



Getches-Wilkinson Center
for Natural Resources, Energy,
and the Environment

2017 Martz Spring Symposium



Natural Resources, Energy, and Public Lands: What Happens Next?

2017 Clyde Martz Spring Symposium

University of Colorado School of Law

Wolf Law Building, Wittemyer Courtroom

Monday, April 10th and Tuesday, April 11th, 2017

*Presented by the Getches-Wilkinson Center for Natural Resources,
Energy, and the Environment*



COLORADOLAW
UNIVERSITY OF COLORADO **BOULDER**

4th Annual Martz Symposium



Clyde O. Martz was a father of natural resource law in the United States. He was an exemplary teacher, mentor, counselor, advocate, and a professor of natural resources law for 15 years at Colorado Law. Professor Martz was one of the founders of the Rocky Mountain Mineral Law Foundation and of the Law School's Natural Resources Law Center, which later became the Getches-Wilkinson Center for Natural Resources, Energy, and the Environment. In 1951, he assembled and published the first natural resources law casebook, combining the previously discrete subjects of water law, mining law, and oil and gas law.

In 1962, Professor Martz joined the law firm of Davis Graham & Stubbs. During his tenure at Davis, Graham & Stubbs, he took periodic leaves of absence to serve as the Assistant Attorney General of the Lands and Natural Resources Division of the U.S. Department of Justice (1967-69), a Colorado Special Assistant Attorney General (1971-75), and as the Solicitor of the Department of the Interior (1980-81). He retired from the firm in the late 1990s and passed away in 2010 at the age of 89.

The Martz Natural Resources Management Fund was established in memory of natural resources law pioneer Clyde Martz and supports innovative programming at Colorado Law on best practices in natural resources management.

Conference Introduction

Natural Resources, Energy, and Public Lands: What Happens Next?

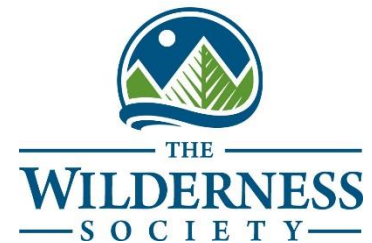
As the Trump Administration's priorities unfold, we will address the implications of potential policy shifts and other emerging issues in these critical areas.

Schedule of Events

Symposium Keynote: Monday, April 10th 5:30 p.m., Oxford Style Debate
Symposium Panels: Tuesday, April 11th 8:30-5:30, Martz Spring Symposium
Lunch: Tuesday, April 11th 12:30-1:30 Schaden Commons (Second Floor)
Event Reception: Tuesday, April 11th to follow Symposium, Boettcher Hall

Event Sponsors

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Special Thanks to Our Supporters

This symposium is made possible through the generous support of donors who sponsored this year's Martz Spring Sustainability Symposium and those who have invested in our Clyde O. Martz Endowed Fund for Natural Resources Management (including Brian Dolan and Davis Graham and Stubbs LLP). The Martz Natural Resources Management Fund was established in the memory of natural resources law pioneer Clyde Martz and supports innovative programming at Colorado Law in best practices in natural resources management.

Agenda Day One: Monday, April 10th

5:30 p.m.

Oxford Style Debate

The U. S. Should Remain a Party to the Paris Climate Agreement

Moderator

Professor Lakshman Guruswamy

Confirmed Speakers

Karen Florini, former Deputy Special Envoy for Climate Change at the U.S. Dept. of State for the Yes position.

Steven Hayward, Senior Resident Scholar, Institute of Governmental Studies, UC Berkeley for the No position.

Agenda Day Two: Tuesday, April 11th

Martz Spring Symposium

As the Trump Administration's priorities unfold, we will address the implications of potential policy shifts and other emerging issues in these critical areas.

8:00 a.m. Registration and Continental Breakfast

8:30 a.m. Welcome by S. James Anaya, Dean, University of Colorado School of Law and Alice Madden, GWC Executive Director

8:45 a.m.

Managing Federal Public Lands-Changes on the Horizon

The discussion, led by Professor Sarah Krakoff, will include potential policy changes and other emerging issues affecting ownership and management of federal public lands, including: mining/oil & gas extraction; grazing, timber and recreation; planning and collaborative management; and the long-term effect and potential fate of Obama administration's actions such as wildlife and land management plans and National Monument designations.

Moderator

Professor Sarah Krakoff

Confirmed Speakers

Nada Culver, Senior Counsel and Director, BLM Action Center, The Wilderness Society

Neil Kornze, former Director, Bureau of Land Management

Justin Pidot, University of Denver Sturm College of Law (former Deputy Solicitor for Land Resources, U.S. Dept of the Interior)

Karin Sheldon, President, Four Echoes Strategies (former President, Western Resource Advocates)

Ezekiel Williams, Managing Director, Lewis, Bess, Williams & Weese P.C.

10:30 a.m.

Conservation/Environmental Issues of the Day

A discussion between former U.S. Senator Mark Udall and Professor Charles Wilkinson

11:00 a.m.

Mining: Cleaning Up Our Past and Preparing for the Future

The discussion, led by Zach Miller, Partner, Davis Graham and Stubbs, will include obstacles to clean up at historic mine sites; the prospects for "Good Samaritan" or other mine remediation laws and financial assurance rules [CERCLA 108(b)]; and emerging lessons from the Gold King Mine spill.

Moderator

Zach Miller, Partner, Davis Graham and Stubbs LLP

Confirmed Speakers

Nick Cotts, VP of External Relations and Social Responsibility, Newmont Mining Co.

Bonnie Gestring, Northwest Program Director, Earthworks

Shaun McGrath, former Regional Administrator Region 8, EPA

Laura Skaer, Executive Director, American Exploration & Mining Association

12:30-1:30 Lunch
(Lunch provided in Schaden Commons, 2 floor-West End)

12:30 p.m.
Hot Topics Lunch: Update on the most recent Administrative, Judicial, and Congressional Actions and other relevant developments.
Discussion led by Professor Mark Squillace (concurrent with lunch)

1:30 p.m.
What will Regulation of the Oil and Gas Industry Look Like?

The discussion, led by Professor William Boyd, will address likely changes at the EPA; potential state / local action; building a business case for voluntary initiatives, courting socially responsible investors; and proposed “clean tax cuts.”

Moderator

Professor William Boyd

Confirmed Speakers

Mark Boling, President of V+ Development Solutions, Southwestern Energy

Michael Conroy, Board Chair, Equitable Origins

Paula Gant, former Deputy Assistant Secretary of Oil and Natural Gas, U.S. Dept. of Energy

Elizabeth Paranhos, Partner, Energy Innovation Partners

3:15 Afternoon Networking Break
(Refreshments provided in Boettcher Hall)

3:30 p.m.

Challenges/Opportunities in our Energy and Electricity Systems

The discussion, led by Professor Sharon Jacobs, will address potential policy changes that may affect the make-up of our energy portfolio; evolving utility business models; increased distributed storage; grid modernization and resilience; and the VW Settlement and the advance of electronic vehicles.

Moderator

Professor Sharon Jacobs

Confirmed Speakers

Sonia Aggarwal, VP, Energy Innovation Policy and Technology

Matt Baker, Hewlett Foundation (former Colorado PUC Commissioner)

Mark Detsky, Partner, Dietze and Davis

Matt Futch, Global Business Development Director, Energy Systems Integration Facility, NREL

Jeff Lyng, Senior Policy Advisor, Center for the New Energy Economy, CSU

5:15 p.m.

Closing Remarks, GWC Executive Director Alice Madden

5:30 Event Reception

(Refreshments provided in Boettcher Hall)

Speaker Biographies (Alphabetical by last name)

Sonia Aggarwal



Sonia Aggarwal is the Vice President of Energy Innovation, where she leads the firm's work on Power Sector Transformation and Energy Policy Solutions. In 2012, Sonia spearheaded the creation of America's Power Plan, Energy Innovation's platform for innovative thinking on policy solutions for clean, reliable, and affordable electric power in the U.S. America's Power Plan produces and curates expert information for decision-makers—utility regulators, governors' staffs, power system operators, and many more—providing tailored advice on how to lead and support the transition to a decarbonized power system. For Energy Policy Solutions, Sonia leads Energy Innovation's work in identifying and designing the top energy policies to reduce emissions. The program uses a computer model developed in-house, the Energy Policy Simulator, to quantify the cost and emissions impacts various combinations of climate and energy policies have within a region. In addition to the quantitative model, which helps to identify which policies can make the biggest impact, the Energy Policy Solutions program also provides tailored advice on how to design those policies for maximum effectiveness.

Before Energy Innovation, Sonia managed global research at ClimateWorks Foundation, worked on the McKinsey carbon abatement cost curves, advised the International Energy Agency's "Accelerating Technology Transitions" project, advised clean energy companies on technology and financial communications, and even worked in accident prevention design engineering at a nuclear power plant. Sonia holds a B.S. from Haverford College in astronomy and physics, and an M.S. from Stanford University in engineering, focused on energy.

Matt Baker



Matt Baker is a Program Officer in Environment at the William and Flora Hewlett Foundation. He helps develop and implement grantmaking strategies for climate and energy, and collaborates with environmental leaders and others in the public and private sectors to achieve the foundation's goals to reduce greenhouse gases and advance clean energy.

Formerly commissioner with the Colorado Public Utilities Commission, Matt worked to regulate and help set rates for the state's electric and gas investor-owned utilities and to implement new energy policies. Prior to that, Matt founded and served as executive director of Environment Colorado from 2000 to 2008. He helped pass 36 clean energy laws and led a campaign for the passage of the Renewable Energy ballot initiative, among other activities.

Matt has a bachelor's degree in history from the Pennsylvania State University. He has served as a member of Colorado's Pollution Prevention Advisory Board and as a vice-chairman of the Transit Alliance. He was named Wind Energy Advocate of 2004 by the American Wind Energy Association and received the 2005 Wirth Chair Sustainability Award for advocacy from the University of Colorado Denver.

Mark Boling



Mark K. Boling is Executive Vice President of Southwestern Energy Company and President of Southwestern's V+ Development Solutions division. The mission of V+ Development Solutions is to identify, develop and implement solutions to the challenges of unconventional resource development that strike an appropriate balance among the environmental, social and economic impacts of the Company's activities.

Mr. Boling initiated and led the Company's successful effort to collaborate with the Environmental Defense Fund in developing a Model Regulatory Framework for Hydraulic Fracturing Operations. Mr. Boling also initiated and led the formation of the ONE Future (Our Nation's Energy Future) Coalition, a non-profit trade group focused on identifying policy and technical solutions that yield continuous improvement in the management of methane emissions across the entire natural gas supply chain.

In 2009, he testified before the United States Senate Committee on Agriculture, Nutrition and Forestry on the impact of proposed U.S. financial market regulatory reforms on managing commodity price risk in the upstream oil and gas sector.

In 2013, he testified before the U.S. Senate Environment and Public Works Oversight Subcommittee on the subject of Fugitive Methane Emissions from Oil and Gas Production. In 2015, he testified before the Pennsylvania House Democratic Policy Committee on "How Pennsylvania Can Achieve Carbon Neutrality".

In 2012, the London Financial Times named Mr. Boling the U.S. Innovative Lawyer of the Year.

William Boyd



William Boyd is Professor of Law and John H. Schultz Energy Law Fellow at the University of Colorado Law School. He is also Director of the Laboratory for Energy & Environmental Policy innovation (LEEP) and a fellow of the Renewable and Sustainable Energy Institute (RASEI), a joint institute between the National Renewable Energy Laboratory and the University of Colorado, Boulder. Professor Boyd teaches and conducts research in the areas of energy law & regulation, climate change law & policy, and environmental law. His current research focuses on the history of public utility regulation in the United States; the design and regulation of markets for electricity and natural gas; subnational policy innovation on clean energy and climate change; the history of formal approaches to risk in U.S. health, safety, and environmental law; and the role of science and technology in law.

Michael Conroy



Michael E. Conroy, PhD, is an independent member of Equitable Origin's Board of Directors. He is a retired academic economist (University of Texas, Yale University, and Oxford University), foundation program officer (Ford Foundation and Rockefeller Brothers Fund), and analyst of the voluntary certification field. He previously served on the initial board Fairtrade Labelling Organizations assurance system (FLO-CERT), as well as on the boards of Fair Trade USA, FLO, Earthworks, and the Forest Stewardship Council (FSC-US and FSC International). His book, *Branded! How the 'Certification Revolution' Is Transforming Global Corporations*, has been distributed widely and was judged one of the two best books on business ethics published in English in 2007.

Nick Cotts



Nick joined Newmont in 1994 as the environmental manager for the Yanacocha mine located in Peru. During his 11 year tenure in Peru his role evolved into a social environmental focus including community relations, external relations, sustainable development and communications. Nick transitioned to Newmont's Corporate offices in Denver on 2005 as the Director for Social Responsibility and Sustainability prior to relocating to Ghana, West Africa from 2006-2011 in the role of Regional Vice President, Environment and Social Responsibility.

Nick has worked in Newmont's corporate offices since 2012 where he has focused broadly on sustainability and leading a number of global initiatives in the sustainability and external relations areas including biodiversity, community development foundations, indigenous peoples, and human rights. Nick is currently working in support of global operations with a specific focus on external relations and social responsibility.

Nick received his Bachelor of Science degree in Agronomy-Soil Conservation in 1988 and a Master of Science degree in Range Management-Restoration Ecology in 1991 both from Colorado State University.

Nada Wolff Culver



Nada Wolff Culver is Senior Counsel and Director of the BLM Action Center at The Wilderness Society, providing technical advice and support to citizens and conservation groups working to protect their public lands.

The Wilderness Society's mission is to protect wilderness and inspire Americans to care for our wild places. The BLM Action Center, located in Denver, Colorado, assists and encourages people to participate in land use planning processes and management decisions, including those addressing transmission, renewable energy, fossil fuel development and protection of wilderness. The BLM Action Center also seeks to influence national policy on management of our federal public lands.

Before joining The Wilderness Society, she practiced law in the private sector for more than 10 years, working on a variety of environmental issues including energy development and environmental remediation, and was a partner with the law firm of Patton Boggs. She is a graduate of Northwestern University and the University of Pennsylvania School of Law.

Mark Detsky



Mark's practice involves matters related to water, energy and electricity, transactions, corporations and real property. His experience in Colorado Water Courts includes adjudication of tributary and nontributary water rights and plans for augmentation, changes of water rights and exchanges. His regulatory experience before the Colorado Public Utilities Commission includes electric resource planning, CPCN proceedings, transmission, ratemaking proceedings, energy efficiency dockets and rulemakings. Mark also practices before the Federal Energy Regulatory Commission in matters related to transmission and to hydropower development. Mark's practice involves regulatory matters, litigation, legislative and policy work, as well as transactions, corporate matters, public land law, real estate/easement related legal issues and transactions, as well as energy and energy efficiency project development. Mark represents developers of natural gas projects, renewable energy projects, governmental entities, private and non-profit corporations, as well as individuals.

Originally from New York, Mr. Detsky is a 2003 graduate of the University of Colorado School of Law and a 1997 graduate of the University of Michigan at Ann Arbor. In 2004, he was staff attorney for the Amendment 37 campaign, which resulted in the first popular vote on passage of a renewable energy standard in the United States. Mark has published articles on geothermal law, changes of water rights, ditch company easements as well as wind and solar energy. Mark also published a novel, entitled *As Fast As It Is Gone*, in 2007.

Karen Florini



Karen Florini recently completed nearly two years as the Deputy Special Envoy for Climate Change at the U.S. Department of State. In that capacity, she helped lead the Global Climate Change Initiative – the Obama Administration’s whole-of-government mechanism for integrating climate change considerations into foreign assistance. She also led the State Department’s engagement with businesses, state and local governments, and civil society in the climate negotiations context. In addition, she headed the State Department’s portfolio on short-lived climate pollutants, which included overseeing U.S. participation in the multilateral Climate and Clean Air Coalition, serving as co-chair of the Coalition’s Oil/Gas Methane Partnership, and chairing the Arctic Council’s Expert Group on Black Carbon and Methane. Immediately following her service at the State Department, Karen became a Visiting Fellow at the Oxford Martin School and Nuffield College at the University of Oxford.

Before joining the State Department, Karen spent over 25 years at Environmental Defense Fund, a prominent U.S.-based nongovernmental organization, where among other responsibilities she served as Managing Director for International Climate and led the Environmental Health Program. Her 30-plus years of service on non-profit boards included 18 years as a Trustee of Oberlin College. She earned a bachelor’s degree with majors in biology and environmental policy at Oberlin, and a J.D. at Harvard Law School, where she served as Editor-in-Chief of the Harvard Environmental Law Review.

Matt Futch



Matthew Futch is a highly accomplished regulatory and business strategist with extensive experience in the energy domain spanning legislative, business development, and utility executive leadership. Matt has successfully developed long term regulatory and business strategies for a diversity of projects, captured large revenue streams across global operating geographies, and adeptly constructed complex financial, regulatory, political, and commercially viable project plans.

Most recently, as VP of Regulatory Strategy for National Grid US, Matthew led the development of a long-term regulatory and business strategy for three jurisdictional companies across New York, Massachusetts, and Rhode Island, along with corporate-wide policy on key energy issues involving security, data privacy and distributed generation. Matt devised the business and political strategy for the Renewable Energy Proceedings (REV) in New York and also played a key role in developing a financial and business case for moving the company into new ventures in nontraditional utility energy services.

Earlier in his career, Matt provided leadership for energy policy at the Colorado Governor’s Energy Office and Western Governors Association as the Senior Policy Manager, working with the State’s electric and gas power sector. He helped negotiate and craft the clean energy policies of Governors Bill Ritter, Jr. and John W. Hickenlooper including the passage of numerous renewable energy, smart grid, and energy efficiency bills.

Matt holds a Master of Arts in Global Finance and International Trade from the University of Denver and a Bachelor of Arts in Communications from Colorado State University. He lives with his family in Carlisle, Massachusetts.

Paula Gant



Dr. Paula Gant previously served as the Principal Deputy Assistant Secretary for International Affairs in the U.S. Department of Energy. In that role, she was responsible for bilateral and multilateral engagements with partner countries to apply the Department's capabilities in science, technology and markets to advance U.S. national security objectives. Her work focused particularly on actions to enhance U.S. energy security and accelerate global adoption of clean energy technologies through fora such as: the G-7 and G-2 Energy Ministerials, the Energy and Climate Partnership of the Americas, the North American Energy Ministerial, the Clean Energy Ministerial, the Breakthrough Energy Coalition and the International Energy Agency.

Previously at DOE, Dr. Gant served as the Deputy Assistant Secretary for Oil & Natural Gas, administering R&D programs and natural gas import/export regulation. Dr. Gant's work focused on realizing the promise presented by America's abundant natural gas and oil resources, which hinges on prudent production, environmental stewardship and efficient use.

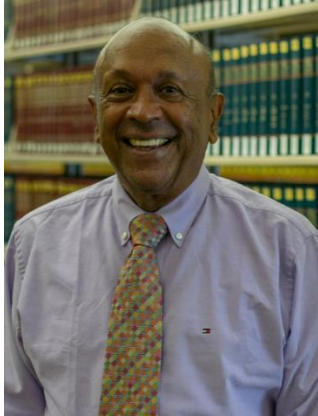
Dr. Gant previously worked for the American Gas Association and Duke Energy. She has also served on the faculties of Louisiana State University and the University of Louisville. A native of Louisiana, she received a Bachelor of Arts in Economics from McNeese State University and a Ph.D. in Economics from Auburn University. She lives in Washington, D.C. with her son, Mason, and border collie, Sammie.

Bonnie Gestring



Bonnie Gestring serves as the northwest program director for Earthworks, a national non-profit organization dedicated to protecting communities and the environment against the adverse effects of mineral and energy development, while seeking sustainable solutions. Over the last 15 years, Bonnie has worked to promote more responsible state and federal mining policies, including policies to reduce mercury air emissions from hard rock mines and requirements for financial assurances to cover clean-up costs. She has worked to protect important public lands from mineral entry, such as mineral withdrawals along Montana's Rocky Mountain Front and Oregon's Siskiyou region. She has authored a number of reports on the environmental impacts associated with hard rock mining. Bonnie has a M.S. in environmental studies from the University of Montana.

Lakshman Guruswamy



Lakshman Guruswamy, a nationally and internationally recognized expert in International Environmental and Global Energy Law was born in Sri Lanka, and is the Nicholas Doman Professor of International Environmental Law at the University of Colorado at Boulder (CU) Law School. Prior to joining CU, he taught in Sri Lanka, the UK, and the Universities of Iowa and Arizona. At CU he teaches International Environmental Law, Global Energy Justice, Oil and International Relations, and International Law. He is the director of international energy programs at the Getches-Wilkinson Center, and his research uses interdisciplinary frameworks to explore how and why energy justice calls for the fashioning of practical energy solutions, for the energy poor inhabiting the least developed parts of the developing world. Lakshman is widely published, and is a frequent speaker at scholarly meetings in the US and around the world. He is the author of *Global Energy Justice: Law and Policy* (West, 2016), *International Energy and Poverty: The Emerging Frontiers* (Routledge, 2015), *International Environmental Law in a Nutshell* (4d ed. 2012), and the co-author of *International Environmental Law and World Order* (2nd. 1999), *Biological Diversity: Converging Strategies* (1998), *Arms Control and the Environment* (2001). The 5th edition of *International Environmental Law in a Nutshell*, is due in 2017. He has authored over 50 scholarly articles published in law reviews and other peer reviewed journals, and won the 2016 Senior Scholar award granted by the Environmental Academy of the International Union for the Conservation of Nature (IUCN).

Steven F. Hayward



Steven F. Hayward is currently senior resident scholar at the Institute of Governmental Studies at UC Berkeley, and a visiting lecturer at Boalt Hall Law School. He was previously the Ronald Reagan Distinguished Visiting Professor at Pepperdine University's Graduate School of Public Policy, and was the inaugural visiting scholar in conservative thought and policy at the University of Colorado at Boulder in 2013-14. From 2002 to 2012 he was the F.K Weyerhaeuser Fellow in Law and Economics at the American Enterprise Institute in Washington DC, and has been senior fellow at the Pacific Research Institute in San Francisco since 1991.

He writes frequently for the *New York Times*, *Washington Post*, *Wall Street Journal*, *National Review*, the *Weekly Standard*, the *Claremont Review of Books*, and other publications. The author of six books including a two-volume chronicle of Reagan and his times entitled *The Age of Reagan: The Fall of the Old Liberal Order, 1964-1980*, and *The Age of Reagan: The Conservative Counter-Revolution, 1980-1989*, and the *Almanac of Environmental Trends*. His latest book, *Patriotism is Not Enough: Harry Jaffa, Walter Berns, and the Arguments That Redefined American Conservatism*, was published in February. He frequently guest-hosts Bill Bennett's national morning radio show, and writes an occasional online column for *Forbes* entitled "The Sinews of Politics." He writes daily on Powerlineblog.com, one of the nation's most read political websites.

Sharon Jacobs



Sharon Jacobs joined the University of Colorado Law School faculty in 2014 as an Associate Professor. Professor Jacobs graduated cum laude from Harvard Law School in 2009, where she was the Executive Articles Editor of the Harvard Law and Policy Review. After graduation, Professor Jacobs practiced in the energy and environmental regulatory groups at Covington & Burling LLP in Washington, D.C. She then spent two years as a Climenko Fellow and Lecturer on Law at Harvard Law School.

Professor Jacobs's research focuses on the impact of regulatory structure and process on policy outcomes in energy and environmental law. Recent projects have focused on agency decision-making in the context of electricity regulation, greenhouse gas policy, and species preservation; agency strategies to "bypass" federalism limitations in the context of programs to encourage management of electricity demand (demand response); and methods of adapting existing legal constructs to new actors in electricity markets. She teaches Environmental Law, Energy Law, Administrative Law, Legislation and Regulation, and related courses. Prior to attending law school, Professor Jacobs was a professional classical cellist.

Neil Kornze



Neil Kornze was the Director of the Bureau of Land Management from April 2014 until the end of the Obama Administration. In that role he oversaw the nation's largest natural resources organization, with responsibility for more than ten percent of the land in the United States and one-third of the country's minerals.

Under his leadership, the agency undertook major reforms of the nation's energy programs, including the development of the Western Solar Plan, which helped guide the agency's approval of more than 15,000 megawatts of clean energy production.

Kornze was also a key leader in major conservation efforts, including the creation of the west-wide plan to protect the Greater Sage Grouse and the creation of numerous national monuments.

Kornze previously worked as a Senior Advisor to U.S. Senate Majority Leader Harry Reid of Nevada. He also served as an international election observer in Macedonia, the Ukraine, and Georgia. Kornze earned a bachelor's degree in Politics from Whitman College in Walla Walla, Washington and a master's degree in International Relations from the London School of Economics.

Sarah Krakoff



Sarah Krakoff teaches and writes about American Indian law and natural resources law. Her publications include *American Indian Law: Cases and Commentary* (with Bob Anderson, Bethany Berger and Phil Frickey), *Tribes, Land and Environment* (with Ezra Rosser), as well as articles published in the *Stanford Law Review*, *California Law Review*, *Harvard Environmental Law Review* and other journals. Professor Krakoff has worked on a variety of cases *pro bono*, including filing amicus briefs in the U.S. Supreme Court and several federal courts of appeals. When Professor Krakoff first came to the Law School, she was the Director of the American Indian Law Clinic, supervising students in federal Indian and tribal law cases and projects. She succeeded in securing permanent University funding for the Clinic before moving to non-clinical teaching in 1999. Before coming to Colorado, Professor Krakoff was awarded an Equal Justice Works Fellowship to work on the

Navajo Nation as Director of the Youth Law Project for DNA-People's Legal Services. Professor Krakoff clerked on the Ninth Circuit Court of Appeals for Judge Warren J. Ferguson from 1992-93. She received her J.D. from Boalt Hall, U.C. Berkeley, in 1991 and her B.A. from Yale University in 1986.

Jeff Lyng



Jeff Lyng is a Senior Policy Advisor with the Center for the New Energy Economy at Colorado State University which manages a Western States convening process, the Advanced Energy Legislation Tracker, the State Policy Opportunity Tracker for Clean Energy and other resources for policymakers. In previous roles Jeff was Director of Regulatory Affairs at Opower, an international energy efficiency company, and served as Renewable Energy Policy Manager in former Colorado Governor Bill Ritter's Energy Office. Before joining the Governors Energy Office, Jeff was a technical consultant at Xcel Energy on the utility's demand side management and solar programs. He has served on the boards of the Energy Services Coalition, Xcel Energy's Innovative Clean Technologies Program and is a past Board Chair of the American Solar Energy Society.

Shaun McGrath



Shaun McGrath's career in public policy has stretched across three decades and at every level of government, including local, state, federal and international. Most recently, Shaun served as the Regional Administrator of the U.S. Environmental Protection Agency for Region 8 in Denver, Colorado, under Administrator Gina McCarthy. During the first two years of the Obama Administration he was the Deputy Director for the White House Office of Intergovernmental Affairs acting as liaison between the White House and the Nation's governors. Shaun was the Mayor of Boulder, Colorado, from 2007-2009, and was elected twice to the Boulder City Council (2003 & 2005). Shaun spent 14 years with the bi-partisan Western Governors' Association as a Program Director in Denver and WGA lobbyist in D.C. He also worked in Congress as a legislative aide to Rep. Jim Slattery (D-KS). His career started in Kansas where he ran the statewide environmental group, the Kansas Natural Resource Council, followed by positions in the Kansas state government, including Trade Manager for the Kansas Department of Commerce's European Office in Stuttgart, Germany. Shaun has a Master's of Public Administration from the University of Kansas, and a Bachelor of Arts in Political Science and German from Kansas State University. He and his wife live happily in Boulder, Colorado.

Zach Miller



Zach Miller has practiced environmental, water, and natural resources law since 1980. He has broad experience before numerous state and federal agencies in disputes over, and permitting for, oil and gas operations, public land uses, National Environmental Policy Act (NEPA) compliance, water rights, water quality, air quality, hazardous substances, wetlands, pesticides, mining, mineral processing, ski areas, power projects, and related issues. He has litigated a number of complex cases in state and federal courts relating to these and other natural resource-related matters. Building on his government experience, Mr. Miller has dealt with various resource-related matters on Indian lands and with several tribal entities. He has handled numerous judicial and administrative enforcement and civil penalty actions relating to these areas. Mr. Miller's practice also includes title review and complex transactional work for water rights, mineral interests, and other real property, with an emphasis on brownfield projects and environmental audits and related transactions for mineral properties and processing facilities. He has represented clients in several of the largest water rights acquisitions and change cases in Colorado history. He has also represented developers and lenders in connection with permitting and other regulatory matters for major electric generation and solar and wind energy projects.

Prior to joining Davis Graham & Stubbs LLP in 1981, Mr. Miller served as special counsel to the Assistant Secretary for Indian Affairs and as an attorney in the Honors Program of the Solicitor, U.S. Department of the Interior, in Washington, D.C.

Elizabeth Paranhos



Elizabeth Delone Paranhos is a clean energy expert in legal and policy solutions to climate change and related environmental issues with a particular focus on reducing greenhouse gas and other air emissions from oil and natural gas activities. For the past ten years Elizabeth has advised Environmental Defense Fund on clean air and climate policies for the oil and natural gas industries across multiple jurisdictions in the U.S. and abroad. She assisted Boulder County and Broomfield County in the development of regulations for oil and gas activities in their jurisdictions. In 2014 she and Professor William Boyd of Colorado Law, formed a consulting firm, Energy Innovation Partners, in order to provide leading advice to public and private sector entities on clean energy policies and practices.

Elizabeth received a J.D. from New York University School of Law and a B.S. in Political Science from Vassar College. She was the first recipient of the Charles Koob Fellowship in Land and Water Law at the Natural Resources Defense Council where she helped secure important protections for environmentally sensitive areas and species.

Justin Pidot



Justin Pidot is an associate professor with tenure at the University of Denver Sturm College of Law, where his teaching and scholarship focus on environmental law, natural resources law, administrative law, and federal courts. He previously served as the Deputy Solicitor for Land Resources at the Department of the Interior during the Obama Administration and an appellate lawyer at the Environment and Natural Resources Division of the U.S. Department of Justice. He is a graduate of Stanford Law School and Wesleyan University. He clerked for the Honorable Judith W. Rogers of the U.S. Court of Appeals for the D.C. Circuit, and completed a fellowship at the Georgetown Environmental Law and Policy Institute.

Karin Sheldon



Karin Sheldon is President of Four Echoes Strategies, a consulting firm providing policy analysis and strategic thinking on western conservation issues. She is also an adjunct professor at the University of Colorado School of Law and a Senior Fellow of the Law School's Getches-Wilkinson Center for Natural Resources, Energy and the Environment. From 2007 to 2013 she was President of Western Resource Advocates, a regional non-profit environmental organization working to promote clean energy and protect the West's land, water and natural resources. Prior to 2007, Ms. Sheldon was Associate Dean for the Environmental Law Program, Professor of Law, and Director of the Environmental Law Center at Vermont Law School. Before joining the faculty at Vermont Law School in 1994, Ms. Sheldon was President of The Wilderness Society in Washington, D.C., a staff attorney with Earth Justice in Colorado, a partner in a public interest law firm, and

one of Ralph Nader's original "Raiders". She received her AB in Political Science from Vassar College and her J.D. from the University of Washington School of Law.

Laura Skaer

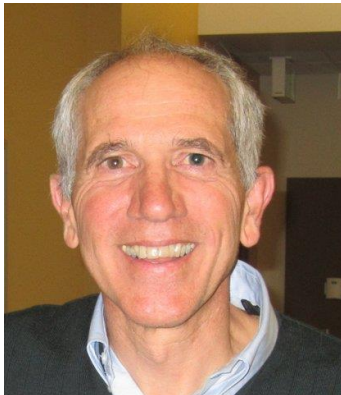


Laura Skaer is the Executive Director of the American Exploration & Mining Association (AEMA) (*formerly Northwest Mining Association*), a position she has held since December, 1996. Under her leadership, AEMA has grown to be the largest membership-based mining industry trade association in the U.S. She has established a proven track record in successfully influencing the outcome of political dialogue, in building effective working strategies with key elected officials, in developing and coordinating the industry's response to legislative and regulatory issues, in improving the industry's public image, in effectively building coalitions with other natural resource industry groups and public land users, and in galvanizing the grassroots. She is a highly respected advocate at all levels of government.

She has thirty-seven years (17 in oil & gas; 20 in mining) of management, operations, legal and government affairs experience in the natural resource industries on private and public lands throughout the west, and specifically in Nevada, Washington, Colorado, Montana, Idaho, Oregon, Nebraska, Wyoming and Missouri. She has testified numerous times before various congressional and state committees on mining, environmental, public lands, oil and gas, and national, state & local tax issues; and has spoken at numerous conventions and technical meetings.

She earned a Bachelor of Science with honors in Business Administration in 1970, and a Juris Doctor, *Cum Laude* in 1974 from the University of Missouri. She currently serves as a Trustee of the Rocky Mountain Mineral Law Foundation, is a member of the Colorado and Missouri Bar Associations, and on the advisory board of the Women's Mining Coalition.

Mark Squillace



Professor Mark Squillace joined the faculty at the University of Colorado Law School in 2005 and served as the Director of the Natural Resources Law Center there until 2013. Before joining the Colorado law faculty, Professor Squillace taught at the University of Toledo College of Law where he was named the Charles Fornoff Professor of Law and Values. Professor Squillace has also taught at the University of Wyoming College of Law, and at Wyoming he served a three-year term as the Winston S. Howard Professor of Law. He is a former Fulbright scholar and the author or co-author of numerous articles and books on natural resources and environmental law, including most recently, *Environmental Decisionmaking for the 21st Century* (2016). In 2000, Professor Squillace took a leave from law teaching to serve as Special

Assistant to the Solicitor at the U.S. Department of the Interior. In that capacity he worked directly with the Secretary of the Interior, Bruce Babbitt, on a wide range of legal and policy issues.

Senator Mark Udall



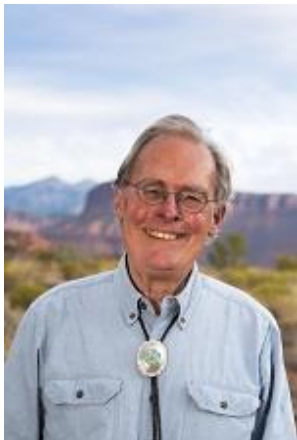
Mark Udall was elected to the U. S. Senate by the people of Colorado on Nov. 4, 2008, after representing the state's 2nd Congressional District for five terms (from 1999-2008). Prior to that, Udall served in the Colorado State Legislature as a Member of the General Assembly for one term (1997-99), representing the 13th District, which encompassed the community of Longmont and parts of southern Boulder County.

In the U.S. House of Representatives, Udall served as a member of the Armed Services Committee, the Natural Resources Committee, the Agriculture Committee, and the Small Business Committee. He was chairman of the Science and Technology Committee's Space and Aeronautics Subcommittee.

He is known for reaching across party lines to solve problems and for his willingness to work with people, including those with whom he has philosophical differences. His inclusive and bipartisan approach has led to a number of legislative achievements, including legislation to reduce wildfire risk and bark-beetle infestation, promoting the development of Colorado's aerospace industry, the high technology sector and energy resources, with particular focus on renewable energy and the so-called "Green Energy Economy." Udall also led efforts to successfully pass the James Peak Wilderness Bill and legislation transforming the Rocky Flats Nuclear Weapons facility into a wildlife refuge.

Regarded as a national leader on renewable energy, Udall has reached across the aisle to put Colorado and the country at the forefront of sustainable energy development. In 2004, he successfully co-chaired the Amendment 37 campaign to pass Colorado's first Renewable Electricity Standard (RES), which requires power companies to use more alternative energy sources.

Charles Wilkinson



Charles Wilkinson, Moses Lasky Professor of Law and Distinguished Professor at the University of Colorado, has written 14 books on law, history, and society in the American West. Co-Founder of the Center of the American West at the University of Colorado, he has served on several boards, including the Northern Lights Institute, the Wilderness Society, and the Grand Canyon Trust. Over the years, he has taken on many special assignments for Indian Tribes, States, and the US Departments of Interior, Agriculture, and Justice, including service as special counsel to Interior Secretary Bruce Babbitt for the drafting of the Presidential Proclamation, signed by President Clinton in September 1996, establishing the Grand Staircase-Escalante National Monument in Utah. In December 1997.

Professor Wilkinson has received teaching awards from his students at all three law schools where he has taught, and the Universities of Colorado and Oregon have given him their highest awards for leadership, scholarship, and teaching. In its 10-year anniversary issue, Outside Magazine named him one of 15 "People to Watch" calling him "the West's leading authority on natural resources law." His awards include the National Wildlife Federation's National Conservation Award; the Twanat Award, from the Warm Springs Tribal Museum, for dedication to Indian tribes and people; the Grand Canyon Trust's John Wesley Powell Award for extraordinary vision, passion and commitment to the Colorado Plateau; and the Federal Bar Association's Lawrence R. Baca Award for Lifetime Achievement in Indian Law.

Ezekiel Williams



Zeke Williams is an attorney, partner, and the managing director of Lewis, Bess, Williams & Weese P.C. in Denver, Colorado. He specializes in energy, oil and gas, environmental, federal lands, and natural resources law and litigation. Zeke's clients include oil and gas companies, ski areas, midstream companies, resort owners, renewable energy developers, trade associations, private equity investors, and land owners. He counsels clients throughout the United States on how to obtain, develop, operate, and defend private interests in federal lands and federal minerals for energy, resort, and other natural resources projects. Zeke helps clients obtain federal development authorizations, Forest Service special use permits, Bureau of Land Management rights-of-ways, ski area permits, federal oil and gas leases, records of decision, and environmental permits. Zeke has litigated disputes involving NEPA documents, federal land use plans, Forest Service special use permits, federal rulemakings, oil and gas leases, title issues, coal prices, net profits interests, royalty obligations, produced water processing agreements, and exploration and development agreements. Zeke has extensive counseling and litigation experience with the National Environmental Policy Act, Federal Land Policy Management Act, National Forest Management Act, Mineral Leasing Act, Endangered Species Act, National Historic Preservation Act, Clean Water Act, Administrative Procedure Act, and other laws.

Zeke is the 2017 Distinguished Natural Resources Practitioner in Residence at the University of Denver College of Law, where he also teaches Administrative Law as an adjunct professor. He frequently speaks and writes on natural resources and environmental issues. He is listed in Super Lawyers and Best Lawyers in America. He graduated with honors in 1994 from the University of Denver College of Law where he was the Articles Editor of the Law Review, and has an undergraduate degree from Montana State University. After law school, Zeke worked as a judicial law clerk for the Honorable Bobby R. Baldock of the United States Court of Appeals for the Tenth Circuit.

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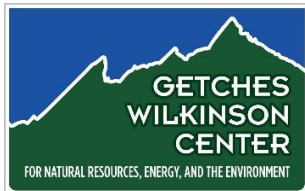
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University of Colorado Law School



Established in 1892, the University of Colorado Law School is one of the top public law schools in the United States. Colorado Law School's diverse student body is selected from among the statistically best applicants from every corner of the nation representing over 100 undergraduate institutions, and its highly published faculty is dedicated to interacting with students both inside and outside the classroom. The school's state-of-the-art green building is located at the base of the Rocky Mountains in beautiful Boulder, Colorado. With about 500 students and a low student to faculty ratio, Colorado Law School is a thriving academic community where the study of law is embraced to create leaders who recognize the civic responsibilities essential to the legal profession.

Getches-Wilkinson Center for Natural Resources, Energy, and the Environment



The Getches-Wilkinson Center for Natural Resources, Energy and the Environment continues the long-standing work of Colorado Law's Natural Resources Law Center. The newly renamed Center endeavors to serve the people of the American West, the nation, and the world through creative, interdisciplinary research, bold, inclusive teaching and innovative problem solving in order to further true sustainability for our use of the lands, waters, and environment. Major programs and initiatives focus on natural resources, water and public lands issues in Colorado and the West; energy and environmental security in the developing world; electricity regulation and energy policy; climate change law and policy; and native communities and environmental justice. The name comes from the contributions of two iconic figures in the law school's environmental law history, David Getches and Charles Wilkinson.

Upcoming Events

2017 Martz Summer Conference

Fighting Back on the Colorado River: Carving Out Progress on Multiple Fronts

June 8-9, 2017

University of Colorado Law School, Wittemyer Courtroom

More information and registration: <http://www.colorado.edu/law/research/gwc/events>

GWC Distinguished Lecture

Mary Wood, Philip H. Knight Professor, University of Oregon School of Law Faculty Director, Environmental and Natural Resources Law Center

Wednesday, September 20th

5:30 p.m.

University of Colorado Law School, Wittemyer Courtroom

More information coming soon.