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### **ACADEMIC POSITIONS**

Department of History and Politics, Drexel University, Philadelphia, PA  
Associate Professor, 2002-present; Assistant Professor, 1996-2002  
Director, Master's Program in Science, Technology and Society, 2000-present  
Assistant Department Head, 2003-present  
Graduate and Undergraduate Courses in: Science, Technology and Society; History of Technology; Race and Technology; Gender and Technology; Architecture and Politics; United States History (Nineteenth- and Twentieth-Century); and Historical Research and Methods.

Independent College Programs, Haverford College, Haverford, PA  
Visiting Associate Professor, 2007-2009  
Co-Organizer, Faculty Development Seminar on "Imaging and Science"  
Instructor, Undergraduate Courses, "Science and Society: An Introduction" and "Race, Science, and Understandings of Human Aptitude"

Department of the History of Science, Harvard University, Cambridge, MA  
Teaching Fellow, 1994-1996  
Undergraduate Courses in: History of Technology; History of Science; History and Methods; Junior and Senior Thesis Supervision

### **EDUCATION**

University of Pennsylvania, Department of History and Sociology of Science, Ph.D., 1995

Dissertation: "Origins of a Modern Form: The Reinforced-Concrete Factory Building in America, 1900-1930"; Advisor: Thomas P. Hughes

Pratt Institute, M.F.A., Painting and Printmaking, 1980

Northwestern University, B.A., Fine Arts and Art History, 1978

## **SELECTED PUBLICATIONS**

### **Books:**

*Race, Rigor and Selectivity in U.S. Engineering: The History of an Occupational Color Line* (forthcoming February 2010, Cambridge, Mass.: Harvard University Press)

*Reinforced Concrete and the Modernization of American Building, 1900-1930. Studies in the History of Technology* (Baltimore: Johns Hopkins University Press, 2001)

### **Articles, Essays and Book Chapters:**

“Practitioner Identity and the Meaning of Merit,” in *Gender in Science and Engineering*, ed.: Maria Rentetzi, (Athens: National Technological University of Athens, forthcoming 2009 [Greek; translated from English])

“‘Minority Engineering Education in the United States Since 1945’: A Research Proposal,” in *Technology and the African-American Experience: Needs and Opportunities for Study*, ed.: Bruce Sinclair (Cambridge, Mass.: MIT Press, 2004): 171-185 [refereed]

“Diversity in the Infinite Corridor: Documenting Race at M.I.T.” (review essay), *Annals of Science* 60 (2003): 321-325

“Suitable for Framing: Fingerprinting and the Rise of Criminal Identification” (review essay), *Technology and Culture* 43 (2002): 777-781

“George Washington Carver Slept Here: Racial Identity and Laboratory Practice at Iowa State College,” *History and Technology* 17 (2001): 353-374 [refereed]

“‘As Near as Practicable:’ Ambiguity, Precision, and the Social Features of Quality Control,” *Technology and Culture* 42 (2001): 51-80 [refereed]

“The Hidden Lives of Standards,” with Janet Abbate, in *Technologies of Power: Essays in Honor of Thomas Parke Hughes and Agatha Chipley Hughes*, eds.: Michael Allen and Gabrielle Hecht (Cambridge, Mass.: MIT Press, 2001): 95-143 [refereed]

“Style/Type/Standard: The Production of Technological Resemblance,” in *Picturing Science/Producing Art*, eds.: Peter L. Galison and Caroline Jones (New York and London: Routledge Press, 1998): 78-97

### **SELECTED PUBLICATIONS, continued**

“Aesthetics of a Modern Industry: Buildings of the Delaware, Lackawanna & Western Railroad’s Scranton Yards,” *IA: Journal of the Society for Industrial Archaeology* 22 (1996): 25-40

“Ernest Ransome,” “The Ward House,” and other essays in *L’art de Ingenieur*, ed.: Antoine Picon (Paris: Centre Georges Pompidou and Le Monitor, 1997)

"Reinforced Concrete," in *Twentieth-Century Building Materials*, ed.: Thomas Jester (McGraw- Hill, 1995)

Book reviews in *Isis*; *Annals of Science*; *Journal of the Society of Architectural Historians*; *Design Book Review*; *Historical Studies in the Physical and Biological Sciences*; *Technology and Culture*; and *IEEE Technology and Society Magazine*

### **GRANTS, AWARDS AND FELLOWSHIPS**

**National Science Foundation**, Directorate for Social, Behavioral and Economic Sciences, Division of Social and Economic Sciences, Program in Science and Technology Studies: Award #0551397 [2/2006-2/2008]; with Dr. Kali Gross and Dr. Keith Wailoo, co-P.I. for conference grant for “Science, Technology and the Historiography of Race: An Interdisciplinary Conversation” (Drexel University, March 2007)

**Society the History of Technology**, Conference Grant; with Dr. Kali Gross and Dr. Keith Wailoo, for “Science, Technology and the Historiography of Race: An Interdisciplinary Conversation” (Drexel University, March 2007)

**National Science Foundation**, Directorate for Social, Behavioral and Economic Sciences, Division of Social and Economic Sciences, Program in Science and Technology Studies: Award #0115208 [10/01-10/05]; P.I. for grant of salary replacement, travel expenses and other costs related to research project, “Minority Engineering Education in the United States, 1945 to the Present”

**Society for the History of Technology**, Abbott Payson Usher Prize, 2003 (awarded annually to the author of the best scholarly work published during the preceding three years under the auspices of SHOT), for “‘As Near as Practicable:’ Ambiguity, Precision, and the Social Features of Quality Control,” *Technology and Culture* 42 (2001): 51-80

**Chemical Heritage Foundation**, Cain Research and Travel Grant, 2004

**GRANTS, AWARDS AND FELLOWSHIPS, continued**

**Society for the History of Technology**, Conference Grant, 2004-2006 (for development of conference entitled "Science, Technology, and the Historical Influence of Race: An Interdisciplinary Conversation" to be held spring, 2006; with Prof. Kali Gross, Director of Africana Studies, Drexel University)

**National Science Foundation**, Directorate for Social, Behavioral and Economic Sciences, Division of Social and Economic Sciences, Program in Science and Technology Studies: Award #9815287 [09/98-08/00]: CO-P.I. for grant for workshop on "STS Curricula and the Pursuit of Diversity in Science and Technical Education," October, 1999, Drexel University: Institute for the Humanities, with Dr. Julie Mostov

**The Sherwin-Williams Company**, Philadelphia, PA, Grant for 1998-1999 Speaker Series in Science, Technology and Society, (Drexel University: Institute for the Humanities), with Dr. Julie Mostov, 1998

**Harvard University**, Department of the History of Science, Post-doctoral Fellowship, 1994-1996; under direction of Dr. Peter L. Galison

**Harvard University**, Graduate School of Business Administration, Alfred D. Chandler Travel Fellowship, 1993

**Samuel H. Kress Foundation**, Travel Fellowship, 1993

**Society for the History of Technology/Historic American Engineering Record**, Dissertation Fellowship, 1993-1994

**University of Pennsylvania**, Dissertation Fellowship, 1992-1993

**National Science Foundation**, Graduate Fellowship, 1989-1992

**SELECTED PAPERS AND PRESENTATIONS**

"Knowledge Found and Lost: Secrecy and Liability in Skyscraper Preservation and Repair," Society for the History of Technology, Annual Meeting, Oct. 16-19, 2009

"Manual and Labor: Constructions of Worker (In)Competence, (Mal)Intention, and (Minority) Identity in the Factory Handbook," Society for the Social Studies of Science, Annual Meeting, Oct 28-31, 2009

**SELECTED PAPERS AND PRESENTATIONS, continued**

Comment, "The History of American Science Education" History of Education Society, Annual Meeting, Oct. 22-25, 2009

“American Racial Ideologies at the 'Frontiers of Truth': White Denials of Black Scientific Aptitude in the 1940s,” Fifth Laboratory History Conference, Johns Hopkins University, June 4-5, 2009

“Go/No Go: The Social Relations of Measurement in U.S. Manufacturing,” Invited Speaker, Conference on "Instruments in Manufacturing," Rice University, June 17-19, 2009

"Conclusions from *Race, Rigor, and Selectivity in U.S. Engineering*," Invited Speaker, Workshop on "Engineering Identities---Deepening Theoretical Understandings" (International Network for Engineering Studies), Rensselaer Polytechnic Institute, July 23-24, 2009

"Among Giants: City Hall and the Philadelphia Skyline," Invited Speaker, Philadelphia Foundation for Architecture, May 26, 2009

Organizer, "A Round-Table Conversation : 'Science, Technology, and the Social Functions of Our Disciplinary Boundaries; or, Is SHOT Necessary?'" (with Maria Rentetzi, National Technological University of Athens; Jessica Wang, University of British Columbia), Society for the History of Technology, Lisbon, Portugal, Oct. 12-14, 2008

“Race and the Construction of Aptitude in the ‘Post-Civil Rights’ U.S.,” Invited Speaker, Philadelphia Area Center for the History of Science (PACHS), April 18, 2008

“Two Steps Back: Engineering and Race at the University of Maryland in the Separate-but-Equal Era,” Invited Speaker, Maryland Colloquium in the History of Technology, University of Maryland, College Park MD, April 2007

"American Universities and the 'Whiteness' of Engineering: Origins of an Occupational Color-Line," Fourth Biennial Laboratory History Conference, University of British Columbia, Vancouver, March 2006; Invited Speaker, Department of History, Mississippi State University, Starkville MS, September 2006; Invited Speaker, University of Wisconsin, Madison WI, March 2007

“Setting Tolerances: Minority Engineering Programs and the Limits of University Diversity Agendas,” with Agyeman Boateng, International Network for Engineering Studies, Virginia Tech, Blacksburg VA, September 2006

**SELECTED PAPERS AND PRESENTATIONS, continued**

“Keeping STS Out: Disciplinarity, Rigor, and the Stigma of Activist Scholarship,” STS (R)evolutions Conference, Virginia Tech, Blacksburg VA, March 2005

“How Exclusion Happens: American Engineering Education and the Maintenance of Racial Difference,” Invited Speaker, Department of the History of Science and Technology, Johns Hopkins University, September 2004

“Metrics of Doubt: Public Mistrust and the CDC’s Smallpox Vaccination Program,” with Susan Coffin, MD, University of Pennsylvania School of Medicine, Society for the History of Technology (SHOT) Annual Meeting, Amsterdam, October 2004

Invited Speaker, Conference on “National Identities of Engineers: Their Past and Present,” National Technical University of Athens and Ecole Nationale des Ponts et Chaussees, Syros, Greece, July 2004

“Urban Renewal and the Whiteness of Engineering: Historical Origins of an Occupational Color Line,” Invited Speaker, Department of History and Sociology of Science, University of Pennsylvania, November 2003

“Race, Geography, and the Definition of Engineering Communities: The University of Maryland 1940-1960,” History of Science Society, Annual Meeting, Cambridge, Mass., November 2003

“Reinventing the Factory,” Hagley Fellows Conference, Hagley Museum and Library/University of Delaware, Invited Keynote Speaker, Wilmington, Del., March 2003

“Engineering Education and Chicago’s Geographies of Race,” Third Biennial Laboratory History Conference, University of Illinois, Urbana, Ill., March 2003

“Minority Engineering Programs at the Illinois Institute of Technology,” Social Science History Association, Annual Meeting, St. Louis, October 2002

“Liberal Studies and the Integrated Engineering Education of ABET 2000,” Invited Participant, Planning Conference: University of Virginia, School of Engineering and Applied Science, Charlottesville, Va., April 2002

Invited Speaker, “Workshop on Race and/in The History of Technology,” Center for Diversity in the History of Science, Technology, and Medicine, Massachusetts Institute of Technology, Cambridge, Mass., March 2002

**SELECTED PAPERS AND PRESENTATIONS, continued**

Invited Speaker, Planning Meeting, "Addressing the Crisis in Critical Personnel Skills to Design, Construct, Manage and Operate the Nation's Facilities and Infrastructure," Board on Infrastructure and the Constructed Environment, National Academy of Engineering/National Research Council, Washington, DC, January 2002

"Technical Change and Social Stasis: Racial Ideologies in American Engineering Education since 1945," Invited Speaker, Department of Science and Technology Studies, Cornell University, November 2001

Comment, "The Role of Risk In Technological Change," Panel, Society for the History of Technology (SHOT) Annual Meeting, October 2001

"Race, Gender and the Modern Engineering Department: The Laboratories of Iowa State," Second Biennial Laboratory History Conference, Jefferson National Laboratories, Newport News, Va., April 2001

Introductory Address, "John Earley and Concrete Construction and Decoration 1910-1945," Invited Speaker, Society of Architectural Historians, Baltimore, March 2001

"Standards and Specifications: Shaping the Modern Workplace," Invited Speaker, Dibner Institute for the History of Science and Technology, Cambridge, Mass. April 2000

"Materials Standards for Industry and the Problem of Scientific Fixity," History of Science Society Annual Meeting, Pittsburgh, 1999 and the University of Pennsylvania, 1999

"Materials Standards and the 'Neutrality' of Engineering Practice," SHOT Annual Meeting, Detroit, 1999

Comment, "Of Rivers and Engineers," SHOT Annual Meeting, Baltimore, 1998

"Science into Commerce: Materials Science and Engineering Professions in the U.S., 1900-1920," Cambridge University and University College London, 1996

Comment, "Liquid Technologies," SHOT Annual Meeting, London, 1996

"Style/Type/Standard: The Production of Technological Resemblance," conference on "Histories of Science/Histories of Art," Harvard University, 1995

**SELECTED PAPERS AND PRESENTATIONS, continued**

"What 'Modern' Meant: The Construction and Cultural Status of the Early Twentieth-Century Factory Building," Hagley Museum and Library, conference on "Industrial Modernism: Factory Architecture, Engineering, and Workers' Housing," 1995

"The Persistence of Expertise in Standardized Building Practice," SHOT Annual Meeting, Lowell, MA, 1994

"Building for Commerce: Concrete Factory Architecture in America, 1900-1920," Society of Architectural Historians, Charleston, SC, 1993

"Approaches to the History of Building: Technology, Aesthetics and Expertise," Royal Institute of Technology, Stockholm, Sweden and Lehigh University, 1992

**ADVISORY AND PROFESSIONAL EXPERIENCE**

Advisory Board Member, Industrial Heritage Corridor Development Project: Binghamton/Johnson City/Endicott, New York, 2002-2007

Advisory Board Member, National Building Museum, Washington DC, "Reinforced Concrete" exhibition development, 2002-2004

Historian, Historic American Engineering Record, National Park Service, Washington, DC, intermittent, 1989-1992: Writing and editing of inventories of historic railroad and military structures, 1885-1980

Historian, Renewable Technologies, Inc., Butte, Mont., 1990: Documentation of U.S. Bureau of Reclamation structures in Idaho and Oregon, 1909-1955

Associate Managing Editor, *Art in America* Magazine, New York, NY, 1982-1988

**PROFESSIONAL SERVICE**

Society for the History of Technology:

Editorial Committee (2008-2011)

Executive Council (2005-2007)

Nominating Committee, 2000-2002 (Chair, 2002)

Levinson Prize Committee, 2000-2002 (Chair, 2001)

Da Vinci Prize Committee (Voting member), 1998-1999, 2001-2002

Secretarial Search Committee, 1998

Robinson Prize Committee, 1997-1999; 2009 (Chair, 1998)

Secretary/Treasurer, Building and Civil Engineering S.I.G., 1997-1999

Women in Technology's History (WITH) S.I.G, 1998-present.

Member, 1988-present

Member, Editorial Board, *Engineering Studies*, 2008-present

Book Review Editor, *History and Technology*, 2002-2008

Visiting Committee, Howard Hughes Medical Institute Grant Review, "Biology, Medicine and Society Program," Haverford College, 2000, 2003

Dissertation committee member, thesis advisor, and independent study instructor for graduate and undergraduate programs at the Drexel University School of Public Health and College of Engineering; University of Pennsylvania; and Haverford College

Member, History of Science Society, 1994-present

Member, Social Science History Association, 2002-2006