***Curriculum vitae***

Michael Reisner

Augustana College

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**EDUCATION**

**Oregon State University**

* Ph.D., College of Forestry, Department of Forest Ecosystems and Society with an emphasis in ecosystem and restoration ecology, 2011
* Dissertation: Drivers of Plant Community Dynamics in Sagebrush Steppe Ecosystems: Cattle Grazing, Heat, and Water Stress
* Two-time recipient of the Starker Outstanding Graduate Student Fellowship ($5000)

**University of Oregon School of Law**

* J.D., 1997
* Concentration in environmental and natural resource law and policy

**Montana State University at Bozeman**

* B.S., Biology with an emphasis in fish and wildlife ecology and conservation, 1994 with highest honors
* Optional Senior Thesis: Implications of Global Climatic Change for Grizzly Bears in the Greater Yellowstone Ecosystem

**EXPERIENCE**

**Assistant Professor of Environmental Studies & Director of Upper Mississippi Studies Center, Augustana, College, January 2013-present**

**Assistant Professor, Natural Resources and Energy Policy & Sustainable Energy Extension Specialist, University of Wisconsin, June 2011-December 2012**

* Taught a diverse range of sustainability, environmental science, and energy and natural resource policy courses at both the undergraduate and graduate levels. These courses include:
* Led interdisciplinary team of faculty, academic staff, classified staff, administration, students, and community stakeholders in developing a Sustainable Energy Minor and Certificate Program that are accessible to students from majors across campus, as well as community professionals and stakeholders
* Chaired the Sustainability Task Force Energy Committee; leading efforts to develop an energy curtailment plan, update the greenhouse gas emissions inventory, and revise the carbon neutrality plan for campus
* Presented information regarding how to better address the social, economic, and environmental dimensions of deploying renewable energy resources to elected officials (city councils, county board of supervisors), natural resource managers, and diverse stakeholder groups

**Ecosystem Ecologist, Postdoctoral Research Position with Joint Fire Sciences SageSTEP Project, Oregon State University, Corvallis, OR, December 2010-May 2011**

* Developed and evaluated alternative multivariate hypotheses of shrub-steppe and pinyon-juniper ecosystems dynamics; identified the direct and indirect causal mechanisms driving resistance to non-native plant invasions and resilience to disturbance and environmental stress and the *relative* importance of such mechanisms using SEM and other multivariate statistics
* Used knowledge of the causal network gained by SEM to develop a conceptual predictive model of the susceptibility of these ecosystems to invasion and resilience to disturbance using Bayesian network models

**Graduate Research Assistant, College of Forestry, Department of Forest Ecosystems and Society, Oregon State University, Corvallis, OR, July 2006-November 2010**

* Developed and evaluated alternative multivariate hypotheses of shrub-steppe ecosystem dynamics; identified the direct and indirect causal mechanisms driving resistance to non-native plant invasions and resilience to livestock disturbance and environmental stress and the *relative* importance of such mechanisms using SEM and other multivariate statistics
* Used knowledge of the causal network gained by SEM to develop a conceptual predictive model of the susceptibility of these ecosystems to invasion and resilience to disturbance using Bayesian network models
* Conducted ecological research as part of an interdisciplinary project investigating the drivers of semi-arid ecosystem resilience and resistance using the Intermountain shrub-steppe ecosystems as a model system
* ***Graduate Teaching Assistant*, *Ecological Restoration*** (Spring 2008, 2009), ***Advanced Rangeland Ecology*** (Fall 2009)

**Northern Plains Resource Council, Billings, MT, May 1998-June 2006**

***Staff Attorney***

* Served as in-house counsel; practiced environmental law and advocated for the interests of a unique coalition of farmers and ranchers, small business owners, conservationists, and Native Americans
* Used existing environmental policy and regulatory frameworks and innovative partnerships among NGOs, corporations, government, and academia to solve complex and controversial sustainability challenges and achieve the organization’s objectives
* Advocated for the organization’s interests on a diverse array of environmental issues in the legislative, judicial, and executive branches at the Federal, state, and local level
* Collaborated and formed coalitions with stakeholders with diverse interests and beliefs including: individual farmers and small business owners; local, regional, and national conservation organizations; state, federal, and tribal resource management agencies; and elected officials at the local, state and federal levels
* Led a transdisciplinary effort to establish numeric water quality standards and technology-based treatment effluent limitations for coal bed methane wastewater discharges under the Clean Water Act and implementing state laws and regulations

**GRANTS AWARDED AND PROPOSALS SUBMITTED**

* Awarded Wisconsin Focus on Energy “I Can Conserve” grant; established paid undergraduate summer internships to conduct an energy efficiency and conservation audit of all public buildings in the Village of Plover, WI; identify and prioritize potential energy savings projects
* Co-collaborator on a pre-proposal submitted as an Early Career Research Collaborator ($150,000) to the United States Geological Survey Northwest Climate Science Center entitled “Do Gradients of Climate and Grazing Dictate Sagebrush Steppe Resilience to Cheatgrass in the Interior Pacific Northwest?” (not funded)

**PROFESSIONAL MEETINGS AND PRESENTATIONS**

* Reisner, M.D., P. Doescher, and D.A. Pyke. Defoliation decreases competitive ability of resident plants, alters outcomes of interactions, and increases invader success” Ecological Society of America Annual Meeting, Minneapolis, MN, August 5-10, 2013
* Reisner, M.D., P. Doescher, and D.A. Pyke. “A test of the stress gradient hypothesis: strikingly different patterns among native and non-native beneficiaries and implications for community stability,” Ecological Society of America Annual Meeting, Portland, OR, August 5-9, 2012
* Reisner, M.D., P. Doescher, and D.A. Pyke. “A test of the stress gradient hypothesis: strikingly different patterns among native and non-native beneficiaries and implications for community stability,” Ecological Society of America Annual Meeting, Portland, OR, August 5-9, 2012
* Reisner, M.D. Keynote address: “When renewables are conventional, our energy economy
will ensure sustainable development,” Midwest Renewable Energy Fair, June 16-18, 2012
* Reisner, M.D. “Update on climate change science, implications, and policy solutions,” Midwest Renewable Energy Fair, June 16-18, 2012
* Reisner, M.D. “Energy efficiency and conservation and renewable energy opportunities,” University of Wisconsin Extension Energy In-Service Course for County Extension Agents, June 15, 2012
* Reisner, M.D. “Renewable energy potential in Wisconsin: necessary policies for renewables to drive community economic development,” UWEX Iowa County, Renewable Energy Conference and Fair, April 14, 2012
* Reisner, M.D. “Our appetite for energy,” UWEX Oil and bio-diesel producers workshop, February 8, 2012
* Reisner, M.D., J. Grace, P. Doescher, and D.A. Pyke. “Multi-process control over sagebrush steppe resistance to invasion and resilience to disturbance” at a symposium on “Disturbance, Resilience, and Thresholds in Sagebrush Systems,” Society for Rangeland Management Annual Meeting, Spokane, WA, January 29-February 2, 2012
* Reisner, M.D. “Renewable energy as a driver of community and economic development,” Intercounty Coordinating Committee Meeting, December 19, 2011
* Reisner, M.D. “Sustainable energy policy overview: opportunities for community-based, distributed energy development in Wood County,” Wood County Towns Association meeting, December 2, 2011
* Reisner, M.D., J. Grace, P. Doescher, and D.A. Pyke. “Multi-process control over sagebrush steppe resistance to invasion and resilience to disturbance,” Environmental Law Conference, University of Oregon School of Law, Eugene, OR, March 3-6, 2011
* Reisner, M.D., J. Grace, P. Doescher, and D.A. Pyke. “Multi-process control of ecosystem resilience: Using structural equation modeling to gain a better understanding of causal networks,” Society for Rangeland Management Annual Meeting, Billings, MT, February 6-10, 2011
* Reisner, M.D, P. Doescher, and D.A. Pyke. “Abiotic stress, disturbance, and facilitation drive species’ abundances and community composition in Wyoming big sagebrush ecosystems,” Ecological Society of America Annual Meeting, Albuquerque, NM, August 2-8, 2009
* Reisner, M.D, P. Doescher, and D.A. Pyke. “Below-ground Gap Analysis: The characteristics of below-ground gaps in the fine roots of perennial vegetation in *Artemisia tridentata wyomingensis* communities,” Ecological Society of America Annual Meeting, Milwaukie, WI, August 3-8, 2008
* “Oil and Gas Development in the West,” Living as if Nature Mattered, Public Interest Environmental Law Conference (PIELC), University of Oregon School of Law , Eugene, OR, March 3-6, 2005
* “The Sagebrush Sea in Peril,” Living as if Nature Mattered, PIELC, University of Oregon School of Law, Eugene, OR, March 3-6, 2005
* “Update on Pending Litigation in Powder River Basin,” Coal Bed Methane on Federal & Indian Lands, Continuing Legal Education Institute of the State Bar of Montana, Billings, MT, January 28, 2005
* “Oil and Gas Leasing and Development in the Rocky Mountain West,” Public Lands Management at the Crossroads-Balancing Interests in the Twenty-First Century, National Association of Environmental Law Societies Conference, Lewis & Clark Law School, Portland, OR, March 26-28, 2005
* “Coal Bed Methane in the Intermountain West,” Rousing the Restless Majority, PIELC, University of Oregon School of Law, Eugene, OR, March 4-7, 2004
* “Impacts of Oil and Gas Development in the West,” Environmental Justice in the Global Village, PIELC, University of Oregon School of Law, Eugene, OR, March 6-9, 2003
* “Litigation in the Powder River Basin of Montana and Wyoming,” Coal Bed Methane Conference, University of Colorado Natural Resources Law Center, Denver, CO, April 4-5, 2002
* “Protecting Public Land and Water: Oil and Gas Litigation,” and “Coal Bed Methane/Tight Gas Madness,” Global CPR: Conservation, Preservation, and Restoration, PIELC, Eugene, OR, March 7-10, 2002

# PUBLICATIONS

* Reisner, M.D., J.B. Grace, D.A. Pyke, and P.D. Doescher. 2013. Conditions favouring *Bromus tectorum* dominance of endangered sagebrush steppe ecosystems. Journal of Applied Ecology, early view online available at 10.1111/1365-2664.12097
* Reisner, M.D., P. Doescher, and D.A. Pyke. (*in preparation*). A test of the stress gradient hypothesis along overlapping gradients of novel herbivory, water, and heat stress: shifts in interactions between a foundational shrub and native and non-native herbaceous species

# PROFESSIONAL ORGANIZATIONS

* Ecological Society of America, August 2007 to present
* Society for Ecological Restoration, August 2007 to present
* Society for Rangeland Management, January 2008 to present

**REVIEWER**

* Canadian Journal of Plant Sciences (2010-present)
* Journal of Environmental Earth Sciences (2010-present)
* Oikos (2013-present)