

January 22, 2024

## Jonathan B. Wiener

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### ACADEMIC APPOINTMENTS

#### Duke University, Durham NC

- **William R. and Thomas L. Perkins Professor of Law**, Duke Law School, 2004 – . Professor of Law, 1999 – 2004; Associate Professor of Law, 1994 – 98.
- **Professor of Environmental Policy**, Nicholas School of the Environment (secondary appointment), 1999 – . Associate Professor from 1994 – 98.
- **Professor of Public Policy**, Sanford School of Public Policy (secondary appointment), 2003 – .
- **Co-Director, Duke Center on Risk**, in the Science & Society Initiative, 2018 – .
- **Co-Director, Rethinking Regulation** program, in the Kenan Institute on Ethics, 2015–2019.
- **Director**, JD-LLM in Comparative and International Law, Duke Law School, 2007–2015.
- Founding **Faculty Director**, Duke **Center for Environmental Solutions**, 2000 – 2005, which then became the Nicholas Institute for Environmental Policy Solutions (**Chair**, Faculty Advisory Committee, 2007–2010), then the Nicholas Institute for Energy, Environment & Sustainability.
- Courses taught include: Environmental Law, Climate Change Law, UN FCCC Climate Negotiations Practicum, Risk Regulation, Space Law/Laws of Mars, Global Environmental Law, Law of the Atmosphere, Property Law, Mass Torts, Risk, Happiness & Decisions.
- Bass Connections courses (one-year multidisciplinary team projects): Retrospective Regulatory Review (2015-16); Adaptive Regulation of Automated Vehicles (2016-17); series on Decisions on Complex Interdisciplinary Problems of Health and Environmental Risks (DeCIPHER), including: Ozone/Climate and CFCs/HFCs (2017-18); Drinking Water (2018-19); Geoengineering Governance (2019-20); Going to Mars: Science, Society and Sustainability (2020-21); Future Space Settlements: Lessons from History (2024-25).

#### Faculty Affiliate

- **Duke Kunshan University (DKU)**, Environment Program, Kunshan, China
- **Harvard Center for Risk Analysis (HCRA)**, Harvard TH Chan School of Public Health, Cambridge MA

#### Visiting Appointments

- **NYU Law School**, Distinguished Scholar in Residence: Fall 2023
- **National Bureau of Economic Research (NBER)**, Visiting Research Scholar: Spring 2023
- **Université Paris Ouest Nanterre La Défense**, Paris: 2014
- **Université Paris Dauphine**, Paris: 2010 and 2011
- **Harvard Law School**: 2010 (as Eli Goldston Visiting Professor), and 1999
- **Sciences Po**, Paris: 2008
- **University of Chicago Law School**: 2007
- **Ecole des Hautes Etudes en Sciences Sociales (EHESS)**, et le Centre International de Recherche sur l'Environnement et le Développement (**CIREDD**), Paris: 2005-06

## PROFESSIONAL EXPERIENCE

### Society for Risk Analysis (SRA)

- *President*, 2008. Fellow, 2008 – present. Council member, 2001-04.
- *Co-Chair*, World Congress on Risk (Sydney Australia), 2012.
- Awards: Chauncey Starr Young Risk Analyst, 2003; Richard J. Burk Outstanding Service, 2014.

### Resources for the Future (RFF), Washington DC

- *University Fellow*, 2002 – present.
- *Project assistant* on Hazardous Air Pollutant Strategy Group, 1988-89.

### White House Office of National Service / Corporation for National & Community Service / Americorps Program, Washington DC.

- *Chair*, Environment Working Group, 1993. Helped launch Americorps. Adviser to CEO, EVP.

### White House Council of Economic Advisers (CEA), Executive Office of the President, Washington DC.

- *Senior Staff Economist/Attorney*, 1992-93. Helped draft Executive Order 12,866 on Regulatory Review (Sept. 1993); Climate Change Action Plan (Oct. 1993); and related policies.

### White House Office of Science and Technology Policy (OSTP), Executive Office of the President, Washington DC.

- *Policy Counsel*, 1992. Helped lead "Forests for the Future Initiative" (FFI). Attended Rio Earth Summit (June 1992). Helped draft "scope" statement on regulation of biotechnology (1992).

### US Department of Justice (DOJ), Environment & Natural Resources Division, Washington DC.

- *Special Assistant to the Assistant Attorney General* (Richard B. Stewart), 1989-91. Helped negotiate UN Framework Convention on Climate Change (FCCC) (signed at Rio Earth Summit, June 1992). Helped draft IPCC 1<sup>st</sup> Assessment Report (1990). Successfully argued cases in the U.S. Courts of Appeals for the DC Circuit, 3<sup>rd</sup> Circuit, and 8<sup>th</sup> Circuit.

### Hon. Stephen G. Breyer, US Court of Appeals for the First Circuit, Boston MA.

- *Law Clerk*, 1988-89.

### Hon. Jack B. Weinstein, Chief Judge, US District Court, EDNY, Brooklyn NY.

- *Law Clerk*, 1987-88. Assisted with *Agent Orange* and other cases.

## EDUCATION

### Harvard University, Cambridge MA

- *J.D. cum laude*, 1987. Editor, *Harvard Law Review*, vols. 99-100 (Co-Chair, Harvard Law Review Centennial, 1987). Best Brief Award, Harvard Defenders Moot Court. 2<sup>nd</sup> place, Williston Contracts Competition. Assistant coach, 1985 National Debate Champions. Best Speaker, US-Ireland Challenge Debate, 1985.
- *A.B. magna cum laude*, Economics, 1984. Senior thesis on how labor unions influence technological change was one of three selected for department journal. Member of college debate team ranked 2<sup>nd</sup> in nation, 1983-84 (with Jonathan S. Massey).
- Research assistant at Harvard and National Bureau of Economic Research (NBER), Cambridge MA, 1982-84. Assisted Richard Freeman and James Medoff with *What Do Unions Do?* (1984), and Medoff's article on "skills mismatches" in *Brookings Papers on Economic Activity* (1983).

**SERVICE on BOARDS AND COMMITTEES** (selected)

- Administrative Conference of the United States (ACUS) (Public Member)
- Climate Economics Chair (CEC), Paris (Scientific Committee member)
- Intergovernmental Panel on Climate Change (IPCC), 5<sup>th</sup> Assessment Report (2014) (WG III) (chapter lead author on chapter 13, “International Cooperation: Agreements and Institutions”)
- Institute for Policy Integrity, NYU (Advisory board member)
- International Risk Governance Council (IRGC) (Advisory board member)
- Cambridge Univ. Centre for the Study of Existential Risk (CSER) (Advisory board member)
- Harvard Center for Risk Analysis (HCRA) (Advisory board member, Faculty affiliate)
- Society for Benefit Cost Analysis (SBCA) (Board member, 2020-22)
- Society for Risk Analysis (SRA) (President, 2008; World Congress co-chair, 2012; Council member, 2001-04; Fellow, since 2008)
- Forum for International Cooperation on Artificial Intelligence (AI), Brookings Institution & Centre for European Policy Studies (CEPS) (2020- )
- Trends in Global Governance and Europe's Role (TRIGGER) Project, Centre for European Policy Studies (CEPS), European University Institute (EUI), et al. (2018- )
- World Economic Forum, Global Agenda Council on Climate Change (2014-16)
- China Council for International Cooperation on Environment and Development (CCICED), study team on “Environmental Risk Management” (2015)
- Climate Policy Center (directed by Rafe Pomerance) (Board member, 2003-08)
- Campus Outreach Opportunity League, Washington DC (1994-98)
- North Carolina Commission on National & Community Service (1994-98)
- DC Servathon, Washington DC (1992); Boston Servathon (1989-91)

**SERVICE at DUKE UNIVERSITY** (selected)

- Co-Director, Duke Center on Risk, 2018 - .
- Co-Director, Rethinking Regulation program, 2015-19.
- Duke Climate Commitment, Energy Transformation Working Group, 2020-22; RESILE, 2024 - .
- Science & Society Initiative, Faculty Governance Committee, 2015 - .
- Campus Sustainability Committee, 2018-21.
- Nicholas Institute for Energy, Environment & Sustainability (combining former Nicholas Institute and Energy Initiatives), Faculty Advisory Committee, 2005 - .
- Duke Center for Environmental Solutions, founding Faculty Director, 2000-05.
- Chair, Advisory Committee on Investment Responsibility (ACIR), 2010-13.
- University Committee on Honorary Degrees, 2003-09.
- University Program on Environmental Policy (UPEP) (joint PhD)
- Duke Law, Professional Skills Appointments Committee, 2019 - .
- Duke Law, Lateral Appointments Committee, 1999-2002, 2010-11, 2016-17, 2017-18, Fall 2018.
- Duke Law, Workshops Committee, 2010-11, 2019-20.
- Duke Law, Director, JD-LLM Program in Comparative and International Law, 2007-15.
- Duke Law, “Dedicated to Durham” community service day, founder and adviser, 1995 - .
- *Duke Environmental Law & Policy Forum* (DELPF) journal, faculty adviser.
- Doctoral dissertation committees: Rupanjali Karthik, Law School, SJD 2022 (chair); Ashton Merck, History / Public Policy, PhD 2020; Sean Lonquist, Nicholas School of the Environment, PhD 2020; Chaoyi Jiang, Law School, SJD 2019; Ori Sharon, Law School, SJD 2018; Daniel Lima Ribeiro, Law School, SJD 2018 (chair).

### Referee / Peer Reviewer

- Publishers: Cambridge University Press, Harvard University Press, Oxford University Press, Princeton University Press, Edward Elgar, Routledge.
- Journals: *Climate Policy*, *Global Environmental Change*, *Global Policy*, *Science*, *Environmental Health Perspectives*, *Journal of Environmental Economics & Management*, *Risk Analysis: An International Journal*, *Journal of Risk Research*, *European Journal of Risk Regulation*, *Regulation & Governance*, *Law & Policy*, *Political Studies Review*, *Stanford Law Review*, *Yale Law Journal*.
- Grantors including National Science Foundation (NSF), Smith-Richardson Foundation (SRF).

**PUBLICATIONS** (selected; full “Bibliography” at <https://law.duke.edu/fac/wiener/>)

### BOOKS

POLICY SHOCK: RECALIBRATING RISK AND REGULATION AFTER OIL SPILLS, NUCLEAR ACCIDENTS, AND FINANCIAL CRISES (Edward J. Balleisen, Lori S. Benneer, Kim D. Krawiec and Jonathan B. Wiener, eds.) (Cambridge University Press, 2017; paperback 2020).

THE REALITY OF PRECAUTION: COMPARING RISK REGULATION IN THE UNITED STATES AND EUROPE (Jonathan B. Wiener, Michael D. Rogers, James K. Hammitt, and Peter H. Sand, eds.) (RFF Press/Earthscan/Routledge, 2011).

RECONSTRUCTING CLIMATE POLICY: BEYOND KYOTO (Richard B. Stewart and Jonathan B. Wiener) (AEI Press, 2003).

LEGAL ISSUES PRESENTED BY A PILOT INTERNATIONAL GREENHOUSE GAS (GHG) TRADING SYSTEM (Richard B. Stewart, Jonathan B. Wiener and Philippe Sands) (Geneva: United Nations Conference on Trade and Development [UNCTAD], 1996), available at [http://www.law.duke.edu/fac/wiener/UNCTAD\\_Greenhouse\\_Gas\\_Trading\\_System.pdf](http://www.law.duke.edu/fac/wiener/UNCTAD_Greenhouse_Gas_Trading_System.pdf).

RISK VS. RISK: TRADEOFFS IN PROTECTING HEALTH AND THE ENVIRONMENT (John D. Graham & Jonathan B. Wiener, eds.; foreword by Cass R. Sunstein) (Harvard University Press, 1995) (Japanese translation, Showado Press, 1999; Chinese translation by Xue Lan & Xu Jianhua, Tsinghua University Press, 2018).

### Symposium Issues Edited

“Martian Migration: Policy Report on Science, Society and Sustainability” (Nov. 2021) (Duke Project on Going to Mars – report by students in Bass Connections DeCIPHER 4 project), at <https://www.ourmartian.world/final-report-pdf>.

“New Approaches to International Regulatory Cooperation,” 78 *Law & Contemporary Problems* no. 4 (2015) (Reeve Bull, Neysun Mahboubi, Richard B. Stewart & Jonathan B. Wiener, eds.).

“The Emergence of Global Administrative Law,” 68 *Law & Contemporary Problems* nos. 3 & 4 (2005) (Benedict Kingsbury, Nico Krisch, Richard B. Stewart & Jonathan B. Wiener, eds.).

“Essays Commemorating the 100<sup>th</sup> Anniversary of the *Harvard Law Review*,” 100 *Harv. L. Rev.* no. 4 (1987).

## ARTICLES, CHAPTERS AND PAPERS

1. “The Evolving International Climate Change Regime: Mitigation, Adaptation, Reflection” (with Tyler Felgenhauer), Texas A&M Law Review (forthcoming 2024).
2. “Practical Paths to Risk-Risk Analysis of Solar Radiation Modification” (by Tyler Felgenhauer, Govindasamy Bala, Mark Borsuk, Inés Camilloni, Jonathan Wiener, and Jianhua Xu) (forthcoming 2024).
3. “Improving Risk Governance via Two-Way Policy Learning: A Comparative Analysis of Solar Geoengineering and Gene Drives” (with Khara Grieger, Jennifer Kuzma, Tyler Felgenhauer, Mark Borsuk) (forthcoming 2024).
4. “Regulatory Learning through Agency Action under the Evidence-Based Policymaking Act” (with Lori S. Benneer and Rupanjali Karthik), for the Resources for the Future (RFF) Project on Retrospective Regulatory Analysis (forthcoming 2024).
5. “Co-Benefits, Countervailing Risks, and Cost-Benefit Analysis” (with John D. Graham), in Dennis Paustenbach, ed., Human and Ecological Risk Assessment: Theory and Practice (John Wiley & Sons, 3d ed., forthcoming 2024).
6. “Modernizing Regulatory Review: Assessing All Important Impacts,” ABA Administrative & Regulatory Law News, vol. 48, Issue 3, pp.11-14 (Spring 2023), reprinted in the Yale J. on Regulation Online at <https://www.yalejreg.com/nc/modernizing-regulatory-review-assessing-all-important-impacts-by-jonathan-b-wiener/>.
7. “Solar Radiation Modification: A Risk-Risk Analysis” (with Tyler Felgenhauer, Govindasamy Bala, Mark Borsuk, Matthew Brune, Ines Camilloni, and Jianhua Xu), paper for Carnegie Climate Governance Initiative (C2G), New York (March 14, 2022), available at <https://www.c2g2.net/managing-the-risk-of-temperature-overshoot/>, or the PDF directly at <https://www.c2g2.net/wp-content/uploads/202203-C2G-RR-Full.pdf> or <https://bit.ly/SRM-Risk-Risk>. Related blog post, “Would solar radiation modification increase or decrease overall risk?” (May 17, 2022), at <https://www.c2g2.net/would-solar-radiation-modification-increase-or-decrease-overall-risk/>.
8. “Social Science Research to Inform Solar Geoengineering,” 374 Science 815-818 (November 12, 2021), DOI: 10.1126/science.abj6517, at <https://www.science.org/doi/10.1126/science.abj6517> (co-authored by Joseph E. Aldy, Tyler Felgenhauer, William A. Pizer, Massimo Tavoni, Mariia Belaia, Mark E. Borsuk, Arunabha Ghosh, Garth Heutel, Daniel Heyen, Joshua Horton, David Keith, Christine Merk, Juan Moreno-Cruz, Jesse L. Reynolds, Katharine Ricke, Wilfried Rickels, Soheil Shayegh, Wake Smith, Simone Tilmes, Gernot Wagner, and Jonathan B. Wiener).
9. “Institutional Roles and Goals for Retrospective Regulatory Analysis” (with Lori S. Benneer), 12 Journal of Benefit-Cost Analysis 466-493 (2021), DOI: <https://doi.org/10.1017/bca.2021.10>, at <https://www.cambridge.org/core/journals/journal-of-benefit-cost-analysis/article/abs/institutional-roles-and-goals-for-retrospective-regulatory-analysis/854C29B840DB7A61D850F037C6472A69>
10. “Disregard and Due Regard,” 29 NYU Environmental Law Journal 437-469 (2021), at <http://www.nyuelj.org/wp-content/uploads/2021/10/Wiener-Final.pdf> (in the symposium honoring

Richard B. Stewart, <https://www.nyuelj.org/issues/volume-29/>).

11. “Comparing Environmental Risk Regulation in China and the United States” (with Jianhua XU and Huanhong LI), 42 *Risk Analysis* 730-756 (April 2022), <http://doi.org/10.1111/risa.13797> , at <https://onlinelibrary.wiley.com/doi/10.1111/risa.13797> . Related blog post, Dec. 20, 2021, at <https://www.theregreview.org/2021/12/20/xu-wiener-comparing-us-chinese-environmental-risk-regulation/> .
12. “Gotta Catch ‘em All,” *Yale J. on Regulation Online*, Oct. 19, 2021, at <https://www.yalejreg.com/nc/symposium-reviving-rationality-part-16/> (symposium commenting on Michael A. Livermore & Richard L. Revesz, *Reviving Rationality* (Oxford Univ. Press, 2022)).
13. “Periodic Review of Agency Regulation,” report for the Administrative Conference of the United States (ACUS) (with Lori S. Benneer) (June 7, 2021), at <https://www.acus.gov/report/periodic-retrospective-review-report-final> . Related blog post, Nov. 9, 2021, at <https://www.theregreview.org/2021/11/09/benneer-wiener-periodic-review/> .
14. “Agenda Setting at EPA” (with John D. Graham), chapter 13 in A. James Barnes, John D. Graham & David Konisky, eds., *Fifty Years at the US Environmental Protection Agency* (Rowman & Littlefield, 2021).
15. “Learning to Manage the Multi-Risk World,” 40 *Risk Analysis* 2137-2143 (November 2020), <https://doi.org/10.1111/risa.13629> , at <https://onlinelibrary.wiley.com/doi/abs/10.1111/risa.13629> .
16. [in progress] “Adaptive Regulation: A Framework for Policy Learning over Time” (with Lori S. Benneer) (working draft presented at Harvard Kennedy School, Feb. 2019).
17. “Built to Learn: From Static to Adaptive Environmental Policy” (with Lori S. Benneer), in Daniel C. Esty, ed., *A Better Planet: Forty Big Ideas for a Sustainable Future* (Yale Univ. Press, 2019).
18. “Emerging Risk Governance for Stratospheric Aerosol Injection as a Climate Management Technology,” 39 *Environmental System and Decisions* 371-382 (2019), at <http://link.springer.com/article/10.1007/s10669-019-09730-6> (with Khara Grieger, Tyler Felgenhauer, Ortwin Renn and Mark Borsuk).
19. “Precautionary Principle,” chapter VI.13, pp.174-185 in volume 6 on *Principles of Environmental Law* (Ludwig Kramer and Emanuela Orlando, eds.) of the *Encyclopedia of Environmental Law* (Michael Faure, ed.) (IUCN and Edward Elgar, 2018), available at [https://www.elgaronline.com/view/nlm-book/9781786436986/b-9781785365669-VI\\_13.xml](https://www.elgaronline.com/view/nlm-book/9781786436986/b-9781785365669-VI_13.xml) and full book at <https://www.e-elgar.com/shop/principles-of-environmental-law>.
20. “The Tragedy of the Uncommons: Psychology, Politics and Policy,” in B. John Garrick, ed., *Proceedings of the First International Colloquium on Catastrophic and Existential Risk* (B. John Garrick Institute for the Risk Sciences, UCLA, 2018).
21. “Introduction,” chapter 1 in *Policy Shock: Recalibrating Risk and Regulation after Oil Spills, Nuclear Accidents, and Financial Crises* (chapter co-authored by book co-editors Edward Balleisen, Lori Benneer, Kim Krawiec and Jonathan Wiener) (Cambridge University Press, 2017).
22. “Conclusions – Recalibrating Risk: Crises, Learning, and Regulatory Change,” chapter 18 in *Policy Shock: Recalibrating Risk and Regulation after Oil Spills, Nuclear Accidents, and Financial*

Crises (chapter co-authored by book co-editors Edward Balleisen, Lori Benneer, Kim Krawiec and Jonathan Wiener) (Cambridge University Press, 2017).

23. “Comparing Regulatory Oversight Bodies: US OIRA and the EU RSB” (with Alberto Alemanno), in Susan Rose-Ackerman & Peter Lindseth, eds., Comparative Administrative Law (2d ed., Edward Elgar, 2017), at <https://www.elgaronline.com/view/9781784718657.xml> .
24. “China’s Development and Environmental Risk Management: A Balanced Perspective for the Future,” in Roger E. Kasperson, ed., Risk Conundrums: Solving Unsolvable Problems 112-126 (London: Earthscan “Risk in Society” series, Routledge, 2017) (co-authored by Bi, J., Greene, G., Ma, Z., Wiener, J., Yu, F., Renn, O., Zhang, S., Vennemo, H., Zhang, J., Andrews, S., Wang, P., Cheng, H., Bao, C., Zeng, W., Guo, Q., Qian, Y., Qu, C., Zhang, W., Cao, G., Liu, M., Chen, K., Han, G., Wang, K., Wang, J., Qu, J.), at <https://www.routledge.com/Risk-Conundrums-Solving-Unsolvable-Problems/Kasperson/p/book/9781138956070> .
25. “Climate Policy in the New US Administration,” Policy Brief 2017-02, Climate Economics Chair, Paris (6 June 2017), at <http://www.chaireconomieduclimat.org/en/slider-en/policy-brief-climate-policy-in-the-new-us-administration/> or <http://www.chaireconomieduclimat.org/wp-content/uploads/2017/06/17-06-06-Policy-Brief-2017-02-Wiener-Climate-Policy-in-the-new-US-administration.pdf> .
26. “Risk Regulation and Future Learning,” 8 *European Journal of Risk Regulation* 4-9 (April 2017), at <https://www.cambridge.org/core/journals/european-journal-of-risk-regulation/article/risk-regulation-and-future-learning/B906DDB0A51BE73D3AA5223D875984DB> .
27. “Transatlantic Patterns of Risk Regulation: Implications for International Trade and Cooperation” (International Risk Governance Council (IRGC), April 2017) (authored by Jonathan Wiener, Arthur Petersen, John Graham, Ken Oye, Ortwin Renn, and Christina Benighaus), at <https://infoscience.epfl.ch/record/228197?ln=en> .
28. “On Morals, Markets, and Climate Change: Exploring Pope Francis’ Challenge,” 80 Law and Contemporary Problems 135-162 (2017) (with Jonas Monast and Brian Murray), at <http://lcp.law.duke.edu/article/on-morals-markets-and-climate-change-monast-vol80-iss1/> .
29. “Environmental Regulation Going Retro: Learning Foresight from Hindsight,” 32 Journal of Land Use & Environmental Law 1-72 (2016) (with Daniel Ribeiro).
30. “Towards a New International Law of the Atmosphere?” 7 Göttingen Journal of International Law 195-223 (November 2016) (with Peter H. Sand), at <http://www.gojil.eu/72-abstract-sand-wiener> .
31. “Impact Assessment: Diffusion and Integration,” in Francesca Bignami & David Zaring, eds., Comparative Law and Regulation: Understanding the Global Regulatory Process 159-189 (Edward Elgar, 2016) (with Daniel Ribeiro), at <http://www.e-elgar.com/shop/comparative-law-and-regulation> .
32. “The Tragedy of the Uncommons,” 7 Global Policy 67-80 (issue S1, May 2016), at <http://onlinelibrary.wiley.com/doi/10.1111/1758-5899.12319/abstract> .
33. “Precaution and Climate Change,” in Cinnamon Carlarne, Kevin R. Gray and Richard Tarasofsky, eds., The Oxford Handbook of International Climate Change Law (Oxford Univ. Press, 2016), at <https://global.oup.com/academic/product/the-oxford-handbook-of-international-climate-change->

[law-9780199684601](#) .

34. “The Value of Information in Decision-Analytic Modeling for Malaria Vector Control in East Africa,” 37 *Risk Analysis* 231-44 (online 23 March 2016, in print February 2017) (Dohyeong Kim, Zachary Brown, Richard Anderson, Cliff Mutero, Marie Lynn Miranda, Jonathan Wiener, and Randall Kramer), at <http://onlinelibrary.wiley.com/doi/10.1111/risa.12606/abstract> .
35. “New Approaches to International Regulatory Cooperation: The Challenge of TTIP, TPP and Mega-Regional Trade Agreements,” 78 *Law & Contemporary Problems* 1-29 (2015) (introduction to symposium issue) (with Richard B. Stewart, Reeve T. Bull, and Neysun Mahboubi), at <http://scholarship.law.duke.edu/lcp/vol78/iss4/> . Reprinted in Axel Marx and Jan Wouters, eds., *Global Governance* (Edward Elgar, 2018), Volume I, Chapter 19, at <http://www.elgar.com/shop/isbn/9781786433756> .
36. “The Future of International Regulatory Cooperation: TTIP as a Learning Process toward a Global Policy Laboratory,” 78 *Law & Contemporary Problems* 103-136 (2015) (with Alberto Alemanno), at <http://scholarship.law.duke.edu/lcp/vol78/iss4/> .
37. “Towards an Effective System of Monitoring, Reporting and Verification,” chapter 13 in Scott Barrett, Carlo Carraro & Jaime de Melo, eds., *Towards a Workable and Effective Climate Regime* (CEPR Press and FERDI, 2015), pp.183-200, at <http://www.voxeu.org/content/towards-workable-and-effective-climate-regime> .
38. “Eco-Environmental Risk Management,” Special Policy Study report for the China Council for International Cooperation on Environment and Development (CCICED) (2015) (Jun Bi, Shiqiu Zhang, Jinliang Zhang, Fang Yu, George Greene, Ortwin Renn, Haakon Vennemo, Jonathan Wiener, et al.).
39. “Using and Improving the Social Cost of Carbon,” 346 *Science* 1181-82 (5 December 2014) (co-authored by William Pizer, Matthew Adler, Joseph Aldy, David Anthoff, Maureen Cropper, Kenneth Gillingham, Michael Greenstone, Brian Murray, Richard Newell, Richard Richels, Arden Rowell, Stephanie Waldhoff, and Jonathan Wiener), available at <http://www.sciencemag.org/content/346/6214/1189.full> .
40. “Responding to Agency Avoidance of OIRA,” 37 *Harvard J. Law & Public Policy* 447-521 (2014) (with Nina Mendelson), available at [http://www.harvard-jlpp.com/wp-content/uploads/2014/05/37\\_2\\_447\\_Mendelson\\_Wiener.pdf](http://www.harvard-jlpp.com/wp-content/uploads/2014/05/37_2_447_Mendelson_Wiener.pdf) .
41. “Intellectual Property and Alternatives: Strategies for Green Innovation,” chapter 12 in Mario Cimoli, Giovanni Dosi, Keith E. Maskus, Ruth L. Okediji, Jerome H. Reichman & Joseph E. Stiglitz, eds., *Intellectual Property Rights: Legal and Economic Challenges for Development* (Oxford University Press, 2014) (with Jerome Reichman, Arti K. Rai & Richard G. Newell), at <https://oxford.universitypressscholarship.com/view/10.1093/acprof:oso/9780199660759.001.0001/acprof-9780199660759-chapter-12> .
42. “International Cooperation: Agreements and Institutions” (with Robert Stavins, Zou Ji, and others), in Ottmar Edenhofer et al., eds., Intergovernmental Panel on Climate Change (IPCC), 5<sup>th</sup> Assessment Report (AR5), Working Group III, *Climate Change 2014: Mitigation* (2014), chapter 13, at <http://www.ipcc.ch/report/ar5/wg3/> .
43. “Better Ways to Study Regulatory Elephants,” 2/2013 *European Journal of Risk Regulation* 311-



- 19 (2013) (with Brendon Swedlow, James K. Hammitt, Michael D. Rogers, and Peter H. Sand).
44. "The Politics of Precaution, and the Reality," 7 Regulation and Governance 258 (2013).
  45. "The Diffusion of Regulatory Oversight," in The Globalization of Cost-Benefit Analysis in Environmental Policy (Michael A. Livermore & Richard L. Revesz, eds., Oxford Univ. Press, 2013), at <https://global.oup.com/academic/product/the-globalization-of-cost-benefit-analysis-in-environmental-policy-9780199934386>.
  46. Book review of Michelle Everson and Ellen Vos, eds., *Uncertain Risks Regulated* (Routledge-Cavendish, 2009), and Joakim Zander, *The Application of the Precautionary Principle in Practice* (Cambridge University Press, 2010), 15 Journal of Risk Research 448-51 (2012).
  47. "What Begat Property?" 43 History of Political Economy 353-360 (2011).
  48. "The Rhetoric of Precaution," chapter 1 in The Reality of Precaution: Risk Regulation in the United States and Europe (Jonathan B. Wiener, Michael D. Rogers, James K. Hammitt, and Peter H. Sand, editors) (Washington DC and London: RFF Press/Earthscan/Routledge, 2011).
  49. "Beef, Hormones and Mad Cows," chapter 3 (with George Gray and Michael D. Rogers), in The Reality of Precaution: Risk Regulation in the United States and Europe (Jonathan B. Wiener, Michael D. Rogers, James K. Hammitt, and Peter H. Sand, editors) (Washington DC and London: RFF Press/Earthscan/Routledge, 2011).
  50. "Terrorism and Weapons of Mass Destruction," chapter 12 (with Jessica Stern) in The Reality of Precaution: Risk Regulation in the United States and Europe (Jonathan B. Wiener, Michael D. Rogers, James K. Hammitt, and Peter H. Sand, editors) (Washington DC and London: RFF Press/Earthscan/Routledge, 2011).
  51. "A Quantitative Comparison of Relative Precaution in the United States and Europe, 1970-2004," chapter 15 (with Brendon Swedlow, Denise Kall, Zheng Zhou, & James K. Hammitt) in The Reality of Precaution: Risk Regulation in the United States and Europe (Jonathan B. Wiener, Michael D. Rogers, James K. Hammitt, and Peter H. Sand, editors) (Washington DC and London: RFF Press/Earthscan/Routledge, 2011).
  52. "The Real Pattern of Precaution," chapter 20 in The Reality of Precaution: Risk Regulation in the United States and Europe (Jonathan B. Wiener, Michael D. Rogers, James K. Hammitt, and Peter H. Sand, editors) (Washington DC and London: RFF Press/Earthscan/Routledge, 2011).
  53. Book review of George J. Annas, *Worst Case Bioethics: Death, Disaster and Public Health* (Oxford Univ. Press, 2010), 30 Health Affairs 796-797 (April 2011).
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## OP-EDS, BLOGS, COMMENTS, AND SHORTER ITEMS

"Climate Change and the Supreme Court," RFF Resources (May 19, 2022) (with Susan Tierney and Lisa Heinzerling), at <https://www.resources.org/archives/climate-change-and-the-supreme-court/>

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**LECTURES, PRESENTATIONS, SEMINARS** (selected)

“Artificial General Intelligence, Existential Risk, and Human Extinction: Lessons from Environmental Law,” at the Society for Environmental Law and Economics (SELE) annual conference, Florida State University (Tallahassee FL, 22 March 2024)

“Benefit-Cost Analysis and the Courts,” at the Society for Benefit-Cost Analysis (SBCA) annual conference, at George Washington University (Washington DC, 18 March 2024)

“Interplanetary Contamination: Insights from Apollo for Asteroids, Artemis and Mars,” in the NYU Space Talks (online, 21 February 2024)

“New Developments in Economic Impact Assessments of Risk-Reducing Policies,” remarks at the Society for Risk Analysis (SRA) annual meeting (Washington DC, 13 December 2023)

“Space Risks: Planetary Defense and Planetary Protection,” at the Society for Risk Analysis (SRA) annual meeting (Washington DC, 13 December 2023)

“The Future of Risk Analysis,” remarks at the workshop on The Future of Risk Analysis, at George Washington University School of Public Health (Washington DC, 8 December 2023)

“Solar Radiation Modification: Risk-Risk Analysis and Governance,” at the Society for Social Studies of Science (“4S”) conference (Honolulu, Hawaii, 9 November 2023)

“Solar Radiation Modification: Risk-Risk Analysis and Governance,” Inter-American Development Bank (IADB / BID), Program on Regulation & Technological Innovation: Opportunities, Challenges and Emerging Approaches (online, 31 October 2023)

“Mars Sample Return and Planetary Protection against Harmful Contamination,” in the colloquium on Space Law and Global Governance, NYU Law School (NYC, 24 October 2023)

“The Role of OIRA in Federal Regulation,” in the Regulatory Policy Clinic, NYU Law School (NYC, 18 October 2023)

“Solar Radiation Modification: Risk-Risk Analysis and Governance,” in the colloquium on Space Law and Global Governance, NYU Law School (NYC, 17 October 2023)

“Decarbonizing the Economy: Key Issues,” remarks at the annual conference of the Climate Economics Chair (CEC), Dauphine-PSL University (Paris, 11 October 2023)

“Solar Radiation Modification: A Conversation with the Right Honourable Kim Campbell, former Prime Minister of Canada,” at the conference on Solar Geoengineering Futures, at Resources for the Future (RFF) (Washington DC, 28 September 2023) (chair)

“Solar Radiation Modification: A Risk-Risk Analysis,” in the course on Regulation of Emerging Technologies, European University Institute (EUI) (Florence, online, 27 September 2023)

“The International Climate Regimes in 1990, 2020, and 2050,” in the course on Climate Change Law at the University of Iceland (Reykjavik, 25 August 2023)

“Climate Risks and Comprehensive Responses,” at the Central Bank of Iceland (Reykjavik, 24 August 2023)

“Carbon Markets: History, Design, Performance, Governance,” at the conference on “The Role of Carbon Markets in Iceland’s Climate Laws and Policies” at the National Museum of Iceland (Reykjavik, 23 August 2023)

“Training Session for the UN Global Risk Report Team” (online 26 September 2023)

“Co-Benefits, Countervailing Risks, and Cost-Benefit Analysis,” at the Society for Environmental Law and Economics (SELE), Cambridge University (UK) (15-16 June 2023)

“Regulatory Learning through Agency Action under the Evidence-Based Policy Act,” Resources for the Future (RFF) workshop on Retrospective Analysis of Federal Environmental Regulation (online 7 June 2023)

Climate Overshoot Commission meeting (The Atlantic Council, Washington DC, 19 May 2023)

“Solar Radiation Modification: A Risk-Risk Analysis,” seminar on Law and Global Governance, NYU Law School (New York City, 12 April 2023)

“Risk Analysis and Risk Management,” workshop on Risk and Regulation in the United States and Brazil, Harvard Kennedy School (Cambridge MA, 7 April 2023)

“Space Law/Laws of Mars,” seminar on Law and Global Governance, NYU Law School (New York City, 5 April 2023)

“Co-Benefits, Countervailing Risks, and Cost-Benefit Analysis,” at the Society for Benefit-Cost Analysis (SBCA) annual conference (Washington DC, online, 13 March 2023)

“Environmental Sustainability of Emerging Technologies,” International Risk Governance Council (IRGC) workshop (online, 6 March 2023) (discussant)

“Risk Analysis and the Law,” Harvard School of Public Health (Boston MA, online, 3 March 2023)

“The International Climate Regimes in 1990, 2020, and 2050,” at the Symposium on “2030, 2050, and Beyond: Creating Effective, Practical, and Realistic Climate Goals,” at Texas A&M University School of Law (Fort Worth TX, 24 February 2023)

“Risk Regulation and the Supreme Court,” at the Society for Risk Analysis (SRA) annual conference (Tampa FL, 7 December 2022) (keynote plenary session)

“Major Questions at the Supreme Court: Implications for Risk Analysis,” at the Society for Risk Analysis (SRA) annual conference (Tampa FL, 7 December 2022)

“The Social Cost of Carbon on Trial: What Comes Next?” at the Society for Risk Analysis (SRA) annual conference (Tampa FL, 5 December 2022)

“Solar Radiation Modification: A Risk-Risk Analysis,” at the Society for Risk Analysis (SRA) annual conference (Tampa FL, 5 December 2022)

“Adaptive Regulatory Learning in the US and India” (with Lori S. Benneer and Rupanjali Karthik), at the Society of Policy Scientists annual conference (Durham NC, 18 November 2022)

“The Clean Water Act at 50,” Duke Environmental Law & Policy Forum (DELPF) Annual Symposium (Durham NC, 28 October 2022) (session chair)

“Regulatory Cooperation: Learning from Regulatory Variation,” TRACK-STAR Forum (online, 26 October 2022)

“Environmental Law after West Virginia v. EPA,” Duke Environmental Law Society (Durham NC, 26 October 2022)

“Solar Geoengineering and International Security,” workshop at Resources for the Future (RFF) (Washington DC, 25 October 2022)

“Solar Geoengineering and Strategic Behavior,” workshop at Teton Science School (Jackson WY, 7-10 October 2022)

“Planetary Engineering and Planetary Ethics,” presenter at the Duke Climate Commitment Strolling Supper (Durham NC, 29 September 2022)

“Solar Radiation Modification: A Risk-Risk Analysis,” Florida State University College of Law (online, 22 September 2022)

“Regulatory Law and the Supreme Court,” in the speaker series in honor of Walter Dellinger, at Carolina Meadows University (Chapel Hill NC, 19 September 2022)

“Foreign Intervention and Domestic Climate Policy,” discussant on paper by Harding and Cruz, Research Workshop on Solar Geoengineering held by Resources for the Future (RFF) (Washington DC, 15 September 2022)

“The Future of Administrative Law and Environmental Regulation: What Happens Next after West Virginia v. EPA,” Duke Law School (Durham NC, 8 September 2022)

“Options for EPA after West Virginia v. EPA,” MIT science policy webinar (online, 6 July and 9 August 2022)

“Environmental Sustainability of Emerging Technologies,” at the conference of the International Risk Governance Council (IRGC) (online 27 June 2022)

“Solar Radiation Modification: A Risk-Risk Analysis,” for the Environmental Law Institute (ELI) “webinar on New Frontiers in Environmental Law: Geoengineering” (online 21 June 2022)

“Democracy and Executive Power: Policymaking Accountability in the US, the UK, Germany and France,” panelist on book by Susan Rose-Ackerman, at the symposium on “Administrative Procedure Reform in Europe and the United States,” University of Pennsylvania Law School (Philadelphia, 10 June 2022)

“Solar Radiation Modification: A Risk-Risk Analysis,” at the Society for Environmental Law & Economics (SELE), NYU Law School (New York, 9 June 2022)

“Solar Radiation Modification: A Risk-Risk Analysis,” for the United Nations expert group convened by the Carnegie Climate Governance (C2G) program (online 25 May 2022)

“Foresight and Adaptive Regulation,” in the conference on “How Does Anticipation Guide Decision-Making in the EU,” held by KU Leuven (online 19 May 2022)

“Recalling the Past and Looking to the Future: The Prospects for US Environmental Policy,” interview by Prof. Robert Stavins (Harvard University) in his “Environmental Insights” podcast series of interviews with key figures in the field (28 April 2022), available at <https://soundcloud.com/environmentalinsights/the-prospects-for-us-environmental-policy-a-conversation-with-jonathan-wiener> , and blog at <https://www.robertstavinsblog.org/2022/05/09/recalling-the-past-and-looking-to-the-future/>

“Agency Action under the Evidence-Based Policy Act,” at the Resources for the Future (RFF) workshop on Retrospective Analysis of Federal Environmental Regulation (online 31 March 2022)

“The Climate Change Agreements,” Gilman Climate Leaders Seminar, Gilman International Scholarship Program, US Department of State and Duke University (online, 24 March 2022)

“Climate Change and the Supreme Court,” Resources for the Future (RFF) webinar (online 22 March 2022) (with Susan Tierney and Lisa Heinzerling; > 1,000 registrants; > 500 attendees live; video recording posted at <https://www.rff.org/events/rff-live/climate-change-and-the-supreme-court/> ; RFF Resources article, May 19, 2022, at <https://www.resources.org/archives/climate-change-and-the-supreme-court/> )

“The Year in Regulation,” Society for Benefit-Cost Analysis (SBCA) (Washington DC, online 18 March 2022)

“Regulation of Emerging Technology: Precaution vs. Risk-Risk,” at the Symposium on Scientific Evidence and the Admissibility of Expert Testimony, George Mason Univ. Law & Economics Center (Destin, FL, 8 March 2022)

“Risk Analysis and the Law,” Harvard School of Public Health (Boston MA, online, 4 March 2022)

“Navigating the Risk-Risk Tradeoffs of Climate Engineering,” Duke Research Week (with Mark Borsuk) (online, 1 February 2022)

“Precaution,” at the Society for Risk Analysis (SRA) annual conference (online, 8 December 2021)

“Space Risks and Sample Returns from Mars,” at the Society for Risk Analysis (SRA) annual conference (online, 8 December 2021)

“Risks and Governance of Solar Geoengineering,” at the Society for Risk Analysis (SRA) annual conference (poster; online, 6 December 2021)

“Space Debris,” at the Society for Risk Analysis (SRA) annual conference (online, 6 December 2021)

“Learning to Manage the Multi-Risk World,” at the Annual Science Symposium of the Personal Care Products Council (online, 27 October 2021)

“Democracy and Executive Power,” comments on book by Susan Rose-Ackerman, Yale Law School, moderated by Neysun Mahboubi, Univ. of Pennsylvania (on the Clubhouse audio app, 20 October 2021)

“Framing AI Risk,” at the NIST workshop on an AI Risk Management Framework (RMF) (online, Washington DC, 19 October 2021)

“Introducing the Duke Space Initiative,” discussion hosted by Polis at Duke University (online, Durham NC, 9 September 2021), story at <https://researchblog.duke.edu/2021/09/17/introducing-the-duke-space-initiative/>

“The Role of Science in Regulation,” in the webinar on “Scrutinizing the Role of Expertise and Scientific Evidence in the Legal and Regulatory Arenas,” held online by R Street Institute (Washington DC, 9 September 2021)

“Institutional Roles and Goals for Retrospective Regulatory Analysis,” at the conference on Regulation & Governance of the European Consortium for Policy Research (ECPR) (online, 25 June 2021)

“Periodic Review of Agency Regulation,” at the Plenary session of the Administrative Conference of the United States (ACUS) (online, 17 June 2021) (presentation of report to ACUS, co-authored with Lori Bennear)

“Governing collision risk from space debris in low Earth orbit,” workshop of the International Risk Governance Council (IRGC) (online, 4-5 May 2021) (participant)

“Retrospective Regulatory Review: The Case of Social Equity,” National Academy of Public Administration, Standing Panel on Executive Organization and Management (online, 30 April 2021)

“The Global Rise of the Plug-In Electric Vehicle,” Duke Center on Risk and Duke University Energy Initiative (online video, 19 April 2021) (session host)

“Climate Policy in the Biden-Harris Administration,” annual conference of the Climate Economics Chair (CEC), Univ. Paris Dauphine, Paris (online, 15 April 2021)

“Periodic Review of Agency Regulation,” at the Committee on Administration and Management, Administrative Conference of the United States (ACUS) (online, 9 April 2021; 23 April 2021; and 7 May 2021) (presentation of report to ACUS Committee, co-authored with Lori Bennear)

“Risk Regulation and Autonomous Systems: Built to Learn?” Lecture in the series on Safety and Ethics of Autonomous Systems, Computer Science Dept., North Carolina State University (NCSU) (online, 26 March 2021)

“Regulatory Cost-Benefit Analysis in a Post-Trump World,” at the annual conference of the Society for Benefit-Cost Analysis (SBCA) (online, 24 March 2021)

“Race and the 1L Curriculum: Property,” featuring Richard Brooks (NYU) and Mavis Gragg (American Forests Association), at Duke Law School (online, 23 March 2021) (chair)

“Four Years in Regulation: Benefits and Costs of Major Rules, 2017-2020,” at the annual conference of the Society for Benefit-Cost Analysis (SBCA) (online, 23 March 2021)

“Periodic Review of Agency Regulation,” at the annual conference of the Society for Benefit-Cost Analysis (SBCA) (online, 19 March 2021) (paper presented by co-author Lori Benneer)

“Benefit-Cost Analysis in Asia,” at the annual conference of the Society for Benefit-Cost Analysis (SBCA) (online, 18 March 2021) (session chair)

“Institutional Dimensions of Retrospective Analysis of Environmental Regulation,” at the annual conference of the Society for Benefit-Cost Analysis (SBCA) (online, 17 March 2021) (paper presented by co-author Lori Benneer)

“Risk Analysis and the Law,” Harvard School of Public Health (Boston MA, online, 11 March 2021)

“Disregard and Due Regard,” at the Symposium in Honor of Richard B. Stewart, NYU Law School (online, 12 January 2021)

“Learning to Manage the Multi-risk World” and “Roundtable on the 40<sup>th</sup> Anniversary of SRA,” at the Society for Risk Analysis (SRA) annual conference (online, 14-17 December 2020)

“Covid-19 Transmission: Estimating Risk in Indoor Settings,” Duke Center on Risk webinar (online, Durham NC, 13 November 2020) (moderator)

“Asteroids, Planetary Defense, and Global Catastrophic Risk,” Duke Center on Risk webinar (online, Durham NC, 6 November 2020) (moderator)

“International Seminar on Climate Litigation as Governance Tool,” Duke Kunshan University (DKU) (online, Kunshan, China, 23 October 2020) (session chair)

“Risk-Risk Tradeoffs: Perspectives for better risk management decisions,” European Risk Forum (ERF) (Brussels, 19 October 2020, online webinar)

“Surviving Judicial Review,” at the Society for Benefit Cost Analysis (SBCA) (online webinar, 4 August 2020)

“Comparing Risk Regulation in the US and EU,” at the “Transatlantic AI Dialogue,” held jointly by Brookings & the Centre for European Policy Studies (CEPS) (online, 25 June 2020)

“Asteroids and Mars: Property Rights and Planetary Protection,” webinar on “Asteroid Mining” hosted by the Museum of Life & Science, Durham NC (online, 24 March 2020)

“Risk Analysis and the Law,” Harvard School of Public Health (Boston MA, 12 March 2020)

“Co-Benefits, Countervailing Risks, and Cost-Benefit Analysis,” at the Society for Risk Analysis (SRA) annual conference (Crystal City VA, 10 Dec. 2019)

“Built to Learn,” at the conference on “Better Planet,” Yale University and American University, held at Arent Fox auditorium, Washington DC (14 November 2019)

“Going to Mars,” Duke Science & Society Dinner Dialogue, Chapel Hill NC (29 October 2019)

“Co-Benefits, Countervailing Risks and Cost-Benefit Analysis,” conference on Risk Assessment, Economic Evaluation and Decisions, Harvard University, Cambridge MA (26 September 2019)

“Institutional Roles and Goals for Retrospective Regulatory Analysis,” at the public conference on Retrospective Analysis, Resources for the Future (RFF) (with Lori S. Benneer) (Washington DC, 16 Sept. 2019)

“Climate Litigation: the Juliana case,” Climate Economics Chair (CEC), Paris (12 July 2019)

Featured speaker, “Roundtable on Emerging Technologies, Regulation and International Cooperation,” Regulatory Policy Division, OECD, Paris (11 July 2019)

“Adaptive Regulation,” European Risk Forum, Brussels (10 July 2019)

“The Future of Better Regulation in the EU and United States,” Centre for European Policy Studies (CEPS), Brussels (10 July 2019)

Featured speaker, “Roundtable on Transatlantic Regulatory Cooperation,” German Marshall Fund, Brussels (9 July 2019)

“*Earthrise*: Screening and Discussion,” film and panel on the influence of the first photographs of Earth taken from space 50 years ago, sponsored by the Museum of Life & Science, at the Carolina Theatre (Durham NC, 14 May 2019)

“Automation, Safety, and Oversight: A Discussion on the Boeing 737 Max,” Duke Center on Risk, Science & Society Initiative, Duke University (Durham NC, 30 April 2019) (panelist)

“Tech, Ethics and Governance,” conference of the Rethinking Regulation program at the Kenan Institute on Ethics, Duke University (Durham NC, 17-18 April 2019) (conference co-organizer, speaker and student competition judge)

“Beyond Paris: Accelerating International Climate Efforts,” at the Environmental Law & Policy Program conference, University of Michigan Law School (Ann Arbor, Michigan, 12 April 2019)

“Risk-Risk Tradeoffs (风险权衡), Risk Selection, and Learning in Regulatory Governance,” at:

- Ma Yinchu School of Economics, Tianjin University (Tianjin, China, 3 April 2019)
- School of Economics and Management, Beihang University (Beijing, China, 2 April 2019)
- School of Law, Peking University (PKU) (Beijing, China, 2 April 2019)
- School of Public Policy and Management, Tsinghua University (Beijing, China, 1 April 2019)
- Fudan University (Shanghai, China, 28 March 2019)

“Environmental Risk Governance,” Duke Kunshan University (DKU) (Kunshan, China, 29 March 2019)

“Adaptive Regulation: A Framework for Policy Learning over Time,” at the Pontificia Universidad Católica (Santiago, Chile, 18 March 2019)

“Institutional Dimensions of Retrospective Review,” at the Society for Environmental Law and Economics (SELE), Faculty of Law, Diego Portales University (Santiago, Chile, 16 March 2019)

“Risk Analysis and the Law,” Harvard School of Public Health (Boston MA, 14 February 2019)

“Adaptive Regulation: Instrument Choice for Policy Learning Over Time,” Regulatory Policy Seminar, Harvard Kennedy School (Cambridge MA, 14 February 2019).

“Governing decisions with a risk of irreversibility,” International Risk Governance Council (IRGC) (Lausanne, Switzerland, 15-16 January 2019)

“Periodic Review of Regulatory Standards: Comparing Experience across Agencies,” Society for Risk Analysis (SRA) annual meeting (New Orleans, 2-5 December 2018) (speaker and session chair)

“Risks and Governance of Climate Geoengineering,” Society for Risk Analysis (SRA) annual meeting (New Orleans, 2-5 December 2018) (session chair)

“AI: Risks and Rewards,” Duke Center on Risk, Science & Science Initiative, at Duke Law School (Durham NC, 27 November 2018) (moderator)

“Better Regulatory Governance: from Policy Shocks to Adaptive Regulatory Learning,” plenary address, 10<sup>th</sup> Anniversary conference of the Society for Risk Analysis – Latin America (SRA-LA) (Mexico City, 31 October 2018) (keynote plenary speaker)

“The Rhetoric and the Reality of Precaution,” in the program on Transnational Governance and Sustainability at the University of Vale do Itajaí (Univali) hosted by Judge Marlon Negri (Florianópolis, Santa Catarina, Brazil, 24 September 2018) (by video).

“Policy Shock: Recalibrating Risk and Regulation after Crises,” presentation at the European Consortium for Policy Research (ECPR) conference of the Standing Group on Regulatory Governance (RegGov) (Lausanne, Switzerland 6 July 2018)

“Rethinking Regulation after Disasters,” presentation at the France-Amériques foundation (Paris, France, 3 July 2018)

“Adaptive Regulation: From Policy Shocks to Planned Learning,” presentation at the OECD Regulatory Policy Division (Paris, France, 2 July 2018)

“Adaptive Regulation,” presentation at the annual meeting of the Society for Environmental Law and Economics (SELE) (Chicago, 15-16 June 2018)

“AI in the Administrative State: Applications, Innovations, Transparency, Adaptivity,” Duke University (Durham NC, 4 May 2018) (conference co-organizer)

“Regulatory Learning from Disasters?” Duke in DC (Washington DC, 16 March 2018)

“How Can Regulation Learn from Disasters?” Society for Benefit-Cost Analysis (SBCA) annual meeting (Washington DC, 15 March 2018) (speaker and session chair)



“Risk Analysis and the Law,” Harvard School of Public Health (Boston MA, 8 March 2018)

“Transatlantic Patterns of Risk Regulation – Implications for International Trade and Cooperation,” European Parliament, International Trade Committee (Brussels, 10 October 2017)

“Risk Regulation and Transatlantic Regulatory Cooperation,” German Marshall Fund (Brussels, 9 October 2017)

“The Tragedy of the Uncommons: On the Psychology, Politics and Policy of Existential Risk,” Cambridge University (UK, 26 July 2017), video at [https://youtu.be/Fb\\_uyhpKurI](https://youtu.be/Fb_uyhpKurI) .

« Le contentieux américain, » au colloque « Après l’Accord de Paris, quels droits face au changement climatique ? » le Colloque Annuel de la Société Française pour le Droit de l’Environnement (SFDE), Université Aix-Marseille (Aix-en-Provence, 29-30 juin 2017)

“Precaution, Risk and Provisionality,” conference on Governance of Emerging Technologies, Arizona State University (Phoenix AZ, 17 May 2017)

“Instrument Choice for Adaptive Regulation of Emerging Technologies,” conference on Governance of Emerging Technologies, Arizona State University (Phoenix AZ, 17 May 2017) (with Lori Bennear)

“The Future of International Regulatory Cooperation: Toward a Global Policy Laboratory,” Seminar on Law and Globalization, Yale Law School (New Haven, 17 April 2017)

“US Climate Policy: From the Paris Agreement to Possible Future Paths,” MIT 40<sup>th</sup> Global Change Forum, Airlie House Conference Center (Warrenton VA, 31 March 2017)

“The Tragedy of the Uncommons: Psychology, Politics and Policy,” Colloquium on Catastrophic and Existential Risk, at the UCLA Garrick Institute on Risk (Los Angeles, CA, 27 March 2017)

“Risk Analysis and the Law,” Harvard School of Public Health (Boston MA, 9 March 2017)

“Environmental Risks,” Foresight Review Panel of Lloyds Register Foundation Institute on Risk, at Princeton University (Princeton NJ, 6 March 2017)

“Markets, Morals and Climate Change” Society for Risk Analysis (SRA) annual meeting (San Diego CA, 12 December 2016)

“The Tragedy of the Uncommons: On the Politics of Apocalypse,” Southern Economic Association (SEA) annual meeting (Washington DC, 21 November 2016)

« Les Litiges Environnementaux aux Etats-Unis » [Environmental Litigation in the USA], Faculté du Droit, Université Aix-Marseille (Aix-en-Provence, France, 14 Octobre 2016)

« Quelle Coordination des Politiques Energétiques en Europe, Face au Défi Climatique ? » [How to Coordinate Energy Policy in Europe to Address the Climate Challenge ?], Conférence Annuelle de la Chaire Economie du Climat (Paris, France, 12 Octobre 2016)

“International Regulatory Cooperation, Impact Assessment and Policy Learning,” University of Tokyo (Tokyo, Japan, 5 September 2016)

“Risk Analysis and Tradeoffs in Chemicals Regulation,” Osaka University (Osaka, Japan, 2 September 2016)

“Risk-Risk Tradeoffs and Agency Incentives,” keynote address, Mercatus Center symposium on Risk and Regulation, Western Economics Association (Portland OR, 28 June 2016)

“Seeking Global Success from Subnational Climate Policies,” Université Aix-Marseille (16 June 2016)

“US-EU Regulatory Cooperation: TTIP and Beyond,” annual symposium of the Rethinking Regulation program, Duke University (Durham NC, 21-22 April 2016) (conference organizer, and speaker on Learning from Regulatory Variation)

“Risk Analysis and the Law,” Harvard School of Public Health (Boston MA, 10 March 2016)

“Planned Adaptive Regulation,” at the annual conference of the International Risk Governance Council (IRGC), University College London (London, 8-9 January 2016).

“Eco-Environmental Risk Management in China: Insights and Recommendations of the 2015 CCICED Report to the National Government,” Society for Risk Analysis (SRA) annual conference (Arlington VA, 8 December 2015).

“Environmental Law Goes Retro: Learning Foresight from Hindsight,” Distinguished Lecture in Environmental Law, Florida State University School of Law (Tallahassee FL, 19 November 2015).

“The Tragedy of the Uncommons,” faculty workshop presentation, Florida State University School of Law (Tallahassee FL, 19 November 2015).

“Designing an Adaptive System of Regulation,” at the Nicholas Institute for Environmental Policy Solutions, 10<sup>th</sup> Anniversary event, Duke University (Durham NC, 22 October 2015).

“Carbon Pricing and Innovation,” at the Conférence Annuelle de la Chaire Economie du Climat [Annual Conference of the Climate Economics Chair], Université Paris-Dauphine (Paris, 14 October 2015) (session chair).

“Opportunities for China-US Cooperation on Climate Change Policy,” at the conference on China-US Climate Change Action and Cooperation, Duke Kunshan University (DKU) (Kunshan, China, 10-11 September 2015).

“Impact Assessment: Diffusion, Regulatory Learning, and Regulatory Foresight,” at the SRA World Congress on Risk (Singapore, 19-22 July 2015)

“Carbon Pricing in the United States: Markets and prices in the new national and international regimes,” at the conference on Our Common Future under Climate Change, UNESCO (Paris, 9-10 July 2015)

“Connecting Climate: Contributions, Coalitions and Carbon Markets,” conference at Duke University (Durham NC, 14 May 2015) (conference organizer)

“The Road to Paris,” at the conference on Navigating the American Carbon World (Los Angeles CA, 29 April 2015)

“Risk Analysis and the Law,” Harvard School of Public Health (Boston MA, 12 March 2015)

“The Tragedy of the Uncommons,” at the Society for Risk Analysis – New England (SRA-NE) meeting (Boston MA, 11 March 2015)

“Impact Assessment: Diffusion and Integration,” at the European Union Studies Association (EUSA) annual meeting (Boston MA, 7 March 2015)

“The Tragedy of the Uncommons,” at the conference on Advances in Cost-Benefit Analysis, Toulouse School of Economics (Toulouse, France, 15-16 December 2014)

“Crises, Perceptions, and Regulatory Change,” Society for Risk Analysis (SRA) annual meeting (Denver, 8 December 2014)

“US Climate Policy: the Social Cost of Carbon, and EPA Regulation under Clean Air Act section 111,” at the Friday Lunch Meeting (FLM), Chaire Economie du Climat [Climate Economics Chair], Université Paris-Dauphine (Paris, 17 October 2014).

“Recalibrating Risk: Crises, Perceptions and Regulatory Change,” at the conference on Improving “Risk Regulation: from Crises to Learning and Innovation,” held by the International Risk Governance Council (IRGC) and OECD (Paris, 13-14 October 2014) (conference co-organizer and speaker).

“The Tragedy of the Uncommons,” at the conference on “Too Big to Handle: Interdisciplinary Perspectives on the Question of Why Societies Ignore Looming Disasters” (Wissenschaftskolleg, Berlin, 10 October 2014).

“Evidence-Based Policies in a World of Uncertainty and Ambiguity,” at the EuroScience Open Forum (ESOF) (Copenhagen, 24 June 2014).

“Transatlantic Perspectives on Risk, Regulation and TTIP,” European Policy Centre (EPC) (Brussels, 19 June 2014).

“TTIP and the Environment,” Swedish Institute of International Affairs (Utrikespolitiska Institutet (UI)) (Stockholm, 16 June 2014).

“TTIP and the Environment,” FORES think tank (Stockholm, 16 June 2014).

“La Régulation des Risques en Europe et aux Etats-Unis,” Duke Law in Paris network, at Courtois Lebel cabinet du droit (Paris, 11 June 2014).

“La Régulation des Risques en Europe et aux Etats-Unis,” faculty workshop, Université Paris Ouest Nanterre La Défense (Paris, 9 June 2014).

“Risk Analysis and the Law,” Harvard School of Public Health (Boston MA, 13 March 2014).

“What Have We Learned from Decades of Research on Risk Regulation?” opening remarks to the National Academy of Sciences (NAS) conference on Understanding Risk Frameworks for

Emerging Technologies: Forum on Synthetic Biology (Moore Conference Center, Palo Alto, CA, 13 March 2014) (by video).

“Improving International Regulatory Cooperation: TTIP as a Step Toward a Global Policy Laboratory,” conference on International Regulatory Cooperation, NYU Law School (New York, 28 February 2014).

“Impact Assessment: Diffusion and Integration,” conference on Comparative Law and Regulation, George Washington University School of Law (Washington DC, 31 January 2014).

“Global Catastrophic Risk, Crises, Regulation and Liability,” at the Society for Risk Analysis (SRA) annual conference (Baltimore MD, 11 December 2013).

“Governing Risk-Risk Tradeoffs,” at the annual symposium of the International Risk Governance Council (IRGC), held at the Center for Risk Analysis and Governance (CRAG) of the Ecole Polytechnique Federale de Lausanne (EPFL) (Lausanne, Switzerland, 22 November 2013).

“On the Political Economy of Climate Policy,” Energy Modeling Forum (EMF) conference on Climate Change and Integrated Assessment Models (Snowmass CO, 26 July 2013).

“Regulatory Impact Assessment and Good Public Policy,” Ecole Nationale d’Administration (ENA) (Paris, 10 June 2013).

“The Global Diffusion of Risk Regulation and Oversight,” The World Bank (Washington DC, 8 May 2013).

“Regulatory Oversight, National Systems, and International Policy Learning,” keynote address, conference on “Recalibrating Behaviour: Smarter Regulation in a Global World” (Wellington, New Zealand, 23 April 2013) (by video).

“Risk Analysis and the Law,” Harvard School of Public Health (Boston MA, 14 March 2013).

“The Reality of Precaution: Comparing Risk Regulation in the US and Europe,” Regulatory Policy Program, Kennedy School of Government, Harvard University (Cambridge MA, 13 March 2013).

“The Diffusion of Regulatory Oversight,” at the Comparative Risk Regulation Workshop, University of California at Berkeley (Berkeley CA, 14 December 2012).

“The Reality of Precaution: Comparing Risk Regulation in the US and Europe,” at the Comparative Risk Regulation Workshop, University of California at Berkeley (Berkeley CA, 13 December 2012).

“The Real Pattern of Precaution, and the Diffusion of Regulatory Oversight,” in the session on “The Transatlantic Debate on Risk Regulation,” at the annual meeting of the Society for Risk Analysis (SRA) (San Francisco, 10 December 2012).

“Regulating the Regulators: A Conversation with Sally Katzen and John Graham,” Duke Law School and Rethinking Regulation Initiative (Durham NC, 24 October 2012) (moderator).

“The Reality of Precaution, Comparing Risk Regulation and the Diffusion of Regulatory Oversight,” Australian Department of Finance / Office of Best Practice Regulation (Canberra, Australia, 23 July 2012).

“The Reality of Precaution, Comparing Risk Regulation and the Diffusion of Regulatory Oversight,” Australian Productivity Commission (Canberra, Australia, 23 July 2012).

“World Congress on Risk,” Society for Risk Analysis (SRA) (Sydney, Australia, 18-20 July 2012) (conference Co-Chair).

“The Diffusion of Regulatory Oversight,” Society for Environmental Law & Economics (SELE) annual meeting, Indiana University (Bloomington IN, 1 June 2012)

“Comparing US and European Risk Regulation,” at the conference on “Mapping the Global Regulatory Space for Risk Governance,” at the European University Institute (EUI) (Florence, Italy, 28-29 May 2012) (Keynote Speech, by video).

“Regulatory Impact Assessment in the United States and Europe,” Centro de Regulación y Competencia (REGCOM), Aula Magna, Escuela de Derecho, Universidad de Chile (Santiago, Chile, 13 December 2011) (by video).

“Risk-Risk Tradeoffs in Climate Engineering,” Society for Risk Analysis (SRA) Annual Meeting (Charleston SC, 6 December 2011).

“Precaution and Smarter Regulation,” European Risk Forum (Brussels, 20 October 2011).

“Permit Markets in the US / Les Marchés de Quotas aux Etats-Unis,” Université Paris-Dauphine (Paris, 19 October 2011).

“The Reality of Precaution,” Ecologic Institute (Berlin, 17 October 2011).

“Risk and Precaution in a Complex World,” University of Tokyo (Tokyo, 10 July 2011).

“Climate Policy Instrument Choice in an International Context,” European University Institute (EUI) Climate Governance Seminar (Florence, Italy, 13 June 2011).

“Risk-Risk Tradeoffs: Looking Back and Looking Ahead,” keynote speaker, EU-VRi iNTeg-Risk and SRA-Europe annual conference (Stuttgart, Germany, 7 June 2011).

“The Reality of Precaution,” Resources for the Future (RFF) (Washington DC, 25 March 2011) (opening speaker and symposium organizer) (event to launch new book of the same title).

“Risk Assessment, Risk Management, and the Law,” Harvard School of Public Health (Boston MA, 24 March 2011).

“The EPA at 40,” Duke University (Durham NC, 24 January 2011) (symposium co-organizer).

“The Tragedy of the Uncommons,” at the Society for Risk Analysis (SRA) Annual Meeting (Salt Lake City, Utah, 9 December 2010).

“Risk and the Financial Crisis,” at the Society for Risk Analysis (SRA) Annual Meeting (Salt Lake City, Utah, 8 December 2010) (chair of plenary session).

“US Domestic Climate Policy and International Relations,” at the conference on “Pricing Carbon,” Université Paris-Dauphine (Paris, 9 November 2010)

“Addressing Risk in Regulatory Decision-Making” at the conference on “Regulatory Policy at the Crossroads: Toward a New Policy Agenda,” OECD (Paris, 28-29 October 2010)

“Global Cost-Benefit Analysis,” conference held by the NYU Institute for Policy Integrity (Abu Dhabi, United Arab Emirates, 26-27 October 2010) (session chair)

“The (Mis)Use of Risk Analysis, the Financial Crisis, and Reform,” at the conference held by Labaton Sucharow LLP on the “The New Regulatory Paradigm: What Has Been Accomplished and What Remains to be Done?” (New York, NY, 1 October 2010)

“Priorities for Precaution,” opening plenary keynote speaker, annual meeting of the Society for Risk Analysis (SRA)-Europe (King’s College London, 21 June 2010).

“The Reality of Precaution,” keynote address at the conference on Critical Perspectives on Security, Maastricht University (Maastricht, Netherlands, 27 May 2010) (by video).

“The Real Pattern of Precaution,” Harvard Law School Faculty Workshop (Cambridge MA, 8 April 2010).

“Options for Trading Under Clean Air Act sections 108-110 and section 111,” at the Duke/Nicholas Institute Workshop on Cost-Effective Instruments for Climate Policy under the Clean Air Act (Durham NC, 17 March 2010).

Implementing Climate Change Legislation: Cap and Trade, at the Environmental Law Institute conference, Cannon House Office Building (Washington DC, 5 Feb. 2010).

“The Real Pattern of Precaution,” Yale Law School, Law & Globalization Workshop (New Haven CT, 15 December 2009).

“Risk Management in a Multirisk World,” at the Chinese Academy of Sciences, Institute of Policy and Management Sciences (Beijing, 21 October 2009).

Keynote Address, “Precaution and Oversight in a World of Multiple Risks,” and opening welcome from the Society for Risk Analysis (SRA), at the conference on Risk Analysis & Crisis Response (RACR 2009), Peking University & SRA-China (Beijing, China, 19-21 October 2009).

“Risk Regulation: Law and Governance in a Multirisk World,” at Peking University Law School (Beijing, 16 October 2009) (hosted by the Center on Public Participation Studies and Supports (CPPSS) of PKU Law School).

“Opening Welcome”; presentation on “OIRA Internationally: Toward Global Cooperation”; and chair of “Concluding Roundtable: The Future of Regulatory Oversight”; all at the conference on “New Ideas for Risk Regulation” co-sponsored by the Society for Risk Analysis (SRA) and Resources for the Future (RFF) (Washington DC, 22-23 June 2009) (speaker and conference co-chair)

“Toxicity Testing in the 21<sup>st</sup> Century: Reception by Regulatory and Legal Institutions,” panelist at National Academy of Sciences / National Research Council conference on “Toxicity Pathway-Based Risk Assessment: Preparing for Paradigm Change” (Washington DC, 11-13 May 2009)

“Risk Analysis and the Law,” Harvard School of Public Health (Boston MA, 17 April 2009)

“Risk in an Interconnected World,” International Regulatory Reform Conference (Berlin, 17-18 November 2008) (speaker and session chair)

Keynote Address, “Climate Policy for a Multipolar World,” conference on “International Climate Change: Post-Kyoto Challenges,” Washington University (St. Louis, 30 October 2008)

“The Reality of Precaution,” at the conference on “L’Homme et la Société face aux défis des changements climatiques,” organized by the French Presidency of the European Union (Paris, 22-23 September 2008)

“The Tragedy of the Uncommons,” at the Conference on Global Catastrophic Risks, Oxford University (Oxford UK, 16-20 July 2008)

“Permis Negotiables et Biens Publics Mondiaux,” [Tradable Permits and Global Public Goods,] à la conférence du Réseau ID, Collège de France (Paris, 1-2 juillet 2008)

“Benefit-Cost Analysis: Lessons from the United States and Europe,” conference on Advancing Social Policy through Benefit-Cost Analysis (Washington DC, 24 June 2008)

Second World Congress on Risk (sponsored by Society for Risk Analysis (SRA), of which I served as President): Opening welcome, Speaker in session on Global Climate Risks, Chair of plenary session on “Risk and Sustainable Development,” and Chair of “Risk Leaders Summit” (Guadalajara, Mexico, 8-11 June 2008)

“Managing the Regulatory State: Oversight Bodies in the US and EU,” European Risk Forum (Brussels, 21 May 2008)

“Radiative Forcing: Climate Policy to Break the Logjam in Environmental Law,” Conference on “Breaking the Logjam,” NYU Law School (New York, 28-29 March 2008)

“Global Cooperation on Global Climate,” Univ. of Toronto Faculty of Law (Toronto, 6 March 2008)

“Global Cooperation on Global Climate,” William & Mary Law School Symposium (Williamsburg VA, 2 February 2008)

“Climate Change Policy, and Policy Change in China,” UCLA Law Review Symposium on “Changing Climates: Adapting Law to a Transforming World,” UCLA Law School (Los Angeles, 25 January 2008)

“Risk ‘07: Agents of Analysis,” Society for Risk Analysis annual meeting (San Antonio, 9-12 December 2007) (conference chair and SRA president-elect)

“Worst-Case Scenarios, Precaution, and Risk,” conference on Cass Sunstein’s new book on

Worst-Case Scenarios, Harvard Law School (Cambridge MA, 4 October 2007)

“Making Better Regulation Even Better,” conference on Administrative Simplification, Ministère de l'économie, des finances et de l'industrie, Gouvernement de la France (French Ministry of Finance) (Paris, 9 June 2006)

“Can we Reconstruct Climate Policy?” International Energy Agency (IEA) (Paris, 29 May 2006)

“Better Regulation,” University College London, Faculty of Law (London, 25 May 2006)

“Risk and Regulatory Governance,” Organization for Economic Cooperation and Development (OECD), Working Party on Regulatory Management (Paris, France, 24 April 2006)

“L'ACB dans le Droit,” conference sur l'Analyse Coût-Bénéfice, Univ. De Toulouse (Toulouse, France, 4 avril 2006) (conference on benefit-cost analysis)

“La Précaution dans la Régulation des Risques en Europe et aux Etats-Unis,” Sciences Po (Institut des Etudes Politiques) (Paris, France, 23 March 2006)

“La Précaution dans la Régulation des Risques en Europe et aux Etats-Unis,” Ecole Polytechnique (Lozères, France, 15 March 2006)

“Precaution Against Terrorism,” Workshop in the Law & Economics Workshop & Lecture Series hosted by Bruno Frey and Gerard Hertig, University of Zurich & ETH Zurich (Zurich, Switzerland, November 23, 2005)

“Comparing Risk Regulation in the US and Europe,” Lecture in the Law & Economics Workshop & Lecture Series hosted by Bruno Frey and Gerard Hertig, University of Zurich & ETH Zurich (Zurich, Switzerland, November 21, 2005)

“Precaution Against Terrorism,” conference on Managing Strategic Surprise convened by the National Intelligence Council (NIC) and Eurasia Group, Yale Club (New York, NY, September 30, 2005)

“Precaution in the United States and Europe,” at the conference on “Better Regulation: The EU and the Transatlantic Dialogue,” co-sponsored by the European Policy Centre, the European Commission, and the US Mission to the EU (Brussels, 17-18 March 2005).

“Precaution in a Multirisk World,” Resources for the Future (RFF) (Washington DC, April 21, 2004)

“Precaution, Risk and Multiplicity,” Conference on Environmental Law, Harvard Law School (Cambridge MA, November 7, 2003)

“Risk Analysis and the Precautionary Principle,” World Congress on Risk (Brussels, June 24, 2003)

“The US, the EU, and Precaution,” Third Transatlantic Dialogue on Precaution, organized by the Duke Center for Environmental Solutions, the European Policy Centre, the European Commission, the US Mission to the EU, and the German Marshall Fund (Berlin, Germany, June 20-21, 2003) (speaker and conference co-organizer)



“Comparing Precaution in the US and Europe,” Second Transatlantic Dialogue on Precaution – The Reality of Precaution: Comparing Approaches to Risk and Regulation, organized by the Duke Center for Environmental Solutions, the European Commission, and the German Marshall Fund (Airlie House, Warrenton VA, June 14-15, 2002) (speaker and conference co-organizer)

“Comparing Precaution in the US and Europe: Evaluating the Conventional Wisdom,” First Dialogue on Precaution – “The US, the EU, and Precaution,” organized by the European Commission, the US Mission to the EU, and the German Marshall Fund, with the European Policy Centre and the Duke Center for Environmental Solutions (Bruges/Brugge, Belgium, January 11-12, 2002) (speaker and conference co-organizer)

“Prudent Precaution in an Interconnected World,” Society for Risk Analysis annual meeting (Seattle WA, December 4, 2001)

“The Reality of Precaution: Comparing National Approaches to Risk and Regulation,” presentation to the Group of Policy Advisers, Office of the President, European Commission (Brussels, June 7, 2001)

“Something Borrowed for Something Blue: Legal Transplants in Global Environmental Law,” Georgetown Law School (Washington DC, November 17, 2000)

“Right to Know – How Far Does It Go?” at the Harvard Conference on the Internet & Society (Cambridge MA, June 1, 2000)

“Uncertainty and Precaution in a Multi-Risk World,” American Association for the Advancement of Science (AAAS) annual meeting (Washington DC, February 19, 2000)

“Making Markets for Global Forests Conservation,” conference on Painting the White House Green, University of Wyoming (Laramie WY, September 9, 1999)

“Sustainable Governance,” The John D. MacArthur Lecture in Environmental Policy and Law, Bucknell University (Lewisburg PA, April 19, 1999) (invited lecture sponsored by the MacArthur Foundation)

“Global Environmental Regulation: Instrument Choice in Legal Context,” Environmental Law Seminar, Harvard Law School (Cambridge MA, March 1, 1999)

“Prices vs. Quantities: The Impact of the Legal System,” National Bureau of Economic Research (NBER) / Yale Center on Global Change, Workshop on Design of Climate Change Policy Instruments and Institutions (Snowmass CO, August 13-14, 1998)

“Choosing Regulatory Instruments for Global Environmental Protection,” Stanford Law School & Institute for International Studies (Stanford CA, May 7, 1998)

“Designing a Legal Regime for International Greenhouse Gas Emissions Control,” National Bureau of Economic Research (NBER) / Yale Center on Global Change, Workshop on International Emissions Trading Systems (Snowmass CO, August 13-14, 1997)

“Law and the New Ecology,” Doctoral Seminar on Environmental Policy, School of Public Health, University of North Carolina (Chapel Hill NC, January 22, 1997)

"Risk in the Republic: Comparative Risk Analysis and Public Policy," the Second Annual Cummings Colloquium on Environmental Law, Duke University (Durham NC, November 15-16, 1996) (conference organizer)

"Promoting Market-Based Performance Incentives in Regulatory Reform," testimony before Committee on Governmental Affairs, U.S. Senate, March 8, 1995.

"Structuring Incentives for Risk-Superior Environmental Performance," President's Council on Sustainable Development, Eco-Efficiency Task Force, Economics Cluster (Washington DC, February 16, 1995)

"Risk Tradeoffs in Protecting the Global Environment," Environmental Law and Policy Research Seminar, Harvard Law School (Cambridge MA, October 20, 1994).

"Financial Resources for International Environmental Protection," New York University School of Law symposium on Greening International Law (New York, October 7, 1994).

"New Ways to Fund Citizen Action: National Service," address at national staff meeting of the Public Interest Research Groups (PIRGs) (Denver, December 9, 1993)

"Workshop on National Service and Environment," ACTION office (Denver, December 9, 1993)

"Workshop on National Service and Environment," 26 Federal Plaza (New York, November 30, 1993)

"Workshop on National Service and Environment," ACTION office (Seattle, November 19, 1993)

"The National Perspective," Presidio Workshop on Youth Service (San Francisco, November 18, 1993)

"Workshop on National Service and Environment," ACTION office (San Francisco, November 17, 1993)

"Workshop on National Service and Environment," Volunteer & Information Agency (New Orleans, November 5, 1993)

"Volunteering and Environmental Careers," National Environmental Careers Conference (Tampa, October 23, 1993)

"Workshop on National Service and Environment," National Environmental Careers Conference (Tampa, October 22, 1993)

"Beyond the Classroom: National Service and the Environment," Environmental Grantmakers Association, annual meeting (Tucson AZ, October 16, 1993)

"Mission, Vision and Strategy: Opportunities for Seniors in National Service and Environment," keynote address to Environmental Alliance for Senior Involvement, first annual Leadership Conference (Bethesda MD, September 10, 1993)

"National Service and Environment," briefing for the Council on Foundations (Washington,

September 9, 1993)

"The Road from Rio: Environmental Economics in International Policy," National Bureau of Economic Research (NBER) Summer Institute, Environmental Economics Workshop (Cambridge, August 12, 1992)

"Matching Policy to Science: the Comprehensive Approach to Climate Change," Marine Policy Center, Woods Hole Oceanographic Institute (Woods Hole MA, July 12, 1991)

"Policy Responses to Global Change," Western Economics Assn. (WEA) Int'l, 66th Annual Conference (Seattle, July 2, 1991)

"The Comprehensive Approach, Greenhouse Taxes, and Informal Emissions Trading," Organization for Economic Cooperation & Development (OECD) Experts' Workshop (Paris, June 26-27, 1991)

"Implementing Incentives for Environmental Protection," Air & Waste Management Assn. Annual Meeting (Vancouver, June 20, 1991)

"Risk Tradeoffs in Global Environmental Policy," Harvard Center for Risk Analysis, Annual Advisory Board Meeting (Boston, June 19, 1991)

"International Environmental Law and Sustainable Development," National Assn. of Environmental Law Societies (NAELS) Annual Conference, Tulane Law School (New Orleans, February 2, 1990)