

Scott Gabriel Knowles, Ph.D.

Professor, Graduate School of Science and Technology Policy
Korea Advanced Institute of Science and Technology (KAIST)

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Website: <https://slowdisaster.com/>

PROFESSIONAL

Academic Positions

2021-current Professor, Graduate School of Science & Technology Policy, KAIST
2005-2021 Professor, Department of History, Drexel University
2004-2005 Visiting Assistant Professor, Department of History, John Jay College of Criminal Justice, City University of New York

Research Positions and Affiliations

2019 Interuniversity Centre for the History of Science and Technology (CIUHCT), Nova University of Lisbon, Visiting Researcher
2018 Centro de Investigacion para la Gestion Integrada del Riesgo de Desastres (CIGIDEN), Pontificia Universidad Católica de Chile, Visiting Researcher
2017 Korea Advanced Institute for Science and Technology (KAIST), Visiting Faculty
2016 Anthropocene Fellow, Max Planck Institute for the History of Science, Berlin (DAAD Grant—Visiting Scholar, July-August)
2016 Rachel Carson Center for Environment and Society, Munich (DAAD Grant—Visiting Scholar, July)
2015 Japan Society for the Promotion of Science, Tokyo (JSPS Grant—Visiting Scholar, June-August)
2013-ongoing University of Pennsylvania Institute for Urban Research (Penn IUR), Faculty Fellow
2012-2019 University of Delaware, Disaster Research Center, Research Fellow
2006 Robert J. Lifton Fellow, John Jay College of Criminal Justice, Center on Terrorism

Administrative and Service Positions

University

- 2013-2021 Head, Department of History, Drexel University
2011-2013 Associate Dean, Pennoni Honors College, Drexel University
2007-2013 Founding Director, Center for Interdisciplinary Inquiry;
Director, The Custom-Designed Major; Director, The Great Works
Symposium, Drexel University

Editorial

- 2017-ongoing Associate Editor, *History and Technology*
2014-ongoing Series co-editor, *Critical Studies in Risk and Disaster*, The University of
Pennsylvania Press (with Kim Fortun)
2008-2017 Associate Editor, *Engineering Studies: Journal of the International
Network for Engineering Studies (INES)*

Professional Boards, Committees, and Commissions

- 2018-ongoing North American Alliance of Hazards and Disaster Research Institutes,
Steering Committee Member
2017-2018 The Alliance for Integrative Approaches to Extreme Environmental
Events—Steering Committee Member
2015--ongoing Member, Advisory Board, Teach 3.11
2014-2017 Member, Executive Council, Society for the History of Technology
2013-2014 Philadelphia Mayor Michael A. Nutter's Special Advisory
Commission on Licenses and Inspections, Best Practices
Subcommittee Chair

EDUCATION

- 2003 Ph.D. The Johns Hopkins University
Department of the History of Science, Medicine, and Technology
Dissertation: "Inventing Safety: Fire, Technology, and Trust in Modern
America," Dr. Stuart W. Leslie, Advisor
1997 M.A. The University of Texas at Austin
Department of History
Thesis: "Corporation and Community: Goose Creek, Texas and the
Humble Oil and Refining Company, 1916-1926," Dr. Bruce J. Hunt,
Advisor
1995 B.A. The University of Texas at Austin
Double Major: History and Philosophy

PUBLICATIONS (*peer-reviewed, +work in progress)

Books

- *+Knowles, Scott Gabriel, *The United States of Disaster* (Philadelphia: University of Pennsylvania Press, expected 2022)
- *Knowles, Scott Gabriel, Cleveland, Kyle, and Shineha, Ryuma, eds., *Legacies of Fukushima: 3.11 in Perspective* (Philadelphia: University of Pennsylvania Press, 2021).
- *Knowles, Scott Gabriel and Molella, Art, eds. *Worlds Fairs in the Era of the Cold War* (Pittsburgh: Pittsburgh University Press, 2019).
- *Kendra, James, Knowles, Scott Gabriel, and Wachtendorf, Tricia, eds. *The Second Environmental Crisis* (New York: Springer, 2019).
- Knowles, Scott Gabriel and Dilworth, Richardson, eds., *Building Drexel: A University and Its City, 1891-2016* (Philadelphia: Temple University Press, 2016).
- *Knowles, Scott Gabriel, *The Disaster Experts: Mastering Risk in Modern America* (Philadelphia: University of Pennsylvania Press, 2011).
- *Knowles, Scott Gabriel, ed., *Imagining Philadelphia: Edmund Bacon and the Future of the City* (Philadelphia: University of Pennsylvania Press, 2009).

Academic Articles and Reports

- Knowles, Scott Gabriel and Stanton, Bucky, "History in the Making: COVIDCalls and the COVID-19 Pandemic," *History Now* 58 (Fall 2020).
<https://www.gilderlehrman.org/history-now>
- *+Jeon, Chihyung, Knowles, Scott Gabriel, Park, Sang-Eun, "Disaster (continued): The Sewol Ferry Investigations, State Violence, and Political History in South Korea," (under review with *History and Technology*).
- *Knowles, Scott Gabriel, "Slow Disaster in the Anthropocene: A Historian Witnesses Climate Change on the Korean Peninsula," *Daedalus* (Fall 2020).
- Knowles, Scott Gabriel, "The Other Uncertainty: The View from Disaster History," *Social Science Research Council*, July, 2019.
- Tironi, Manuel, Bacigalupe, Gonzalo, Knowles, Scott Gabriel et. al., "Figuring Disasters: An Experiment on Thinking Disruptions as Methods," *Resilience* (12 February 2019): 1-20.
- Kuo Chun-Chih, Khaerun Nisa, Atma Jaya Yogyakarta, Masami Suigura, Emmanuel M. Luna, Scott Gabriel Knowles, and Dang Thi Thanh Huyen, "Casebook of Infrastructure Build Back Better from Natural Disasters: Enhancing Rural Disaster Resilience through Effective Infrastructure Investment," Asian Disaster Reduction Center, Asia-Pacific Economic Cooperation Secretariat, (2018).
- *Knowles, Scott Gabriel, "Underwriters Laboratories, the Voluntary Standards System, and American Safety Engineering," *Historia Scientiarum* 27-1 (July 2017).
- *Gardebo, Johan, Knowles, Scott Gabriel, and Marzecova, Agata, "The Orbital

- Technosphere: The Provision of Meaning and Matter by Satellites,” *Anthropocene Review* 4:1 (2017): 44-52.
- Knowles, Scott Gabriel, “Learning from Disaster? New Directions in Disaster Investigations,” *Natural Hazards Observer* 39:5 (2015): 16-20.
- *Knowles, Scott Gabriel, “Engineering Risk and Disaster: Disaster-STS and the American History of Technology,” *Engineering Studies* 6:3 (2014): 227-248.
- Knowles, Scott Gabriel, “Learning from Disaster? The History of Technology and the Future of Disaster Research,” *Technology and Culture* 55:4 (October, 2014): 773-784.
- *Knowles, Scott Gabriel and Kunreuther, Howard C., “Troubled Waters: The National Flood Insurance Program in Historical Perspective,” *Journal of Policy History* 26:3 (2014): 327-353.
- *Knowles, Scott Gabriel, “Defending Philadelphia: A Historical Case Study of Civil Defense in the Early Cold War,” *Public Works Management and Policy* (January, 2007): 1-16.
- Knowles, Scott Gabriel, “Lessons in the Rubble: The World Trade Center and the History of Disaster Investigations in the United States,” *History and Technology* (Spring, 2003): 9-28.
- *Kargon, Robert H. and Knowles, Scott Gabriel, “Knowledge for Use: Science, Higher Education, and America’s New Industrial Heartland, 1880-1915,” *Annals of Science* (January, 2002): 1-20.
- *Knowles, Scott Gabriel and Leslie, Stuart W., “Industrial Versailles: Eero Saarinen’s Corporate Campuses for GM, IBM, and AT&T,” *Isis* (March, 2001): 1-33.

Book Chapters

- *+Knowles, Scott Gabriel Knowles and Loeb, Zachary, “The Voyage of the Paragon: Disaster as Method,” in Horowitz, Andy, and Remes, Jacob, eds., *Disaster Studies: New Perspectives on Disaster Risk, Vulnerability, and Resilience* (University of Pennsylvania Press, in press for 2021 publication).
- *+Knowles, Scott Gabriel, “Slow Disaster and the Challenge of Nuclear Memory,” in Bensaude Vincent, Bernadette, Boudia, Soraya, and Sato, Kyoko, eds., *Living in a Nuclear World: From Fukushima to Hiroshima* (under review with University of Pittsburgh Press).
- *Knowles, Scott Gabriel, “What Was learned from 3.11?” in Knowles, Scott Gabriel, Cleveland, Kyle, and Shineha, Ryuma, eds., *Legacies of Fukushima: 3.11 in Perspective* (Philadelphia: University of Pennsylvania Press, in press).
- *Knowles, Scott Gabriel and Torero, Jose, “Plyscrapers, Gluescrapers, and Mother Nature’s Fingerprints,” in *New Materials: Towards a History of Consistency* (Amherst: Lever Press, 2020).
- *Kendra, James, Knowles, Scott Gabriel, and Wachtendorf, Tricia, “Introduction: The New Environmental Crisis,” in Kendra, James, Knowles, Scott Gabriel, and Wachtendorf, Tricia, eds. *The Second Environmental Crisis* (New York: Springer, 2019).
- *Knowles, Scott Gabriel, “Does the World’s Fair Still Matter? Discovering New

- Worlds After 1989,” in Knowles, Scott Gabriel and Molella, Art, eds. *Worlds Fairs in the Era of the Cold War* (Pittsburgh: Pittsburgh University Press, 2019).
- Knowles, Scott Gabriel, Cutler, Jennifer, Madrigal, Maegan, and Sangaline, Isabella, “Italian-American Leaders in Business and Politics,” in Canepari, Andrea and Goode, Judith, eds., *The Italian Legacy in Philadelphia* (Philadelphia: Temple University Press, 2019), in press.
- *Knowles, Scott Gabriel and Torero, Jose, “Plyscrapers, Gluescrapers, and Mother Nature’s Fingerprints,” in Slaton, Amy ed., *New Materials: A History of Consistency*, (Lever Press, 2020) in press.
- *Fortun, Kim and Knowles, Scott Gabriel, et. al., “Researching Disaster from an STS Perspective,” in *Handbook of Science and Technology Studies* (Cambridge: MIT Press, 2016).
- *Knowles, Scott Gabriel and Leslie, Stuart W., “Industrial Versailles: Eero Saarinen’s Corporate Campuses for GM, IBM, and AT&T,” in David Kaiser and Sally Kohlstedt, eds., *Science and the American Century: Readings from Isis* (Chicago: University of Chicago Press, 2013).

Essays, Articles, Op-Eds, Media Projects

- COVIDCalls, Daily 5pm EST Discussion with Disaster Experts about the COVID-19 Pandemic, Archived at the Slow Disaster Podcast (March 2020-ongoing)
 COVIDCalls Podcast:
<https://podcasts.apple.com/us/podcast/covidcalls/id1516341147>
 Live Video on:
 YouTube https://www.youtube.com/channel/UCgxa_w98BhAIiwbw2dxKlQ/fatured
 Facebook Live <https://www.facebook.com/covidcalls1>
 Periscope <https://www.pscp.tv/USofDisaster/1YqxoRVOokAJv?t=1>
 Featured here:
<https://www.phillymag.com/news/2020/08/15/scott-gabriel-knowles-covid-call/s/>
- “For the COVID-19 Era, a United States Disaster Investigation Board,” *Issues in Science and Technology*, 21 August 2020 (with Glenn Corbett).
<https://issues.org/disaster-investigation-board-for-covid-19-failures/>
- “Risk and Equity in the Louisiana Anthropocene,” HKW *Anthropocene Curriculum* 4 September 2020 (with Fallon Samuels Aidoo, Myung Ae Choi, and Christopher Oliver).
<https://www.anthropocene-curriculum.org/contribution/risk-equity-in-the-louisiana-anthropocene>
- “Layers of Violence: The Cancer Alley Anthropocene,” HKW *Anthropocene Curriculum*, 28 July 2020 (with Ashley Rogers).
<https://www.anthropocene-curriculum.org/contribution/layers-of-violence>
- “Beyond Simply ‘Lessons Learned’: Pandemic through the Disaster Lens,” SSRC Items, 21 May 2020 (with Alexa Dietrich).

- <https://items.ssrc.org/covid-19-and-the-social-sciences/disaster-studies/beyond-simply-lessons-learned-pandemic-through-the-disaster-lens/>
- “What Will the COVID-19 Memorial Look Like?” *The Washington Post*, 28 April 2020 (with Jay D. Aronson).
<https://www.washingtonpost.com/outlook/2020/04/28/what-will-covid-19-memorial-look-like/>
- “Tactics for Quotidian Anthropocenes: A Field Campus Report,” Society for Social Studies of Science, Backchannels, 29 July 2019 (with Jason Ludwig, Tim Schutz, and Kim Fortun)/
https://www.4sonline.org/blog/post/tactics_for_quotidian_anthropocenes
- “What Trump Doesn’t Get About Disasters,” *New York Times*, 13 September 2018.
<https://www.nytimes.com/2018/09/13/opinion/trump-hurricane-maria-puerto-rico-disaster.html>
- “What Should the Second Sewol Commission Do?” (with Chihyung Jeon), *Hankyoreh* 25 April 2018.
http://english.hani.co.kr/arti/english_edition/e_editorial/842021.html
- “Why Hurricanes Harvey and Irma Won’t Lead to Action on Climate Change,” *The Conversation*, 17 September 2017.
<https://theconversation.com/profiles/scott-gabriel-knowles-407031/articles>
- “Coexisting with Wildfire,” (with Max Moritz), *American Scientist* 104:4 (July-August, 2016): 220-227.
- “What Candidate You Gonna’ Call When Disaster Strikes?” *Philadelphia Inquirer*, 17 October 2016.
http://www.philly.com/philly/opinion/commentary/20161017_Commentary_Wh_at_candidate_you_gonna_call_when_disaster_strikes_.html
- “Deferred Maintenance: The American Disaster Multiplier,” *Technology’s Stories*, June, 2016.
<http://www.technologystories.org/>
- “(Why) Does the World’s Fair Still Matter?” with Jason Ludwig, et. al., *Georgetown Journal of International Affairs*, 27 April 2016.
<http://journal.georgetown.edu/why-does-the-worlds-fair-still-matter/>
- “How to Reform a Disastrous Disaster Policy,” *Conservation Magazine*, 20 July 2014.
<http://conservationmagazine.org/2014/07/politics-of-risk/>
- “How to Honor the Dead We Cannot Name,” with Charles B. Strozier, *Slate*, 12 May 2014.
http://www.slate.com/articles/health_and_science/science/2014/05/september_11_memorial_museum_controversy_unidentified_remains_and_lessons.html
- “Flood Zone Foolishness,” *Slate*, 23 March 2014.
http://www.slate.com/articles/health_and_science/science/2014/03/biggest_waters_and_nfp_flood_insurance_should_be_strengthened.html
- “The Politics of Disaster Management,” (with James Bergey), Oxford Bibliographies, 2013.
<http://www.oxfordbibliographies.com/view/document/obo-9780199756223/obo-9780199756223-0074.xml>

- “FEMA Needs to Refocus,” (with Patrick S. Roberts) *The Hill*, 27 November 2012.
<http://thehill.com/opinion/op-ed/269713-fema-needs-to-refocus>
- “Exposed to Disaster,” *The Philadelphia Inquirer*, 21 November 2012.
http://articles.philly.com/2012-11-21/news/35258881_1_hazard-mitigation-disasters-fema
- “We Should Put More, Not Less, Into FEMA’s Disaster Relief Fund,” (with James M. Kendra), *US News and World Report* (online), 1 November 2012.
<http://www.usnews.com/debate-club/should-femas-responsibilities-be-handed-over-to-the-states/we-should-put-more-not-less-into-femas-disaster-relief-fund>
- “9/11: A Lapse of Memory,” (with Charles B. Strozier), *The Philadelphia Inquirer*, 11 September 2012.
http://articles.philly.com/2012-09-12/news/33764292_1_memory-world-war-ii-vietnam-war
- “The Best Sport You’ve Never Seen,” (with Stephen Gambescia and Ariel Pollak), *The Smart Set*, September 28, 2012.
<http://www.thesmartset.com/article/article09281201.aspx>
- “Chicago, IL, 1877-1896,” Richardson Dilworth, ed., *Cities in American Political History* (Thousand Oaks, CA: CQ Press: 2011), 292-298.
- “Chicago, IL, 1896-1929,” Richardson Dilworth, ed., *Cities in American Political History* (Thousand Oaks, CA: CQ Press: 2011), 358-364.
- “Philadelphia, 1952-1989,” Richardson Dilworth, ed., *Cities in American Political History* (Thousand Oaks, CA: CQ Press: 2011), 577-583.
- “The Code War,” *The Smart Set*, September 2, 2011.
<http://www.thesmartset.com/article/article09021101.aspx>
- “The Phantom of the Fair,” *The Smart Set*, October 4, 2010.
<http://www.thesmartset.com/article/article10051001.aspx>
- “Ask an Urban Historian,” *The Next American City*, (Spring, 2009).
- “Building Under Peril,” *The Next American City* (Spring, 2008): 38-41, 53.
- “Next American City Exclusive Interview with Domenic Vitiello,” *The Next American City*, May 20, 2008.
- “Urban Policy and the Presidency,” *The Next American City*, April 24, 2008.
- “The Phantom Urban Debate,” *The Next American City*, November 22, 2007.
- “Disaster 2.0: Using GIS to Cover Misfortune-in-Motion,” *The Next American City*, November 8, 2007.
- “Urban Hazards and Disasters: Southern California Wildfires,” *The Next American City*, October 26, 2007.

Book Reviews

- Review of Remes, Jacob A.C., *Disaster Citizenship: Survivors, Solidarity, and Power in the Progressive Era* (Urbana: University of Illinois Press, 2016), *American Historical Review* 123:1 (2018).
- Review of Deborah R. Coen, *The Earthquake Observers: Disaster Science from Lisbon to Richter* (Chicago: University of Chicago Press, 2013), *American Historical Review* 119:2 (2014).

- Review of Gregory Bankoff, Uwe Lubken, and Jordan Sand, eds., Flammable Cities: Urban Fire and the Making of the Modern World (Madison: University of Wisconsin Press, 2012), *Journal of the American Planning Association* 79: 2 (Spring, 2013).
- Review of James J. Connolly, An Elusive Unity: Urban Democracy and Machine Politics in Industrializing America (Ithaca: Cornell University Press, 2010), *Journal of American History*, (December, 2011).
- Review of Rachel Maines, Asbestos and Fire: Technological Trade-Offs and the Body at Risk (New Brunswick: Rutgers Press, 2005), *Technology and Culture* (January, 2007): 175-177.
- Review of David E. Nye, America As Second Creation: Technology and Narratives of New Beginnings (Cambridge: MIT Press, 2003), *Business History Review* (Autmun, 2005).
- Review of James Glanz and Eric Lipton, City in the Sky: The Rise and Fall of the World Trade Center (New York: Times Books, 2004), *Technology and Culture* (July, 2005): 670-672.
- Review of Mark Tebeau, Eating Smoke: Fire in Urban America, 1800–1950 (Baltimore: Johns Hopkins University Press, 2003), *Enterprise and Society* (September, 2004): 554-556.
- Review of Neil deGrasse Tyson, The Sky Is Not the Limit: Adventures of an Urban Astrophysicist (New York: Prometheus Books, 2004), *New York Times Book Review* (August 1, 2004): 12.
- Review of Michael Sorkin and Sharon Zukin, eds., After the World Trade Center: Rethinking New York City (New York: Routledge, 2002), *History and Technology* (Fall, 2002): 168-170.

GRANTS AND AWARDS

Grants Funded

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| 2020 | Albert Lepage Center for History in the Public Interest, Villanova University, "COVID-19 Grant for History in the Public Interest," \$4,000. |
| 2020 | Drexel University Rapid Response Research and Development Fund for COVID-19 Research, "Slow Disaster: COVID-19," \$10,000 to support a science/disaster communication podcast. |
| 2019 | DARE Award, Drexel University, "The Future of Historic Sites: Increased Access, Engaged Communities, Sustainability and Archives without Walls," (with Rosalind Remer, et. al.), \$100,000 |
| 2019 | Haus der Kulturen der Welt, "The River School," as part of The Mississippi: An Anthropocene River Project (with Kim Fortun), \$50,000. |
| 2017 | Society for the History of Technology, The Anthropocene Campus Philadelphia, \$3250. |
| 2014 | National Institute of Standards and Technology (NIST), Standards Services Curricula Development Cooperative Agreement Grant, with Tiago Saraiva, Amy E. Slaton, and Sharon Ku. Support for 2015 Summer Institute and |

- ongoing projects [9/2014-2/2016]. "Standards in Society: A Critical Curricular Platform," \$57,477.
- 2014 National Science Foundation, Disaster Research Center 50th Anniversary Workshop (co-PI) with James Kendra, \$75,000.
- 2009 National Science Foundation, \$300,000, (3-year award).
Research Experience for Undergraduates (REU) Site: Engineering Cities, Mira Olson (PI), Patrick Gurian (Co-PI), Scott Knowles (Senior Investigator)
- 2007 United States Department of Education, \$511,524, (3-year award).
Graduate Assistance in Areas of National Need (GAANN), Fellowships in Urban Hazard Mitigation: Creating Sustainability and Resilience, Patricia Gallagher (PI), Scott Knowles (Co-PI)
- 2006 Olin Workshop Grant, \$8,500
"The Future of the Industrial City": conference at Drexel University
Scott Gabriel Knowles co-organizer with Richardson Dilworth
- 2001 Drexel University Faculty Development Grant, 2001. Awarded to support the development of web-based instruction.

Awards

- 2017 President's Award, Drexel University, Civic Engagement Award for Faculty and Professional Staff (one of eight members of winning team)
- 2009 Drexel University College of Arts and Sciences Distinguished Teaching Award.
- 2007 Drexel University Student Athletics "Make A Difference Award."
Awarded to Drexel faculty "annually by the Drexel Student-Athlete Advisory Committee, recognizes professors and instructors for outstanding mentoring and teaching."
- 2004 Barbara G. Hornum Award for Teaching Excellence.
Awarded in recognition of teaching excellence to an auxiliary professor with at least three years of teaching experience at Drexel University.
- 2004 The History of Science Society: Derek Price/Rod Webster Prize.
Awarded in recognition of excellence in a research article published in the journal *Isis*. Winning article: Scott Knowles & Stuart W. Leslie, "'Industrial Versailles': Eero Saarinen's Corporate Campuses for GM, IBM, and AT&T."
- 2003 The Society for the History of Technology: The Samuel Eleazar and Rose Tartakow Levinson Prize. Awarded annually for an original essay in the history of technology. Winning essay: Scott G. Knowles, "The One Place Where it Pays to Play With Fire: Underwriters Laboratories and the Invention of Fire Safety."

INVITED PRESENTATIONS (conference paper titles available upon request)

- 2019 Rising Waters, The Penn Humanities Forum (University of Pennsylvania), "The Anthropocene Campus," May 2019

- Rensselaer Polytechnic Institute STS Seminar, "The United States of Disaster," April 2019
- American Meteorological Society Annual Meeting, "The Other Uncertainty: Disaster History," January 2019
- 2018 The KAIST Center for Anthropocene Studies, Inaugural Lecture, December 2018
- Annual Research Meeting of the Centro de Investigacion para la Gestion Integrada del Riesgo de Desastres (CIGIDEN), Pontificia Universidad Católica de Chile, "The Historical Ground of Resilience," August 2018
- The Disaster Research Center, University of Delaware, "The History of Disaster," May 2018
- 2017 The Sewol Ferry Disaster: Perspective, Analysis, and Action: A Research Workshop Hosted by KAIST, South Korea, "Disaster Translations," June 2017
- The Maintainers II Conference, "Trump the Maintainer," Stevens Institute of Technology, March 2017
- 2016 Virginia Tech, "A Dark Achievement: Chernobyl at 30" Workshop, December 2016
- Center for the Humanities at Temple University, "Encountering Crisis: Working Across the Humanities," March, 2016
- "Engaging Expertise in Disaster Governance," Keynote Address, National University of Singapore, January, 2016
- 2014 Miller Center Disaster Policy Conference, University of Virginia, October, 2014
- Commentator on "Disasters and the State: Space, Power, and Urban Policy in 20th-Century America," Urban History Association, Commentary, October, 2014
- Disaster Research Center 50th Anniversary Conference, Plenary Speaker, April, 2014
- "September 11 Memory," John Jay College Center on Terrorism, March, 2014
- "Risky Business: Managing Risk Across Industries in Today's Global Economy,"

RSA Annual Meeting, March, 2014

“Learning from Disaster: The History of Technology and the Future of Disaster Research,” Johns Hopkins University, Department of the History of Science and Technology, February, 2014.

2013 “Fukushima: The View from America,” paper presented to the Governing Risk conference, University of Tokyo, December, 2013

“Learning from Disaster?” Nuclear Issues Education Workshop, Stevens Institute, November, 2013

“How Do Disasters End?” Rensselaer Polytechnic Institute STS, November, 2013

Society for the History of Technology Annual Meeting, Plenary Speaker, October, 2013.

Disaster-STS, an NSF workshop, Washington, D.C., September 2013

“Imagining the Worst,” Cornell University, April 2013

“Learning from Disaster?” Stevens Institute of Technology, March 2013

2012 “September 11, 2051,” September 11 and Historical Memory Conference, John Jay College of Criminal Justice, City University of New York, 2 April 2012.

“Homeland Insecurities: Understanding American Disasters Since September 11,” Taubman College of Architecture and Urban Planning, University of Michigan, 30 March 2012.

2011 “A Philadelphia History Walking Tour: Colonial, Industrial, and The Next Philadelphia,” Drexel University Research Experiences for Undergraduates (REU) Summer Program, July-August, 2011.

Philadelphia Area Center for the History of Science, “So Many Boundaries, Recent Ideologies of Expertise,” May, 2011

AIA Philadelphia, Center for Architecture, “Edmund Bacon and the Future of Philadelphia,” invited presentation, May, 2011

2010 “A Philadelphia History Walking Tour: Colonial, Industrial, and The Next

Philadelphia,” Drexel University Research Experiences for Undergraduates (REU) Summer Program, June 30 and August 4, 2010.

“Edmund Bacon and Society Hill,” Head House Books, Philadelphia, Book Talk and Walking Tour, May 25, 2010.

“Imagining Philadelphia: Edmund Bacon and the Future of the City,” AIA Philadelphia Center for Architecture, May 5, 2010.

“Imagining Philadelphia’s Future, An Evening at the Academy of Natural Sciences,” April 26, 2010.

“Experts in Disaster,” Homeland Security Philadelphia Student Chapter, Drexel University, April 14, 2010.

“Imagining Philadelphia: Edmund Bacon and the Future of the City,” Society Hill Civic Association, March 17, 2010.

“Imagining Philadelphia: Edmund Bacon and the Future of the City,” Penn Institute for Urban Research Series, February 17, 2010.

“Imagining Philadelphia: Edmund Bacon and the Future of the City,” Philadelphia Pecha Kucha #4, January 30, 2010.

2009 “Imagining Philadelphia: Edmund Bacon and the Future of the City,” December 8, 2009, Tredyffrin Public Library.

“Imagining Philadelphia: Edmund Bacon and the Future of the City,” Design on the Delaware, October 28, 2009.

“Renewal and Riot,” lecture and walking tour for the Pennsylvania Humanities Council, July 2009.

“Eastern State Penitentiary and the History of Philadelphia,” Drexel College of Arts and Sciences Alumni Event, May 2009.

“Philadelphia and the History of Public Health,” lecture to the Philadelphia Inter-University Public Health History Course, April 2009.

“The Emergency Managers,” lecture to the Bates Center for the History of Nursing, March 2009.

“Experts in Disaster: Confronting the Fire Problem in Modern American Cities,” Philadelphia Area Center for the History of Science, March 2009.

- 2008 "What Is a Disaster? Social Science Disaster Research in the Postwar United States," University of Texas, Colloquium in the History of Science, 2008.
- "Meet the Emergency Managers: The History of a Profession From FEMA to Katrina," University of Delaware, Disaster Research Center, 2008.
- 2007 "A Discussion of the Philadelphia 24-Hour Road Trip," Talk 20, Institute of Contemporary Art, Philadelphia, 2007.
- *"What Is a Disaster? Social Science Disaster Research in the Postwar United States," Johns Hopkins University, Department of the History of Science, Medicine, and Technology Colloquium, 2007.
- *"A Philadelphia History Walking Tour: Colonial, Industrial, and Post-Industrial," Drexel University Research Experiences for Undergraduates (REU) Summer Program, 2007.
- "The One Place Where It Pays to Play With Fire: Underwriter's Laboratories," Underwriters Laboratories, 25 Year Club Annual Meeting, 2007.
- 2006 "Experts in Disaster: A History of Risk and Authority in the Modern United States," Drexel University, The Dean's Speakers Series, 2006.
- "Experts in Disaster: A History of Risk and Authority in the Modern United States," John Jay College of Criminal Justice, Center on Terrorism, 2006.
- "Benjamin Franklin at 300: Do We Know Him Yet?" Drexel University, The Westphal Picture Gallery Lecture Series, 2006.
- "A Philadelphia History Walking Tour: Colonial, Industrial, and Post-Industrial," Drexel University Research Experiences for Undergraduates (REU) Summer Program, 2006.
- 2004 "The Iroquois Theater Fire and the Invention of Fire Safety," Hunter College, City University of New York, Department of History, 2004.
- 2003 "Inventing Safety: Fire, Technology, and Trust in Modern America," University of Pennsylvania, Department of the History and Sociology of Science, 2003.
- 2002 "From Coney Island to the Picture Palace: Electrification in New York City," Baruch College, City University of New York, 2002.

“Disasters in the Urban Realm: Urban Disaster and Public Memory in the United States,” Columbia University, Trading Places Network International Urban Studies Conference, 2002.

- 2001 “Representative of Safety: John Ripley Freeman and the Iroquois Theater Fire in Chicago,” Drexel University, Science, Technology, and Society Speaker Series, 2001.
- 2000 “Art-Deco and the American Skyscraper,” Duke University, Duke in New York Urban History Seminar, 2000.
- 1999 “Versailles of Industry: Eero Saarinen’s Corporate Campuses for GM, IBM, and AT&T,” Johns Hopkins University Global Economic History Seminar, 1999.

PROFESSIONAL MEMBERSHIPS AND SERVICE

Professional Service: Committee

Society for the History of Technology, Executive Council, 2015-2017
Society for the History of Technology, Levinson Prize Committee, 2013-15
Society for the History of Technology, Conference Travel Committee, 2007-2009
Greater Philadelphia Consortium for Emergency Preparedness, 2007
Society for the History of Technology, Robinson Prize Committee, 2004-2007
Social Science History Association, Urban Network Co-Chair, 2006

Memberships

American Historical Association
International Network for Engineering Studies
Society for the History of Technology
Society for Social Studies of Science

CONFERENCES ORGANIZED

- 2019 Anthropocene Field Campus, New Orleans—a five day, multi-disciplinary investigation of the Anthropocene in the lower Mississippi Delta, September 2019
- Anthropocene Field Campus, St. Louis—a five day, multi-disciplinary investigation of the Anthropocene on the Mississippi River, March, 2019
- 2017 Anthropocene Campus Philadelphia—a five day, multi-disciplinary investigation of the Anthropocene in the Delaware River watershed, October, 2017
- 2016 Memory Survives: History, Psychology, and Disaster Recovery—a one-day workshop at Drexel University with visiting delegation from Tohoku University, Japan, September 7, 2016
- 2014 Disaster Research Center 50th Anniversary Conference
- Disaster-STS Workshop, Drexel University
- 2012 “3.11 Virtual Conference: Looking Back to Look Forward,” 11 March 2012, Sponsored by the Fukushima Forum, Co-organized with Atsushi Akera and Lisa Onaga: <http://fukushimaforum.wordpress.com/conferences/>

- 2008 “Preparedness in the Region: Confronting Vulnerability in the Delaware Valley,” Drexel University Engineering Cities Initiative, 2008. This two-day conference, co-sponsored with the City of Philadelphia’s Office of Emergency Management, brought together academics, emergency management officials, public health officials, and non-profit organizations to analyze emergency management regional research and concerns.
- 2006 “The Technological Future of the Industrial City,” Drexel University, 2006, co-organizer with Richardson Dilworth.
This conference brought together government officials, members of the business community, academics, and community activists interested in determining the future of transportation, communications, water, and energy systems in Philadelphia.
- Science, Technology, and Society Student Symposium, Drexel University, Department of History and Politics, 2006, 2003. These events featured research presentations by current STS Masters students.
- 2005 “The Politics of Disaster: Considering Ethics, Engineering, and Public Health in the Aftermath of Hurricane Katrina,” 2005. This panel discussion and fundraiser provided a multi-disciplinary investigation of Hurricane Katrina.

PUBLIC PROJECTS, CONSULTING, AND VOLUNTEER WORK (media appearances/links available upon request)

Public Projects

- +The Anthropocene in St. Louis, Public Exhibit of Work from the Anthropocene Field Campus, St. Louis, March 2019, at Granite City Arts and Design District
- +Haus der Kulturen der Welt, Berlin, “The Phosphorus Apparatus,” as part of the Anthropocene Campus, October, 2016
- +“Remembering September 11,” New York State History Conference, June, 2014
- +Psychogeography Project (PgP)—This urban exploration project was founded by Scott Gabriel Knowles, Kurt Braunohler, and Calvin Johnson in 2000—PgP held public events several times a year 2001-2007, inviting participants to explore a given theme as they map and record their interactions with urban environments.
- +“The Urban Disorientation Game,” Enzimi’s “Talents Out Festival”, Rome,

November, 2007.

+“The Urban Disorientation Game,” Glowlab’s “Conflux Festival,” New York, September, 2007

+“24-Hour Road trip,” with *The Next American City Magazine*, Philadelphia, August, 2007.

+“24-Hour Road trip,” Glowlab’s “Conflux festival, New York, September, 2006

Historical Consulting

“Protect,” Museum of the City of New York, 2004

From the exhibition description: “Explore how New Yorkers have protected themselves from fire through the years. From bucket brigades and volunteers to building codes and the city's water system, this exhibition looks at three hundred years of fire protection in New York City.” Produced by Chicken & Egg Public Projects, for the Museum of the City of New York.

“Me, Myself and Infrastructure: Private Lives and Public Works in America,” Opened at The New York Historical Society, 2001 (on tour until 2003)

From the exhibition description: “To commemorate its 150th anniversary, ASCE introduces Me, Myself and Infrastructure: Private Lives and Public Works in America, a project that tells the story of a thirsty, car-crazy nation. Through a series of related exhibitions and programs, Me, Myself and Infrastructure explores the relationship of the public to the civil engineering networks that define modern life.” Produced by Chicken & Egg Public Projects.

Contributor to the 9-11 Digital Archive—A special collection for this online archive composed of Drexel University student responses to the events of September 11. The collection surveys the range of concerns and debates emerging from the classroom over the year after 9-11. The overall project is available at: <http://911digitalarchive.org/>

Volunteer Work

Board Member, Headlong Dance Theater, 2009-2017.

Audio Books Narrator, Andrew Heiskell Braille and Talking Book Library, New York Public Library, 1999-2006.

TEACHING**Undergraduate Courses Taught at Drexel University (2000-2019)**

Technology in Historical Perspective
Themes in World Civilization II, 1200-1815
United States History, 1815-1900
United States History since 1900
The United States Civil War
Research Methods in History
The Civil War and American Memory
United States Urban History
The History of Philadelphia
The Study of History
Junior Seminar in History
Senior Seminar in History I
Senior Seminar in History II
The Global City
Physical Philadelphia
Media Interactivity
The Atomic Bomb
The Automobile
The Next Philadelphia
Blood and Oil
Knowledge By Design
September 11, 2001
The Next President
The World's Fair in History
Lincoln
Introductory Seminar in History
The History of U.S. Elections
Disaster in Global History
The History of Drexel University
1968: Year of Revolution

Graduate Seminars Taught in the Drexel University Science, Technology, and Society Masters Program (2001-2013) and the Urban Strategy Masters Program (2017-present)

The History of Urban Space
Urban Systems
Risk, Disaster, and Public Policy
Technology in Historical Perspective
STS Perspectives on Risk and Disaster
Risk International
Taking Chances: Science, Technology, and Risk in Modern Society

Technology and the City

Technology and the Consumer

Boom and Bust: The History of the American City

Independent Study in History

Mentorship (list of Ph.D. and Masters students mentored available upon request)

Travel-Integrated Undergraduate Courses Organized

The Johnstown Flood, 2017—a trip to Johnstown, PA in support of the course Disaster in Global History, 4 students

The 2015 World Expo—an experiential course with trip to Milan, 5 students

The 2012 London Paralympics—an experiential course taught on-site in London, continuing a course titled Perspectives on Disability, 9 students.

The 2010 World Expo—an experiential course with trip to Shanghai for the 2010 Shanghai World Expo, 2010, 12 students.

The Obama Inauguration—an experiential course with trip to Washington, D.C. for the Obama inauguration, 2008, 60 students.

The Mississippi River—an experiential course with trip to New Orleans in the aftermath of Hurricane Katrina, 2006, 20 students.