

HANNAH J. WISEMAN

Professor of Law; Professor and Wilson Faculty Fellow in the College of Earth and Mineral Sciences;
Co-funded Faculty, Institutes of Energy and the Environment

Penn State University – University Park, Lewis Katz Building, University Park, PA 16802
hqw5351@psu.edu

EDUCATION, HONORS, AND ACTIVITIES

Yale Law School, J.D., 2007

- Israel H. Peres Prize, best student note or comment appearing in the *Yale Law Journal*, 2007

Dartmouth College, A.B. with High Honors, 2002, double major in Comparative Government and Environmental Studies

- *Summa cum laude*, Phi Beta Kappa honor society, Grace and James Parkes 1920 Prize, Ranny B. Cardozo Award

AREAS OF ACADEMIC FOCUS

Energy Law and Policy, Oil and Gas Law, Renewable Energy Law, Land Use Regulation, Environmental Law, Property Law

SELECTED TEACHING AND RESEARCH EXPERIENCE

Penn State University, University Park, PA

Professor of Law; Professor and Wilson Faculty Fellow in the College of Earth and Mineral Sciences; Co-funded Faculty, Institutes of Energy and the Environment, July 2020-present

Florida State University College of Law, Tallahassee, FL

Attorneys' Title Professor

Full Professor, Aug. 2019-May 2020; Associate Professor, Nov. 2014-July 2019; Assistant Professor, Jan. 2012-Oct. 2014

University of Pennsylvania, Kleinman Center for Energy Policy, Philadelphia, PA

Visiting Scholar (virtual due to COVID-19), March 13-17, 2020

University of Tulsa College of Law, Tulsa, OK

Assistant Professor, Aug. 2010-Dec. 2011

University of Pittsburgh School of Law, Pittsburgh, PA

Short-course professor (The Law of Shale Gas), Aug. 2011

Lewis & Clark Law School, Portland, OR

Short-course professor (Solar and Wind Energy Development), June 2011

University of Texas School of Law, Austin, TX

Visiting Assistant Professor, Aug. 2008–June 2010

SELECTED LAW JOURNAL ARTICLES, ESSAYS, AND NOTES

Grid Reliability Through Clean Energy, 74 STANFORD L. REV. __ (forthcoming 2022) (with Alexandra

Klass, Joshua Macey, and Shelley Welton)

Regional Cooperative Federalism and the U.S. Electric Grid, 90 *GEORGE WASHINGTON L. REV.* ___ (forthcoming 2021-2022)

Taxing Local Energy Externalities, 96 *NOTRE DAME L. REV.* 563 (2020)

Federalism for the Worst Case, 105 *IOWA L. REV.* 101 (2020) (with David Landau and Samuel R. Wiseman)

Rethinking Municipal Corporate Rights, 61 *BOSTON COLLEGE L. REV.* 591 (2020)

Constrained Regulatory Exit in Energy Law, 67 *DUKE L.J.* 1687 (2018, symposium contribution) (with Jim Rossi)

Delegation and Dysfunction, 35 *YALE J. ON REG.* 233 (2018)

Disaggregating Preemption in Energy Law, 40 *HARV. ENVTL. L. REV.* 293 (2016)

Regional Energy Governance and U.S. Carbon Emissions, 43 *ECOLOGY L. Q.* 143 (2016) (with Hari M. Osofsky)

The Fracking Revolution: Shale Gas As A Case Study in Innovation Policy, 64 *EMORY L.J.* 955 (2015) (with John M. Golden)

Coordinating the Oil and Gas Commons, 2014 *B.Y.U. L. REV.* 1543 (invited symposium contribution)

Regulatory Islands, 89 *N.Y.U. L. REV.* 1661 (2014)

A Market Approach to Regulating the Energy Revolution: Assurance Bonds, Insurance, and the Certain and Uncertain Risks of Hydraulic Fracturing, 99 *IOWA L. REV.* 1523 (2014) (with David A. Dana)

Remediating Regulatory Diseconomies of Scale, 94 *BOSTON UNIVERSITY L. REV.* 235 (2014)

Hybrid Energy Governance, 2014 *U. ILLINOIS L. REV.* 1 (with Hari M. Osofsky)

Urban Energy, 40 *FORDHAM URB. L. J.* 1793 (2013, invited symposium contribution)

Dynamic Energy Federalism, 72 *MARYLAND L. REV.* 773 (2013) (with Hari M. Osofsky)

Community-Scale Renewable Energy, 4 *SAN DIEGO J. CLIMATE & ENERGY LAW* 165 (2012-13, invited symposium contribution) (with Sara C. Bronin)

Fracturing Regulation Applied, 22 *DUKE ENVTL. LAW & POLICY FORUM* 361 (2012, invited symposium contribution)

Expanding Regional Renewable Governance, 35 *HARV. ENVTL. L. REV.* 477 (2011)

Formulating a Law of Sustainable Energy: The Renewables Component, 28 *PACE ENVTL. L. REV.* 827 (2011) (invited symposium contribution, with E. Nichole Saunders & Lindsay Grisamer)

Local Energy, 60 EMORY L.J. 877 (2011) (with Garrick Pursley)

Regulatory Adaptation in Fractured Appalachia, 21 VILL. ENVTL. L.J. 229 (2010, invited symposium contribution)

Public Communities, Private Rules, 98 GEORGETOWN L.J. 697 (2010)

Untested Waters: The Rise of Hydraulic Fracturing in Oil and Gas Production and the Need to Revisit Regulation, 20 FORDHAM ENVTL. L. REV. 115 (2009)

Note, *Searching for Balance in the Aftermath of the 2006 Takings Initiatives*, 116 YALE L.J. 1518 (2007) (reprinted in THOMSON WEST, ZONING AND PLANNING LAW HANDBOOK (2008))

SELECTED ONLINE SCHOLARLY PUBLICATIONS

Localizing the Green Energy Revolution, 70 EMORY L.J. ONLINE 59 (2021)

The New Oil and Gas Governance, 129 YALE L.J. FORUM 51 (2020) (with Tara Righetti and James Coleman)

Hydraulic Fracturing and Legal Frameworks, OXFORD HANDBOOKS ONLINE (Apr. 2017), <http://www.oxfordhandbooks.com/view/10.1093/oxfordhb/9780199935352.001.0001/oxfordhb-9780199935352-e-32>

Clean Energy Incentives: Risk, Capture, and Federalism, 67 FLA. L. REV. FORUM 161 (2016) (invited online article response)

Moving Past Dual Federalism to Achieve Electric Grid Neutrality, 100 IOWA L. REV. BULL. 97 (2015) (invited online article response)

Hydraulic Fracturing and Information Forcing, 74 OHIO ST. L. J. FURTHERMORE 86 (2013)

Trade Secrets, Disclosure, and Dissent in a Fracturing Energy Revolution, 111 COLUM. L. REV. SIDEBAR 1 (2011)

BOOKS AND TEXTBOOKS

ENERGY, ECONOMICS, AND THE ENVIRONMENT: CASES AND MATERIALS, Fifth Edition (Foundation Press 2020) (with Joel B. Eisen, Emily Hammond, Jim Rossi, and David B. Spence)

HYDRAULIC FRACTURING: A GUIDE TO ENVIRONMENTAL AND REAL PROPERTY LEGAL ISSUES (American Bar Association 2016) (with Keith Hall)

ENERGY LAW CONCEPTS & INSIGHTS (Foundation Press 2016) (with Alexandra B. Klass)

BOOK CHAPTERS

The Shale Gas Revolution—The U.S. Perspective, in RESEARCH HANDBOOK OF OIL AND GAS LAW (Tina Hunter, ed.) (Edward Elgar, forthcoming)

Shale Gas Development, Economic Impacts, and Regulation, in THE ROUTLEDGE HANDBOOK OF ENERGY

LAW (Tina Hunter et al., eds.) (2020)

Stationary Sources, Movable Rules: Intransigence and Innovation under the Clean Air Act, in LESSONS FROM THE CLEAN AIR ACT: BUILDING DURABILITY AND FLEXIBILITY INTO LONG-TERM ENERGY POLICY (Dallas Burtraw & Ann Carlson, eds.) (Cambridge University Press 2019)

Evolving Energy Federalism: Current Authority Allocations and the Need for Inclusive Governance, in THE LAW AND POLICY OF ENVIRONMENTAL FEDERALISM: A COMPARATIVE ANALYSIS (Kalyani Robbins, ed.) (Edward Elgar Publishing 2015)

The Environmental Risks of Shale Gas Development and Emerging Regulatory Responses: A U.S. Perspective, in HANDBOOK OF SHALE GAS LAW AND POLICY (Tina Hunter, ed.) (Intersentia 2016)

SELECTED OTHER PUBLICATIONS

Pipelines, Communities, and the Environment: The Growing Complexities of Siting, TRENDS (May/June 2020)

Unconventional Oil and Gas Spills: Risks, Mitigation Priorities, and State Reporting Requirements, 51 ENVTL. SCI. & TECH. 2563 (2017) (with Lauren A. Patterson et al.)

BLM Regulation of Hydraulic Fracturing on Federal Lands, TRENDS (September/October 2015)

The Capacity of States to Govern Shale Gas Development Risks, 48 ENVTL. SCI. & TECH. 8376, issue 15 (2014)

SELECTED REPORTS AND WHITE PAPERS

BALANCING RENEWABLE ENERGY GOALS WITH COMMUNITY INTERESTS, Kleinman Center for Energy Policy, Policy Digest (May 2020), <https://kleinmanenergy.upenn.edu/sites/default/files/policydigest/KCEP-Balancing-Renewable-Energy-Singles.pdf>

TRANSITIONING TO A LOWER-CARBON ENERGY FUTURE: CHALLENGES AND OPPORTUNITIES FOR MUNICIPAL UTILITIES AND ELECTRIC COOPERATIVES (2018) (with Heather Payne, Jonas Monast, and Nicolas Eason)

U.S. Regulation of Unconventional Oil and Gas Development: Progress and Challenges, in A NEW GOLDEN ERA? UNCONVENTIONAL OIL AND GAS REGULATION IN THE U.S.: IMPLICATIONS FOR KOREA (J. James Kim, ed., The Asan Institute for Policy Studies, 2013)

AWARDS AND RECOGNITION

Land Use and Environment Law Review, *Regulatory Islands* and *The Fracking Revolution: Shale Gas As A Case Study in Innovation Policy* (with John M. Golden) each selected as one of the strongest pieces of environmental law scholarship published in the period covered by the 2016 volume and selected for republication in the review

IUCN Academy of Environmental Law, 2015 Scholarship Award in the Emerging Scholar Category

Land Use and Environment Law Review, *Remedying Regulatory Diseconomies of Scale* selected as

one of the strongest pieces of environmental law scholarship published in the period covered by the 2015 volume and selected for republication in the review

Environmental Law and Policy Annual Review, Vanderbilt Law School and Environmental Law Institute, *A Market Approach to Regulating the Energy Revolution: Assurance Bonds, Insurance, and the Certain and Uncertain Risks of Hydraulic Fracturing* (with David A. Dana) recognized as a top piece and selected for republication in the review

American Inns of Court, Washington, D.C., Warren E. Burger Prize for writing, 2008

The Burton Foundation, Washington, D.C., The Burton Awards for Legal Achievement, law student winner, 2008

TEACHING EXPERIENCE

Energy Law & Policy, Land Use Regulation, Oil & Gas Law, Emerging Issues in Energy Law: Renewables and Fossil Fuels, Environmental Law, Property Law, The Law of Electricity, The Law of Shale Gas

SELECTED PRESENTATIONS DELIVERED

Kleinman Center for Energy Policy, University of Pennsylvania, Philadelphia, PA, *Webinar: Combating Climate Change Through Regulatory Relief*, April 2020

University of Colorado Law School, Boulder, CO, Twelfth Annual Schultz Lecture in Energy, *Energy as a Locally Desirable Land Use*, October 2019

Duke University School of Law, Durham, NC, *Duke Law Journal* Administrative Law Symposium, symposium presenter, February 2018

Indiana Maurer School of Law, Bloomington, IN, Joint Maurer-Ostrom Workshop on Political Theory Colloquium Series, *Federal Laboratories of Democracy*, invited colloquium presenter, February 2018

University of Virginia School of Law, Charlottesville, VA, Virginia Environmental Law Journal symposium, invited keynote panel presenter, October 2017

University of Georgia School of Law, Athens, GA, faculty workshop, *Delegation and Dysfunction*, invited presenter, April 2017

University of California, Berkeley, School of Law, Berkeley, CA, Public Policy Workshop, *Dysfunctional Delegation*, invited presenter, March 2017

Georgetown Law School, Washington, D.C., Environmental Research Workshop, invited presenter, *Rethinking Agency Delegation*, January 2017

Society for Environmental Law and Economics, University of Texas School of Law, Austin, Texas, *Regional Energy Governance and U.S. Carbon Emissions*, accepted paper presenter, May 2016

Wake Forest University, Winston Salem, NC, Symposium: Future of Government Regulation in a Time of Gridlock, *Negotiated Governance and New Risks: A Productive Path Forward?*, March 2016

Northwestern Pritzker School of Law, Chicago, IL, Environmental Law Colloquium, *Disaggregating Preemption*, invited colloquium presenter, February 2016

Nicholas Institute for Environmental Policy Solutions, Duke University, Orlando, FL, Navigating the EPA's Clean Power Plan: Charting a Course for Southeast Energy, *Balkanizing the Grid? Implications if States Make Different Choices*, invited panelist, January 2016

Tel Aviv University Buchmann Faculty of Law, Tel Aviv, Israel, Law, Environment, and Energy Workshop, *Disaggregating Preemption in Energy Law*, invited workshop presenter, December 2015

Brooklyn Law School, New York, NY, *Disaggregating Preemption in Energy Law*, invited faculty workshop presenter, November 2015

Energy and Mineral Resources Subcommittee of the House Natural Resources Committee, U.S. House of Representatives, Washington, D.C., invited provider of written and oral testimony, July 2015, resources.edgeboss.net/wmedia/resources/113/2015_07_15_emr.wvx

University of Minnesota Law School, Minneapolis, MN, Faculty Works in Progress, *Informal Federalism*, invited workshop presenter, April 2015

University of California, Berkeley, Boalt Hall School of Law, Berkeley, CA, Environmental Law Colloquium, *Informal Federalism*, invited colloquium presenter, February 2015

UCLA School of Law, Los Angeles, CA, Climate and Energy Law Workshop, *Informal Federalism*, invited workshop presenter, February 2015

Penn Program on Regulation, University of Pennsylvania Law School, Philadelphia, PA, The Risks and Regulatory Challenges of Unconventional Oil and Gas Development, *Good Governance in Unconventional Oil and Gas Extraction: Harnessing the Bird's-Eye View of Agencies*, invited panelist, February 2015

National Governors Association, Salt Lake City, UT, Second Annual Governors' Policy Forum on Responsible Shale Development, *Market-Based Mechanisms in Shale Gas Governance*, invited panelist, December 2014

Northwestern University Law School, Chicago, IL, Third Annual Searle Center Conference on Federalism and Energy, *The Heydinger Gap and Informal Federalism Solutions*, invited panelist, November 2014

Association for Law, Property, and Society, Vancouver, Canada, Energy and Property, *Allocating Energy Governance*, panelist; Evolving Geographies of Energy Transition, moderator, May 2014

American Planning Association, Atlanta, GA, Advanced Environmental Planning Workshop, Environmental Planning Practices, *Natural Resource Extraction Planning and Law*, invited presenter, April 2014

Ohio State University Moritz College of Law, Columbus, OH, Ohio Energy: Emerging Issues in Law, Finance and Regulation, *Local Energy Governance: Strategies to Address Disproportionate Impacts*, invited panelist, April 2014

University of Texas School of Law, Austin, TX, Faculty Colloquium, *The Fracking Revolution: A Case Study in Policy Levers to Promote Innovation*, co-presenter with John M. Golden, April 2014

Yale Law School Information Society Project, New Haven, CT, Innovation Law Beyond IP, *The Fracking Revolution: A Case Study in Policy Levers to Promote Innovation*, co-presenter with John M. Golden, March 2014

Yale Center for Environmental Law and Policy & Land Use Law Center, Pace Law School, Yale Law School, New Haven, CT, Controlling the Local Impacts of Hydrofracking, *Addressing Shale Gas Governance Gaps*, featured speaker, March 2014

Northwestern University Law School, Chicago, IL, Second Annual Searle Center Conference on Federalism and Energy, *The Federal Role in State Policy Diffusion*, invited panelist, November 2013

Louisiana State University, Paul M. Hebert Law Center, Baton Rouge, LA, Liskow & Lewis Visiting Professorship in Energy Law Inaugural Lecture, *Enhancing Sub-Federal Renewable and Fossil Energy Governance*, invited inaugural lecturer, October 2013

National Research Council – The National Academies, Morgantown, WV, Workshop on the Development of Unconventional Hydrocarbon Resources in the Appalachian Basin, *State Shale Gas Regulation in the Appalachian Basin: Recent Enhancements, Remaining Gaps, and Opportunities for Change*, invited presenter, September 2013

National Research Council – The National Academies, Washington, D.C., Committee on Risk Management and Governance Issues in Shale Gas Development, Shale Gas Workshop #2, *Evaluating and Enhancing the Capacity of the States to Govern Unconventional Oil and Gas Development and Risks*, invited paper author and presenter, August 2013

Rocky Mountain Mineral Law Foundation, Flagstaff, AZ, Sixteenth Institute for Natural Resources Law Teachers, *Teaching Unconventional Gas and Oil Issues*, invited panel organizer and moderator, May 2013

University of Minnesota, Minneapolis, MN, Consortium on Law and Values in Health, Environment & the Life Sciences, Legal & Policy Pathways for Energy Innovation, *Diseconomies of Scale in Energy Law*, invited plenary panelist, April 2013

Columbia Law School and Columbia Business School, New York, NY, How Should Hydraulic Fracturing Be Regulated?, *Federal Approaches to Shale Gas Development: Statutes, Standards, and Studies*, invited panelist, April 2013

Vanderbilt Law School, Nashville, TN, *Remedying Regulatory Diseconomies of Scale*, invited faculty workshop presenter, March 2013

Vanderbilt Law School, Nashville, TN, Energy, Environment, and Land Use Program, *The Evolving Landscape of U.S. Unconventional Energy: Fracturing, Federalism Debates, and the Regulatory Divide*, invited lecturer, March 2013

Harvard Law School, Cambridge, MA, Environmental Law Society Panel, *Fracking and the Law: The Legal and Environmental Implications of the Hydraulic Fracturing Boom*, invited panelist, March 2013

Yale Climate & Energy Institute and the Society of Petroleum Engineers, New Haven, CT, Research Frontiers in the Science of Unconventional Energy Resources, *Regulations and Best Practices in the Development of Unconventional Resources*, invited panelist, March 2013

Asan Institute for Policy Studies, Seoul, Korea, Non-Market Factors in Shale Gas Development, *An Introduction to U.S. Regulation of Oil and Gas Drilling and Hydraulic Fracturing*, invited workshop speaker, January 2013

Yale Center for Environmental Law and Policy, monthly Webinar Series in Emerging Issues in Shale Gas Development, *Understanding and Improving Regulation of Shale Gas Development*, invited webinar presenter, December 2012

American Bar Association Section of Environment, Energy, and Resources 20th Section Fall Meeting, Austin, TX, Environmental Impacts of Oil and Gas Production in Shale Formations: Policy, Perception, and Reality, *The New and Broader Risks of Shale Gas and Oil Development: Identifying Environmental Impacts Through Regulatory Violations and States' Policy Priorities*, invited panelist, Oct. 2012

Fordham University School of Law, New York, NY, Property Works in Progress, *Dynamic Energy Federalism*, revised draft (with Professor Hari Osofsky), workshop presenter, June 2012

University of Minnesota, Minneapolis, MN, New Directions in Environmental Law, Policy, and Geography, *Dynamic Energy Federalism* (with Professor Hari Osofsky), invited workshop presenter and commentator, May 2012

Presentation to congressional staff in Washington, D.C. with Dr. Rob Jackson, Nicholas Chair of Global Environmental Change at the Nicholas School of the Environment, *State Regulation of Shale Gas Development: Variation, Innovation, and Challenges*, March 2012

Northwestern University Law School, Chicago, IL, Searle Center Conference on Federalism and Energy in the United States, *State and Local Regulation of Shale Oil and Gas Development: Adaptation, Experimentation, or Chaos?*, invited panelist, March 2012

Duke Nicholas School of the Environment, Durham, NC, Hydrofracking Workshop, The Legal and Socioeconomic Setting, *Fracturing Regulation Applied*, invited panelist, January 2012

Rocky Mountain Mineral Law Foundation, Columbia River Gorge, 2011 Natural Resources Law Teachers Institute, *Siting Issues for Utility-Scale Renewables*, panelist, May 2011

American Planning Association, Boston, MA, 2011 National Planning Conference, *Land, Covenants, and Law*, invited panelist, April 2011

Duquesne University, Pittsburgh, PA, Marcellus Shale Policy Conference, *Marcellus Policy Approaches*, invited panel moderator, May 2010

The University of Texas School of Law, Austin, TX, 2010 Carbon and Climate Change, *Smart Grids: Key Developments, Economics, and Legal Issues*, invited panelist, February 2010

Villanova Law School, Villanova, PA, Villanova Environmental Law Journal Symposium, *"Shale" We Drill? The Legal and Environmental Impacts of Extracting Natural Gas from Marcellus Shale*, invited panelist, January 2010

The University of Texas School of Law, Austin, TX, Texas Journal of Oil, Gas, and Energy Law, Energy Law Symposium, *Hydraulic Fracturing and the States*, invited panelist, January 2010

SELECTED MEDIA QUOTATIONS, PODCASTS, and OP-EDS

Localizing the Green Energy Revolution, THE HILL, Feb. 2, 2021, <https://thehill.com/opinion/energy-environment/536941-localizing-the-green-energy-revolution>

Kleinman Center for Energy Policy, University of Pennsylvania, *The Struggle for Local Control over Energy Development*, Apr. 3, 2020, <https://kleinmanenergy.upenn.edu/energy-policy-now/struggle-local-control-over-energy-development>

Andrew Shi, *Negotiated Rulemaking and the Borrower Defense Regulation*, THE REGULATORY REVIEW, Aug. 3, 2018, <https://www.theregreview.org/2018/08/03/shi-negotiated-rulemaking-borrower-defense/>

Ellen M. Gilmer, *Court to Decide Fate of Federal Fracking Authority—or Not*, ENERGYWIRE, July 28, 2017

The Pull of Energy Markets—and Legal Challenges—Will Blunt Plans to Roll Back EPA Carbon Rules, THE CONVERSATION (with Hari Osofsky) (Oct. 2017), <https://theconversation.com/the-pull-of-energy-markets-and-legal-challenges-will-blunt-plans-to-roll-back-epa-carbon-rules-85561>

David Bailey, *Q&A: Professor Cited in Fracking Regulation Ban Joins Opposing Brief*, REUTERS LEGAL, Sept. 30, 2016, <http://www.reuters.com/article/energy-fracking-interview-idUSL2N1C60E1>

National Public Radio, Marketplace, *The Federal Government's Limits on Regulating Fracking*, July 5, 2016, <http://www.marketplace.org/2016/07/05/sustainability/federal-governments-limits-regulating-fracking>

Elvina Nawaguna, *Florida Faces Solar Choices*, CONGRESSIONAL QUARTERLY, Apr. 26, 2016

Peter Hayes, *\$4.2 Million Fracking Verdict Likely to Spark More Suits*, BLOOMBERG BNA, Mar. 16, 2016, <http://www.bna.com/42-million-fracking-n57982068570/>

National Public Radio, Marketplace, *Colorado Court Takes up Local Laws Limiting Fracking*, Sept. 23, 2015, <http://www.marketplace.org/topics/sustainability/colorado-court-takes-local-laws-limiting-fracking>

National Public Radio, The Diane Rehm Show, *New State Laws Aimed at Preventing Local Bans on Fracking*, May 27, 2015, <http://thedianerehmshow.org/shows/2015-05-27/new-state-laws-aimed-at-preventing-local-bans-on-fracking>

National Public Radio, Marketplace, *Pipeline Spill Exposes a Fracking Cost*, Jan. 22, 2015, <http://www.marketplace.org/topics/economy/pipeline-spill-exposes-fracking-cost>

National Public Radio, Marketplace, *A Fracking Story Too Good to be True*, Aug. 27, 2014, <http://www.marketplace.org/topics/sustainability/fracking-story-too-good-be-true>

Russell Gold, *The Fracking Fight's New Front Line*, WALL STREET JOURNAL, June 4, 2014, <http://www.wsj.com/articles/fracking-meets-new-resistance-from-communities-1401905185>

Mica Rosenberg, *North Carolina Senate Outlaws Disclosure of Fracking Fluid Secrets*, REUTERS, May 22, 2014, <http://in.reuters.com/article/2014/05/22/usa-fracking-secrets-idINL1N0O80P920140522>

National Public Radio, Living on Earth, May 9, 2014, *Texas Family Wins Fracking Suit*, <http://www.loe.org/shows/shows.html?programID=14-P13-00019#feature2>

National Public Radio, Morning Edition, *Texas Family's Nuisance Complaint Seen as Win Against Fracking*, May 2, 2014, <http://www.npr.org/2014/05/02/308796539/texas-family-nuisance-complaint-seen-as-win-against-fracking>

Jim Efstathiou, Jr. & Mark Niquette, *Fracking Opens Fissures Among States as Drillers Face Many Rules*, BLOOMBERG BUSINESS, Dec. 23, 2011, <http://www.bloomberg.com/news/articles/2011-12-23/fracking-opens-fissures-among-states-as-drillers-face-many-rules>

Ana Campoy & Stephanie Simon, *Wind Fuels Fight in Oil Patch*, WALL STREET JOURNAL, Nov. 26, 2011, <http://www.wsj.com/articles/SB10001424052970203710704577052831852364286>

Ben Casselman & Russell Gold, *Drilling Tactic Unleashes a Trove of Natural Gas—And a Backlash*, WALL STREET JOURNAL, Jan. 21, 2010, <http://www.wsj.com/articles/SB10001424052748703837004575012952816154746>

PROFESSIONAL EXPERIENCE

Hyde Park Neighborhood Association, Austin, TX *Of Counsel (pro bono)*, Apr. 2008–June 2010

United States Court of Appeals for the Fifth Circuit, Austin, TX *Law Clerk to Judge Patrick Higginbotham*, Aug. 2007–Aug. 2008

ICF Consulting, Washington, D.C. *Research Assistant* 2002–2004; promoted to *Analyst* 2004

SELECTED SERVICE AND PROJECTS

Selected outside service

Periodic grant application reviewer, National Science Foundation and Sloan Foundation, 2011–present

Periodic peer reviewer, *Science*, *Environmental Science & Technology*, *Energy Policy*, *Journal of Environmental Law*, and *Environmental Research Letters*

Member of Editorial Board, ABA Section of Environment, Energy, and Resources TRENDS, Sept. 2015–Aug. 2019

Member Scholar, Center for Progressive Reform, Sept. 2015–present

Working Group team member, Science for Nature and People, The Nature Conservancy and National Center for Ecological Assessment and Synthesis, *Hydraulic Fracturing: Impacts on Water Quality and Quantity*, Feb. 2014–2016

Member of the University of Michigan Graham Sustainability Institute Hydraulic Fracturing Integrated Assessment Review Panel, 2014–2015

Member of the Committee to Review Scholarly Papers for the Annual Meeting, Association of American Law Schools, 2014-2015

Organizer of and speaker at Continuing Legal Education and Continuing Judicial Education event, *The Evolving Law of Hydraulic Fracturing and Unconventional Oil and Gas*, Florida State University College of Law, April 2014

Co-organizer, University of Pittsburgh 2013 Energy Law & Policy Institute, summer 2013

Editor, Environmental Law Prof Blog January–December 2011

Selected service to law school

Dean Search Committee member, September 2021-present

Appointments Committee Chair, Florida State University College of Law, August 2017-May 2018

Dean Search Committee member, December 2015-June 2016

Symposium organizer and moderator, *Energy Policy and Markets in a Shifting Federal-State Landscape*, November 2017

Co-organizer and co-host, Municipal Utilities and Cooperatives: Transitioning to a Lower-Carbon Future (co-sponsored by the Florida State University College of Law Environmental, Energy, and Land Use Program and University of North Carolina School of Law Center for Climate, Environment, Energy and Economics), March 2017

Symposium organizer and moderator, *Effectively Governing Shale Gas and Oil Development*, Florida State University College of Law, February 2013

On-campus coach for Energy Law moot court team, Florida State University College of Law, August 2012–March 2013

BAR ADMISSIONS

Texas (inactive)