AMY E. SLATON, PhD

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ACADEMIC POSITIONS

Department of History, Drexel University, Philadelphia, PA
- Professor Emerita, 2023-present; Professor, 2011- 2023; Associate Professor, 2002-2011; Assistant Professor, 1996-2002
- Interim Department Head, February 2021-August 2022
- 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 Queer Identifications in Science and Technology; History of Museums; Architecture and Politics; Labor History; United States History; 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:

New Materials: Towards a History of Consistency, Editor (Ann Arbor, Michigan: Lever Press, 2020)

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: Difference, Diversity and the Invention of Opportunity (under contract to MIT Press)

The Making and Unmaking of a Hemisphere: Handbook of History of Technology in South, Central and North America and the Caribbean; Co-editor with Gisela Mateos, Edna Suárez-Días and Jesse Smith (in preparation for Routledge Press)

Articles and Book Chapters:

"Academic Grieving: (Critical) Reflections on the Dangers of Romanticizing DEI in Engineering Education," with James Holly, Jr., *Studies in Engineering Education* 6, n. 1 (2025): 91-97

"Rage-ography: Rigor, Anti-wokeness, and Technoviolence," with Donna Riley, *Women's Studies Quarterly* 52, n. 1/2 (2024): 269-289

"Dangerous Erections: Gender, Race and the Engineering of Trump's Border Wall," in Maria Rentetzi (ed.), *Gender and Things* (Routledge Press, 2023)

"Learning in Public and A Path Towards Methodological Activism: A Conversation on Equity Research," with Julie Martin and Shannon Stefl, Special Issue: "Reimaging STEM Higher Education Research," *Journal of Women and Minorities in Science and Engineering* 28, no. 1 (2022): 75-87

"Histories of Technology and Histories of Difference," in Dagmar Schäfer, Francesca Bray, Tiago Saraiva and Matteo Valleriani (eds.), *The New Cambridge History of Technology*, Vol. I [accepted for publication]

Articles and Book Chapters, continued:

"Educational Inequities and the Disunity of Technical Knowledge: Three Instruments," in Dagmar Schaeffer, Annapurna Mamidipudi, Marius Buning, and Mario Biagioli (eds.), *Ownership of Knowledge: Beyond IP*, Inside Technology Series (Max Planck Institute for the History of Science/MIT Press, 2023)

"Safety Equipment," in Joseph Martin and Cyrus Mody (eds.), *Between Making and Knowing: Tools in the History of Materials Research* (Singapore: World Scientific Publishing, 2020)

"A Picture is Worth a 1000 Lived Experiences of Illness: Photovoice As An Emancipatory Approach to Public Health and HIV," with Michelle Teti, in Andrea Patterson and Ian Read (eds.), *The Shapes of Epidemics and Global Disease* (Cambridge Scholars Publishing, 2020)

"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* (Sense Publishers, 2019)

"The Power and Politics of Engineering Research Design: Saving the Small N," with Alice Pawley. *Engineering Studies* 19 (2019): 133-157

"Statistics as Service to Democracy: Experimental Design and the Dutiful American Scientist," with Tiago Saraiva; in *Technology and Globalisation: Networks of Experts in World History*, David Pretel and Lino Camprubi (eds.) (Springer Verlag, 2018).

"Work, Skill and Technology," in *A Cultural History of Work in the Modern Age: Vol. VI: 1920-Present*, vol. VI, Daniel Walkowitz (ed.) (Bloomsbury Press, 2018)

"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)

"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

"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*

Articles and Book Chapters, continued:

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

"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])

Articles and Book Chapters, continued:

"'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)

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, 2009-2018: amyeslaton.com

Interviews/Podcast Appearances:

July 1, 2020: "Engineering Change" Podcast, Yvette Pearson, Host; and "Modern Figures Podcast"; Kyla McMullan and Jeremy Waisom, Hosts

March 27, 2020: "COVID Calls" Podcast, Scott Knowles, Host

March 26, 2019: "Flash Forward!" Podcast, Rose Eveleth, Host

GRANTS, AWARDS AND FELLOWSHIPS

National Science Foundation, Division of Human Resources Development, Award Number 2119930 , for research conducted as Senior Researcher, Department of History, Drexel University, with INCLUDES Alliance "Engineering Plus [Partnerships Launching Underrepresented Students]" (PI: Karl Reid, Northeastern University); $538,000 over 5 years [Start Date: August 1, 2021] (Total Award: $2,475,000.00)

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), 2017

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 Univ.) [9/2014-12/2016].

National Science Foundation, Social and Economic Sciences, Award Number 1556531, for "Workshop: Biography in Science, Technology and Medicine," PIs: Evelynn 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 Wash.; Amy Slaton, Drexel Univ.; $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: [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 Mary Ebeling, co-P.I. "Two-Year Colleges & the Invention of Nano-Labor: Between Promise and Possibility"

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 Univ. , 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, 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

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

"Workshop: Disciplinary, Interdisciplinary, and Boundary-Spanning Identities in Science, Engineering and science Policy"
Arizona State University Center for Science, Policy and Outcomes, Washington DC, May 21-22, 2025 [invited speaker]

" 'Inclusion' as Promise and Practice: A Historical Confrontation with Racism in STEM," Raciolinguistics in Engineering Seminar and Workshop [RESPETO]
University of Texas San Antonio, October 18, 2024 [invited speaker]

"Accounting for Concrete: Social and Labor Relation in U.S. Construction History," Cement Age/Concrete Futures Conference
University of Pennsylvania, October 4, 2024 [invited keynote speaker]

"Experts, Scientists and Power: Scientific Narratives, Past and Present," History of Science Society/John W. Kluge Center, Library of Congress
Library of Congress, Washington DC, July 26, 2024 [invited speaker]

"Racial Ontologies of Building in the United States," Labor Un/Imagined Conference

Cornell University, Department of Architecture, March 8, 2024 [invited speaker]

"Histories of Labor and Technology," Carpenters Company of Philadelphia Symposium

Science History Institute, Philadelphia, May 2, 2022 [invited speaker]

"Racial Capitalism and the Making of Talent: STEM Achievement in the 21st Century"

Department of Science, Technology, and Society, Virginia Tech, October 14, 2021 [invited speaker]

"Black Inventors and Innovators: New Perspectives" Webinar Series, Smithsonian Institution, National Museum of American History, Lemelson Center

November 16-20, 2020 [invited speaker]

"Educational Inequities and the Disunity of Technical Knowledge: Three Instruments"

"Ownership of Knowledge: Implicating the Political in History of Science and Technology," Working Group, Max Planck Institute for the History of Science, August 29-30, 2018 [invited participant]

"Measured Progress: Materials, Disability and the Technoscientific Life"

"Technologies in Use" Working Group, Max Planck Institute for the History of Science, Berlin/Eindhoven University, April 4-6, 2018 [invited participant]

"LGBTQ Landscapes: STS and Social Science Perspectives"

LGBTQ Inclusion in Engineering, Georgia Tech, March 1-2, 2018 [invited speaker]

"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]

"Nano-Eyes, Nano-Hands, and the Stratification of Laboratory Labor"
9th 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]

SELECTED PAPERS AND PRESENTATIONS, continued

"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 Premise: 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]

"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]

"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 65th 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

"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

SELECTED PAPERS AND PRESENTATIONS, continued

"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]

"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
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]

"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

"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, 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, Jan. 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

"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-in-Chief, with Tiago Saraiva, *History and Technology*, 2017-2025

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

ADVISORY AND PROFESSIONAL POSITIONS

Advisory Board Member, "Disrupting the Status Quo About Who Gets to be an Engineer," CAREER Grant: National Science Foundation (J. London, PI), 2021-2024

Division Chair, Liberal Education/Engineering in Society Division, American Society for Engineering Education, 2020 (Program Chair, 2018; Division Chair Elect, 2019)

ADVISORY AND PROFESSIONAL POSITIONS, con't.

Advisory Board Member, "(In)Authentic Experiences of Black Engineers," National Science Foundation funded research project, Univ. of Florida (E. Douglas, PI) 2018-present

Advisory Board Member, "LGB in STEM," National Science Foundation funded research project, Univ. of Mich. (E. Cech and T. Waidzunas, PIs), 2015-2018

Advisory Board Member, Oral History Project: "Scientists with Disabilities," Science History Institute [form. Chemical Heritage Foundation] (2016-2019)

Nominated Expert, ANSI/ISO TC229 (Nanotechnologies), 2013-2018

Invited Critic, Moore College of Art Senior Charette, 2013

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

ADDITIONAL PROFESSIONAL SERVICE

Society for the History of Technology:

Sally Hacker Prize Committee (2018-2020)
Editorial Committee (2009-2016)
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

Member, Editorial Board, *Engineering Studies*, 2008-2018

Member, Editorial Board, *International Journal of Engineering, Social Justice, and Peace*, 2010-2015

External Review Committee Member:

Colorado School of Mines, Program in Engineering Design and Society, 2023

Missouri S+T University, Department of History, 2022

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 MIT; Drexel Univ. School of Public Health; Drexel Univ. College of Engineering; Univ. of Pennsylvania; Imperial College London; Harvard Univ.; Virginia Tech Univ.; Haverford College; ETH Zurich; Univ. of Massachusetts Amherst; IIT Chennai

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; American Society for Engineering Education

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