

**WILLIAM BOYD**

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University of Colorado Law School   ♦   Wolf Law Bldg, 401 UCB   ♦   Boulder, CO 80309

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## EDUCATION

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**STANFORD LAW SCHOOL, STANFORD, CA**

J.D. with distinction, 2002

Articles Editor, Stanford Law Review

**UNIVERSITY OF CALIFORNIA, BERKELEY, CA**

Ph.D. Energy & Resources Group, 2002

M.A. Energy & Resources Group, 1994

**UNIVERSITY OF NORTH CAROLINA, CHAPEL HILL, NC**

B.A. History and Philosophy with distinction, 1989

Phi Beta Kappa • Morehead Scholar

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## EXPERIENCE

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**UNIVERSITY OF COLORADO LAW SCHOOL**

Professor of Law and John H. Schultz Energy Law Fellow, 2016 - present

Associate Professor of Law, 2008 - 2016 (tenured in 2014)

Fellow, University of Colorado and National Renewable Energy Laboratory (NREL)  
Renewable and Sustainable Energy Institute (RASEI), 2009 - present

Faculty Director, Laboratory for Energy and Environmental Policy Innovation (LEEP),  
2016 - present

**UNIVERSITY OF CALIFORNIA AT LOS ANGELES**

Visiting Professor of Law, Spring 2015

Visiting Professor Institute of Environment & Sustainability, Winter 2015

**COVINGTON & BURLING LLP, WASHINGTON, DC**

Associate, 2005-2008

**UNITED STATES SENATE, COMMITTEE ON ENVIRONMENT & PUBLIC WORKS (DEMOCRATIC  
MINORITY STAFF)**

Counsel and AAAS Congressional Science Fellow, 2003-05

**UNITED STATES COURT OF APPEALS, FOURTH CIRCUIT**

Law Clerk to Honorable Diana Gribbon Motz, 2002-2003

U.S. DEPARTMENT OF JUSTICE, SAN FRANCISCO, CA  
Law clerk, Environmental Enforcement Section, Summer 2000

UNIVERSITY OF CALIFORNIA AT BERKELEY  
Instructor, "Energy and Global Change," Summer 1998  
Graduate Student Instructor, "Energy and Society," Fall 1995

ENVIRONMENTAL DEFENSE FUND, OAKLAND, CA  
Research Assistant, International Water Project, Summer 1993

WORLD RESOURCES INSTITUTE, WASHINGTON, DC  
Research Assistant, International Institutions Project, 1990-92

## PUBLICATIONS

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### Books

THE SLAIN WOOD: PAPERMAKING AND ITS ENVIRONMENTAL CONSEQUENCES IN THE AMERICAN SOUTH  
350 pgs (Johns Hopkins University Press, 2015).

Winner of the 2016 Edelstein Prize awarded annually by the Society for the History of Technology for an outstanding scholarly book in the history of technology published during the preceding three years.

### Law Review Publications

*Just Price, Public Utility, and the Long History of Economic Regulation in America* 35 YALE J. REG. \_\_\_ (forthcoming 2018) (Symposium Essay).

*Environmental Law, Big Data, and the Torrent of Singularities*, 64 UCLA LAW REVIEW DISCOURSE 544-70 (2016) (Symposium Essay).

*Accidents of Federalism: Ratemaking and Policy Innovation in Public Utility Law*, 64 UCLA LAW REVIEW 810-93 (2016) (with Ann E. Carlson).

*Public Utility and the Low-Carbon Future*, 61 UCLA LAW REVIEW 1614-1710 (2014).

Selected as one of top five articles for 2014 by the Environmental Law Institute and the Vanderbilt Law School Environmental Law & Policy Annual Review and reprinted (condensed version) in 45 ENV. L. REPT. 10727 (2015).

Millstein Award, University of Colorado Law School (2015).

*Genealogies of Risk: Searching for Safety, 1930s-1970s*, 39 ECOLOGY LAW QUARTERLY 895-987 (2012).

*Law, Environment, and the Non-Dismal Social Sciences*, 8 ANNUAL REVIEW OF LAW & SOCIAL SCIENCE 183-

211 (2012) (with Douglas A. Kysar & Jeffrey J. Rachlinski).

*The Curious Case of Greening in Carbon Markets*, 41 ENVIRONMENTAL LAW 73-94 (2011) (with James Salzman).

*Climate Change, Fragmentation, and the Challenges of Global Environmental Law: Elements of a Post-Copenhagen Assemblage*, 32 UNIVERSITY OF PENNSYLVANIA JOURNAL OF INTERNATIONAL LAW 457-550 (2010).

*Ways of Seeing in Environmental Law: How Deforestation Became an Object of Climate Governance*, 37 ECOLOGY LAW QUARTERLY 843-916 (2010).

Selected as one of top five articles in environmental law for 2010 and reprinted in 43 LAND USE & ENVIRONMENTAL LAW REVIEW 295-374 (2012).

*Controlling Toxic Harms: The Struggle over Dioxin Contamination in the Pulp and Paper Industry* (Student Note), 21 STANFORD ENVIRONMENTAL LAW JOURNAL 345-419 (2002).

*International Institutional Arrangements for Environment and Development: A Post-Rio Assessment* 1 REVIEW OF EUROPEAN COMMUNITY AND INTERNATIONAL ENVIRONMENTAL LAW 295-306 (1992) (with Lee Kimball).

### Refereed Journal Publications

*A Review of Water and Greenhouse Gas Impacts of Unconventional Natural Gas Development in The United States*, 2 MRS ENERGY & SUSTAINABILITY: A REVIEW JOURNAL 1-21 (2015) (with D. Arent et al.).

*More Food, More Forests, Fewer Emissions, Better Livelihoods: Linking REDD+, Sustainable Supply Chains, and Domestic Policies in Brazil, Indonesia, and Colombia*, 4 CARBON MANAGEMENT 639-58 (2013) (with D. Nepstad, et al.).

*Responding to Climate Change and the Global Land Crisis: REDD+, Market Transformation, and Low-Emissions Rural Development*, 368 PHIL. TRANS. R. SOC. B 1-13 (2013) (with D. Nepstad, C. Stickler, T. Bezerra, and A. Azevedo).

*Making Meat*, 42 TECHNOLOGY & CULTURE 631-64 (2001).

Alice Hamilton Prize for Best Peer-Reviewed Article in the Field of Environmental History  
Published Outside of the Journal *Environmental History*, American Society of Environmental History, 2003.

Levinson Prize for Best Graduate Student Essay intended for publication in the history of technology, Society for the History of Technology, 1999.

Reprinted in ENVIRONMENTAL HISTORY AND THE AMERICAN SOUTH, P. Sutter and C. Manganiello (eds.) University of Georgia Press (2009).

*Industrial Dynamics and the Problem of Nature* 14 SOCIETY & NATURAL RESOURCES 555-70 (2001) (with Scott Prudham & Rachel Schurman).

## Book Chapters

*The Clean Air Act's National Ambient Air Quality Standards: A Case Study of Durability and Flexibility in Program Design and Implementation*, in *THE FUTURE OF U.S. ENERGY POLICY: LESSONS FROM THE CLEAN AIR ACT*, Carlson and Burtraw eds. (Cambridge University Press, forthcoming 2018)

*Water is for Fighting Over: Papermaking and the Struggle Over Groundwater in Coastal Georgia, 1930s-2000s*, in *COASTAL NATURE, COASTAL CULTURE*, Pressly and Sutter eds., (University of Georgia Press, forthcoming 2018)

*Deforestation and Emerging Greenhouse Gas Compliance Regimes: Toward a Global Environmental Law of Forests, Carbon, and Climate Governance* in *DEFORESTATION AND CLIMATE CHANGE: REDUCING CARBON EMISSIONS FROM DEFORESTATION AND FOREST DEGRADATION*, V. Bosetti and R. Lubowski (eds.) Edward Elgar 1-25 (2010)

*Manufacturing Green Gold: Industrial Tree Improvement and the Power of Heredity in the Post-War United States* in *INDUSTRIALIZING ORGANISMS: INTRODUCING EVOLUTIONARY HISTORY*, Philip Scranton and Susan Schrepfer (eds.) Routledge 107-42 (2004) (with Scott Prudham).

*Wonderful Potencies? Deep Structure and the Problem of Monopoly in Agricultural Biotechnology* in *ENGINEERING TROUBLE: GENETIC ENGINEERING AND ITS DISCONTENTS*, Dennis Kelso and Rachel Schurman (eds.) University of California Press 24-62 (2003).

*The Forest is the Future? Industrial Forestry and the Southern Pulp and Paper Complex* in *THE SECOND WAVE: SOUTHERN INDUSTRIALIZATION, 1940-1970s*, Philip Scranton (ed.), University of Georgia Press 168-218 (2001).

*Agro-Industrial Just-In-Time: The Chicken Industry and Post-War American Capitalism* in *GLOBALISING FOOD: AGRARIAN QUESTIONS AND GLOBAL RESTRUCTURING*, David Goodman and Michael Watts (eds.) Routledge 192-225 (1997) (with Michael Watts).

## Book Reviews

Review of *Agriculture and Modern Technology: A Defense*, by Thomas R. DeGregori in 44 *TECHNOLOGY & CULTURE* 423-24 (2003)

Review of *The Color of Work: The Struggle for Civil Rights in the Southern Paper Industry*, by Timothy J. Minchin in 61 *JOURNAL OF ECONOMIC HISTORY* 1143-45 (2001).

Review of *Risk Society: Towards a New Modernity* by Ulrich Beck and *Risk and Rationality: Philosophical Foundations for Populist Reforms* by Kristin S. Shrader-Frechette in 69 *ECONOMIC GEOGRAPHY* 432-432-36 (1993).

## Other Publications

*Highly Reliable Organizations in the Onshore Natural Gas Sector: An Assessment of Current Practices, Regulatory Frameworks, and Select Case Studies*, Joint Institute for Strategic Energy Analysis, NREL/SR-6A50-67941, 1-81 (NREL 2017) (with E. Paranhos and T. Kozak).

- A Review of Sector and Regional Trends in U.S. Electricity Markets: Focus on Natural Gas*, Joint Institute for Strategic Energy Analysis, NREL/TP-6A50-64652, 1-56 (NREL 2015) (with J. Logan and K. Medlock).
- Controlling Methane Emissions in the Natural Gas Sector: A Review of Federal & State Regulatory Frameworks Governing Production, Gathering, Processing, Transmission, and Distribution*, Joint Institute for Strategic Energy Analysis, NREL/TP-6A50-63416, 1-79 (NREL 2015) (with E. Paranhos, T. Kozak, J. Bradbury, D. Steinberg, and D. Arent).
- Natural Gas and the Transformation of the U.S. Energy Sector: Electricity*, Joint Institute for Strategic Energy Analysis, NREL/TP-6A50-55538, 1-240 (NREL 2012) (with J. Logan, G. Heath, E. Paranhos, H. Carlson, K., and J. Macknick).
- Overview of Subnational Programs to Reduce Emissions from Deforestation and Forest Degradation (REDD) as Part of the Governors' Climate and Forests Task Force*. EPRI, Palo Alto, CA. 1023811, 1-160 (2012) (with D. Nepstad, J. Niles, A. Azevedo, T. Bezerra, K. Schwalbe, B. Smid, C. Stickler, R. Vidal).
- Reframing REDD+*, Instituto de Pesquisa Ambiental da Amazônia (IPAM), 1-22 (2012) (with D. Nepstad, P. Moutinho, A. Azevedo, T. Bezerra, B. Smid, M. Stabile, C. Stickler, O. Stella).
- International Forest Carbon and the Climate Change Challenge: Issues and Options*, Nicholas Institute Report, Duke University Nicholas Institute for Environmental Policy Solutions 1-61 (2009) (with L. Olander, K. Lawlor, E. Madeira, and J. Niles).
- Considering Technology within the UN Climate Change Negotiations*, Energy Research Center of the Netherlands, ECN-E-08-077, 1-60 (2008) (with M. Bazilian, H. de Coninck, M. Radka, S. Nakhoda, I. McGill, A. Amin, F. von Malmborg, J. Uosukainen, R. Bradley, and R. Bradley).

## TEACHING

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- Energy Law & Regulation*, University of Colorado Law School, Fall 2009, Fall 2010, Spring 2012, Fall 2012, Fall 2013, Fall 2015, Fall 2016; UCLA Law School, Spring 2015.
- Advanced Environmental Law: Air Pollution*, University of Colorado Law School, Spring 2016
- Advanced Natural Resources Law Field Seminar*, University of Colorado Law School, Spring 2016
- Energy & Climate Policy*, Undergraduate Seminar, UCLA Institute of Environment & Sustainability, Winter 2015.
- Environmental Law*, University of Colorado Law School, Spring 2010, Spring 2011, Spring 2013, Spring 2017.
- Climate Change Law & Policy*, University of Colorado Law School, Spring 2009, Spring 2010, Spring 2011, Spring 2012, Spring 2013, Fall 2013, Fall 2015, Spring 2017.

*Toxics & Hazardous Wastes*, University of Colorado Law School, Fall 2008.

*Energy & Global Change*, University of California Berkeley, Summer 1998.

## AWARDS & FELLOWSHIPS

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2016 Edelstein Prize for THE SLAIN WOOD, awarded annually by the Society for the History of Technology for an outstanding scholarly book in the history of technology published during the preceding three years.

Clifford J. Calhoun Public Service Award, University of Colorado Law School (2016).

Millstein Award for *Public Utility and the Low-Carbon Future*, University of Colorado Law School (2015).

*Public Utility and the Low-Carbon Future* article selected as one the top five articles of the year by the Environmental Law Institute and the Environmental Law & Policy Review (2014).

Provost's Faculty Achievement Award, University of Colorado Boulder, 2013.

*Ways of Seeing in Environmental Law* article selected as one of the top five articles of the year in environmental law and reprinted in 43 LAND USE & ENVIRONMENTAL LAW REVIEW 295-374 (2012).

American Association for the Advancement of Science, Congressional Science Fellow, 2003-04.

Alice Hamilton Prize for Best Peer-Reviewed Article in the Field of Environmental History Published Outside of the Journal *Environmental History*, American Society of Environmental History, 2003.

Olaus and Adolph Murie Award for Best Student Paper in Environmental Law, Stanford Law School, 2002.

Levinson Prize for Best Graduate Student Essay intended for publication in the history of technology, Society for the History of Technology, 1999.

University of California Chancellor's Fellowship, 1998-99.

United States Environmental Protection Agency STAR Graduate Fellowship, 1995-1998.

Outstanding Graduate Student Instructor, University of California, Berkeley, 1995.

MacArthur Foundation Breadth Fellowship, 1993-94.

University of California Regents Fellowship, 1992-93.

Phi Beta Kappa, 1989.

Morehead Scholar, University of North Carolina, Chapel Hill, 1985-89.

## GRANTS

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### Grants Administered through University of Colorado, 2009-20 - \$13.5 million

Principal Investigator, 2016-20, *Advancing Jurisdictional Programs for REDD+ and Low Emissions Development: The Governors' Climate and Forests Task Force*, \$5,000,000

Principal Investigator, 2015, *Governors' Climate & Forests Task Force Implementation Effort on Reducing Emissions from Deforestation and Forest Degradation (REDD)*, Gordon & Betty Moore Foundation, \$938,077

Principal Investigator, 2015, *Governors' Climate & Forests Task Force Implementation Effort on Reducing Emissions from Deforestation and Forest Degradation (REDD)*, ClimateWorks Foundation, \$250,000

Principal Investigator, 2013-15, *Support Network for REDD+ and Low Emissions Development in GCF States & Provinces*, Norwegian Agency for Development Cooperation, \$2,000,000

Principal Investigator, 2014, *Governors' Climate & Forests Task Force Implementation Effort on Reducing Emissions from Deforestation and Forest Degradation (REDD)*, Gordon & Betty Moore Foundation, \$600,000

Principal Investigator, 2014, *Governors' Climate & Forests Task Force Implementation Effort on Reducing Emissions from Deforestation and Forest Degradation (REDD)*, ClimateWorks Foundation, \$300,000

Principal Investigator, 2013, *Governors' Climate & Forests Task Force Implementation Effort on Reducing Emissions from Deforestation and Forest Degradation (REDD)*, Gordon & Betty Moore Foundation, \$650,000

Principal Investigator, 2013, *Governors' Climate & Forests Task Force Implementation Effort on Reducing Emissions from Deforestation and Forest Degradation (REDD)*, ClimateWorks Foundation, \$300,000

Principal Investigator, 2012, *Regulatory and Legislative Issues Impacting Future of Natural Gas in the Electric Sector*, Joint Institute for Strategic Energy Analysis, \$84,420

Principal Investigator, 2012, *Governors' Climate & Forests Task Force Implementation Effort on Reducing Emissions from Deforestation and Forest Degradation (REDD)*, Gordon & Betty Moore Foundation, \$875,000

Principal Investigator, 2012, *Governors' Climate & Forests Task Force Implementation Effort on Reducing Emissions from Deforestation and Forest Degradation (REDD)*, ClimateWorks Foundation, \$425,000

Principal Investigator, 2011, *Governors' Climate & Forests Task Force Implementation Effort on Reducing Emissions from Deforestation and Forest Degradation (REDD)*, Gordon & Betty Moore Foundation, \$476,099

Principal Investigator, 2011, *Governors' Climate & Forests Task Force Implementation Effort on Reducing Emissions from Deforestation and Forest Degradation (REDD)*, ClimateWorks Foundation, \$476,098

Principal Investigator, 2010, *Governors' Climate & Forests Task Force Implementation Effort on Reducing Emissions from Deforestation and Forest Degradation (REDD)*, Gordon & Betty Moore Foundation, \$442,933

Principal Investigator, 2010, *Governors' Climate & Forests Task Force Implementation Effort on Reducing Emissions from Deforestation and Forest Degradation (REDD)*, ClimateWorks Foundation, **\$349,642**

Principal Investigator, 2009, *Governors' Climate & Forests Task Force Implementation Effort on Reducing Emissions from Deforestation and Forest Degradation (REDD)*, David & Lucille Packard Foundation, **\$200,000**

Principal Investigator, 2009, *Governors' Climate & Forests Task Force Implementation Effort on Reducing Emissions from Deforestation and Forest Degradation (REDD)*, Gordon & Betty Moore Foundation, **\$221,000**

## **LAW SCHOOL AND UNIVERSITY SERVICE**

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University of Colorado-Boulder, Faculty Grievance Committee (2016-17)

University of Colorado-Boulder, Admissions Committee (2016-17)

University of Colorado-Boulder, Law School Dean Search Committee (2015-16)

University of Colorado Law School, Policy, Management, & Budget Committee (2015-16)

University of Colorado Law School, Appointments Committee - Natural Resources, Energy, and Environmental Law Clinic (2014)

University of Colorado-Boulder, Environment and Sustainability Implementation Committee (2013-14)

University of Colorado Law School, Appointments Committee (2013-14)

University of Colorado-Boulder, Environment and Sustainability Visioning Committee (2012-13)

University of Colorado Law School, Appointments Committee (2012-13)

University of Colorado Law School, Search Committee (Chair) for Executive Director of Getches-Wilkinson Center for Natural Resources, Energy, and the Environment (2012)

University of Colorado Law School, Technology Committee (Spring 2012)

University of Colorado-Boulder, RASEI Coordination Committee, (2011-2014)

University of Colorado Law School, Academic & Student Affairs Committee, (2010-11)

Fellow, CU-NREL Renewable and Sustainable Energy Institute (RASEI), (2009-present)

University of Colorado-Boulder Program Committee Member, Joint Institute for Strategic Energy Analysis, National Renewable Energy Laboratory, (2009-present)

University of Colorado-Boulder, Energy Education Committee, (2009-present)



University of Colorado-Boulder, Renewable and Sustainable Energy Initiative Steering Committee, (2008-09)

University of Colorado Law School, Center for Energy & Environmental Security, Advisory Board Member, (2008-12).

University of Colorado Law School, Getches Wilkinson Center for Natural Resources, Energy, and Environment (formerly NRLC), Board Member, (2008-present)

University of Colorado Law School, Faculty Advisor, Colorado Natural Resources, Energy, and Environmental Law Review (formerly CJIELP) (2008-13)

University of Colorado Law School, Faculty Advisor, Environmental Law Society (2013-14)

## **SPECIAL PROJECTS**

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Consultant, High Reliability Organization Practices in the Onshore Oil and Gas Sector, U.S. Department of Energy, National Renewable Energy Laboratory (2016-17)

Consultant, Jurisdictional Issues Regarding Proposed CAISO Expansion to include PacifiCorp, California Independent System Operator (2016)

Of counsel, *Brief of Amici Curiae Grid Experts Benjamin F. Hobbs, Brendan Kirby, Kenneth J. Lutz, James D. McCalley, and Brian Parsons in Support of Respondents, West Virginia v. EPA*, No. 16-1363, (D.C. Cir. 2016)

Participant, American Academy of Arts and Sciences, Clean Air Act project (2014-16)

Board Member, Earth Innovation Institute (2014-present)

Consultant, Regulatory Frameworks for Methane Emissions Across the Natural Gas Supply Chain, U.S. Department of Energy, National Renewable Energy Laboratory (2014)

Board Member, Ecosystem Impact (2013-present)

Consultant, Natural Gas Production, National Energy Policy Roundtable, Center for the New Energy Economy, Colorado State University, Fort Collins, CO (2013)

Member, California/Acre/Chiapas REDD Offsets Working Group (2011-13)

Senior Advisor and Project Lead, Governors' Climate & Forests Task Force (2008-present)

Project Consultant, *International Forest Carbon: A Primer for Policymakers*, Duke Nicholas Institute for Environmental Policy Solutions (2008-09)

Advisor, Forest Carbon Dialogue, (advice on legislative language for international forest carbon provisions in U.S. climate legislation) (2008-09)

## PROFESSIONAL AFFILIATIONS

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American Association for the Advancement of Science  
Energy Bar Association  
Environmental Law Institute  
Society for the History of Technology  
American Society of Environmental History

Reviewer: *Climatic Change*; *Proceedings of the National Academy of Sciences*; *Transnational Environmental Law*; *Political and Legal Anthropology Review*; *Studies in Law, Politics, & Society*; *Journal of the History of Science, Technology and Medicine*; *Journal of Southern History*; *Current Opinion in Environmental Sustainability*

## BAR MEMBERSHIPS

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District of Columbia  
Maryland