

## **THOMAS A. BIRKLAND, PH.D.**

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### **Education**

Ph.D., Political Science, University of Washington, 1995; M.A., Political Science, Rutgers University, 1985; B.A. (Cum Laude), Political Science, University of Oregon, 1984.

### **Academic Positions**

Professor of Public Policy, School of Public and International Affairs, North Carolina State University, 2007-present. William T. Kretzer Distinguished Professor of Public Policy and Public Affairs, 2007-2017 (term-limited professorship).

- Co-Chair, NCSU Institutional Review Board (IRB), 2011-2015; Chair, 2015-present

Associate Dean for Research and Engagement, College of Humanities and Social Sciences, North Carolina State University, January 2011-June 2024.

Associate Professor, Nelson A. Rockefeller College of Public Affairs, University at Albany, State University of New York, 2001-2007; Assistant Professor, 1995-2001.

- Director, Center for Policy Research, Nelson A. Rockefeller College of Public Affairs and Policy, University at Albany, 2001-2005, 2007.
- Jointly appointed to the Department of Public Administration and Policy and the Department of Political Science.
- Member of the Public Policy Faculty.
- Adjunct member, Department of Biological Sciences and Co-Director, Biodiversity and Conservation Program (with the Department of Biological Sciences).

Program Director, Infrastructure Management and Hazard Response, Division of Civil, Mechanical and Manufacturing Innovation, Directorate for Engineering, National Science Foundation, Arlington, Virginia. One-year appointment from January 2006 to January 2007. (Interagency Personnel Act [IPA] assignment).

### **Public Sector and Consulting Experience**

Instructor in the Center for Homeland Defense and Security Radiological Emergency Preparedness (REP) Program and the Executive Leaders Program, November and December 2018 and March 2019.

Instructor in Rockefeller College's Professional Development Program (PDP), on Strategic Planning and Management and the Public Policy Process, April and May 1998.

Consultant to the Bureau of Supported Housing Development, New York State Office of Temporary and Disability Insurance, on graphical presentation of program data for the 1998 Annual Report of the Homeless Housing and Assistance Program, March 1998. A

Instructor in Rockefeller College's Professional Development Program (PDP), on statistical analysis and outcome evaluation for managers, October 1997.

Instructor for the Department of Social Services, State of New York, on statistical data analysis and presentation and outcome evaluation for managers December 1996; and county welfare commissioners, September 1997.

Assistant Manager of Strategic Planning, Bureau of Strategic Planning, New Jersey Department of Transportation, Trenton, New Jersey, July 1988-August 1990.

Aide to the Governor, Independent Authorities Unit, Office of Governor Thomas H. Kean, Trenton, New Jersey, May 1987-July 1988.

Research Analyst, Office of Policy Analysis, New Jersey Department of Transportation, Trenton, New Jersey, July 1985-May 1987.

## Research Interests

Policies relating to disasters, risks, and hazards, whether natural, or humanly caused, accidental, or intentional (crime and terrorism). Starting in 2020, transitioned to increased interest in the politics of pandemic disease

Disaster, emergency, and crisis management in the public and private sectors

Environmental policy and management

Theories of the public policy process, including theories of idea generation, agenda setting, policy change, and learning

## Teaching Interests and Activities

Disaster and Crisis Policy and Management

Public Policy Theory (PhD)

The Social Science of Disaster

Environmental Politics and Policy

The Policy Process (MPA-level)

Media and Politics

## PhD Students Advised (Public Administration unless otherwise noted; active mentoring only; committee chair unless otherwise noted; outside committee memberships in other colleges not listed)

Shannon McGovern, PhD candidate, NC State University (anticipated defense 2025)

Honey Minkowitz, Assistant Professor, University of Nebraska at Omaha (PhD, 2024)

Kathleen Colville, Associate Dean of Community Outreach and Engagement, University of North Carolina Chapel Hill, Committee Co-Chair (PhD, 2024)

Kathryn (Katy) Schwaeble, Data Analyst, Kroger Health, Cincinnati (Ph.D. 2020)

Susan Camilleri, Fiscal Analyst, NC General Assembly (PhD, 2018)

Megan Warnement, Assistant Professor, College of Wooster (PhD, 2018)

Anne-Lise Velez, Collegiate Associate Professor, College of Liberal Arts and Human Sciences, Virginia Tech (PhD, 2016)

Sarah DeYoung, Associate Professor, University of Delaware (PhD, Psychology, 2014) (committee member)

Kristin Taylor, Associate Professor, Wayne State University (PhD, 2012)

Robert Wagner, Executive Vice Provost and Dean of Academic and Instructional Services, Utah State University (PhD, SUNY-Albany, 2007)

Michael Deegan US Army Corps of Engineers (PhD, SUNY-Albany, 2007)

Kimberly Fredericks, Professor, Sage Colleges (PhD, SUNY-Albany, 2007)

## Publications

### Politics, Policy Processes and Management

1. Petridou, Evangelia, Jörgen Sparf, Nikolaos Zahariadis, and Thomas Birkland. 2024. *Policy Entrepreneurs, Crises, and Policy Change*. Elements in Public Policy. Cambridge: Cambridge University Press.  
<https://www.cambridge.org/core/elements/policy-entrepreneurs-crises-and-policy-change/97BF2ECC4E38A50B3C14D4606F747C5B>
2. DeLeo, Rob A., Elizabeth A. Shanahan, Kristin Taylor, Nathan Jeschke, Desera Crow, Thomas A. Birkland, Elizabeth Koebele, Danielle Blanch-Hartigan, Courtney Welton-Mitchell, Sandhya Sangappa, Elizabeth Albright, and Honey Minkowitz. 2024. "COVID-19 Memorable Messages as Internal Narratives: Stability and Change over Time." *Policy Sciences*, July. <https://doi.org/10.1007/s11077-024-09538-5>. PEER REVIEWED
3. Birkland, Thomas A., Rob A. DeLeo, and Kristin Taylor. 2022. "Focusing Events" in *Elgar Encyclopedia of European Union Public Policy*, Paolo Graziano and Jale Tosun (eds.). Cheltenham: Edward Elgar.
4. Dubljevic, Veljko, George List, Jovan Milojevich, Nirav Ajmeri, William A. Bauer, Munindar P. Singh, Eleni Bardaka, Thomas A. Birkland, et al. 2021. "Toward a Rational and Ethical Sociotechnical System of Autonomous Vehicles: A Novel Application of Multi-Criteria Decision Analysis." *PLOS ONE* 16 (8): e0256224.  
<https://doi.org/10.1371/journal.pone.0256224>. PEER REVIEWED

5. Birkland, Thomas A. Kristin Taylor, Deserai A Crow, Rob DeLeo. 2021. Governing in a Polarized Era: Federalism and the Response of U.S. State and Federal Governments to the COVID-19 Pandemic, *Publius: The Journal of Federalism*. pjab024, <https://doi.org/10.1093/publius/pjab024> PEER REVIEWED
6. DeLeo, Rob A., Kristin Taylor, Deserai A. Crow, and Thomas A. Birkland. 2021. "During Disaster: Refining the Concept of Focusing Events to Better Explain Long-Duration Crises." *International Review of Public Policy* 3 (3:1). <http://journals.openedition.org/irpp/1868>. PEER REVIEWED
7. Birkland, Thomas A., and Kathryn L. Schwaeble. 2019 "Agenda Setting and the Policy Process: Focusing Events." *Oxford Research Encyclopedia of Politics*. 26 Jun. 2019. <https://oxfordre.com/politics/view/10.1093/acrefore/9780190228637.001.0001/acrefore-9780190228637-e-165>. PEER REVIEWED
8. Birkland, Thomas A. 2019. *An Introduction to the Policy Process: Theories, Concepts, and Models of Public Policy Making*, 5th ed. (New York: Routledge).
9. Birkland, Thomas A., and Megan K. Warnement. 2017. "Focusing Events, Risk, and Regulation." In *Policy Shock: Recalibrating Risk and Regulation after Oil Spills, Nuclear Accidents, and Financial Crises*, edited by Edward J Balleisen, Lori S. Benneer, Kimberly D. Krawieck, and Johnathan B. Weiner. New York: Cambridge University Press.
10. Birkland, Thomas A. 2016. "Attention and Natural Disasters." In *Handbook of Public Policy Agenda Setting*, Nikolaos Zahariadis, ed. Cheltenham; Northampton: Edward Elgar Publishing, pp. 389–414. PEER REVIEWED
11. Birkland, Thomas A. and Sarah DeYoung. 2012. "Focusing Events and Policy Windows," in *Routledge Handbook of Public Policy*, Eduardo Araral, Scott Fritzen, Michael Howlett, M Ramesh, Xun Wu, eds. London: Routledge. PEER REVIEWED
12. Birkland, Thomas A., and Sarah Waterman. 2009. "The Politics and Policy Challenges of Disaster Resilience." In *Resilience engineering perspectives. Volume 2: Preparation and Restoration*, ed. C. P. Nemeth, E. Hollnagel and S. Dekker. (Burlington, VT: Ashgate). INVITED CONTRIBUTION
13. Birkland, Thomas A. 2009. "Emergency Management and the Courts in the Wake of Hurricane Katrina." in Austin Sarat and Javier Lezaun, ed., *Catastrophe: Law, Politics, and the Humanitarian Impulse* (Amherst: University of Massachusetts Press). INVITED CONTRIBUTION
14. Birkland, Thomas A. 2009. "Disasters, Lessons Learned, and Fantasy Documents." *Journal of Contingencies and Crisis Management* 17 (3): 146-156. PEER REVIEWED
15. Birkland, Thomas A., and Sarah Waterman. 2009. "The Politics and Policy Challenges of Disaster Resilience." In *Resilience engineering perspectives. Volume 2: Preparation and Restoration*, ed. C. P. Nemeth, E. Hollnagel and S. Dekker. (Burlington, VT: Ashgate). INVITED CONTRIBUTION
16. Birkland, Thomas A., and Regina G. Lawrence. 2009. "Media Framing and Policy Change after Columbine." *American Behavioral Scientist* 52 (10):1405-1425. PEER REVIEWED
17. Birkland, Thomas A. and Sarah Waterman. 2008. "Is Federalism the Reason for Policy Failure in Hurricane Katrina?" *Publius*. 38(4): 692-714. PEER REVIEWED **Included in the journal's Golden Anniversary Collection: Celebrating 50 Years of Federalism Research** (<https://academic.oup.com/publius/pages/50-years>) "This collection draws from the most cited articles, top downloaded articles, and articles chosen for their contributions to the field."
18. Birkland, Thomas A. 2006. "Agenda Setting." Entry in *Handbook of Public Policy Analysis*, Frank Fischer, Gerald Miller, and Mara S. Sidney, eds. (New York: Taylor and Francis). INVITED CONTRIBUTION
19. Birkland, Thomas A. 2006. *Lessons of Disaster: Policy Change after Catastrophic Events*. (Washington: Georgetown University Press).
20. Schaefer, Todd, and Thomas A. Birkland, eds. 2006. *Encyclopedia of Media and Politics*. (Washington: CQ Press).
21. Lawrence, Regina G. and Thomas A. Birkland. 2004. "Guns, Hollywood, and Criminal Justice: Defining the School Shootings Problem across Public Arenas." *Social Science Quarterly*, 85(5): 1193-1207. PEER REVIEWED
22. Birkland, Thomas A. 2004. "Emergency Planning and the Judiciary: Lessons from September 11." for the Center for Court Innovation. Available from [www.courtinnovation.org](http://www.courtinnovation.org). REPORT
23. Dawes, Sharon S., Thomas A. Birkland, Giri Kumar Tayi, Carrie A. Schneider. Jun)e 2004. *Information, Technology and Coordination: Lessons from the World Trade Center Response*. Albany: Center for Technology in Government, University at Albany, SUNY. REPORT
24. Birkland, Thomas A. 2004. "Learning and Policy Improvement after Disaster: The Case of Aviation Security." *American Behavioral Scientist*, 48 (3): 341-364. (Also guest editor for this issue). PEER REVIEWED
25. Fredericks, Kimberly, Joanne G. Carman and Thomas A. Birkland. 2002. "Policy Evaluation in a Challenging Authorizing Environment: Intergovernmental and Interorganizational Factors." Special Issue, "Responding to

- Sponsors and Stakeholders in Complex Evaluation Environments.” *New Directions for Evaluation* 95 (September): 5-22. PEER REVIEWED
26. Birkland, Thomas A. 2001. “Expertise and Policy Change after ‘Focusing Events.’” *Journal of Urban Technology* 8(3): 122-124. (Part of a series of articles titled “After September 11”).
  27. Birkland, Thomas A. Regina G. Lawrence. 2001. “The Exxon Valdez and Alaska in the American Imagination” in Steven Biel, ed. *American Disasters*. (New York: New York University Press).
  28. Birkland, Thomas A. and Radhika Nath. 2000. “Business and the Political Dimension in Disaster Management.” *Journal of Public Policy* 20(3): 279-303. PEER REVIEWED
  29. Birkland, Thomas A. 1998. “Focusing Events, Mobilization, and Agenda Setting.” *Journal of Public Policy* 18(1): 53-74. PEER REVIEWED
  30. Barclay, Scott W. and Thomas A. Birkland. 1998. “Law, Policy Making, and the Policy Process: Closing the Gaps.” *Policy Studies Journal* 26(2): 277-243. PEER REVIEWED
  31. Birkland, Thomas A. 1997. *After Disaster: Agenda Setting, Public Policy, and Focusing Events*. (Washington: Georgetown University Press). **Winner of the 2020 Aaron Wildavsky Enduring Contribution Award from the Public Policy Section of the American Political Science Association.**
  32. Birkland, Thomas A. 1997. “Factors Inhibiting a National Hurricane Policy.” *Coastal Management* 25(4): 387-403. PEER REVIEWED
  33. Birkland, Thomas A. 1996. “Natural Disasters as Focusing Events: Policy Communities and Political Response.” *International Journal of Mass Emergencies and Disasters* 14(2): 221-243. PEER REVIEWED
  34. Peter J. May and Thomas A. Birkland. 1994. “Earthquake Risk Reduction: An Examination of Local Regulatory Efforts.” *Environmental Management* 18: 923-939. PEER REVIEWED
  35. Bishop-Edkins, Christine and Thomas A. Birkland. 1990. “Integrating Strategic Planning and Budgeting: A Case Study at the New Jersey Department of Transportation.” *Transportation Research Record* 1305: 147-152. PEER REVIEWED

### ***Environmental and Disaster Management and Policy***

36. Rippy, Megan A., Benjamin H. Roston, Emily Berglund, Payam Aminpour, Lauren Krauss, Shantanu Bhide, Todd Schenk, Kristin Rowles, Shalini Misra, Thomas Birkland, Sujay S. Kaushal, Stanley B. Grant. 2025. (accepted in press). “Characterizing the social-ecological system for inland freshwater salinization using fuzzy cognitive maps: Implications for collective management.” *Ecology and Society*. PEER REVIEWED
37. Crow, Deserai A., Elizabeth A. Albright, Kristin Taylor, Rob A. DeLeo, Thomas A. Birkland,; Elizabeth A. Shanahan. 2025 (accepted in press): Learning from Crisis: COVID-19 Agenda Change, Learning, and a Future Research Agenda,” *International Review of Public Policy*. PEER REVIEWED
38. Taylor, Kristin, Rob A. DeLeo, Stephanie Zarb, Nathan Jeschke, and Thomas A. Birkland. 2023. “Subnational Focusing Events and Agenda Change: The Case of Toxic Algae Bloom and Contaminated Drinking Water in Toledo, Ohio.” In *A Modern Guide to the Multiple Streams Framework*, edited by Nikolaos Zahariadis, Nicole Herweg, Reimut Zohlnhöfer, and Evangelia Petridou, 222–45. Edward Elgar Publishing.  
<https://doi.org/10.4337/9781802209822.00022>. PEER REVIEWED
39. Birkland, Thomas, Rob DeLeo, and Kristin Taylor. 2023. “Federalism in Disaster Management in the United States.” In *Jahrbuch Des Föderalismus 2023*, edited by Europäisches Zentrum für Föderalismus-Forschung Tübingen (EZFF), 28–39. Nomos Verlagsgesellschaft mbH & Co. KG. <https://doi.org/10.5771/9783748918776-28>. PEER REVIEWED
40. Taylor, Kristin, Rob. A. DeLeo, Elizabeth Albright, Elizabeth A. Koebele, Thomas A. Birkland, and Deserai Anderson Crow. 2023 “Estimating the Effect of Policy Entrepreneurship on Individual Vaccination Behavior during the COVID-19 Pandemic.” *European Policy Analysis*. Early view. DOI: 10.1002/epa2.1198. PEER REVIEWED
41. Shanahan, Elizabeth A, Rob A DeLeo, Elizabeth A Albright, Meng Li, Elizabeth A Koebele, Kristin Taylor, Deserai Anderson Crow, Katie Dickenson, Honey Minkowitz, Thomas A. Birkland and Manli Zhang. 2023. “Visual Policy Narrative Messaging Improves COVID-19 Vaccine Uptake.” *PNAS Nexus* 2 (4): pgad080.  
<https://doi.org/10.1093/pnasnexus/pgad080>. PEER REVIEWED
42. Taylor, Kristin, Rob A. DeLeo, Elizabeth A. Albright, Elizabeth A. Shanahan, Meng Li, Elizabeth A. Koebele, Deserai Anderson Crow, and Thomas A. Birkland. 2023. “Policy Entrepreneurs and Individuals: Influence and Behavior in Pandemic Response.” *Public Administration Review* 83 (5): 1246–65.  
<https://doi.org/10.1111/puar.13629>. (PEER REVIEWED)
43. Grant, Stanley B., Megan A. Rippy, Thomas A. Birkland, Todd Schenk, Kristin Rowles, Shalini Misra, Payam Aminpour, et al. 2022. “Can Common Pool Resource Theory Catalyze Stakeholder-Driven Solutions to the

- Freshwater Salinization Syndrome?" *Environmental Science & Technology*, September, acs.est.2c01555. <https://doi.org/10.1021/acs.est.2c01555>. PEER REVIEWED
44. Crow, Deserai, Rob DeLeo, Elizabeth Albright, Kristin Taylor, Thomas Birkland, Manli Zhang, Elizabeth Koebele, Nathan Jeschke, Elizabeth Shanahan, and Caleb Cage. 2022. "Policy Learning and Change During Crisis: COVID-19 Policy Responses Across Six States," *Review of Policy Research*. doi: 10.1111/ropr.12511 PEER REVIEWED
  45. Taylor, Kristin, Rob A DeLeo, and Thomas A Birkland. " 2022. "Agency and Legislative Oversight as Problem Feedback: The Case of the Mid-Michigan Dam Failures." *Wayne Law Review* 68: 31–64.
  46. Schwaeble, Kathryn, Thomas Birkland, Marie Lowe, Martha Grabowski, Daniel Jimenez, Thomas Sharkey, and William Wallace. 2022. "Emergency Response, Infrastructure, and Governance in Arctic Alaska" in Doris Friedrich, Markus Hirnsperger, Stefan Bauer. Eds. *More than 'Nature': Research on Infrastructure and Settlements in the North*. Vienna: LIT Verlag GmbH & Co.
  47. Taylor, Kristin, Rob A. DeLeo, Deserai A. Crow and Thomas A. Birkland. 2022. "The U.S. Response to the COVID-19 Pandemic: Incoherent Leadership, Fractured Federalism, and Squandered Capacity." In Nikolaos Zahariadis, Evangelia Petridou, Theofanis Exadaktylos, and Jörgen Sparf (eds.), *Policy Styles and Trust in the Age of Pandemics: Global Threat, National Responses*. New York and London: Routledge.
  48. Bhide, Shantanu V., Stanley B. Grant, Emily A. Parker, Megan A. Rippey, Adil N. Godrej, Sujay Kaushal, Greg Prelewicz, Niffy Saji, Shannon Curtis, Peter Vikesland, Ayella Maile-Moskowitz, Mark Edwards, Kathryn G. Lopez, Thomas A. Birkland, Todd Schenk. 2021. "Addressing the Contribution of Indirect Potable Reuse to Inland Freshwater Salinization." *Nature Sustainability*, April. <https://doi.org/10.1038/s41893-021-00713-7>. PEER REVIEWED
  49. Roberts, Jennifer D, Katherine L Dickinson, Elizabeth Koebele, Lindsay Neuberger, Natalie Banacos, Danielle Blanch-Hartigan, Courtney Welton-Mitchell, and Thomas A Birkland. 2020. "Clinicians, Cooks, and Cashiers: Examining Health Equity and the COVID-19 Risks to Essential Workers." *Toxicology and Industrial Health* 36 (9): 689–702. <https://doi.org/10.1177/0748233720970439>. PEER REVIEWED
  50. Lewis, Zachary; Schwaeble, Katy; Birkland, Tom. 2020. Crisis Agenda-Setting and Aviation Security Policy after the September 11 Attacks. In *Encyclopedia of Crisis Analysis*. Oxford University Press. doi:10.1093/acrefore/9780190228637.013.ORE\_POL-01595.R1.
  51. Birkland, Thomas A. 2019. "Natural Hazards Governance: An Overview of the Field." *Oxford Research Encyclopedia of Natural Hazard Science*. 22 Nov. 2019; Accessed 26 Nov. 2019. <https://oxfordre.com/naturalhazardscience/view/10.1093/acrefore/9780199389407.001.0001/acrefore-9780199389407-e-358>. PEER REVIEWED
  52. O'Donovan, Kristin and Thomas A. Birkland. 2019. "The Politics and Governance of Mitigation: Considerations for Planning." *Routledge Handbook of Urban Disaster Resilience*. Chapter 5. New York: Routledge. INVITED CONTRIBUTION
  53. Sharkey, Thomas C., Thomas Birkland, Martha Grabowski, Marie Lowe, and William Wallace. 2019. "Breaking the Ice: ISE to Play Key Role in Shaping Arctic's Future." *ISE Magazine*, November: 28–33.
  54. Pyles, Loretta, Juliana Svistova, Suran Ahn, and Tom Birkland. 2017. "Citizen Participation in Disaster Recovery Projects and Programmes in Rural Communities: A Comparison of the Haiti Earthquake and Hurricane Katrina." *Disasters*, October. <https://doi.org/10.1111/disa.12260>. PEER REVIEWED
  55. Birkland, Thomas A. 2016. "Policy Process Theory and Natural Hazards," *Oxford Research Encyclopedia of Natural Hazard Science*. New York: Oxford University Press. doi: 10.1093/acrefore/9780199389407.013.75 PEER REVIEWED
  56. Birkland, Thomas A. 2016. "Commentary: Conceptualizing Resilience," *Politics and Governance* 4(4). DOI: 10.17645/pag.v4i4.823. INVITED COMMENTARY
  57. Warnement, Megan K., and Thomas A. Birkland. 2015. "Organizational and Policy Learning: Post Crisis Assessments." In *Organizing after Crisis: The Challenge of Learning*, edited by Nathalie Schiffino, Laurent Taskin, Céline Donis and Julien Raone, pp. 235-256. Brussels: Peter Lang. INVITED CONTRIBUTION
  58. Birkland, Thomas A. and Megan Warnement. 2015. "Critical Infrastructure in Extreme Events," in *Controversies in Science and Technology*, 4<sup>th</sup> ed., Daniel Lee Kleinman, Karen A. Cloud-Hansen, and Jo Handlesman, eds. New York: Oxford University Press, Chapter 3. INVITED CONTRIBUTION
  59. Birkland, Thomas A., and Megan K. Warnement. 2014. "Focusing Events in Disasters and Development." In *Disaster and Development*, edited by Naim Kapucu and Kuotsai Tom Liou, 39–60. New York: Springer International Publishing. <http://link.springer.com/10.1007/978-3-319-04468-2>. INVITED CONTRIBUTION



60. Birkland, Thomas A., 2013. "Disasters, Focusing Events, and Sociolegal Studies." in Susan Sterrett, ed. *Disaster and Sociolegal Studies*. New Orleans: Quid Pro Books.
61. Smith, Gavin and Thomas Birkland. 2012. "Building a Theory of Recovery: Institutional Dimensions." *International Journal of Mass Emergencies and Disasters* 30(2):147-170. PEER REVIEWED
62. Birkland, Thomas A., and Sarah E. DeYoung. 2011. "Emergency Response, Doctrinal Confusion, and Federalism in the Deepwater Horizon Oil Spill," *Publius: The Journal of Federalism* 41, no. 3 (May): 471-493. doi:10.1093/publius/pjr011. PEER REVIEWED
63. Comfort, Louise K., Thomas A. Birkland, Beverly A. Cigler, and Earthea Nance. 2010. *Retrospectives and Prospectives on Hurricane Katrina: Five Years and Counting*. *Public Administration Review*, 70(5):669-678. PEER REVIEWED
64. Suter, Larry, Thomas A. Birkland and Raima Later. 2009. "Disaster Research and Social Network Analysis: Examples of the Scientific Understanding of Human Dynamics at the National Science Foundation." *Population Research and Policy Review* 27 (6): 1-10. PEER REVIEWED
65. Horton, Benjamin, Michael Bird, Thomas Birkland, Susan Cowie, Ong Jin Eong, Andrea Hawkes, Gong Wooi Khoon, Lisa Law, Colin Macgregor, Aileen Tan Shau-Hwai, Teh Tiong Sa, Zulfigar Yasin. 2008. "Environmental and Socio-Economic Dynamics of the Indian Ocean Tsunami in Penang, Malaysia." *Singapore Journal of Tropical Geography* 29(3): 307-324. PEER REVIEWED
66. Birkland, Thomas A. and Carrie A. Schneider. 2007. "Emergency Management in the Courts: Trends after September 11 and Katrina." *Justice System Journal*, 28(1), 20-35. PEER REVIEWED
67. Birkland, Thomas A., Pannapa Herabat, Richard Little and William Wallace. 2006. "The Impact of the 26 December 2004 Tsunami on Tourism in Thailand." *Earthquake Spectra* 22 (S3): S889-S900. (Special issue on the Great Sumatran Earthquakes and Indian Ocean Tsunamis of 26 December 2004 and 28 March 2005.) PEER REVIEWED
68. Birkland, Thomas A., Sean Madden, Jeffrey Mapes, Katie Roe and Amanda Stein. 2006. "Environmental Policy in New York State." Chapter in *Governing New York State*, 4th edition, Jeffrey Stonecash and Robert Pecorella, eds. (Albany: State University of New York Press). INVITED CONTRIBUTION
69. Birkland, Thomas A., 2004. "Everything Has Changed—Or Has It? Policy Change in the Months after September 11." *Review of Policy Research* 21 (2), 177-198. PEER REVIEWED
70. Birkland, Thomas A., 2004. "Environmental Successes and Continued Challenges in the Hudson Valley." *Albany Law Environmental Outlook* 8(2): 187-211.
71. Rubin, Clare B, William R. Cumming, Irmak Renda-Tanali, and Thomas A. Birkland. 2003. *Major Terrorism Events and Their U.S. Outcomes (1988-2001)*, Working Paper No. 107. Boulder, Colo.: Natural Hazards Research Applications and Information Center. REPORT
72. Birkland, Thomas A. and Jennifer Krausnick. 2003. "Information Needs for Sustainable Development." *Encyclopedia of Life Support Systems (ELOSS)*, sponsored by the United Nations Educational, Social and Cultural Organization (UNESCO) and EOLSS Publishers. REPORT
73. Birkland, Thomas A., Raymond J. Burby, David Conrad, Hanna Cortner, and William Michener. 2003. "River Ecology and Flood Hazard Mitigation" *Natural Hazards Review* 46(1): 46-54. PEER REVIEWED
74. Birkland, Thomas A. and Regina Lawrence. 2002. "The Social and Political Meaning of the Exxon Valdez Oil Spill." *Spill Science and Technology Bulletin* 7 (3-4). PEER REVIEWED
75. Birkland, Thomas A. 2001. "Scientists and Coastal Hazards: Opportunities for Participation and Policy Change." *Environmental Geosciences* 8(1): 61-67. PEER REVIEWED
76. Birkland, Thomas A. 1998. "In the Wake of the Exxon Valdez: How Environmental Disasters Can Spur Policy Change." *Environment* 40(7): 4-9; 27-32. INVITED CONTRIBUTION
77. Birkland, Thomas A. 1998. "Disasters and the Courts' Agenda." *Judges' Journal* 37(4): 7-11.

### **Other Publications, Opinion Pieces and Reports**

- Birkland, Thomas A. 2009. "Still Too Much Risk in the Beach Plan." *News and Observer*, (Raleigh, NC), September 22. [http://www.newsobserver.com/opinion/columnists\\_blogs/story/60531.html](http://www.newsobserver.com/opinion/columnists_blogs/story/60531.html).
- Birkland, Thomas A. 2009. "Economics Nobel Sends a Message." *Charlotte Observer*, October 14. <http://www.charlotteobserver.com/viewpoint/story/999836.html>.
- Birkland, Thomas A. 2009. "Advancing FEMA in the Post-9/11 World." Invited Comment. *Natural Hazards Observer* 34(2): 18-20. INVITED CONTRIBUTION

- Birkland, Thomas A. 2009. "FEMA Again a Victim of Politics." *Wilmington (NC) Star-News*, May 8.  
<http://www.starnewsonline.com/article/20090508/ARTICLES/905084006?Title=Thomas-Birkland-FEMA-again-a-victim-of-politics>.
- Birkland, Thomas A. 2003. "Jokes Aside, The Case for Being Prepared." *Times Union* (Albany, NY), February 20, A13.
- Birkland, Thomas A. 2002. "New York's Beasts of Burden: Counties are creatures of the state, so mandates come with the turf." *Newsday* (Long Island), September 13.
- Birkland, Thomas A. 2001. "Our Political System Will Keep Doing its Job." *Albany (NY) Times Union*, September 30.
- Birkland, Thomas A. 2000. "Earthquakes and Weather: Lessons for Policy and Science." Guest editorial in *Weatherzine* edition 21 (April). On-line newsletter available at  
<http://www.esig.ucar.edu/socasp/zine/previous.html>.

### Book reviews

- Birkland, Thomas A. 2011. Review of Howard Kunreuther and Michael Useem, eds., *Learning from Catastrophes: Strategies for Reaction and Response in Public Administration* 89(3); 1201-1203.
- Birkland, Thomas A. 2010. Review of Robert R. M. Verchick, *Facing Catastrophe: Environmental Action for a Post-Katrina World* in H-Net Reviews, <http://www.h-net.org/reviews/showrev.php?id=30991>.
- Birkland, Thomas A. 2007. "Review of *The Storm* by Ivor van Heerden." *Journal of Homeland Security and Emergency Management*. Vol. 4: Iss. 3, Article 2. Available at: <http://www.bepress.com/jhsem/vol4/iss3/2>
- Birkland, Thomas A. 2007. "Review of Meeting the Challenge of 9/11: Blueprints for More Effective Government." *Journal of Homeland Security and Emergency Management*. Vol. 4: Iss. 2, Article 8. Available at: <http://www.bepress.com/jhsem/vol4/iss2/8>.
- Birkland, Thomas A. 2005. Review of Mark Considine, *Making Public Policy: Institutions, Actors, Strategies* in *Journal of Comparative Policy Analysis* 7(4): 371-372 (2005).
- Birkland, Thomas A. 2001. Review of Rutherford Platt, *Disasters and Democracy in Environmental Hazards*, 2001.
- Review of Elliot Mittler, et al., *National Earthquake Probabilistic Hazard Mapping Program*, in *International Journal of Mass Emergencies and Disasters*, 16(3): 371-373 (1998).
- Review of Barclay G. Jones, ed., *Economic Consequences of Earthquakes: Preparing for the Unexpected*, in *International Journal of Mass Emergencies and Disasters* 16(2): 221-222 (1998).

### Sponsored Projects

- National Science Foundation, "Collaborative Research: GCR: Common Pool Resource Theory as a Scalable Framework for Catalyzing Stakeholder-Driven Solutions to the Freshwater Salinization Syndrome." CBET-2020820. September 1, 2020-August 31, 2025 (Total NC State budget \$506,201. Collaborative with Virginia Tech and Vanderbilt University).
- National Science Foundation, "Collaborative Research: Emergency Response in the Arctic (ERA): Investments for Global Capabilities and Local Benefits." CMMI-1825486. September 15, 2018—August 31, 2021. No-cost extension to August 31, 2024. \$204,010 (Collaborative with the University of Alaska-Anchorage, Clemson University, and Rensselaer Polytechnic Institute).
- National Science Foundation, "Workshop on Resilient Infrastructure for Sustainable Communities: Arlington, Virginia, 2014." CMMI-1413857. February 1, 2014-January 31, 2015; no-cost extension to January 31, 2016. \$96,834.
- National Science Foundation, "DRRC: Dynamics between Local and Foreign Actors: Influences on Capabilities in Post-Earthquake Rural Haiti and Hurricane Impacted Rural Gulf Coast." SES-1133264; Principal Investigator: Loretta Pyles (SUNY-Albany); Co-Principal Investigator: Thomas Birkland. September 15, 2011 to August 31, 2015. Award Amount: \$399,650. (subaward to NC State: \$36,667).
- National Science Foundation, "Enabling the Next Generation of Hazards and Disaster Researchers." CMMI-0758424, June 1, 2008 to May 31, 2011. Approximately \$248,683.

Subcontract to University of New Orleans (Funder: Ford Foundation) on “Implementation of the Stafford Act.” May 2008 to March 2010, approximately \$39,000.

Member, project team, Statewide Logistics Study, funded by the State of North Carolina (George List, Civil Engineering, PI). My contribution: \$3800.

National Science Foundation, “Physical and Social Infrastructure Impacts and Interdependencies in the December 2004 Tsunami in Southern Thailand.” \$76,819, March 2005-February 2006. Awarded March 2005. Supplement to study Hurricane Katrina awarded October 2005 (approximately \$11,000). No cost extension to 2008.

National Science Foundation. “Exploring Flood Mitigation Policy: A System Dynamics Approach.” CMS 0408994, approx. \$200,000, June 2004-May 2006. Awarded May 2004.

“The Courts and Emergency Management after September 11.” Center for Court Innovation, \$5,000, 2003-2004.

Division of Disability Determination (DDD), various projects, approximately \$140,000, 2003-2005.

National Science Foundation. “Determinants of State-Level Disaster Policy Change, Improvement, and Learning.” CMS-9732233. \$125,112. June 1998-June 2000. Awarded June 1998.

New York State Office of Mental Retardation and Developmental Disabilities. “UCP Personal Outcomes Project.” 1998-2005. \$240,000.

State Office for the Aging (SOFA). “Evaluation of Elderly Nutrition Programs.” Approximately \$75,000. September 1, 1998--April 1, 2000.

Faculty Research Assistance Program (FRAP), University at Albany. “Policy Maker Response to Focusing Events: Influences on Agenda and Policy Change.” April 1996-April 1998, \$3,958.

### **Selected Conference Papers and Invited Presentations**

Deserai Anderson Crow, Kristin Taylor, Thomas A. Birkland, Nathan Jeschke, Elizabeth A. Shanahan, Honey Minkowitz, Rob A. DeLeo. “Policy Design and Focusing Events: COVID-19 Policy Responses across U.S. States.” American Political Science Association, Philadelphia, September 2024.

Rob A. DeLeo, Dhaval Dave, Kristin Taylor, Danielle Blanch-Hartigan, Deserai Anderson Crow, Thomas A. Birkland, Elizabeth A. Shanahan. “A Dynamic Model of Political Trust: Information, Intention, and Vaccination.” American Political Science Association, Philadelphia, September 2024.

Tom Sharkey, Thomas Birkland (Presenter), Martha Grabowski, Marie Lowe, William Wallace “Emergency Response and Climate Change in the Arctic.” Presented at

- Symposium on Crises and Multilevel Governance, University of Crete, May 2024
- Natural Hazards Workshop Researchers Meeting, University of Colorado, Boulder, July 2024.

Rob A. DeLeo, Danielle Blanch-Hartigan, Kristin Taylor, Deserai Anderson Crow, Elizabeth A. Shanahan, Honey Minkowitz, Elizabeth Albright, Thomas A. Birkland, and Dhaval Dave “Who are Homo Narrans? Individual-Level Predictors of Memorable Message Narrativity.” Conference on Policy Process Research (COPPR), Syracuse, NY, May 2024

Emergency Response and Climate Change in the Arctic (Poster Session): Tom Sharkey, Thomas Birkland (Presenter), Martha Grabowski, Marie Lowe, William Wallace, 60<sup>th</sup> Anniversary Workshop, Disaster Research Center, Newark, Delaware, May 2024.

Infrastructure Development in Arctic Communities and Emergency Response: Averting a Crisis in the Arctic Thomas A. Birkland, Marie Lowe, Martha Grabowski, Thomas Sharkey, Al Wallace, International Symposium on Crises and Multilevel Governance, University of Crete, May 2024.

Nathan Jeschke, Deserai Anderson Crow, Kristin Taylor, Elizabeth A. Shanahan, Honey Minkowitz, Thomas A. Birkland. “Individuals as Policy Implementers: COVID-19 Compliance and Uncertainty.” Midwest Political Science Association, Chicago, April 2024.

Keynote Speaker, Association of Doctoral Students in Public Administration, Annual Ph.D. Colloquium. Boca Raton, Florida, January 2023.



Liz Shanahan, Elizabeth Ann Albright, Thomas A. Birkland, Desera Crow, Rob A. DeLeo, Elizabeth Ann Koebele, Meng Li, and Kristin Taylor, “Narrative Risk Communication: Does Narrator Matter?” Midwest Political Science Association, Chicago, April 2022.

Manli Zhang, Desera Crow, Rob A. DeLeo, Kristin Taylor, Elizabeth Ann Koebele, Thomas A. Birkland, Elizabeth Ann Albright, Nathan Jeschke, Honey Minkowitz. “Understanding U.S. COVID-19 Policy Responses Across States Over Time.” Midwest Political Science Association, Chicago, April 2022.

Nathan Jeschke, Desera Crow, Liz Shanahan, Thomas A. Birkland, Elizabeth Koebele. “Carrots and Sticks: Policy Tools and Mask Wearing Behavior.” Midwest Political Science Association, Chicago, April 2022.

Cherie Maestas, Scott Robinson, Tom Birkland, Elizabeth Shanahan. “Round Table on Focusing Events.” Southern Political Science Association, Austin, Texas, January 2019.

“Using Lessons to Develop Policy.” Invited presentation, National Homeland Security Consortium, Portland, Oregon, July 2018.

“What Drives the Agenda in Federal Earthquake Policy?” Invited keynote presentation, 11<sup>th</sup> National Conference on Earthquake Engineering, Los Angeles, June 2018.

Roundtable participant, “Talking about ‘Big Events’ in Environmental History,” American Society for Environmental History, Seattle, WA, March 2016.

Co-organizer, “Ambiguity and Crisis,” invited symposium co-sponsored by the *Journal Policy & Politics* and the College of Humanities and Social Sciences, North Carolina State University, February 2016.

“Lesson Drawing from Natural Hazards and Disasters,” invited presentation, Coastal Resilience Center and Department of City and Regional Planning, University of North Carolina at Chapel Hill, January 2016.

Visiting Scholar, Valente Center for Arts and Sciences, Bentley University, Waltham, Mass., October 5-8, 2015.

- “Do People Ever Learn from Disasters? A Revision of the Idea of Event-Driven Policy Change,” public lecture, October 5, 2015
- “The State of the Art in Disaster Studies,” faculty seminar, October 7, 2015

“Bringing Biodiversity into Environmental Policy, or Bringing the Environment to Policy,” invited discussion, 20<sup>th</sup> Anniversary Workshop for the Biodiversity and Conservation M.S. Program, University at Albany, SUNY, Rensselaerville, NY, May 2015.

“What We Talk About When We Talk About Disasters,” invited presentation, Wayne State University, Department of Political Science, Detroit, MI, February 2015.

Megan K. Warnement, Susan E. Camilleri, and Thomas A. Birkland, “Idea Emergence within the Policy Process: Examining the Earthquake Policy Domain,” American Political Science Association, Washington, DC, August 2014.

“Converting Disaster Research into Effective Public Policy,” invited plenary presenter, Disaster Research Center 50<sup>th</sup> Anniversary Workshop, University of Delaware, Newark, DE, May 2014.

“Idea Emergence, Agenda Change, and Learning,” with Susan Camilleri and Megan K. Warnement, Western Political Science Association, Seattle, April 2014.

“Disasters, Learning and Policy Change: Research Opportunities and Challenges,” invited presentation, Department of Political Science, Clemson University, Clemson, SC, March 2014.

“The College of Arts and Sciences Works with the VP for Research,” panelist, Council of Colleges of Arts and Sciences Annual Meeting, Jacksonville, FL, November 2013.

“Policymaking for Resilience: Trade-offs between outcomes and politics of disaster risk reduction,” invited inaugural lecture at the King’s Centre for Integrated Research on Risk and Resilience, King’s College London, October 2013.

Defining, Explaining, and Testing the Role of Focusing Events in Agenda Change: 30 Years of Focusing Event Theory, with Megan K. Warnement, American Political Science Association Annual Meeting, Chicago, Illinois, August 2013 (revised version of the ECPR paper, below).

“Risk and Crisis Management in the Policy Process: Permanent or Evanescent Concerns?” with Megan K. Warnement, First International Conference on Public Policy, Grenoble, France, June 2013.

“Focusing Events in Disasters and Development,” with Megan K. Warnement (presenting author), American Society for Public Administration, New Orleans, Louisiana, March 2013.

“Multiple Streams, Focusing Events and the Policy Process: Testing and Refining the Multiple Streams Approach,” with Megan K. Warnement, ECPR 41st Joint Sessions of Workshops, Workshop on “Decision-Making under Ambiguity and Time Constraints: Assessing the Multiple Streams Framework,” Johannes Gutenberg Universität, Mainz, Germany, March 2013

“Will we ever learn from disasters? Disturbing trends and hopeful signs,” invited presentation, Center for Natural Hazards Research, East Carolina University, Greenville, NC, February 2011. Also presented at the University of North Carolina at Charlotte in March 2011, and again to a visiting Chinese delegation at UNCC, December 2011.

Invited roundtable panelist, “The Political Communication of Threat,” 9th Annual APSA Pre-Conference on Political Communication, Seattle, August 2011.

“Disasters as Focusing Events,” Workshop on Sociolegal Studies of Disaster, Oñati International Institute for the Sociology of Law, Oñati, Spain, July 2011 (also was workshop co-organizer).

Panelist, roundtable on “Theorizing Disaster Recovery,” Natural Hazards Research and Application Workshop, Broomfield, Colorado, July 2011.

“The Deepwater Horizon Oil Spill: Intergovernmental Issues and Long-Term Policy Change,” invited presentation, annual meeting of the Association of American Geographers, Seattle April 2011

“Enhancing Resilience in Transboundary Crises,” invited presentation at conference “Searching for Solidarity: Developing EU capacities for crisis and disaster management,” hosted by the European Policy Centre, Brussels, March 2011.

“Enabling the Next Generation of Hazards and Disasters Researchers: A Recruitment and Mentoring Program for Junior Scholars,” technical paper and poster session. Presented at the National Science Foundation, Engineering Directorate, Civil, Mechanical and Manufacturing Innovation Division grantee’s conference, Atlanta, January 2011.

“Katrina and the Oil Spill: Intergovernmental Issues,” invited presentation, Southern Political Science Association, New Orleans, LA, January 2011.

“Plus ça change: Learning, Forgetting, and the History of U.S. Disaster Policy,” 2010 Policy History Conference, Columbus, OH, June 2010.

“Reconciling Theories of Organizational and Policy Learning,” with Branda Nowell, Kristin O’Donovan, and Deena Bayoumi, Midwest Political Science Association, Chicago, IL, April 2010.

“Disaster Recovery and the Stafford Act: Problems of Policy Design,” topic of roundtable discussion on Balancing Support and Accountability in Disaster Recovery: Lessons from Katrina, American Society for Public Administration, San Jose, CA, April 2010.

Invited Member, Research Work Group, “Resilient American Communities: Progress in Practice and Policy,” Sponsored by University of Pittsburgh Medical Center, Center for Biosecurity, Washington, D.C. December 2009.

Invited workshop participant, Forward Look Project: Security: Advancing a Framework for Enquiries (SAFE). Sponsored by NATO and the European Science Foundation. Paris, France, November 2008.

“Space for the River—Space for People? Social and Policy Connections between Rivers and People.” and “Shocks as Catalysts for Institutional Change: Focusing Events, Agenda Change, and Learning.” (Both invited), Freude am Fluss final conference, Radboud University, Nijmegen, Netherlands, October 2008.

“Learning from Disasters: An Elusive Goal?” and “Actors and Institutions in Risk Reduction and Hazards and Disaster Management.” Keynote presentation and invited lecture, program for the Certificate of Advanced Studies in Disaster Risk Reduction: Vulnerabilities and Capacities in the Context of Climate Change, Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland, September 2008.

“Cities, Disasters, and Homeland Security.” American Political Science Association, Boston, Mass. August 2008.

Invited keynote speaker, “The Future of Hazards and Disasters Research in the Homeland Security Era: Threats and Opportunities.” Hazards and Disasters Research Meeting, Natural Hazards Research and Application Workshop, Broomfield, Colorado, July 2008.

Invited panelist, roundtable discussion on “The 2008 Presidential Candidates and the Future of Emergency Management.” Natural Hazards Research and Application Workshop, Broomfield, Colorado, July 2008.

“Guns, Hollywood and Criminal Justice: Defining the School Shootings Problem across Public Arenas.” Invited presentation to the High Seminar in the Institute for Information Technology and Media (ITM), Mid-Sweden University, Sundsvall, Sweden, May 2008.

“Are Lessons Learned Documents Fantasy Documents?” Invited presentation, Conference and Workshop on Learning from Crises and Major Accidents, Sponsored by CRISMART (part of the Swedish National Defense College), the Swedish Rescue Agency, and the Swedish Emergency Management Agency, Stockholm, May 2008.

“The Politics of Land Use Planning in Hazard Mitigation: Barriers to Learning.” Invited presentation, National Earthquake Conference, Seattle, April 2008.

“The Future of Crises and Disasters in the Homeland Security Era.” invited presentation, Stephenson Disaster Management Institute Inaugural Conference, Louisiana State University, Baton Rouge, April 2008.

“Hurricane Katrina, Popular and Elite (mis)Understandings of Intergovernmental Disaster Policy” (invited), Southern Political Science Association, New Orleans, LA, January 2008.

“Politics, Policy, and ICT in Crisis Management.” Workshop on Defining an Agenda for Future Research in Information and Communication Technology, TU Delft, Netherlands, November 2007 (invited speaker).

“Disasters and the Administration of Justice: Myths, Policy, and Management.” invited presentation to the conference on Crisis and Catastrophe in Law and Science, Amherst College, Amherst, Mass., May 2007.

“The Role of Political Science in Disaster Studies: Unrealized Potential.” Midwest Political Science Association, Chicago, April 2007.

“Learning from Disasters: Prospects for Learning and Reform.” invited presentation at the Folke Bernadotte Academy and CRISMART, Sandö, Sweden, March 2007. Follow up presentation at the Swedish National Defense College and CRISMART, Stockholm, March 2007.

Co-author (non-presenting) “Socio-Technological Systems Integration to Support Tsunami Warning and Evacuation.” Richard Little, Thomas A. Birkland, William Wallace and Pannapa Herabat. Hawaii International Conference on System Sciences, University of Hawaii, January 2007.

“Lessons of Disaster.” book presentation sponsored by Georgetown University Library Associates and Georgetown University Press, Washington, D.C., November 2006.

Chair, Panels on Policy Learning and on “Governance in Network Settings.” American Political Science Foundation, Philadelphia, Pa., September 2006.

Panelist, “Asian Tsunami Update Session.” Natural Hazards Research and Application Workshop, Boulder, Colorado, July 2006.

“The National Tsunami Hazards Reduction Program: The Role of Social and Behavioral Science and Research.” presentation at a meeting of the National Tsunami Hazard Reduction Program (National Oceanic and Atmospheric Administration), Jacksonville, Florida, May 2, 2006.

“The Thailand Tsunami and Hurricane Katrina: A Preliminary Assessment of their Impact and Meaning in Global Tourism” with Pannapa Herabat, Richard Little, and William Wallace, Third MaGrann Conference on “The Future of Disasters in Globalizing World.” sponsored by the Department of Geography, Rutgers University, Piscataway, New Jersey, April 2006 (Presented by Richard Little).

“Learning From Disaster: The Process and Politics of Learning from Earthquakes and Other Extreme Events.” (peer reviewed) Eighth National Conference on Earthquake Engineering (8NCEE), part of the 100<sup>th</sup> Anniversary Earthquake Conference, San Francisco, California, April 2006.

“Lessons of Disaster: Policy Change after Catastrophic Events, and Prospects for Resilience.” invited presentation at Managing Extreme Events: Transatlantic Perspectives, University of Pittsburgh, March 2006. Follow-up workshop participant, University of Leiden, Netherlands, June 2007.

Discussant, panel on hazards management, Association for Public Policy Analysis and Management (APPAM), November 2005.

Invited Panelist, “Hurricanes Katrina and Rita: Implications for Public Administration.” National Association of Schools of Public Affairs and Policy (NASPAA), Washington, D.C., October 2005.

American Political Science Association, Annual Meeting, Washington, D.C., September 2005

- Discussant, panel on “Exploring Policy Change and Understanding”

- Second author (with Michael Deegan), “System Models of the Politics of Extreme Natural and Technological Events.”

“Physical and Social Infrastructure Impacts and Interdependencies in the December 2004 Tsunami in Southern Thailand.” with Pannapa Herabat, Richard Little, and William Wallace. National Science Foundation, Human and Social Dynamics Program, Principal Investigators’ Conference, Arlington, Virginia, September 2005.

“Update on Recovery from the South Asia Tsunami.” with Pannapa Herabat, Richard Little, and William Wallace. American Sociological Association, Philadelphia, August 2005.

“Journalism as Policy Analysis: A Theory and Preliminary Findings.” Southern Political Science Association, New Orleans, La., January 2005.

“Environmental Policy in New York State.” with Sean Madden, Jeffrey Mapes, Katy Roe, Amanda Stein, Northeastern Political Science Association, Boston, Mass., November 2004.

“Determinants of State Building Code Effectiveness.” with Alka Sapat, Association for Public Policy Analysis and Management, Atlanta, Ga., October 2004.

“Learning from Disaster: Policy Change after Catastrophic Events—The Case of Aviation Security.” American Political Science Association, Chicago, Ill., September 2004.

“Effective Management after a Terrorist Incident: General Principles of Incident Recovery Learned by the New York Courts in the Wake of September 11.” Terrorism Two Years after September 11—Prevention, Mitigation and Recovery: Homeland Security in Delaware, Wilmington, Del., April 2004.

“Learning and Policy Change after Catastrophic Events.” Midwest Political Science Association, Chicago, April 2004.

American Political Science Association, Annual Meeting, Philadelphia, Pa., August 2003

- Presenter, Short Course on Disasters.
- Discussant, panel on “Studies of Learning Organizations.”
- Chair and panelist, “Disasters, Terror and Managing in the Post-9/11 Era: Challenges to Public Policy and Management.” Presented paper on “Disasters as Dress Rehearsals: Learning and Policy Improvement after Disaster.”

“The September 11 Project: Agenda Setting and Policy Change after the Attacks.” Western Political Science Association annual meeting, Denver, Colo., March 2003.

Invited panelist, “Emergency Preparedness: Highlights from the 9-11 Summit—Courts in the Aftermath.” Conference of Chief Justices, Midyear Meeting, Williamsburg, VA, January 2003.

“Viewing Policy and Policy Analysis through Multiple Lenses.” presentation to the Ecological Economics group, Rensselaer Polytechnic Institute, Troy, NY, December 2002.

Panelist, “Communication during Crisis: The Role of Media during Public Health Emergencies.” University at Albany Center for Public Health Preparedness, School of Public Health, November 2002.

Faculty participant, “The NineEleven Summit: Courts in the Aftermath of September 11.” New York, New York, September 2002.

- Plenary panelist on “Leading the Courts: The First Seven Days.”
- Plenary session moderator, “Emergency Preparedness Plans: An Overview of Policy & Practice Issues.”
- Workshop moderator, “Emergency Preparedness Planning: A Workshop.”

“Defining the Times: Patterns in News Coverage of September 11th.” with Regina Lawrence.” American Political Science Association, Boston, Massachusetts, August 2002.

Moderator, Panel on “Protecting Transportation Assets.” Spring Institute of the Empire State Chapter of the American Society for Public Administration, May 2002.

Moderator, “Security vs. Freedom: Balancing Civil Rights and Public Security in the United States.” Sponsored by the Empire State Chapter, American Society for Public Administration; State Academy of Public Administration; and the Government Law Center, Albany Law School, February 2002.

“(Political and Policy) Decision Making during Extreme Events.” Invited presentation, panel on “Response to Terrorism.” Institute for Health and the Environment, School of Public Health, University at Albany, November 2001.

“Scientific Participation in Policy Making: The Case of Earthquakes and Hurricanes.” Invited presentation, Earth Sciences Joint Colloquium Series, University at Albany and Rensselaer Polytechnic Institute, October 2001.

“The Political and Policy Implications of the September 11 Attacks.” Invited presentation, American Society of Civil Engineers, Houston, Texas. October, 2001.

Discussant, panel on “Applications of Agenda Setting Theory.” American Political Science Association, San Francisco, California, August 2001.

“Shifts in Hazards Management in the 21st Century.” Invited presentation, plenary session, Natural Hazards Research and Application Workshop, Boulder, Colorado, July 2001.

“Ten Years after the Spill: The Social and Political Meaning of the Exxon Valdez.” with Regina G. Lawrence. Invited presentation, presented at “Beyond Crisis Science and Emergency Legislation: What Do We Really Know about Oil Spills.” International Conference on Marine Environmental Challenges, School for Marine Science and Technology, University of Massachusetts at Dartmouth; presented in Plymouth, Mass, February 2001.

Discussant, panel on teaching methods, Northeastern Political Science Association, Albany, New York, April 2000.

“The Challenges of Flood Hazard Policy: Federal Policy Failure or Local Intransigence?” Association for Public Policy Analysis and Management (APPAM), Seattle, Washington, November 2000.

“Ecologically Sensitive Methods of Flood Hazard Mitigation.” invited presentation to the EEB group, Department of Biological Sciences, University at Albany, 2000.

“The Politics of Event Driven Problem Definition: School Violence, Media Frames, and Policy Responses.” with Regina Lawrence, American Political Science Association, Washington, D.C., August 2000.

Presenter on the ERes system, Demonstration Panel: Web-Based Courseware Applications, American Political Science Association, Washington, D.C., August 2000.

“Community Mobilization for Hazard Mitigation: the Political Perspective.” Invited presentation, Social Science Add-On Meeting, Natural Hazards Research and Application Workshop, Boulder, Colorado, July 2000.

Discussant, panel on “The Adoption and Development of Market-Based Regulation.” Midwest Political Science Association, Chicago, April 2000.

“Business Management and the Public Policy Making Process: The External Politics of Business Disaster Management.” With Radhika Nath. Midwest Political Science Association, Chicago, April 2000.

Participant in and co-organizer of working group on “Interdisciplinary Synthesis of Recent Natural and Managed Floods” (William Michener, P.I.), under the auspices of the National Center for Environmental Analysis and Synthesis (NCEAS), University of California at Santa Barbara, 1999-2000.

Birkland, T. A., Carman, J. G., Fredericks, K. A., & Tomjanovich, C. “The Challenges of Multi-Site Program Evaluation in the Public and Non-Profit Sectors.” a poster session at “Nonprofits and Academia Conference: Strategies for Social Change,” State University of New York at Albany, Albany, NY; November 10, 1999.

“Models, Data and Sustainability: Sustainable Urban Development and Geographic Information Systems.” With Renee Sieber. Association for Public Policy Analysis and Management, Washington, D.C., November 1999.

“The Role of State and Local Government in Natural Hazard Mitigation.” Invited roundtable participant, Natural Hazards Research and Applications Workshop, Boulder, Colorado, July 1999.

“The Exxon Valdez and Event-Driven Policy Discourse.” With Regina Lawrence. International Communication Association (refereed conference), San Francisco, California, May 1999. **Chosen as one of the top three papers in the Political Communication section.**

“The Exxon Valdez: Wilderness, Environmental Catastrophe, and the Place of Alaska in the Public Imagination.” with Regina Lawrence. Western Political Science Association, Seattle, March 1999.

“The Role of Focusing Events in Public Policy.” Invited presentation, School of Social Sciences and Interdisciplinary Studies, and the Graduate Program in Public Policy and Administration, California State University, Sacramento, March 1999.



“Business Crisis and Resistance to Policy Change: Organizational Factors” with Radhika Nath. American Political Science Association Annual Meeting, Boston, Mass., August 1998.

Discussant, “Applying New Technology in Graduate Education.” American Political Science Association Annual Meeting, Boston, Mass., August 1998.

“Grantsmanship and Program Planning.” Invited presentation, workshop on Grant Funded Programs sponsored by the New York Division of Criminal Justice Services (DCJS), May 1998.

“Science, Scientists, and the Policy Process.” Invited presentation, School of Public Health, University at Albany, 1998.

“The Exxon Valdez Oil Spill as Focusing Event: Politics, Policy and Symbols.” American Studies Association Annual Meeting, Washington, D.C., May 1997.

Co-author with Scott Barclay, “Law, Policy Making, and the Policy Process: Closing the Gaps.” Midwest Political Science Association Annual Meeting, Chicago, Illinois, April 1997.

“The Political Uses of Events.” American Political Science Association Annual Meeting, San Francisco, California, August 1996.

“Toward a National Hurricane Hazards Reduction Program: Lessons from the Earthquake Experience.” Coastal Society Annual Meeting, Seattle, Washington, July 1996.

“Science, Scientists, and the Policy Process.” Invited presentation, Department of Biological Sciences, University at Albany, February 1996.

“Focusing Events, Agenda Setting, and Change in Policy Communities.” Midwest Political Science Association Annual Meeting, Chicago, Illinois, April 1995.

“Toward a Theory of Focusing Events and Agenda Change.” Western Political Science Association Annual Meeting, Portland, Oregon, February 1995.

“On the Waterfront: Visions of Urban Waterfront Redevelopment.” Western Political Science Association Annual Meeting, Portland, Oregon, February 1995.

“Politics and Policymaking after Large Earthquakes.” Earthquake Engineering Research Institute Annual Meeting, San Francisco, California, April 1995.

“Natural Disasters as Focusing Events: A Theory of Agenda and Policy Change.” Western Political Science Association, Albuquerque, New Mexico, March 1994.

Second author with Peter J. May, “Earthquake Risk Reduction: An Examination of Local Regulatory Efforts.” American Political Science Association, Washington, D.C. August 1993.

“Focusing Events and Policy Change: Oil Spill Policy.” presented at the 17th Annual Hazards Research and Applications Workshop, Boulder, Colorado, July 1992.

“Integrating Strategic Planning and Budgeting: A Case Study at the New Jersey Department of Transportation.” presented with Christine Bishop-Edkins at the meeting of the Transportation Research Board, Washington, D.C., January 1990.

## **Fellowships and Awards**

Aaron Wildavsky Enduring Contribution Award, for *After Disaster*, Public Policy Section, American Political Science Association, 2020.

GlaxoSmithKline Faculty Fellow, Institute for Emerging Issues, North Carolina State University, 2009.

Faculty Fellow in Social Science Research Applied to Hazards and Disasters (sponsored by the National Science Foundation and the Hazard Reduction and Recovery Center at Texas A&M University), 1996-97.

University of Washington Dissertation Grant, 1994.

Federal Emergency Management Agency—Earthquake Engineering Research Institute Graduate Fellowship, 1993-94.

J. Allen Smith Graduate Fellowship, University of Washington, Fall Quarter 1990.

Graduate School Dissertation Fellowship, University of Washington, Winter Quarter 1995.

## Teaching Experience

School of Public and International Affairs, North Carolina State University, Raleigh NC:

Undergraduate Course: Introduction to Public Policy.

Graduate Courses: Emergency Policy and Management; Public Policy Seminar (PhD); Policy Process, Research Grant Writing.

Departments of Political Science and Public Administration and Policy, Nelson A. Rockefeller College of Public Affairs and Policy, University at Albany.

Undergraduate Courses: American Supreme Court; Introduction to Public Policy; Public Administration and Management; Government and Mass Media; Public Policy Program Senior Seminar; Internship in Public Affairs, Civil Liberties, Undergraduate Research Seminar.

Graduate Courses: Computing for Public Administration; Politics and Policy; Science, Technology and Public Policy; Biodiversity, Conservation and Environmental Policy, Public Policy Field Seminar, Environmental Policy and Politics, Emergency Policy and Management.

Instructor and Teaching Assistant, Department of Political Science, University of Washington.

Instructor: Introduction to American Politics; Introduction to Public Policy; U.S. Presidency

Teaching Assistant: Introduction to American Politics; Introduction to Politics; United States Foreign Policy; United States Congress.

Instructor, Interdisciplinary Writing Program, Department of English, University of Washington.

## Administrative and Service Activities

### Service to the Profession

Member of the committee for the Elinor Ostrom Career Achievement Award in science, technology, and environmental politics, Science, Technology, and Environmental Politics section, American Political Science Association, 2019.

Member, National Institute of Environmental Health Sciences (NIEHS) OHRC Best Practices Working Group for the Development of Special Considerations for IRB Review of Disaster and Emergency Related Public Health Research, 2016.

Chair, Don K. Price Award Committee (recognizes the best book on science, technology, and environmental politics published in the last year), Science, Technology, and Environmental Politics section, American Political Science Association, 2016.

Associate editor for public policy, *Encyclopedia of American Governance*, Stephen Schechter, editor (Gale, 2016).

Member, Louis Brownlow Award Committee, American Society for Public Administration, for the best article by a practitioner in *Public Administration Review*, 2009.

Review panelist, National Science Foundation, various years from 1999 through 2017.

Review panel member, Centers for Disease Control, 2008.

Editorial boards:

*Policy and Society*, 2009-present.

*Risk, Hazard, and Crisis in Public Policy*, 2009-present.

*Review of Policy Research* 2008-present.

*Journal of Homeland Security and Emergency Management*, 2004-2010.

*State and Local Government Review*, 2004-2007.

*Journal of Public Administration Research and Theory*, 2000-2004.

Review panel member, Oak Ridge Associated Universities, Oak Ridge, TN, 2007.

Guest editor for theme volume on "Risk, Disaster, and Policy in the 21st Century." *American Behavioral Scientist*, November 2004.

Member of the Committee on Disaster Research in the Social Sciences, Division on Earth and Life Studies, the National Research Council, 2004-2005. Result of this effort was *Facing Hazards and Disasters: Understanding Human Dimensions* (Washington, DC: National Academies Press, 2006).

Project Collaborator, "Scholarship in Homeland Security: Exploring the Intellectual Territory." SUNY Conversations in the Disciplines Program (CID), September 2005.

Council member, Public Policy section, American Political Science Association, 2003-06.

Member of the site visit teams for the Pacific Earthquake Engineering Research Center (PEER) (Berkeley, Calif.) and the Multidisciplinary Center for Earthquake Engineering Research (MCEER) (Buffalo, N.Y.), for the National Science Foundation, 2003.

Member, advisory committee, "Enabling the Next Generation of Hazards Researchers." NSF-funded program, Ray Burby, P.I., 2002-2004.

Member, Learning from Earthquakes—Social Science Committee, Earthquake Engineering Research Institute (EERI), 2002-2003.

Reviewer for the 1998 meeting of the Academy of Management, Public and Nonprofit Section, 1998.

Editor, *Public Policy Syllabus Collection* for the American Political Science Association. Collection published in Fall 1998.

Reviewer for St. Martin's Press; Brookings Institution Press; University Press of Florida; Cambridge University Press; Georgetown University Press; *Earthquake Spectra*; *Environmental Management*; *Journal of Public Administration Research and Theory*; *Public Administration Review*; *Environmental Practice*; *Policy Studies Journal*; *Social Science Quarterly*, *Politics & Policy*, *Review of Policy Research*, and other journals.

### **Service to the University and the College**

Associate Dean for Research and Engagement, College of Humanities and Social Sciences, North Carolina State University, January 2011-June 2024

- Member of the Administrative Leadership Team in the College
- Chair of the College Research and Engagement Committee
- College representative to the university Research Operations Council

Institutional Review Board, North Carolina State University

- Co-Chair, 2011-2015
- Chair, 2015-present

Member, Research Committee, College of Humanities and Social Sciences, North Carolina State University, 2007-2010.

Member, Dean Search Committee, College of Humanities and Social Sciences, North Carolina State University, Fall 2008-Winter 2009.

Director, Graduate Certificate in Public Policy, School of Public and International Affairs, North Carolina State University, May 2008-January 2011.

Member, Public Policy Task Force, N.C State University, January-May 2008.

Member, Energy Council, North Carolina State University, 2007-2008.

Director, Center for Policy Research, Nelson A. Rockefeller College of Public Affairs and Policy, 2001-2005; January-June, 2007.

Member, policy and institutions search committee, Rockefeller College, 2003.

Member, Political Science Department Undergraduate Awards Committee, 2003.

Member, Advisory Committee, New York State Environmental History Documentation Project, University at Albany, 2002.

Member, Public Administration and Policy Search Committee, 2001-02.

Public Policy Program Director, Department of Public Administration and Policy, 1997-1999.

Member, Rockefeller College Computing Advisory Committee, 1997-1999.

Co-Director, Biodiversity, Environment and Conservation Program (M.S. level), University at Albany, 1995-present.

Member, search committee for position in conservation biology, 1998-1999.

Member of the selection committee for the Paul Lemon Award for best thesis or dissertation in ecology, University at Albany, 1997, 2001.

University Senate, University at Albany. 1996-1998.

Member, Graduate Academic Council (GAC), 1996-1997.

Chair, GAC Committee on Graduate Admissions and Academic Standing, 1996-1997.

Member, Council on Libraries and Information Services, 1997-1998.

Member, Political Science Department Computer Committee, 1996-1999.

Member, Master of Arts in Public Policy (MPP) Admissions Committee, 1996-2005.