



## OGMIUS RESEARCH HIGHLIGHT

Our Research Highlight describes a new project conducted by ENVS graduate student Shawn Olson under the direction of Max Boykoff: "Power Politics: The political ecology of wind farm opposition in Wyoming". Shawn received a BA in Environmental Studies and Social Movements from The Evergreen State College. Since then, she's spent several seasons as an environmental educator



in Alaska's Wrangell Mountains and as a wilderness therapy field leader in the deserts of south-central Utah. At the University of Colorado Boulder, her focus is on the politics, history, and ideological polarizations that lead to conflicts over public lands in the American West. Shawn is the co-author of two books: *Defending Wild Washington: A Citizen's Action Guide* (Mountaineers Books, 2004) and *Community and Copper in a Wild Land* (Wrangell Mountains Center & National Park Service, 2005). This project was funded through a scholar's award from The Center to Advance Research and Teaching in the Social Sciences (CARTSS) (<http://cartss.colorado.edu>) at the University of Colorado.

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<http://sciencepolicy.colorado.edu/ogmius>

# POWER POLITICS: THE POLITICAL ECOLOGY OF WIND FARM OPPOSITION IN WYOMING

by Shawn Olson

Renewable energy is recognized nationally and globally as an important strategy for climate change mitigation, energy security, and economic development. However, due to a growing opposition movement against industrial-scale development of energies such as wind power and solar photovoltaic systems, these benefits will not be realized without further understanding of and solutions for community resistance. In the American West, utility-scale wind poses significant changes to the countryside – undeveloped open space that rural residents conceive of as central to their way of life – which could impact individuals who use surrounding landscapes in the production of livelihoods and subsistence.



*Wind farm opposition billboard.*

This project seeks to contribute to an understanding of this opposition movement with the goal of proposing conflict mitigation strategies that simultaneously aid rapid climate mitigation while empowering rural communities. This research examines social conflict over wind energy development in Wyoming and investigates claims made regarding unfair burden-benefit distribution, attachments to unindustrialized natures, and the (not insignificant) visual and physical landscape changes that are a result of utility-scale wind farms. To approach the interface of differential access to power and contestations over renewable energy development, we bring into conversation the literature of political ecology. We take for our case study the three-year battle over a 100 MW wind farm in Converse County, Wyoming, where a local opposition group has stalled the project and rallied local residents against the developer.

A webcast of Shawn's talk about this project can be viewed here: <http://cirescolorado.adobeconnect.com/p8czmro5pg7>.

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**Due to a growing opposition movement against industrial-scale development of energies such as wind power and solar photovoltaic systems, these benefits will not be realized without further understanding of and solutions for community resistance.**

# CENTER NEWS

## Max Boykoff Selected as Leopold Leadership Fellow

Max Boykoff has been selected as one of 20 Leopold Leadership Fellows for 2013. The Leopold Leadership Program, located at the Stanford Woods Institute for the Environment at Stanford University, was founded in 1998 to fill a critical gap in environmental decision-making: getting the best scientific knowledge into the hands of government, nonprofit and business leaders and the public to further the development of sustainable policies and practices.



Max is among the 20 mid-career academic environmental researchers named as fellows this year. The group was selected through a highly competitive process on the basis of their exceptional scientific qualifications, demonstrated leadership ability, and strong interest in sharing their knowledge beyond traditional academic audiences. The fellows will take part in intensive leadership and communications training designed to hone their skills in engaging with decision-makers, media, and the public. They also become part of a network of past fellows and program advisors who are working with leaders, both within and outside academe, to solve society's most pressing environmental and sustainability challenges.

Previous Leopold Leadership Fellows at the University of Colorado include Dr. Alan Townsend, Dr. Sharon Collinge, and Dr. Anne Chin. Congrats Max!!!

## CSTPR Researchers Contribute to Analysis of Southwest's Climate Future

In an era of increasing climate instability, the southwestern United States faces strained water resources, greater prevalence of tree-killing pests, and potentially significant alterations of agricultural infrastructure. These threats and challenges as well as others are detailed in the new book, "Assessment of Climate Change in the Southwest United States."



A hotter future is projected for the Southwestern United States—a region stretching from the California coast to the plains of eastern Colorado and New Mexico—and future heat and changes in precipitation will present challenges for managing natural resources, water, infrastructure and threats to human health.

The new book, "Assessment of Climate Change in the

Southwest United States," published by Island Press, is a landmark study that addresses these issues. It focuses on current climate conditions in the region, the environment of the past, what is projected to change over the 21st century and how this will impact ecosystems, water resources, agricultural production, energy supply and delivery, transportation and human health. The work includes major contributions from fourteen University of Colorado scientists, twelve of whom are part of CIRES and three from CSTPR.

A consortium of researchers from the Southwest Climate Alliance coordinated the assessment and the scientists are affiliated with the National Oceanic and Atmospheric Administration's Regional Integrated Sciences and Assessment Program and the U.S. Department of the Interior Southwest Climate Science Center. The book blends the contributions of 120 experts in climate science, economics, ecology, engineering, geography, hydrology, planning, resource management and other disciplines. The book is one of ten regional technical inputs to the 2013 National Climate Assessment released in draft form earlier this year.

"It's exciting to be part of an effort that really brought together the best possible science on climate change in the Southwest," said CIRES Associate Director for Science Kristen Averyt, who is a lead author of a chapter of the book. "We now have a clearer, fuller picture of how warmer temperatures are leading to earlier snowmelt, greater evaporation, more wildfires, and other very serious impacts affecting pretty much every square inch of our region."

Besides Averyt, Brad Udall, who is now director of the Getches-Wilkinson Center for Natural Resources, Energy and Environment, is also a lead author of a book chapter. Other CIRES scientists who contributed to chapters are Joe Barsugli, Maxwell Boykoff, Lisa Dilling, Jon Eischeid, Eric Gordon, Brant Liebmann, Jeff Lukas, Balaji Rajagopalan, Imtiaz Rangwala, William Travis, and Klaus Wolter. The work of Ami Nacu-Schmidt is also integral to the book, as she created or adapted the majority of the graphics illustrating the authors' findings.

The new book stresses the choices and opportunities available to society, in order to reduce the causes and effects of climate change in the region. It notes the steps governments, businesses, organizations and individuals are taking to improve energy efficiency, improve water supply reliability, decrease wildfire risk, and reduce greenhouse gas emissions.

"Assessment of Climate Change in the Southwest United States" is available from [www.islandpress.org](http://www.islandpress.org) and at major retailers. The Assessment website <http://www.swcarr.arizona.edu> provides access to download full book chapters, short summaries of each chapter, and all graphics developed for the book.

# CENTER NEWS

## A Conversation with James Balog on the Art of Chasing Ice

Filmmaker and adventurer James Balog shared his stirring and beautiful glacial photography revealing changes in climate on April 1 to a packed auditorium at the University of Colorado Boulder. The event, “A Conversation with James Balog on the Art of Chasing Ice,” was hosted by Earth Vision Trust and CU-Boulder’s Inside the Greenhouse, a multidimensional project that explores the nexus of environmental science and the arts and humanities. Beth Osnes, assistant professor of theatre and dance, leads Inside the Greenhouse in partnership with Max Boykoff, assistant professor in the Cooperative Institute for Research in Environmental Sciences (CIRES) and the Environmental Studies Program, and Rebecca Safran, assistant professor of ecology and evolutionary biology. All three professors work closely with Marda Kirn of EcoArts.



Inside the Greenhouse seeks to deepen the public understanding of how issues of climate change are communicated by creating artifacts— art, film, television programming— that convey climate change. The centerpiece of the project will feature highlights from the conversation with Balog and students’ creative work.

Sponsors of “The Art of Chasing Ice” include the CIRES, CU-Boulder Institute of Arctic and Alpine Research (INSTAAR) and Learn More About Climate, an initiative that seeks to extend CU-Boulder climate science expertise to educators, policymakers and citizens. Additional sponsors include the National Snow and Ice Data Center, the CU-Boulder Office for University Outreach, the CU-Boulder Environmental Center and Flatirons Bank.

## Roger Pielke, Jr. 2012 GSA Public Service Award – Citation by Daniel Sarewitz and Response

At the award ceremony (<http://www.geosociety.org/meetings/2012/PresAddr-Awards.htm#awards>) to present Roger Pielke, Jr. with the 2012 GSA Public Service Award, colleague Daniel Sarewitz of Arizona State University provided the following citation:



“The openness and integrity of science, and especially of the Earth sciences, have no stronger champion than Roger Pielke, Jr., recipient of the 2012 GSA Public Service Award. As the

relations between science and politics have become more contested and complex, Roger’s work as a scholar and public intellectual stands out for its crystalline brilliance and fearless honesty. His book *The Honest Broker* changed the way that scientists and politicians can make sense of one another. His analyses of natural hazards and energy technology have opened pragmatic new pathways for climate change policy that lead away from the gridlock of the past twenty years. His thousands of blog posts, with their phenomenally broad readership, continue to galvanize democratic dialogue about the role of science in our world. I am privileged and humbled to have Roger as a colleague, and proud of GSA for recognizing his service to science and society.”

Roger’s response follows: “While in college in the late 1980s I worked as a student assistant doing FORTRAN programming for the Atmospheric Chemistry Division at the National Center for Atmospheric Research. There I was surrounded by world-leading scientists doing research related to stratospheric ozone depletion. I remember hearing these scientists observe that policy making would be much improved if only politicians had a better understanding of science.

That set me on a path in graduate school to learn a bit about policy making before, I then thought, returning to the physical sciences.

Along the way I had a chance to go to Washington, DC, with Radford Byerly when he left a position at the University of Colorado to serve as chief of staff to Congressman George Brown, who had become chairman of the House Committee on Science and Technology. There I was surrounded by top science policy makers grappling with the early days of post-Cold War science policies.

One day after a long hearing on some complex issue, I distinctly remember sitting in a corner of Rad’s office while the top staff — including lawyers and Ph.D. scientists — observed that policy making would be much improved if only scientists had a better understanding of politics. It was that very moment that set me on a course of scholarship and practice at the messy intersection of science and politics.

Today, many of our most contested policies involve an element of the scientific or technological, and often more than that. I am firmly of the belief that science and technology matters a great deal to our ability to make good decisions, and as a consequence, experts have an obligation to participate in the political process. At the same time, how experts engage in policy and politics can lead to better or worse outcomes. Consequently, the messy intersection of science and politics is not just a fascinating area of study, but one that has important contributions to make to real-world

## CENTER NEWS

decision making.

I thank the GSA for this recognition, which of course reflects the collaboration and support of a great number of friends, colleagues and others.”

### CSTPR 10th Anniversary Panel Discussion Videos Now Online

Videos of the “Extremes: Nature, Society and Policy”, “Public Engagement in Science and Technology”, “Usable Science” and “Life after CSTPR” panel discussions at our 10th anniversary celebration are now available online (<http://sciencepolicy.colorado.edu/news/10anniversary>), along

with a video of Dr. John Holdren’s keynote address (<http://sciencepolicy.colorado.edu/news/10anniversary>).



## GRADUATE STUDENT NEWS

### Marilyn Averill

Marilyn gave a presentation titled “Courts and the Diffusion of Climate Science” at the International Studies Association Annual Conference in San Francisco this March. She also has a publication forthcoming this year: Averill, M. Insights on COP 18/CMP 8. Insights, American Society of International Law.



### Marisa McNatt

Marisa was chosen as a 2013 Climate Media Fellow for the Heinrich Boll Foundation. The goal of the Climate Media Fellowship is to familiarize US energy experts with the European and German experiences transitioning toward a low carbon economy by emphasizing the role of increased energy efficiency and renewable energy in securing economic opportunities for business and industry, and to communicate these in the US policy debate on a local, regional and national level.



### Xi Wang

Xi recently received the Albert E. Smith Emerging Scholar Award from The Center to Advance Research and Teaching in the Social Sciences (CARTSS) at the University of Colorado Boulder. The Smith Award provides support for innovative social science research on issues associated with human survival in a nuclear age.



of Renewable Portfolio Standard (RPS) Policy across the United States.” The research will examine the factors that influence the adoption of an RPS--an obligation that requires a certain percentage of electricity in a jurisdiction to come from renewable sources. Specifically, it will examine whether, where, and to what extent the public has been engaged in RPS enactment. Xi presented her work at the Dimensions of Political Ecology 2013 Conference at the University of Kentucky, Lexington, KY, on March 1, and at the Carbon Management Research Symposium, Colorado School of Mines, Golden, CO, on March 27.

### Jessica Weinkle

Jessica gave a talk titled “Model Me This: What is Florida’s hurricane risk?” on December 17, 2012, at the National Hurricane Center in Miami, FL.



Abstract: When The Riddler first appeared as a Batman villain, he was a simple fellow; so too, were his riddles. Over time, The Riddler and his game evolved, mirroring the techno-socio-political context in which Batman- and his real life fans- understand and make decisions about risk. Despite conventional wisdom about risk and insurance ratemaking, Florida’s hurricane risk is not an objective fact that exists “out there.” Today, the hurricane risk is highly dependent on the context in which it is assessed and requires societal identification, interpretation, and decision-making. Thus, perceptions of the hurricane risk have changed along with changes in science, policy, and social values. Evaluation of the social context in which decisions about risk are made brings forth questions about the role of experts in decision making about society’s risk and the use of public insurance regimes to control ‘exaggerated uncertainties’ and define acceptable hurricane risk.

The grant will contribute to Xi’s thesis research titled “Public Engagement in Renewable Energy Transitions: A Comparison

# CENTER EVENTS

## CSTPR Spring Noontime Seminar Series "New Policy Research at CU and Beyond"

CSTPR just completed its spring semester noontime seminar series. The theme of this semester's series was "New Policy Research at CU and Beyond." The talks were as follows:

- January 31, Too Hot To Touch: The Problem of High-Level Nuclear Waste by William Alley and Rosemarie Alley. View webcast: <http://cirescolorado.adobeconnect.com/p22u4b0lr1a/>
- February 21, International Efforts in the Area of Energy and Development by Morgan Bazilian, National Renewable Energy Laboratory. View webcast: <http://cirescolorado.adobeconnect.com/p1bwaq6v02l/>
- March 7, Ecohydrological Vulnerability to Changes in Climate and Land Use in the Colorado River Basin Headwaters: Implications for Water Policy and Management by Noah Molotch, Geography Department, University of Colorado Boulder. View webcast: <http://cirescolorado.adobeconnect.com/p9n2j7mzehl/>
- March 14, The Human Dimensions Of Plug-In Hybrid Electric Vehicles In Boulder by Barbara Farhar,

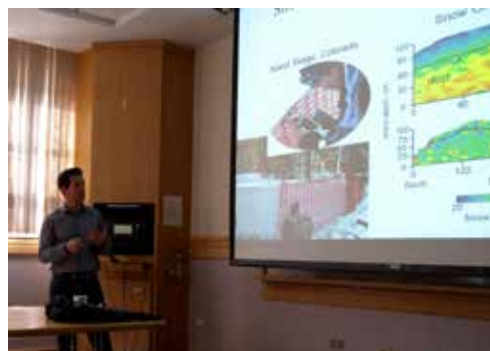
Renewable and Sustainable Energy Institute, University of Colorado Boulder. View webcast: <http://cirescolorado.adobeconnect.com/p1jp1q8kl8p/>

- April 18, Moral Jurisdiction by Benjamin Hale, Center for Science and Technology Policy Research, University of Colorado Boulder. View webcast: <http://cirescolorado.adobeconnect.com/p1krkg88kqt/>
- April 24, Power Politics: The Political Ecology of Wind Farm Opposition in Wyoming by Shawn Olson, Center for Science and Technology Policy Research, University of Colorado Boulder. View webcast: <http://cirescolorado.adobeconnect.com/p8czmro5pg7/>

The series will resume in the fall semester with a new theme. Please visit our website (<http://sciencepolicy.colorado.edu>) and add your email address to the "Join our Mailing List" box in the left hand column to receive notices of upcoming talks including links to the webcast page. A collection of webcasts can be viewed here: <http://sciencepolicy.colorado.edu/news/webinars/index.html>.



*Morgan Bazilian, February 21*



*Noah Molotch, March 7*

## OTHER CENTER PRESENTATIONS

Center faculty and graduate students presented the following posters at the annual CIRES Rendezvous May 2:

- An Agent-Centered Risk and Decision-Analytic Approach to Climate Change Adaptation. Mary Huisenga, William Travis and Katherine Clifford
- Does hurricane risk contain societal factors? Jessica Weinkle



*CIRES Rendezvous poster session.*

- The dynamics of vulnerability: Why adapting to climate variability may not always prepare us for climate change. Lisa Dilling, Meaghan Daly, Roberta Klein, Olga Wilhelmi (NCAR), William Travis
- Max Boykoff chaired a session on "Climate Governance" at the Tokyo Conference on Earth System Governance January 28-31.
- Max Boykoff was a discussant on a panel titled "Who Speaks for the Climate: Author Meets Critics" at the Association of American Geographers' Annual Meeting, Los Angeles, CA, April 9.
- Lisa Dilling (with K. Andersson, A. Ravikumar, C. Brown, and M. Holmgren) gave a talk titled "Adaptation to climate-related hazards in Colorado, Wyoming and Utah: Explaining differences in local responses" at the

## OTHER CENTER PRESENTATIONS

- American Meteorological Society Annual Meeting, Austin, TX, January 8.
- Lisa Dilling (with D. Fernandez, J. Milford, K. Kelsey, N. Barger, and J. Neff) presented a poster titled “Mapping decision zones for carbon management in the San Juan National Forest” at the 4th Annual North American Carbon Program All-Investigators Meeting, Albuquerque, NM, February 4-7.
  - Roger Pielke, Jr. discussed “The Science and Politics of Climate Change” on the NPR radio program Ideastream November 29.
  - Roger Pielke participated in a panel titled “What counts as good evidence for policy?” at London’s Institute of Physics February 4.
  - Roger Pielke gave a talk at the STEPS Annual Symposium at the University of Sussex on “Promises and paradoxes of scientific authority” February 6. A video of the talk can be viewed here: [http://www.youtube.com/watch?feature=player\\_embedded&v=VrGzlgXdlg](http://www.youtube.com/watch?feature=player_embedded&v=VrGzlgXdlg).
  - Roger Pielke, Jr. gave a talk at the Colorado Rural Electric Association’s Annual Meeting on Climate Change February 11.
  - William Travis gave an invited presentation on “Means vs. Extremes: Challenges in Adapting to a Changing Climate” at the 150th annual meeting of the National Academy of Sciences, Washington, DC, April 28.

## NEW PUBLICATIONS

**Boykoff, M. T. (2013), Public Enemy No. 1? Understanding Media Representations of Outlier Views on Climate Change. American Behavioral Scientist, March 1, [http://sciencepolicy.colorado.edu/admin/publication\\_files/2013.05.pdf](http://sciencepolicy.colorado.edu/admin/publication_files/2013.05.pdf).**

Abstract: Outlier voices—particularly those views often dubbed climate “skeptics,” “denialists,” or “contrarians”—have gained prominence and traction in mass media over time through a mix of internal workings such as journalistic norms, institutional values and practices, and external political, economic, cultural, and social factors. In this context, the article explores how and why these actors—through varied interventions and actions—garner disproportionate visibility in the public arena via mass media. It also examines how media content producers grapple with ways to represent claims makers, as well as their claims, so that they clarify rather than confuse these critical issues. Read more: [http://sciencepolicy.colorado.edu/admin/publication\\_files/2013.05.pdf](http://sciencepolicy.colorado.edu/admin/publication_files/2013.05.pdf).



**Dilling, L., R. Birdsey, and Y. Pan (2013), Chapter 18: Opportunities and Challenges for Carbon Management on U.S. Public Lands. Invited Contribution for Land Use and the Carbon Cycle: Science and Applications in Human and Environment Interactions. Robinson, Brown, French and Reed, Eds. Cambridge University Press.**

**O’Neill, S. J., M. Boykoff, S. Niemeyer, and S. A. Day (2013), On the use of imagery for climate change engagement. Global Environmental Change, [http://sciencepolicy.colorado.edu/admin/publication\\_files/2013.02.pdf](http://sciencepolicy.colorado.edu/admin/publication_files/2013.02.pdf).**

Abstract: This article answers calls from scholars to attend to a research gap



concerning the visual representation of climate change. We present results from three Q-methodology workshops held in Melbourne (Australia), Norwich (UK) and Boulder (USA) investigating engagement with climate change imagery drawn from mass media sources. Read more: [http://sciencepolicy.colorado.edu/admin/publication\\_files/2013.02.pdf](http://sciencepolicy.colorado.edu/admin/publication_files/2013.02.pdf).

**Pielke, Jr., R. A. (2013), How can FIFA be held accountable? Sport Management Review, [http://sciencepolicy.colorado.edu/admin/publication\\_files/2013.01.pdf](http://sciencepolicy.colorado.edu/admin/publication_files/2013.01.pdf).**

Abstract: The Fédération Internationale de Football Association, or FIFA, is a non-governmental organization located in Switzerland that is responsible for overseeing the quadrennial World Cup football (soccer) competition in addition to its jurisdiction over other various international competitions and aspects of international football. The organization, long accused of corruption, has in recent years been increasingly criticized by observers and stakeholders for its lack of transparency and accountability. In 2011 FIFA initiated a governance reform process which will come to a close in May 2013. This paper draws on literature in the field of international relations to ask and answer the question: how can FIFA be held accountable? Read more: [http://sciencepolicy.colorado.edu/admin/publication\\_files/2013.01.pdf](http://sciencepolicy.colorado.edu/admin/publication_files/2013.01.pdf).



**Pielke, Jr., R. A. (2013), Dear Expert, Please Cook the Books. Wall Street Journal January 29, [http://sciencepolicy.colorado.edu/admin/publication\\_files/2013.03.pdf](http://sciencepolicy.colorado.edu/admin/publication_files/2013.03.pdf).**

Excerpt: Last week the Greek government brought charges against Andreas Georgiou, the head of its independent



statistical agency Elstat, and two of his colleagues for allegedly overstating the country's 2009 debt. The debt calculations were a critical factor in characterizing the magnitude of the nation's financial crisis and the subsequent responses by the European Union and the International Monetary Fund. For his part, Mr. Georgiou complained after the investigation began: "I am being prosecuted for not cooking the books." By contrast, Greek politicians have argued that the statistical agency was working counter to national interests. One politician said that Elstat was "too focused on the numbers and not enough on serving the country and the government." This situation is but one of a growing number of recent conflicts found where expertise meets politics. Read more: [http://sciencepolicy.colorado.edu/admin/publication\\_files/2013.03.pdf](http://sciencepolicy.colorado.edu/admin/publication_files/2013.03.pdf).

**Pielke, Jr., R. A. (2013), Letter from America: a memo to chief scientific adviser Sir Mark Walport. The Guardian, April 15, [http://sciencepolicy.colorado.edu/admin/publication\\_files/2013.06.pdf](http://sciencepolicy.colorado.edu/admin/publication_files/2013.06.pdf).**

Excerpt: Congratulations Dr Walport on your appointment as the UK government's chief scientific adviser. You join a select group. Since the position of chief science adviser was established in the US in 1957 and in the UK in 1964, fewer than 30 men (yes, all men) have occupied the position. Today across Europe, only Ireland, the Czech Republic and the European Commission have formal equivalents, which also exist in Australia, New Zealand, and soon perhaps in Japan and at the United Nations.



In the United States, the science adviser is an assistant to the president with the formal title of Director of the Office of Science and Technology Policy. All US science advisers (except notably the first, James Killian, who had a background in public administration) have been trained in some area of physics, reflecting the cold war origins of the position.

Since 2005, the Centre for Science and Technology Policy Research at the University of Colorado has brought to our campus presidential science advisers, spanning the administrations of John F Kennedy to Barack Obama. Let me distil what I consider to be a few of the most relevant insights from their experiences. Read more: <http://www.csap.cam.ac.uk/media/uploads/files/1/fdsaw.pdf>.

**Pielke, Jr., R. A. (2013), Why Monbiot's attack on Walport misses the mark, The Guardian, April 30, <http://www.guardian.co.uk/science/political-science/2013/apr/30/science-policy1>.**

Excerpt: George Monbiot pulled no punches in his piece yesterday on Sir Mark Walport, the newly appointed UK government chief scientific adviser (GCSA). Responding to Walport's recent Financial Times article on bees and neonicotinoid pesticides, Monbiot accused him of writing a "concatenation



of gibberish", and of deploying "the kind of groundless moral blackmail frequently used by industry-funded astroturf campaigns" He concluded that:

"Less than a month into the job, Sir Mark Walport has misinformed the public about the scientific method, risk and uncertainty. He has made groundless, unscientific and emotionally manipulative claims. He has indulged in scaremongering and wild exaggeration in support of the government's position."

Do tell us how you really feel, George.

Read more: <http://www.guardian.co.uk/science/political-science/2013/apr/30/science-policy1>.

**Pielke, Jr., R. A. (2013), No, Europe's ETS definitely doesn't work. Lowy Institute for International Policy, The Interpreter, April 30, <http://www.lowyinterpreter.org/post/2013/04/30/No-Europes-definitely-doesnt-work.aspx>.**

Excerpt: After the European parliament voted down a proposal to prop up its flagship emissions trading scheme (ETS), most observers finally admitted what has been obvious for a while: the program is contributing little to accelerating the decarbonisation of the European economy. However, a few eternal but confused optimists see the program as working just fine. Here are a few thoughts in response to that bit of push-back. Read more: <http://www.lowyinterpreter.org/post/2013/04/30/No-Europes-definitely-doesnt-work.aspx>.



**Sarewitz, D. and R.A. Pielke, Jr. (2013), Learning to Live With Fossil Fuels, The Atlantic, May, <http://www.theatlantic.com/magazine/archive/2013/05/learning-to-live-with-fossil-fuels/309295>.**

Excerpt: Today, more than 85 percent of the world's energy still comes from fossil fuels. Despite centuries of growing use, these fuels remain abundant. Powerful economic and political interests are organized around the fossil-energy system, as are complex social arrangements (consider, for example, the dependence of rapidly expanding cities on conventional electrical grids).



These realities have made a mockery of the 20-plus years of international efforts to wean the world off oil, coal, and natural gas. That doesn't mean we should stop trying; when it comes to climate-change mitigation, a shift to carbon-free energy remains the Platonic ideal. Yet it is past time to acknowledge that on any given day, "Drill, baby, drill!" is in fact a highly effective strategy for continuing to deliver the many benefits of cheap energy.

As a result, it's also past time to explore more seriously a



parallel path to reducing greenhouse gases—one focused not on moving off fossil fuels, but on capturing the carbon that these fuels emit... Read more: <http://www.theatlantic.com/magazine/archive/2013/05/learning-to-live-with-fossil-fuels/309295>.

**Assessment of Climate Change in the Southwest United States**, <http://www.swcarr.arizona.edu>.

Excerpt: A hotter future is projected for the Southwestern United States—a region stretching from the California coast to the plains of eastern Colorado and New Mexico—and

future heat and changes in precipitation will present challenges for managing natural resources, water, infrastructure and threats to human health. Read more about this report on page 3 of our *Center News* section. Download the full pdf: <http://www.swcarr.arizona.edu>.



## S&T OPPORTUNITIES

### The Alaska Center for Climate Assessment and Policy Program Manager

The Alaska Center for Climate Assessment and Policy is seeking a highly skilled and energetic program manager. The person in this position will be the lead point of contact for ACCAP from both science and stakeholder communities in a dynamic and collaborative work environment. For more information: <https://www.uakjobs.com/applicants/jsp/shared/frameset/Frameset.jsp?time=1367439496160>.



### Bard Center for Environmental Policy Environmental Science - Visiting Scientist, Fall 2013

The Bard Center for Environmental Policy has an opening for a visiting scientist to teach a fall semester course in environmental science in our MS in Environmental Policy Program. The successful candidate will have a demonstrated record of excellence in teaching. Ph.D preferred, ABD considered. For more information about the program, please visit [www.bard.edu/cep](http://www.bard.edu/cep). To apply, please send cover letter, CV, writing sample (no more than 25 pp.), and names and contact information for three references to <https://secure.interfolio.com/apply/21518>. Applications will be reviewed as received. Bard College is an equal opportunity employer, and we welcome applications from those who contribute to our diversity.

### Bard Center for Environmental Policy Climate and Climate Change Science - Visiting Environmental Scientist, Fall 2013

The Bard Center for Environmental Policy has an opening for a visiting Environmental Scientist to teach an annual

fall semester course in climate and climate change science in our MS in Climate Science and Policy Program. For more information about the program, please visit [www.bard.edu/cep](http://www.bard.edu/cep). The successful candidate will have a demonstrated record of excellence in teaching. Ph.D preferred, ABD considered. To apply, please send cover letter, CV, writing sample (no more than 25 pp.), and names and contact information for three references to <https://secure.interfolio.com/apply/21472>. Applications will be reviewed as received. Bard College is an equal opportunity employer, and we welcome applications from those who contribute to our diversity.

### Environmental Defense Fund Post-doc Fellowships

The Offices of the Chief Scientist and Chief Economist seek two recent Ph.D. recipients — one with expertise in environmental science, the other in environmental economics — for two-year High Meadows Post-Doctoral Fellowships. The Fellows will work collaboratively with other EDF scientists, economists, and program experts to help develop and advocate science-based, economically sound environmental policies. Each Fellow will work in a focus area, suited to their background and interests, from the range of EDF program work: climate, energy, oceans, freshwater and terrestrial ecosystems, and human health. For more

## S&T OPPORTUNITIES

information: [http://www.edf.org/jobs/high-meadows-post-doctoral-science-fellow?utm\\_source=feedburner&utm\\_medium=feed&utm\\_campaign=Feed%3A+EDFjobs+\(EDF.org+-+Jobs\)](http://www.edf.org/jobs/high-meadows-post-doctoral-science-fellow?utm_source=feedburner&utm_medium=feed&utm_campaign=Feed%3A+EDFjobs+(EDF.org+-+Jobs)).

### Paul Smith's College of Arts and Sciences Assistant Professor of Environmental Studies

Paul Smith's College of Arts and Sciences is seeking applicants for a full-time Assistant Professor of Environmental Studies. The School of Commercial, Applied and Liberal Arts is seeking qualified candidates who are effective teachers and researchers in Environmental Studies and related disciplines emphasizing the social sciences such as Political Ecology, Human Geography, Political Science, Social Ecology, Sociology, Ecological Economics, or some combination of these fields. For more information: <http://www.paulsmiths.edu/offices/hr/jobs/2013%20CALA%20Environmental%20Studies%20Faculty%202.15.pdf>.

### Two-Year Position in Environmental Studies

The University of Minnesota, Morris seeks an individual committed to excellence in undergraduate education to fill a temporary, two-year position in environmental studies, beginning August 12, 2013. We are especially interested in applicants who have broad interdisciplinary training that spans the social sciences and humanities, including in environmental philosophy, and who can enhance our growing environmental studies major. Responsibilities include a six-course (24-credit) teaching load per year, including an introductory environmental problems and policy course, which is integral to both environmental studies

and environmental science majors, and additional lower- and upper-division course in area(s) of expertise. Additional duties may include: advising undergraduates, pursuing a research program that may involve undergraduates, and sharing in the governance and advancement of the environmental studies program, the candidate's home discipline, and the campus at large. For more information: <http://enviroethics.org/2013/03/27/job-two-year-position-in-environmental-studies>.

### Postdoc, Agrarian and Environmental Studies, The Hague (Netherlands)

The International Institute of Social Studies (ISS) is a leading academic centre for international development studies, and a University Institute of Erasmus University Rotterdam (EUR). It is one of the oldest institutes in this field, having been established in 1952 by Dutch universities and the Netherlands Ministry of Education as a postgraduate institute for research, education and capacity building. The institute offers a PhD in Development Studies, a 15.5-month MA in Development studies with five Majors, and several post-graduate Diploma courses. Students come from over 50-60 countries. The Staff Group Rural Development, Environment and Population Studies has a vacancy (1.0 FTE) for a Postdoctoral researcher (18 months) in the field of: Agrarian and Environmental Studies (AES). For more information: <http://enviroethics.org/2013/03/29/job-postdoc-agrarian-and-environmental-studies-the-hague-netherlands>.

Be sure to check our jobs page: (<http://sciencepolicy.colorado.edu/students/jobs.html>) for other opportunities.

## S&T NEWS

### AGU Science Policy Conference 24 – 26 June 2013, Washington, DC

Save the Date! The 2013 AGU Science Policy Conference will be held from 24 – 26 June at the Walter E. Washington

Convention Center in Washington, DC. Join the mailing list (<http://spc.agu.org/2013/mailling-list>) to receive more information and updates about the conference.

### NEW CSTPR VIDEO

#### Promises and Paradoxes of Scientific Authority

Roger Pielke, Jr. at the 2013 STEPS Centre Symposium "Credibility Across Cultures: expertise, uncertainty and the global politics of scientific advice".

[http://www.youtube.com/watch?feature=player\\_embedded&v=VrGIzlgXdlg](http://www.youtube.com/watch?feature=player_embedded&v=VrGIzlgXdlg)



## Science and Technology Policy Programs

### Graduate Certificate in Science & Technology Policy University of Colorado Boulder

Society has a growing need for expertise in science and technology policy. The Graduate Certificate in Science and Technology Policy at the University of Colorado-Boulder, which is being offered in a parallel form at the Colorado School of Mines, is a rigorous educational program to prepare students pursuing graduate degrees for careers at the interface of science, technology, and decision making. Website: <http://sciencepolicy.colorado.edu/stcert>.

### Professional Science Master's in Science & Technology Policy Arizona State University

A one-year, 30-credit program, designed explicitly for students who want to pursue professional careers at the

interface of science, technology, business, regulation, and society. Available in Tempe, AZ, or Washington, D.C. Nationally recognized faculty. Students pursue applied, real-world projects and internships at companies and government agencies around the U.S. and the world. Immersive capstone experience in Washington, D.C. Offered by the #1 science and technology think tank at a U.S. university. Website: <http://sciencepolicy.asu.edu>.

### Science, Technology, and Public Policy University of Michigan

In the Science, Technology, and Public Policy (STPP) Graduate Certificate Program, students explore the politics and policy related to science and technology. The program provides students with tools to analyze complex science and technology policy issues. Website: <http://stpp.fordschool.umich.edu/graduate-certificate/index.php>.

## ABOUT US

Ogmios is the newsletter of the Center for Science and Technology Policy Research. The Center is within the Cooperative Institute for Research in Environmental Sciences (CIRES) at the University of Colorado-Boulder. The mission of CIRES, which was established in 1967, is to act as a national resource for multidisciplinary research and education in the environmental sciences. CIRES is jointly sponsored by the University of Colorado-Boulder and the National Oceanic and Atmospheric Administration.

On-Line Version:

<http://sciencepolicy.colorado.edu/ogmios>

Online Version: ISSN 1936 - 9921

Print Version: ISSN 1936 - 9913



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