

# **AMY E. SLATON, PhD**

**Department of History and Politics**

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## **ACADEMIC POSITIONS**

Department of History and Politics, Drexel University, Philadelphia, PA

Professor, 2011- present; Associate Professor, 2002-2011; Assistant Professor, 1996-2002

Director, Master's Program in Science, Technology, and Society, 2001-2009

Assistant Department Head, 2003-2009

Graduate and Undergraduate Courses in: Science, Technology and Society; History of Technology; History of Science; Race, Gender, Disability and Intersectionality in Science and Technology; History of Museums; Architecture and Politics; Labor History; 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* (Cambridge, Mass.: Harvard University Press, 2010)

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

In preparation:

*All Good People: Diversity, Difference and Opportunity in High-Tech America* (under contract to MIT Press)

*New Materials: Towards a History of Consistency*, Editor

### **Articles and Book Chapters:**

“Drexel’s Architecture: Encountering the Urban Campus,” in S.G. Knowles and R. Dilworth (eds.), *Building Drexel: The University and Its City* (Temple University Press, 2016)

“Grit: Yearning, Personhood, and the Ontologies of American Engineering Education” with Donna M. Riley and Erin Cech, in S. Fifield and W. Letts (eds.), *STEM of Desire* (forthcoming 2017, Sense Publishers)

“Work, Skill and Technology,” in *A Cultural History of Work in the Modern Age: Vol. VI: 1920-Present*, Daniel Walkowitz (ed.) (forthcoming, Bloomsbury Press)

“The Power and Politics of Research Design: Saving the ‘Small N’,” with Alice Pawley. American Society for Engineering Education *Annual Conference Proceedings* 2015

“What is Gained by Articulating Non-Canonical Engineering Ethics Canons?” with Donna M. Riley and Joseph Herkert. American Society for Engineering Education *Annual Conference Proceedings* 2015

“Food for Thought: On the Cutting Edge of Yesterday,” *Pennsylvania Legacies* (Historical Society of Pennsylvania Magazine) 15/1 (Spring 2015): 40-41

**Articles and Book Chapters, continued:**

“Meritocracy, Technocracy, Democracy: Understandings of Racial and Gender Equity in American Engineering Education,” in S.H. Christensen, C. Didier, A. Jamison, M. Meganck, C. Mitcham, and B. Newberry (eds.), *International Perspectives on Engineering Education: Engineering Education and Practice in Context. Volume 1.* (Springer Science + Business Media B.V. 2014)

“Social Justice and Inclusion: Women and Minorities in Engineering” with Donna Riley and Alice Pawley, in A. Johri and B. Olds, eds., *Cambridge Handbook for Engineering Education Research* (Cambridge University Press 2014): 335-356

“Body? What Body? Considering Ability and Disability in STEM Disciplines,” American Society for Engineering Education *Annual Conference Proceedings* 2013 AC 2013-7526

“Engineering Improvement: Social and Historical Perspectives on NAE’s ‘Grand Challenges,’” *International Journal of Engineering, Social Justice and Peace* 1 (Fall 2012): 95-108

"The Uses of Context: Steen Hyldgaard Christensen, Bernard Delahousse, and Martin Meganck, eds., *Engineering in Context*" (Review Essay), *Technology and Culture* 40 (October 2011) : 805-808

"Metrics of Marginality: How Studies of Minority Self-Efficacy Hide Structural Inequities," American Society for Engineering Education *Annual Conference Proceedings* 2011, AC 2011-1548

"Note to Self: Save Humanity (The Grand Challenges of the National Academy of Engineering)," American Society for Engineering Education *Annual Conference Proceedings* 2011, AC 2011-1553

"Ambiguous Reform: Technical Workforce Planning and Ideologies of Class and Race in 1960s Chicago," *Engineering Studies* 2 (April 2010): 5-28

"Engineering Segregation: The University of Maryland in the Twilight of Jim Crow," Org. of American Historians *Magazine of History* (April 2010): 15-22

"Two-Year Colleges and the Allure of 'Nano': Understanding Institutional Enthusiasms," with Mary Ebeling, American Society for Engineering Education *Annual Conference Proceedings* 2010, AC 2010-936

**Articles and Book Chapters, continued:**

“Practitioner Identity and the Meaning of Merit,” in *Gender in Science and Engineering*, ed.: Maria Rentetzi, (Athens: National Technological University of Athens, 2012 [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

“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

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

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

“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

“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 (New York: McGraw-Hill, 1995)

**Other publications:**

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

Op-Ed and column contributions to the *Philadelphia Inquirer*, InsideHigherEd.com, and others; blog: amyeslaton.com

**GRANTS, AWARDS AND FELLOWSHIPS**

**National Institute of Standards and Technology (NIST), Standards Services Curricula Development Cooperative Agreement Grant**, with Scott Gabriel Knowles, Tiago Saraiva and Sharon Ku. Support for 2015 Summer Institute (June 12-25, 2015, Drexel University) and ongoing projects [9/2014-12/2016].

**National Science Foundation, Social and Economic Sciences, Award Number 1556531**, for “Workshop: Biography in Science, Technology and Medicine,” PIs: Evelyn Hammonds, Harvard University and Amy Slaton, Drexel University; \$25,000.00 [Start Date 05/01/2016].

**National Science Foundation, Engineering Education Centers, Award Number 1551605**, for “Collaborative Research: Who’s Not at the Table? Building Research Capacity for Underserved Communities in Engineering,” PIs: Julie Martin, Clemson Univ.; Sheryl Burgstahler, Univ. of Washington; Amy Slaton, Drexel University; \$195,010 [Start Date 10/15/2015].

**Center for Nanotechnology in Society, University of California Santa Barbara**, Interdisciplinary Research Group 1: Origins, Institutions and Communities: Research and travel support [9/2013-8/2015], for “Divided Labor and Stratified Opportunity in American Nanomanufacturing: The Paradox of the Middle Skilled”

**National Science Foundation**, Directorate for Social, Behavioral and Economic Sciences, Division of Social and Economic Sciences, Program in Science, STS and Program in Advanced Technical Education: Award #0956518 [9/2010-8/2011]; with Dr. Mary Ebeling, co-P.I. "Two-Year Colleges & the Invention of Nano-Labor: Between Promise and Possibility"

**GRANTS, AWARDS AND FELLOWSHIPS, continued**

**American Society for Engineering Education, Liberal Education/Engineering in Society Division, *Sterling Olmsted Award*** (for Distinguished Contributions to the Development and Teaching of Liberal Arts and Engineering Education), 2018

**Philadelphia Area Center for the History of Science**, Conference Grant: "So Many Boundaries...: Recent Understandings of Scientific Expertise" (Chemical Heritage Foundation and Drexel University, May 2011)

**National Science Foundation**, Directorate for Social, Behavioral and Economic Sciences, Division of Social and Economic Sciences, Program in Science, Technology and Society: 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 for 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, 2007)

**National Science Foundation**, Directorate for Social, Behavioral and Economic Sciences, Division of Social and Economic Sciences, Program in STS and Program in Engineering Education: Award #0115208 [10/01-10/05]: P.I. "Minority Engineering Education in the US, 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

**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" (2007); with Dr. 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

**GRANTS, AWARDS AND FELLOWSHIPS, continued**

**The Sherwin-Williams Company**, Philadelphia, PA, Grant for 1998-1999  
Drexel University STS Speaker Series, 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**

**“Race, Gender and Disability in American Engineering: Why STEM Diversity Must  
and Cannot Work”**

2016 Bovay Annual Lecture in Engineering Ethics, Cornell University, April 19,  
2016 [invited speaker]

Department of History, Program in STS, University of Puget Sound, September  
29, 2016 [invited speaker]

**“Grit, Gumption and Virtuous Bodies: Constructions of Promise in American  
Engineering Students”**

National Association for Research in Science Teaching, Baltimore, MD, April 16-  
18, 2016

**“Diversity in the Meritocracy: Thinking about Talent and Identity in High-Tech  
American”**

Texas A&M Univ., Department of History, Dec. 3, 2015 [invited speaker]

**Presidential Plenary Panel: “Diversity as Methodology in the History of  
Technology”**

Society for the History of Technology Annual Meeting, Albuquerque, NM, Oct.  
9-11, 2015 [invited speaker]

**SELECTED PAPERS AND PRESENTATIONS, continued**

**“Nano-Eyes, Nano-Hands, and the Stratification of Laboratory Labor”**

9<sup>th</sup> Lab History Meeting, Albuquerque, Albuquerque, NM, Oct. 11-12, 2015

**“Selves, Measured, Measuring Nature”**

History of Science Society Annual Meeting, San Francisco, Nov. 18-22, 2015

**"Meritocracy, Technocracy, Democracy: Understandings of Racial and Gender Equity in American Engineering Education"**

Illinois Institute of Technology, Armour College of Engineering, NMAE Seminar, December 3, 2014 [invited speaker]

Virginia Commonwealth University, Program in Science, Technology and Society, March 19, 2014 [invited speaker]

Harvey Mudd College (Hixon Forum for Responsive Science and Engineering), March 3, 2012 [invited speaker]

**“Go/No-Go: Measurement, Inscription, and the Legible Industrial Worker”**

Department of Art History and Communication Studies, McGill University, February 20, 2014 [invited speaker]

**President’s STEM Diversity Breakfast, Invited Keynote Speaker**

Colorado School of Mines, November 1, 2013

**“New Promise, Old Promise: Workforce Education and Opportunity in American Nanomanufacturing”**

Center for Nanotechnology in Society, University of California Santa Barbara, February 21, 2013 [invited speaker]

**“The Neoliberal Logic of the Two-Tiered Technical Workforce”**

Colloquium on Work, Labor and the Economy, University of California Santa Barbara, February 22, 2013 [invited speaker]

International Network on Engineering Studies, Alborg University, Copenhagen, October 16-17, 2012

**“Impossible and Necessary: Crafting a Critical Scholarship of (Dis)ability in Scientific Practice”**

Feminist Science and Technology Studies Initiative & Program in Engineering, Smith College, February 11, 2013 [invited speaker]



**SELECTED PAPERS AND PRESENTATIONS, continued**

**“Pursuing STEM Diversity: The 'Problem' of Identity in American Science and Engineering”**

Conference on STEM Education, Oakton Community College, Skokie, Illinois, October 26, 2012 [invited plenary speaker]

Penn State Great Valley, Graduate Programs in Engineering, February 20, 2012 [invited speaker]

**"Diversity, Social Justice, and Humanistic Reform in American Engineering Education: A Challenging History”**

Royal Institute of Technology, Stockholm, October 23, 2012 [invited speaker]

Program in STS, Brown University, September 20, 2012 [invited speaker]

**“Neoliberalism, Innovation, and the Interpretive Potential of Laboratory Studies,” with Mary Ebeling**

Society for the Social Studies of Science Annual Meeting, Copenhagen, October 16-20, 2012, Eighth Lab History Conference, Georgia Tech, March 30-31, 2012

**“Race and Ideologies of Difference at American Land Grants”**

150th Anniversary Celebration of the Morrill Act, Department of History, Mississippi State University, October 3-6, 2012 [invited speaker]

**“The Tyranny of Outcomes: The Social Origins and Impacts of Educational Standards in American Engineering”**

American Society for Engineering Education Annual Conference 2012, Austin, Texas, June 10-13, 2012

**Plenary Panelist, “Can Community Colleges Get Better?”**

Education Writers of America 65<sup>th</sup> National Seminar, Philadelphia, May 17-18, 2012 [invited speaker]

**"Born to Research: Recent Reassertions of Biological Bases for Scientific Talent"**

Society for the Social Studies of Science Annual Meeting, Cleveland, November 4-6, 2011

**“The Smallest Bench: Standards in Nanobiotechnologies” with Mary Ebeling**

Seventh Lab History Conference, Katholieke Univ Leuven, June 6-8, 2011

**"Metrics of Marginality: How Studies of Minority Self-Efficacy Hide Structural Inequities"**

American Society for Engineering Education Annual Meeting, Vancouver, June 27-29, 2011

**SELECTED PAPERS AND PRESENTATIONS, continued**

**"Note to Self: Save Humanity (The Grand Challenges of the National Academy of Engineering)"**

American Society for Engineering Education Annual Meeting, Vancouver, June 27-29, 2011

**"Two-Year Colleges and the Allure of 'Nano': Understanding Institutional Enthusiasms" with Mary Ebeling**

American Society for Engineering Education Annual Meeting, Louisville, KY, June 20-22, 2010

**"Research On Learning and Education Reform"**

The Structures Congress, American Institute of Steel Construction/American Society of Civil Engineers, May 12-15, 2010

**"Reformations of Design Expertise"**

Cambridge Talks IV: Design Politics, Harvard University Graduate School of Design, April 16-17, 2010 [invited speaker]

**"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

**"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"**

Conference on "Instruments in Manufacturing," Rice University, June 17-19, 2009 [invited speaker]

**"Conclusions from *Race, Rigor, and Selectivity in U.S. Engineering*"**

Workshop on "Engineering Identities----Deepening Theoretical Understandings" (International Network for Engineering Studies), Rensselaer Polytechnic Institute, July 23-24, 2009 [invited speaker]

**"Among Giants: City Hall and the Philadelphia Skyline"**

Philadelphia Foundation for Architecture, May 26, 2009 [invited speaker]

**SELECTED PAPERS AND PRESENTATIONS, continued**

**“Race and the Construction of Aptitude in the ‘Post-Civil Rights’ U.S.”**

Philadelphia Area Center for the Hist. of Science, April 18, 2008 [invited speaker]

**“Two Steps Back: Engineering and Race at the University of Maryland in the Separate-but-Equal Era”**

Maryland Colloquium in the History of Technology, University of Maryland, College Park, Md., April 2007 [invited speaker]

**"American Universities and the 'Whiteness' of Engineering: Origins of an Occupational Color-Line"**

University of Wisconsin, Madison, Wisc., March 2007 [invited speaker]

Fourth Laboratory History Conference, UBC Vancouver, March 2006

Department of History, Mississippi State University, Starkville, Miss., September 2006 [invited speaker]

**“Setting Tolerances: Minority Engineering Programs and the Limits of University Diversity Agendas,” with Agyeman Boateng**

Intl. Network for Eng. Studies, Virginia Tech, Blacksburg, Va., September 2006

**“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”**

Department of the History of Science and Technology, Johns Hopkins University, September 2004 [invited speaker]

**“Metrics of Doubt: Public Mistrust and the CDC’s Smallpox Vaccination Program,” with Susan Coffin, MD**

Society for the History of Technology (SHOT) Annual Meeting, Amsterdam, October 2004

**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 [invited speaker]

**“Urban Renewal and the Whiteness of Engineering: Historical Origins of an Occupational Color Line”**

Department of History and Sociology of Science, University of Pennsylvania,  
November 2003 [invited speaker]

**SELECTED PAPERS AND PRESENTATIONS, continued**

**“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, Wilmington, Del., March 2003 [invited keynote speaker]

**“Engineering Education and Chicago’s Geographies of Race”**

Third Laboratory History Conference, Univ. 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”**

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 [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, Natl. Acad. of Engineering/National Research Council, Wash/, DC, January 2002 [invited speaker]

**“Technical Change and Social Stasis: Racial Ideologies in American Engineering Education since 1945”**

Science and Technology Studies, Cornell Univ, November 2001 [invited speaker]

**“Race, Gender and the Modern Engineering Department: The Labs of Iowa State”**

Second Laboratory History Conference, Jefferson National Laboratories, Newport News, Va., April 2001

**Introductory Address, “John Earley and Concrete Construction and Decoration 1910-1945”**

Society of Architectural Historians, Baltimore, Md., March 2001 [invited speaker]

**SELECTED PAPERS AND PRESENTATIONS, continued**

**"Standards and Specifications: Shaping the Modern Workplace"**

Dibner Institute for the History of Science and Technology, Cambridge, Mass.  
April 2000 [invited speaker]

**"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

**"Science into Commerce: Materials Science and Engineering Professions in the  
U.S., 1900-1920"**

Cambridge University and University College London, 1996 [invited speaker]

**"Style/Type/Standard: The Production of Technological Resemblance"**

Conference on "Histories of Science/Histories of Art," Harvard University, 1995

**"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, 1992 [invited speaker]

**EDITORIAL POSITIONS**

Co-Editor, with Tiago Saraiva, *History and Technology*, from January 2017

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

**ADVISORY AND PROFESSIONAL EXPERIENCE**

Advisory Board Member, "LGB in STEM," National Science Foundation funded  
research project, Univ. of Mich. (E. Cech and T. Waidzunus, PIs), 2015-present

**ADVISORY AND PROFESSIONAL EXPERIENCE, continued**

Advisory Board Member, Oral History Project: "Scientists with Disabilities,"  
Chemical Heritage Foundation (2016-present)

Nominated Expert, ANSI/ISO TC229 (Nanotechnologies), 2013-present

Invited Critic, Moore College of Art Senior Charette, 2013

Advisory Board, Chicago Architectural Foundation, "One Nation, Under  
Construction..." exhibition and website development, 2010-present

Member, Working Group on Forensic Genetics, University of Pennsylvania  
Center for Bioethics, 2008-2012

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

Historian, Renewable Technologies, Inc., Butte, Mont., 1990

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

**PROFESSIONAL SERVICE**

Co-editor in Chief (with Tiago Saraiva), *History+Technology*, January 2017-present

Society for the History of Technology:

Editorial Committee (2009-present)

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; 2009-2010, 2013 (Chair, 1998)

Member, 1988-present

**PROFESSIONAL SERVICE, continued**

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

Member, Editorial Board, *International Journal of Engineering, Social Justice, and Peace*, 2010-present

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; Drexel University College of Engineering; University of Pennsylvania; Imperial College London; Harvard University; Virginia Tech University; and Haverford College

Review of proposals and manuscripts for *The Anthropocene Review*, *Engineering Studies*, *Journal of Nanoparticle Research, Technology and Culture*; *Social Studies of Science, History and Technology*, *Business History Review*, *Scientia Canadensis*, the National Science Foundation, Chemical Heritage Foundation, Philadelphia Area Center for History of Science, Corporation for Public Broadcasting, and various university presses

Member: History of Science Society; Society for Social Studies of Science; International Network for Engineering Studies, International Committee for the History of Technology