \$250   |
| 2 Dinners (Vassar Catering or Twisted Soul)                | \$1,500 |
| 2 Coffee/Tea Services (Vassar Catering)                    | \$250   |
| <br>Stipend for organizing institution                     | \$500   |
| <br>Administrative support and expenses                    |         |
| Room Rental for Dinners (Alumnae House)                    | \$400   |
| A/V Equipment Rental for Sessions (Media Services)         | \$100   |
| Furniture Rental for Sessions (Campus Activities)          | \$100   |
| Signs (VPrint)   | \$5     |
| 25 Name badges and holders (Staples)                       | \$45    |
| 25 Folders (\$2 ea, VC Bookstore)                          | \$50    |
| 25 5-page Programs (\$0.07/pg, Vassar Copy Center)         | \$10    |
| 25 5-page Evaluation Forms (ditto)                         | \$10    |
| 25 Pre-posted envelopes (U.S. Postal Service)              | \$15    |
| <br>Miscellaneous Expenses                                 | \$200   |
| <br>TOTAL  | \$9,820 |

**CVs for  
Workshop Liaisons  
and  
Planning Committee Members**

## Janet M. Gray

Department of Psychology  
124 Raymond Avenue  
Vassar College  
Poughkeepsie, NY 12604-0246  
phone: (845) 437-7378  
fax: (845) 437-7315  
e-mail: grayj@vassar.edu

35 Park Avenue  
Poughkeepsie, NY 12603  
(845) 471-9344

- **Education:**

1980: Ph.D., University of Massachusetts at Amherst; NIMH pre-doctoral trainee  
Major field of study: Biopsychology/Neuroscience

1978: M.S, University of Massachusetts at Amherst  
Major field of study: Biopsychology/Neuroscience

1974: B.A. (With Distinction and Honors in Psychology), Simmons College  
Major field of study: Psychology

- **Employment**

**Academic Appointments** (all at Vassar College)

2000-present: Director, Program in Science, Technology and Society (STS)

1996-present: Professor, Department of Psychology and Participant, Programs in  
Neuroscience & Behavior, Women's Studies, and Science, Technology, &  
Society (STS)

1990-96: Associate Professor, Department of Psychology and  
Participant, Programs in Biopsychology and Women's Studies

1983-90: Assistant Professor, Department of Psychology and Participant, Programs  
in Biopsychology and Women's Studies

1980-82: NIH Postdoctoral Fellow and Adjunct Assistant Professor, Department of  
Biology

**Other Employment**

1975-76: Research Technician, Department of Medicine, Division of Endocrinology,  
Beth Israel Hospital/Harvard Medical School, Boston, MA

1974-75: Research Technician, Department of Biochemistry, Tufts University  
School of Medicine, Boston, MA

- **Teaching in STS:**

Feminist Approaches to Science and Technology

Bio-politics of Breast Cancer

- **Selected Publications (2008-2011)**

Gray J. (2010). *State of the Evidence: The Connection Between Breast Cancer and the Environment*. (6<sup>th</sup> edition) Breast Cancer Fund: San Francisco. (monograph)

Raley-Susman KM and Gray JM. (2010). Exploration of gerontogenes in the nervous system: A multi-level neurogenomics laboratory module for an intermediate neuroscience and behavior course. *J Undergrad Neurosci Educ (JUNE)* **8**: A108-A115.

Gray J, Evans N, Taylor B, Rizzo J. and Walker M. (2009)). State of the evidence: The connection between breast cancer and the environment. *Intl J Occup Environ Health* **15**: 43-78.

Nudelman J, Taylor B, Evans N, Rizzo J, Gray J and Walker M. (2009). Policy and research recommendations emerging from the scientific evidence connecting environmental factors and breast cancer. *Intl J Occup Environ Health* **15**: 79-101.

Gray J. (2008) L'état des connaissances: La relation entre l'environnement et le cancer au sein. BCF: San Francisco. (French translation of *State of the Evidence*).

Gray J. (2008). *State of the Evidence: The Connection Between Breast Cancer and the Environment*. (5<sup>th</sup> edition) Breast Cancer Fund: San Francisco. (monograph)

- **Selected Conference Papers, Lectures, Panels (2008-2011)**

Rasanayagam S, Engel C, Gray J, Nudelman J, and Rizzo J. (2011). Moving towards comprehensive chemical reform policy. 8<sup>th</sup> Annual Conference of the Breast Cancer and Environment Research Centers (BCERC), Cincinnati, OH.

Gray J. (2011). Nutrition, environment and women's health. American Dietetics Association – Food and Nutrition Conference and Expo, San Diego, CA.

Gray J, Nudelman J, Engel C, and Rizzo J. (2009). Bisphenol A: From public education to political advocacy. 6<sup>th</sup> Annual Conference of the Breast Cancer and Environment Research Centers (BCERC), Sausalito, CA.

Gray J. (2009). Environmental risks and breast cancer. PPNNE Special Conference: A Critical Link: Women and Environmental Health. Burlington, VT.

Gray J, Nudelman J, and Rangan U. (2009). Bisphenol A: Science and policy implications. Congressional staff briefing. Washington, D.C.

Gray J. (2009). Gaining a better understanding: Breast cancer and the environment. Conference workshop. 9<sup>th</sup> Annual Conference for Young Women Affected by Breast Cancer. Dallas, TX.

Gray J, Coleman G, and Guillette L. (2009). Does environment trump genes? Teasing out factors affecting women's health. 18<sup>th</sup> Annual Meeting of the Society of Environmental Journalists. Roanoke, VA.

Gray J, Brody J. and Rizzo J. (2008). Environmental risks and breast cancer. Joint Congressional staff briefing, Washington, D.C.

## Andrew Fiss

Vassar College, 124 Raymond Ave., Box 353, Poughkeepsie, NY 12604-0353  
anfiss@vassar.edu

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### CURRENT POSITION

Mellon Postdoctoral Fellow in the Science, Technology, and Society Program  
Vassar College 2011-present

### EDUCATION

Ph.D., Indiana University, History & Philosophy of Science (minor: History), June 2011  
Dissertation: "Professing Mathematics: Science and Education in Nineteenth-Century America"

M.A., Indiana University, History & Philosophy of Science, June 2007  
AGEP Fellow (National Science Foundation)

A.B., Vassar College, Mathematics  
Phi Beta Kappa, General Honors, Honors in Mathematics

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### PUBLICATIONS

#### PEER-REVIEWED ARTICLES

"Reexamining 'The Great Experiment': Vassar Students as Objects of Scientific Scrutiny, 1865-1875," *Isis* (under review).

"Problems of Abstraction: Defining an American Standard for Mathematics Education at the Turn of the Twentieth Century," *Science & Education* (6 November 2011): 1-13.

#### OTHER PUBLICATIONS

"Networking Family and Friends: Staying in Touch," in *Journey to the Ph.D.*, supported by the Midwest Alliance for Graduate Education and the Professoriate (forthcoming 2012).

"The Effects of the Civil War on College-Level Math Education," in the *History and Pedagogy of Mathematics 2010 Meeting Review* (April 2010),  
[http://www.hpm-americas.org/wp-content/uploads/2010/04/Fiss\\_Civil\\_War.pdf](http://www.hpm-americas.org/wp-content/uploads/2010/04/Fiss_Civil_War.pdf)

(with Nathan Baxter and Jerry Magnan), "Ultrasonic Beam-forming with the Genetic Algorithm," in the *Complied Presentations of the Research Experience for Undergraduates held at Florida State University* (August 2004),  
[http://www.cespr.fsu.edu/people/myh/reu\\_ppt04/ultrasonic\\_beam.ppt](http://www.cespr.fsu.edu/people/myh/reu_ppt04/ultrasonic_beam.ppt)

#### CONFERENCE PRESENTATIONS (SELECTED)

"Problems of Abstraction: Defining an American Standard for Collegiate Mathematics Education at the Turn of the 20th Century." The History of Science Society Annual Meeting, Montréal, Quebec, November 2010.

“The Effects of the Civil War on College-Level Math Education.” History and Pedagogy of Mathematics (Americas Section), Washington, D.C., March 2010.

“Matrix: The History of a Mathematical Idea.” The “Challenges to Change/New Voices in Academia” Conference, Indiana University, March 2009.

“Situated Knowledge and the Limits of History.” The “Open Secrets” Graduate Conference, Indiana University, March 2008.

#### **INVITED TALKS (SELECTED)**

“Reforming American Education: The Life and Afterlife of the Committee of Ten’s Mathematics Conference.” The History and Philosophy of the Physical Sciences Workshop, Bloomington, Indiana, October 2010.

“Stories of Women in Science (The Case of Christine Ladd Franklin).” Lecture sponsored by AGEP and the Office of Women’s Affairs, Indiana University, March 2007.

#### **RECENT ACADEMIC HONORS AND GRANTS**

- Profiled for the NSF/NASA website “Pathways to Science” (<http://www.pathwaystoscience.org/>) and the Midwest Crossroads AGEP (<http://graduate.indiana.edu/agep/>)
- Richard Westfall Fellowship for Graduate Student Research Travel, Indiana University, Summer 2010
- Alliances for Graduate Education and the Professoriate (AGEP) Fellowship from the National Science Foundation, Indiana University, 2005-2011

#### **PROFESSIONAL ACTIVITIES**

- *Ex-officio* Member of the Steering Committee for Vassar College’s Program in Science, Technology, and Society
- Member of the Midwest Alliance for Graduate Education and the Professoriate (Midwest-AGEP)
- Lecturer for the Women in Science Program, Indiana University

#### **RECENT CLASSES TAUGHT**

##### VASSAR COLLEGE

STS 180: The Scientific Child  
 STS 200: Science and Technology Studies  
 STS/WMST 248: Gender and Science

##### INDIANA UNIVERSITY

HPSC X102: Revolutions in Science: Plato to NATO  
 HPSC X123: Feminism, Science, and Society  
 COLL E103: The Modern University (discussion)



Donald deB. Beaver  
Williams College

Professor Donald deB. Beaver has taught the history of science, technology, and medicine at Williams College since the fall of 1971. Since 1985 he has chaired the program in Science and Technology Studies there. In the 1980s he was the director of Williams' participation in the Sloan New Liberal Arts Program, which attempted to increase the presence of technology studies in the curriculum.

His courses have included the general social history of science and technology, revolutions in science, science and technology in America, introductory science and technology studies, the history of medicine, and the study of gender and science.

A graduate of Harvard College (physics AB 1958) and Yale University (history of science Ph. D. 1966), he studied with Derek J. deSolla Price, which helps account for his primary research thread in scientometrics, with emphasis on collaboration in scientific research. Before coming to Williams, he taught at the University of Missouri-Kansas City (1966-1970), and at Franklin and Marshall College (1970-71).

Beaver has published 38 articles, 26 book reviews, and two books. He is a life member of the History of Science Society and of the International Society of Scientometrics and Informetrics. He has been a member of the American Association for the Advancement of Science since 1966, and of the Society for the Social Studies of Science since its beginning in 1976.

Through the years he has attended many professional society meetings (HSS, 4S, ISSI, COLLNET, AAAS, AHA), and presented a number of papers at them. A favorite annual meeting was that of the Midwest Junto for the History of Science, which he enjoyed from 1966 until the 1990s.

In terms of professional service, he has helped direct two Ph. D. theses, been a member of an evaluating panel for 5 years for grant proposals to the New Jersey Department of Higher Education's Program for technology in the curriculum, and the same for 3 years for the National Science Foundation's Program in the Science of Science and Innovation Policy. He has also evaluated grant proposals to the National Science Foundation's Social Studies of Science, Technology, and Engineering Program as well as evaluated STS Programs at Wesleyan and RPI, and the environmental studies program at Skidmore. He has been a referee for manuscripts submitted to Isis, the American Journal of Physics, IEEE Spectrum, the COLLNET Journal, Scientometrics, Research Policy, Research Journal, and the International Journal of Epidemiology.

## MARIANNE DE LAET

Associate Professor of Anthropology and Science, Technology and Society, Harvey Mudd College  
Chair, Intercollegiate Program of Studies in Science, Technology, and Society, Claremont Colleges  
Director of First-Year Programs, Department of Humanities and Social Sciences, Harvey Mudd College

### Education

Ph.D. 1994 Cultural Anthropology/Science and Technology Studies, University of Utrecht  
M.A. 1988 History and Philosophy of Psychology, University of Leiden  
B.A. 1984 Psychology, University of Leiden

### Employment

2001-2006 Assistant Professor of Anthropology and Science, Technology and Society, Harvey Mudd College  
2001- present Visiting Associate Researcher, California Institute of Technology  
1999-2001 Senior Research Fellow, Division of the Humanities and Social Sciences, California Institute of Technology  
1998-1999 Visiting Assistant Professor, Columbia University School of Engineering and Applied Science  
1996-1998 Visiting Scholar, School of International and Public Affairs, Columbia University  
1994-1996 Visiting Assistant Professor of Science and Technology Studies, Virginia Polytechnic Institute and State University  
1992-1993 School of Social Science, Institute for Advanced Study, Princeton NJ  
1991 Visiting Researcher, UC Santa Cruz

### Selected Grants/Awards

2007 Mellon "Materialities of Taste"  
2004-2006 NSF "Gender and Computer Games"  
2003-2004 Irvine Grant "Culture and Computer Games"  
2004-2005 Mellon "Genderquest workshop"  
2001-2004 NSF "Project Science"  
1996-1999 Netherlands Organization for Scientific Research (NWO) "Intellectual Property and Technology Transfer"  
1992-1993 Bamberger and Fuld Fellowship, Institute for Advanced Studies Princeton  
1991 Fulbright Fellowship

### Recent Service

2007- Chair, STS program Claremont Colleges  
2006- Director of First Year Programs, H/SS HMC  
2005 Program Chair and Local Organizer Annual Meeting Society for Social Studies of Science

### Selected Publications

M.K. de Laet "Physics and Astronomy" *Oxford Encyclopedia of Science, Technology, and Society*. 2006  
\_\_\_ (ed.) *Research in Science and Technology Studies: Knowledge and Technology Transfer* Amsterdam: Elsevier. 2002  
\_\_\_ "Notes on the Traffic between Science Studies and Cultural Studies" *Blackwell Companion to Cultural Studies*  
\_\_\_ with Annemarie Mol "The Zimbabwe Bushpump" *Social Studies of Science*. 2000  
\_\_\_ "Patents, Travel, Space" *Space and Society*. 2000  
\_\_\_ "Intricacies of Technology Transfer. Travel as Mode and Method" *Knowledge and Society*. 1998

## Vivien Hamilton

HSA Dept., Harvey Mudd College  
301 Platt Blvd, Claremont, CA 91711  
(909) 607-7997; vivien\_hamilton@hmc.edu

### EMPLOYMENT

**Assistant Professor**, History of Science. Department of Humanities, Social Sciences and the Arts, Harvey Mudd College. (2011 – present)

### EDUCATION

**Ph.D. Candidate** Institute for the History and Philosophy of Science and Technology (IHPST), University of Toronto (Advisor: Chen-Pang Yeang, Committee: Lucia Dacome, Janis Langins)

**Thesis:** Establishing authority: The role of physics in radiology in Britain and North America, 1895-1928. **Expected May 2012**

**M.A.** (2005) History and Philosophy of Science and Technology, IHPST, University of Toronto (Advisor: Anjan Chakravartty)

**B.Sc. Honours** (2003) Physics and History of Science, Dalhousie University (Thesis advisor: Jeff Dahn)

### RECENT GRANTS AND AWARDS

- University of Toronto Doctoral Completion Award, \$18000 (2010-2011)
- Ontario Graduate Scholarship, \$23,000 (2009-2010)
- Canada Graduate Scholarship, Social Sciences and Humanities Research Council, \$105,000 (2005-2008)

### SELECTED PUBLICATIONS

- Sebastian Gil-Riano and Vivien Hamilton, “Editor’s Introduction: Epistemic Boundaries,” *Spontaneous Generations* 3 (2009), 1-8.
- Vivien Hamilton. “Review of Maria Rentetzi, Trafficking Materials and Gendered Experimental Practices: Radium Research in Early 20<sup>th</sup> Century Vienna,” *Spontaneous Generations* 3 (2009), 246-248.
- Vivien K. Cumyn, M.D. Fleishchauer, T.D. Hatchard and J.R. Dahn. “Design and testing of a low-cost multichannel pseudopotentiostat for quantitative combinatorial electrochemical measurements on large electrode arrays.” *Electrochemical and Solid-State Letters* 6 (6) E15 – E18 (2003).
- S.J. Penney, V. K. Cumyn, D.D. Betts. “A new method for the S=1/2 antiferromagnetic Ising model's properties at any temperature and any magnetic field on the infinite square lattice.” *PHYSICA A* 330 (3-4): 507-518 (2003).

### CONFERENCE PAPERS

- ““Incongruent Bedfellows”: Physics and Medicine in Early 20th Century X-ray Therapy,” Continuity/Discontinuity Conference, American Institute of Physics, Washington DC, 2011.
- “Bewildered Physicians? Reappraising early medical models of X-rays,” Canadian Society for the History of Medicine, Montreal, 2010.

- “Material Evidence in History: An Examination of Early 20<sup>th</sup> Century X-Ray Technology,” HAPSAT Conference, Instruments: Mental and Material, University of Toronto, 2010.
- “Technology without Science: Electrotherapeutics in Victorian Canada,” Canadian Science and Technology Historical Association, Quebec City, 2009.
- “Can Trading Zones Have Experts?” Canadian Society for the History and Philosophy of Science, Carleton University, 2009.
- “Physics in use: Models of electricity in 19th century electrotherapy textbooks,” History of Science Society, Pittsburgh, 2008.
- “Between physics and medicine: The role of the first hospital physicists following the discovery of x-rays,” Meeting of the Three Societies, Oxford, 2008.
- “Safe from prying eyes? Competing notions of danger in the use of early medical x-rays,” Interface 2008: Culture and Technology, Carleton University, 2008.
- “The Curative Powers of Electricity Demonstrated: Electro-therapeutics in Victorian Canada,” Canadian Society for the History and Philosophy of Science, York University, 2006.

### INVITED TALKS

- “Jenny Trout: Canada’s First Licensed Female Physician,” Women in Medicine Group, Undergraduate Medical Students, University of Toronto, January 2010.
- “Privacy Threatened: Popular Perceptions of the dangers of early medical x-rays” Queen’s University Surveillance Studies Colloquium Series, November 2008.

### COURSES TAUGHT

#### HARVEY MUDD COLLEGE:

- History 179: Technology and Medicine (Spring 2012)
- HSA 10: Critical Inquiry, Science and Gender (Spring 2012)
- History 198: Directed Reading, History of Physics (Spring 2012)
- History 82: Science and Technology in the Modern World (Fall 2011)

#### THE UNIVERSITY OF TORONTO

- HPS 211: Scientific Revolutions II (Spring 2009 and Summer 2010)

### PROFESSIONAL ACTIVITIES

- Member, **STS Steering Committee**, Claremont Colleges 2011 - present
- **Editor, *Spontaneous Generations: A Journal for the History and Philosophy of Science*** 2006 – present  
 Managing Editor (2009-2010), Issue 3: Epistemic Boundaries.  
[jps.library.utoronto.ca/index.php/SpontaneousGenerations](http://jps.library.utoronto.ca/index.php/SpontaneousGenerations)
- **University of Toronto Scientific Instrument Collection** 2009 – 2010  
 Group dedicated to preserving and cataloguing the material history of science at the University of Toronto.

### PROFESSIONAL MEMBERSHIPS

- CSHPS, Canadian Society for the History and Philosophy of Science
- HSS, History of Science Society
- SHOT, Society for the History of Technology

## DARIN HAYTON

Haverford College  
370 Lancaster Ave  
Haverford, PA 19041

Tel. +(01) 610.896.4976  
Email: [dhayton@haverford.edu](mailto:dhayton@haverford.edu)

### ACADEMIC POSITIONS

- 2005- Assistant Professor, History of Science, History Department, Haverford College.  
2004-2005 Research Officer, Museum of the History of Science, Oxford University.

### EDUCATION

- 2004 Ph.D. in History and Philosophy of Science, University of Notre Dame  
Dissertation: "Astrologers and Astrology in Vienna During the Era of Emperor Maximilian I (1493-1519)."  
1996 M.A. in History, C.S.U. Long Beach.  
1989 B.Sc. in Chemistry, C.S.U. Long Beach.

### FELLOWSHIPS, GRANTS, AND AWARDS

- 2011 "So Many Boundaries..." Recent Ideas and Ideologies on Expertise, A Workshop. Sponsored by Philadelphia Area Center for the History of Science.  
2007 Renaissance Society of America Research Grant.  
2004 John Highbarger Memorial Dissertation Award, University of Notre Dame.  
2002 Sophia Fellowship, The Warburg Institute, London.  
2001-2002 DAAD Research/Gastwissenschaftler Fellowship, Ludwig-Maximilians Universität, Munich, Germany.  
1999-2000 Fulbright Fellowship, Dissertation research in Vienna, Austria.

### PUBLICATIONS

#### BOOKS

- Revising *The Astrologers of Emperor Maximilian I: Nature, Knowledge, and Politics in the Holy Roman Empire* (University of Pittsburgh Press)  
In progress *Images of Byzantium: Nicephore Gregoras's "A Treatise on the Origin and Construction of the Astrolabe."* Critical edition and translation with scholarly introduction. (Will appear as a volume in the series *Corpus des astronomes byzantins* (Louvain-la-Neuve: Bruylant-Academia).)

### RECENT ARTICLES

- 2010 "Expertise ex stellis: Comets, Horoscopes and Politics in Renaissance Hungary." *Osiris* 25(2010): 27-46.  
2010 "Instruments and Demonstrations in the Astrological Curriculum: Evidence from the University of Vienna ca. 1500." *Studies in History and Philosophy of Science* 41, no. 2(2010): 125-34.

- 2009 "Mathias Corvin, János Vitéz et l'horoscope de fondation de l'Université de Pozsony en 1467," with Jean-Patrice Boudet in *Actes du colloque «Mathias Corvin, les bibliothèques princières et la genèse de l'Etat moderne»* (Országos Széchényi Könyvtár: Budapest, 2009), 205–13.
- 2007 "Martin Bylica at the Court of Matthias Corvinus: Astrology and Politics in Renaissance Hungary." *Centaurus* 49(2007): 185–98.
- 2007 "Astrology as Political Propaganda: Humanist Responses to the Turkish Threat in Early Sixteenth-Century Vienna." *Austrian History Yearbook* 38 (2007): 61–91.

### CONFERENCE PAPERS AND PUBLIC LECTURES

#### INVITED LECTURES

- January 2011 "Astrology as Politics in Renaissance Hungary," Princeton University.
- April 2009 "Astrology and Politics in the Holy Roman Empire." The Crawford Project Workshop, The University of Edinburgh/Royal Observatory Edinburgh, Scotland.
- June 2008 "Hofastrologen und Propheten als politische Berater bei König Matthias Corvinus." *Unglaublich — Unheimlich — Magisch: Unheilsahnung im späten Mittelalter und der frühen Neuzeit*, Universität Heidelberg, Germany.
- November 2007 "L'astronomie: Mathias Corvin, János Vitéz et l'horoscope de la fondation de l'Université de Pozsony en 1467." *Mathias Corvin, les bibliothèques princières et la genèse de l'État moderne*, CNRS, Paris.
- November 2007 "Xenophobia and Moral Condemnation in Plague Epidemics from Ancient Greece to Early Modern Europe." Haverford College Alumni Association, NPR Studios, Washington DC.
- November 2006 "Science and Technology in Medieval Islam: The Case of Astronomy." *The Middle East: Various Perspectives* (Organized by Bryn Mawr).
- September 2006 "Astrology in the medical curriculum at the University of Vienna." *Astrology and the Body*, Cambridge University.

#### RECENT TEACHING

- 2010 – 2011 HIST 118: History of Science from the Fall of Rome to the Renaissance  
 HIST 257: History of the Scientific Revolution  
 HIST 350: Courtly Science in Late Medieval and Renaissance Europe
- 2009 – 2010 HIST 118: History of Science from Greek Antiquity to the Renaissance  
 HIST 259: Collecting Nature, Displaying Authority  
 HIST 350: History of the Occult Sciences in Renaissance Europe
- 2007 – 2008 HIST 118: History of Science from Greek Antiquity to the Renaissance  
 HIST 237: Demons, Witches and the Occult Sciences  
 HIST 259: Collecting and Displaying Nature  
 HIST 350: Teaching Science at the Medieval University

## Curriculum Vitae Jennifer G. Tucker

### Current Position

Associate Professor of History, Wesleyan University (2005-present; Assistant Professor, 1998-2005)

Core Member of the Science in Society Program and Feminist, Gender and Sexuality Studies Program, Wesleyan University (since 1998)

### Previously Held Positions

- Hixon-Riggs Visiting Professor of History and Science/Technology Studies, Harvey Mudd College, Claremont, CA (2009-2010)

- Faculty Fellow, The Sterling and Francine Clark Art Institute, Williamstown, Massachusetts (Fall 2005)

- Faculty Research Fellow, Yale Center for British Art (Fall 2003)

- Andrew W. Mellon Postdoctoral Fellow in the Humanities, California Institute of Technology, Pasadena, CA (1996-1998)

### Education

Ph.D. **Johns Hopkins University**, History of Science, Medicine, and Technology, 1997.

M. Phil. **University of Cambridge**, History and Philosophy of Science, 1990 (Marshall Scholar).

B.A. **Stanford University**, Human Biology (Neuropsychology of Vision, Perception and Memory), with Honors and Distinction.

### Publications:

#### Book Manuscript (in progress)

Facing Facts: The Tichborne Cause Célèbre and the Rise of Modern Visual Evidence (in progress, 150 pp. completed).

#### Book

*Nature Exposed: Photography as Eye Witness in Victorian Science*. Baltimore: Johns Hopkins University Press, 2006.

#### Edited Collections

\_\_\_\_ Guest Editor, Special Theme Issue of *History and Theory*, "Photography and Historical Interpretation," vol. 48 (December 2009).

#### Peer-Reviewed Articles

\_\_\_\_ "Philip O. Gravelle: Science and Commercial Advertising in the Photography of the Unseen," *PhotoResearcher* 16 (forthcoming, Spring 2012). (*PhotoResearcher* is the academic journal of the European Society for History of Photography).

\_\_\_\_ "Photography and the Politics of Urban Space," *Radical History Review* (forthcoming Spring 2012).

\_\_\_\_ "Objectivity, Collective Sight, and Scientific Personae," *Victorian Studies* 50 (4) (2008): pp. 648-657.

\_\_\_\_ "The Historian, the Picture and the Archive," *Isis* 97 (March 2006): 111-120.

\_\_\_\_. "Voyages of Discovery on Oceans of Air: The Image of Science in an Age of 'Balloonacy,'" *Osiris* (1996): 144-176. Translated and reprinted for a museum catalogue published to accompany an exhibition on the history of ballooning at the Musée-Promenade in France: "Voyages exploratoires sur les océans des airs : observation scientifique et image de la science à l'ère de la Ballomanie."

#### Peer-Reviewed Chapters in Books

\_\_\_\_ "Photographic Migrations: The Tichborne Claimant, Popular Archives, and the "Evidence of Camera Pictures," in Kelley Wilder and Gregg Mitman, eds.

*Documenting the World* (completed manuscript, anthology is under review).  
\_\_\_\_\_, "Forward," *Ashgate Research Companion on Victorian Spiritualism and the Occult*, eds. Tatiana Kontou and Sarah Wilburn (Aldershot: Ashgate, 2011).  
\_\_\_\_\_. "Gender and Genre in Scientific Photography." In Ann Shteir and Bernard Lightman, eds, *Figuring It Out: Visual Languages of Gender in Science* (University of New England Press, 2006).  
\_\_\_\_\_. "Photography as Witness, Detective, and Imposter: Visual Representation in Victorian Science." In Bernard Lightman, ed., *Science in Victorian Context* (Chicago: University of Chicago Press, 1997): 378-408.

### **Essays in Museum Exhibition Catalogues and Edited Collections**

\_\_\_\_\_. "Experiments in Glasshouses: Photographic Portraiture in Scientific London," in *Sun-Limned Portraits: The Photography of Richard Beard & Antoine Claudet*, ed. Geoffrey Batchen. (New Haven: Yale Center for British Art, forthcoming 2012).  
\_\_\_\_\_. "Entwined Practices: Engagements with Photography in Historical Inquiry," Special Theme Issue of *History and Theory*, "Photography and Historical Interpretation," vol. 48 (December 2009): 1-12.  
\_\_\_\_\_. "The 'Social Photographic Eye,'" in *Brought to Light: Photography of the Invisible*, ed. Corey Keller (New Haven: Yale University Press, 2008). Shortlisted for the And/Or Prize for Best Book on Photography 2009, London, UK. Translated into German, "Die gesellschaftliche Prägung des fotografischen Blicks" (Vienna: Albertina Museum, 2008).

### **BOOK REVIEWS**

*The Sympathetic Medium: Feminine Channeling, The Occult, and Communication Technologies, 1859-1919*, by Jill Galvan, for *Technology and Culture* (forthcoming, fall 2011).  
Review Essay: "Visualizing Darwinian Revolution: Review Forum," *Victorian Studies*, 52 (3), Spring 2010: 441-448.  
*The Civil Contract of Photography* (MIT Press, 2008), by Ariella Azoulay, *American Historical Review* vol. 116, no. 1 (February 2011): 141-142.  
*Medicine's Moving Pictures*, eds. L. Reagan, N. Tomes, and P. Treichler. *Bulletin of the History of Medicine*, vol. 83, no. 3 (Fall 2009): 639-640.  
*The Tichborne Claimant: A Victorian Sensation*, by Rohan McWilliam. *American Historical Review* 113 (June 2008): 906-907.  
*Predicting the Weather: Victorians and the Science of Weather*, by Katharine Anderson. *Annals of Science*.  
*The Long Sexual Revolution: English Women, Sex and Contraception, 1800-1975*, by Hera Cook. *Bulletin of the History of Medicine*, 79 (Spring, 2005): 842-843.  
*African-American Pioneers in Anthropology*, by Ira E. Harrison and Faye V. Harrison. *Isis* (June 2004).  
*Nature's Government: Science, Imperial Britain, and the "Improvement" of the World*, by Richard Drayton. *Journal of Colonialism and Colonial History* 2:2 (Fall 2001).  
*Nature's Museums: Victorian Science and the Architecture of Display*, by Carla Yann. *Journal of the Society of Architectural Historians*, Vol. 60 (March 2001).  
*Science Incarnate: Historical Embodiments of Natural Knowledge*, by Christopher Lawrence and Steven Shapin, eds. *Victorian Studies* 42 (2000): 497-499.  
*Empire's Nature: Mark Catesby's New World Vision*, by Amy R.W. Meyers and Margaret Beck Pritchard. *Journal of Garden History* (2000): 259-260.

### **Awards and Honors**

- The British Academy-Huntington Library Fellowship for Study in Great Britain (\$2100), Summer 2011
- The Curran Fellowship for Study of the Victorian Press from the Research



Society for Victorian Periodicals, (\$2500), awarded for UK research, Summer 2011.

- “Science across the Curriculum” Grant for developing a collaborative course about the history of the search for life on Mars with Prof. Martha Gilmore, planetary geologist, Department of Earth and Environmental Sciences, Wesleyan University.
- Carol A. Baker Memorial Prize for Interdisciplinary Teaching and Research, Wesleyan University (2001)
- National Endowment for the Humanities Summer Research Grant (2000).
- Andrew W. Mellon Postdoctoral Fellowship in Victorian Studies, Caltech (1996-1998)
- National Endowment for the Humanities Dissertation Grant (1995-1996)
- Social Science Research Council and the American Council of Learned Societies Dissertation Grant (1994-1995)

### **Professional Activities**

- Associate Editor, *History and Technology*, a quarterly journal published by Routledge. Since 2011, serves as Features Editor for a new feature of *History and Technology* titled “Images/Technology/History,” which spotlights new work on the uses of visual images as historical evidence.
- *Radical History Review*, Member of the Editorial Collective (starting fall 2011).
- Editorial Advisory Board Member, “Science/Technology/Culture” series, University of Massachusetts Press.

### **Courses Taught:**

#### **(A) History of Science and Technology**

- “History of Science, 1650 to 1900”
- “Interpreting Life on Mars: Scientific Data and Popular Knowledge” (with Assoc. Professor, Martha Gilmore, Earth and Environmental Sciences)
- “Life Science, Art and Culture: Interactions from the Renaissance to Today”
- “Science in American Life”
- “Gender, Knowledge and Technology Systems”

#### **(B) History**

- “Issues in Contemporary Historiography”
- “Modern British History Survey, 1800-1945”
- “Streets of Victorian London”
- Modern European History Survey (Caltech)
- Globalizing Britain: Empire, Home, and Diaspora

#### **(C) Women’s and Gender History**

- “Introduction to Historical Approaches to the Study of Women, Gender, and Sexuality”
- Senior Research Seminar in Feminist, Gender and Sexuality Studies Program
- “Introduction to Women’s Studies”
- “Gender and Technology”

#### **(C) Visual Analysis**

- “Facts and Artifacts: Visual and Expert Evidence in the Law” (CHUM 346)
- “Looking for an Icon: Ten Photographs That Shook the World”

## JACQUELINE D. WERNIMONT

Assistant Professor of English, Scripps College  
1030 Columbia Ave  
Phone: (401) 226-5703  
Jacqueline.Wernimont@Scrippscollege.edu

### Academic Positions

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|              |   |
|--------------|---|
| 2010-Present | Scripps College, <i>Assistant Professor of English</i>  |
| 2009-2010    | Harvey Mudd College, <i>Claremont Post-Doctoral Fellow</i> and<br><i>Visiting Assistant Professor of Literature</i> |
| Spring 2009  | Harvey Mudd College, <i>Visiting Lecturer</i>   |
| 2008-2009    | Women Writers Project, <i>Textbase Editor and Project Manager</i> ,<br>Brown University                             |

### Education

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|      |  |
|------|--|
| 2009 | Brown University, Ph.D. in English Language and Literatures  |
| 2005 | Brown University, M.A. in English Language and Literatures   |
| 2003 | University of Iowa, B.A. in English Literature (with honors) |

### Interests

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16th and 17th century British literature, history of science and mathematics, poetic theory, possible worlds theory, and digital humanities.

### Recent Individual Grants, Fellowships, and Awards

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- Pacific Security Fellow, Huntington Library, Spring 2010
- Campus Action Grant for a science clinic program for minority women in local high schools, American Association of University Women, 2010
- New Venture Award, Mellon Career Enhancement Grant for work on gender and science, 2009-2010 (Co-PI: Anna Ahn, Assistant Professor of Biology, Harvey Mudd College).
- "Mathematics and Narrative" Grant, Central European University, 2009
- Untermeyer Dissertation Fellowship, 2008-2009
- Mellon Foundation Grant, "Form and History," 2007-2008
- Folger Institute Grant, "Researching the Archive," 2007-2008

### Collaborative Grant-funded Projects

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- Mellon Foundation Faculty Career Enhancement grant, "21<sup>st</sup> Century Shakespeare" 2011-12 (Co-PI) \$55,900.
- Mellon Foundation Faculty Career Enhancement grant for "Digital Archives that Count" 2011-12 (Co-PI)
- National Endowment for the Humanities funded Women Writer's Project "Reception History" digital humanities grant, 2011-2013 (participant)

- Mellon Foundation “Writing Across Borders” Interdisciplinary Faculty Enhancement grant, 2010-2011 (participant)

## **Selected Publications**

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### **Articles**

“Something like a Wormhole: digital literary studies, feminist theory, and possible worlds” *Digital Humanities Quarterly*, proposal accepted, paper under review.

“Feminism in the Age of Digital Archives: The Women Writers Project,” with Julia Flanders, *Tulsa Studies in Women’s Literature*, (forthcoming).

“Reading for Rowdy Form/ Reading for Steady Form in Sir Philip Sidney’s *Defence of Poesie*,” with Corey McEleney, *New Formalisms*, Verena Theile and Linda Tredennick, eds. (forthcoming with Fordham University Press).

“Discovery in The World: the case of Descartes,” *The Invention of Discovery*, James Dougal Flemming, ed. (forthcoming with Ashgate, 2011).

“New Scholarship, New Pedagogies: A View from the ‘EEBO Generation’.” *Early Modern Literary Studies*, Spring 2008 Special Edition, with Stefania Crowther, Ethan Jordan, and Hillary Nunn.

### **Digital Exhibits and Articles**

“Women and the Writing of Science: Jane Sharp’s Midwives Book,” *Women Writers Project*, [www.wwp.brown.edu](http://www.wwp.brown.edu). (submitted November 2010)

## **Recent Invited Talks**

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“The Early Modern Transmission of Knowledge in ‘Migrations of the Mind: Manuscripts from the Schoenberg Collection’”

Getty Research Institute, Los Angeles, CA, April 2010

“Women as Public Intellectuals: the case of Margaret Cavendish”

Women’s Union, Pomona College, Claremont, CA, September, 2008

## RICHARD KENDALL WORTHINGTON, PhD

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Pomona College  
Department of Politics  
Claremont, CA 91711-6336

(909) 607-3529  
FAX: (909) 607-1274  
rworthington@pomona.edu

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### Professional Experience

#### Pomona College

|   |   |
|---|---|
| Professor of Politics   | 1990-present                                  |
| Chair, Politics Department  | 2003-2006                                     |
| Chair, Science, Technology and Society Program<br>of the Claremont Colleges | 1994-1996, 1997-1999, 2002-2006, 2009-present |
| Chair, Program in Public Policy Analysis                                    | 1990-2003; 2007 - present                     |

#### University of Southern California

|  |           |
|--|-----------|
| Associate Director, Center for Telecommunications Management | 1990-2000 |
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#### Harvey Mudd College

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| Visiting Associate Professor of Government | Fall 1990 |
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#### Rensselaer Polytechnic Institute

|  |             |
|--|-------------|
| Associate Professor of Political Science                     | 1983 - 1992 |
| Department of Science and Technology Studies                 | 1983 - 1992 |
| Research Associate, Center for Science and Technology Policy | 1986 - 1992 |
| Director, Graduate Program in Science & Technology Studies   | 1983 - 1988 |
| Assistant Professor of Political Science                     | 1977 - 1983 |

#### Nelson A. Rockefeller Institute of Government, State University of New York Research Foundation

|               |             |
|---------------|-------------|
| Senior Fellow | 1984 - 1985 |
|---------------|-------------|

#### Escuela de Administración de Negocios para Graduados (Peru)

|                    |      |
|--------------------|------|
| Research Associate | 1982 |
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#### University of Oregon

|  |             |
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| Graduate Teaching Fellow and Instructor, Department of Political Science | 1972 - 1977 |
| Contemporary Events Coordinator, Cultural Forum                          | 1975 - 1976 |

#### Hartnell College, Salinas, California

|                                 |      |
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| Instructor, American Government | 1973 |
|---------------------------------|------|

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### Education:

|         |   |             |
|---------|---|-------------|
| MS/Ph.D | Political Science, University of Oregon               | 1973 - 1977 |
| B.A.    | Political Science, University of California, Berkeley | 1971        |
|         | San Francisco State College                           | 1968 - 1969 |
|         | Pasadena City College                                 | 1967 - 1968 |

## SELECTED PUBLICATIONS

- "The Politics of Energy Self Sufficiency in American States and Regions", in Gregory Daneke and George K. Lagassa, eds., *Public Administration and Energy Policy* (D.C. Heath, 1980), pp. 37-61.
- "Toward a Synthesis of Politics and Trust", *Humanity and Society*, December, 1980, pp. 321-343, with Valerie Restivo.
- "Socialism and Ecology: An Overview", *New Political Science*, Winter 1984, pp. 69-83.
- "Renewable Energy Policy and Politics: The Case of the Windfall Profits Tax", *Policy Studies Journal*, Dec. 1984, pp. 365-376.
- "Latin America" in Herbert I. Fusfeld, ed., *Framework for Interaction: Technical Structures in Selected Countries Outside the European Communities* (RPI Center for Science and Technology Policy, 1987), 62 pages.
- "Consolidating a Field: RPI's Doctoral Program in Science and Technology Studies", *Bulletin of Science, Technology and Society*, v. 7, 1987, pp. 829-839. Reprinted in *Ciencia, Tecnologia, y Sociedad*, Manuel Medina and José Sanmartín, eds., Anthropos (Barcelona, 1990).
- "Democracy and Disaster: The Crisis of (Meta) Planning in America", *Industrial Crisis Quarterly*, July 1988, pp. 33-51, with Michael Black.
- "Science and Technology as a Global System" (symposium editor). Four original essays on the globalization of science and technology. In *Science, Technology and Human Values*, Winter 1993. Contributed essays include:
- "Science and Technology as a Global System", pp. 176-185.
- "Globalization of Science and Repression of Scientists in Mexico", pp. 209-229, with Mauricio Schoijet.
- "The North American Free Trade Agreement and the Politics of Environmental Discourse: Economic Growth versus the Environment" in M. Black and F. Fischer, eds., *Greening Environmental Policy*, London, Paul Chapman, 1995, w D. Churchill
- "Immisseration of Industrial Scientists in the United States" in *Minerva: A Journal of Science, Learning and Policy*, Autumn 1995, with Roli Varma
- The Internet a la Fin de Siècle: The Prospects for Internet Commerce*, USC Center for Telecommunications Management, January 1998, with M.J. Mehler, et. Al.
- Rethinking Globalization: Production, Politics, Actions*, Peter Lang Publishing, 2000.
- "The Rain Forests", *International Encyclopedia of Science, Technology and Society*, Oxford University Press, 2005, pp. 443-444, with Elizabeth Merrill
- "Science Shops in Central and Eastern Europe: Challenges and Opportunities", in *Living Knowledge: International Journal of Community Based Research*, January 2008, pp. 7-10, with Bálint Balazs, Diana Cupsa, Lucian Georgescu, Jiří Holas, Vlasta Holasová, Ilie Telcean.
- "Community-Based Research and Technoscience Activism", *Science as Culture*, pp. 485 – 490, December 2007.
- Citizen Participation in Global Environmental Governance*, Earthscan, London, 2011, with M. Rask and M. Lammi (ed).

## SELECTED SPONSORED RESEARCH AND DEVELOPMENT

- "Federal Policy and Local Environmental Problem-Solving", National Science Foundation, 1974, co-principal investigator with nine undergraduate and graduate students at the University of Oregon. \$15,000.
- "Societal Contingencies and Energy Conservation Policy", United States Department of Energy, 1978, 1979, 1980, summer seminar for college and secondary faculty, Associate Director in 1979 and 1980. \$90,000.
- "Global Telecommunications Infrastructure Research Project", 1991-1995. USC Center for Telecommunications Management. Responsible for study design, staffing, funding and oversight. \$600,000.
- Haynes Foundation Fellowship, Summer 2000, \$10,000.
- Annie E. Casey Foundation grant to the Loka Institute for Community Research Network annual conference, 2003, \$65,000.
- National Science Foundation, "World Wide Views on Global Warming: Process and Outcomes", \$235,955, 2009 – 2012.

## BOARDS

- Chair, Board of Trustees, The Loka Institute
- Advisory Board, Draper Center for Community Partnerships, Pomona College