

9th Annual

ARE DAY

American Renewable Energy Day™

August 16 - 20, 2012

Aspen, Colorado

Leadership for America's Energy Future



“...the Federal Government can and should lead by example when it comes to creating innovative ways to reduce greenhouse gas emissions, increase energy efficiency, conserve water, reduce waste, and use environmentally-responsible products and technologies.”

– President Obama
OCTOBER 2009



Welcome to the 9th annual American Renewable Energy Day Summit, Expo, and Film Festival, "Leadership for America's Energy Future: A National Conversation."

Now is the time for leadership.

2012 is a year for critical leadership on energy solutions locally, regionally, and nationally. In November we will be electing a President, members of Congress, and local leaders. The nexus of energy, water, and climate is incumbent upon us. The month of July has been the warmest month in American recorded history and with a severe drought gripping the nation, there has never been a more urgent need to advance renewable energy. We ask our presenters and participants to step up to the task of identifying and addressing what must be done in order to facilitate a transition from fossil fuels to clean technology.

This year can be a turning point. We ask all of you to embrace the challenge of providing individual and collective leadership necessary to take our nation onto a sustainable path forward.

AREDAY is a project of the American Renewable Energy Institute - AREI, Inc.


Chip Comins
 Chairman, AREI


Ginna Kelly
 VP & General Counsel, AREI


Sally Ranney
 President, AREI

Thursday, August 16, 2012

11:30 am Armchair Conversation & Luncheon: Leadership for America's Energy Future
 Amory Lovins *Rocky Mountain Institute*
 Thomas L. Friedman *Author*
Moderator: Chip Comins *AREDAY*
 At the Aspen District Theater, Aspen High School
 (In Partnership with Aspen Business Luncheon \$40 Tickets at the door.)

Friday, August 17, 2012

5:30 pm Keynote Address: Reinventing Fire
 Amory Lovins *Rocky Mountain Institute*

6:15 pm Community Office for Resource Efficiency: 14 Years of Implementing Sustainability
 Bill Stirling *Founder of CORE, Former Aspen Mayor*
 Joani Matranga *Governor's Energy Office*
 Mona Newton *CORE Director*

6:45 pm Keynote Address: Leadership to Advance a Clean Energy Economy
 Bill Ritter *Former Governor Colorado*

7:00 pm The Role of Natural Gas in a Clean Energy Economy
Moderator: Jackie Francis *Aspen Strategy Center*
 Carl Pope *Sierra Club*
 Bill Ritter *Former Governor Colorado*
 Jack Grynberg *Grynberg Petroleum Company*
 Gail Schwartz *Colorado State Senator*
 Donald Smith *Smith Cogeneration*

Saturday, August 18, 2012

7:30 am Continental Breakfast

8:00 am Opening Prayer & Blessing
 Rev. Jane Keener-Quiat *Aspen Community Church*

8:15 am AREDAY 2012 Welcome
 Chip Comins *AREDAY*

8:30 am Keynote Remarks: Principles of Nature as Economic Solutions
 Hunter Lovins *Natural Capitalism Solutions*

8:45 am Keynote Remarks: Renewable Energy in the Military
 Vice Admiral Dennis McGinn *ACORE*

9:00 am Keynote Remarks: Leadership for America's Energy Future
 General Wesley Clark *Growth Energy*

9:15 am Leadership, National Security & Renewable Energy
Moderator: David Orr *Oberlin College*
 General Wesley Clark *Former Supreme Allied Commander*
 Vice Admiral Dennis McGinn *ACORE*
 Jonathan Powers *White House Council on Environmental Quality*
 Jon Gensler *The Truman Project*
 Hunter Lovins *Natural Capitalism Solutions*

10:00 am Keynote Remarks: Investments in Renewable Energy
 Secretary Vilsack *USDA* (video address)

10:05 am Break

10:15 am Wind Power: Base Load or Peak Energy?
Moderator: Larry Flowers *American Wind Energy Association*
 John Calaway *Pattern Energy*
 Michael Haas *Orion Energy*
 Edward Zaelke *AWEA*
 Tom Darin *AWEA*

11:00 am Energy Access for All
Moderator: Chip Comins *AREDAY*
 Aimee Christensen *UN Secretary-General's High-level Group on Sustainable Energy For All*
 Jennifer Butte-Dahl *Nokero*
 Dan Schnitzer *Earthspark*
 Bob Gough *Native Wind*

11:45 am The Critical Importance of Ocean Health
Moderator: Chip Comins *AREDAY*
 Dr. Andrea Neal *Blue Ocean Science*

12:15 pm Luncheon

12:30 pm Go Big or Go Home! The Billion Dollar Solution: Wall Street to Main Street
Moderator: David Hiller *Colorado Renewable Energy Collaboratory*
 Rod Eckhart *Round Rock Partners*
 Jigar Shah *Carbon War Room*
 Joel Serface *Clean Range Ventures*
 Bryan Martel *Environmental Capital Group*

Leadership for America's Energy Future

- 1:15 pm** **Keynote Remarks: Saving All Life on Earth**
Larry Schweiger *National Wildlife Federation*
- 1:30 pm** **Keynote Remarks: Conservation & Carbon**
Dick Dolan *American Prairie Reserve*
- 1:45 pm** **Women's Leadership and Climate Solutions**
Moderator: Sally Ranney *AREI*
Julienne Stroeve *National Snow & Ice Data Center*
Aimee Christensen *Christensen Global*
Kelly Rigg *Tck Tck Tck*
Mariel Hemingway *Actress*
Hunter Lovins *Natural Capital Solutions*
- 2:30 pm** **Keynote Remarks: Why We Need Cheap Oil to Protect the Environment and Climate**
Carl Pope *Sierra Club*
- 2:45 pm** **Keynote Remarks: Climate and the Law**
Trip Van Noppen *EarthJustice*
- 3:00 pm** **Break**
- 3:45 pm** **Wise Policy for the Smart Grid**
Duncan Campbell *Living Dialogues LLC*
Jim Turner *National Institute for Science, Law & Public Policy*
Camilla Rees *ElectromagneticHealth.org*
Dr. Tim Schoechle *Smarthome Labs, Ltd.*
- 4:30 pm** **Lessons Learned from Rio**
Moderator: Sally Ranney *AREI*
Aimee Christensen *Christensen Global*
Jigar Shah *Carbon War Room*
Kelly Rigg *Tck, Tck, Tck*
Bill Becker *Presidential Climate Action Project*
- 5:15 pm** **Closing Remarks**
Chip Comins and Sally Ranney *AREDAY*
- 8:00 pm** **Gala Reception: Keynote Address by Mariel Hemingway & Gen. Wesley Clark to receive the "AREDAY Leadership Award"**
(To benefit AREDAY and Climb for Conservation, Inc. Space is limited. Registered Gala Ticket Holders Only)
- Sunday, August 19, 2012**
- 7:30 am** **Continental Breakfast**
- 8:00 am** **Opening Prayer & Blessing**
Rev. Jane Keener-Quiat *Aspen Community Church*
- 8:15 am** **Introductory Remarks**
Chip Comins and Ginna Kelly *AREDAY*
- 8:30 am** **Keynote Remarks: Native Sustainable Solutions**
Bob Gough *Native Energy*
- 8:45 am** **Keynote Remarks: Update from Sturman Industries**
Eddie Sturman *Sturman Industries*
- 9:00 am** **Keynote Remarks: Time for Plan B**
Lester Brown *Earth Policy Institute*
- 9:45 am** **Keynote Remarks: Down to the Climate Wire**
David Orr *Oberlin College*
- 10:00 am** **Break**
- 10:15 am** **A New Environmental Ethic**
Moderator: Larry Schweiger *National Wildlife Federation*
Rev. Richard Cizik *New Evangelical Part. for the Common Good*
Rev. Jane Keener-Quiat *Aspen Community Church*
David Orr *Oberlin College*
Robin Hoagland *Christian Science Public Practice*
- 11:00 am** **African Renewable Energy and Conservation**
Moderator: Michael Bowman *25 x 25*
Eli Weiss *Wildize*
Doug Vilsack *Elephant Energy*
- 11:30 am** **Local Leadership in Sustainable Energy**
Moderator: Bill Stirling *Former Mayor of Aspen*
Mike McDill *City of Aspen*
Mona Newton *CORE Director*
Sloan Shoemaker *Wilderness Workshop*
Chris Lane *ACES*
- 12:15 pm** **Luncheon**
- 12:30 pm** **Keynote Remarks: Cassava - Miracle Biofuel from Africa**
Jack Grynburg *Grynburg Petroleum*
- 12:45 pm** **Keynote Remarks: An Economy that Works: West Coast Clean Economy**
Cylvia Hayes *3Estrategies*
- 1:00 pm** **Local Food Production**
Moderator: Lisa Houston *Edible Aspen*
Woody Tasch *Slow Money*
Brook LeVan *Sustainable Settings*
Mariel Hemingway *Willing Way Ranch*
Eden Vardy *Aspen Tree*
- 1:45 pm** **Solar Energy NOW**
Moderator: Sally Ranney *AREDAY*
Susan Greene *American Solar Energy Society*
Johnny Weiss *Solar Energy International*
Jennifer Butte-Dahl *Nokero*
Paul Spencer *Clean Energy Collective*
- 2:30 pm** **Armchair Conservation: Watershed**
with Jamie Redford
Moderator: Chip Comins *AREDAY*
- 2:45 pm** **Water & the West**
Moderator: Jim Calaway *Aspen Institute*
Brad Udall *NOAA Water Assessment*
Jamie Redford *Filmmaker*
Peter McBride *Photographer*
Kevin Patrick *Attorney*
- 3:30 pm** **Athletes for the Earth**
Moderator: Tara Sheehan *Conscious Global Leadership*
Chris Klug *Olympic Snowboarder*
Leilani Munter *Race Car Driver*
Jake Norton *Mt. Everest Mountaineer*
Phil Powers *American Alpine Club*
- 4:15 pm** **Armchair Conversation: Patagonia: Organic Solutions - Weed Goats**
Casey Sheehan *Patagonia*
Mark Harbaugh *Patagonia*
- 4:45 am** **Keynote Remarks: Down to the Climate Wire**
David Orr *Oberlin College*
- 5:00 pm** **Closing Remarks**
Chip Comins, Sally Ranney & Ginna Kelly *AREDAY*
- 7:00 pm** **Special AREDAY Benefit Concert: Taj Mahal and the Phantom Blues Band**
Introduction by Gen. Wesley Clark
Wagner Park

* Agenda subject to change.



William Becker

Senior Associate at Natural Capitalism Solutions and Third Generation Environmentalism, specializes in energy and climate policy. He is founder and co-director of The Future We Want, collaborating with the United Nations to conduct a global conversation about sustainable development and its effect on communities worldwide. He is Executive Director of the National Sustainable Communities Coalition and Executive Director of the Presidential Climate Action Project, which has developed recommendations for presidential candidates and the Obama Administration since 2007. Bill spent 15 years at the U.S. Department of Energy. He has specialized throughout his career in helping communities practice sustainable development, including "green" recovery from natural disasters. He led or participated on expert teams deployed to New Orleans after Hurricane Katrina in 2005 and Thailand after the 2004 tsunami, and to Beijing to help "green" the Olympic Village for the 2008 Olympic Games.



Michael Bowman

National Steering Committee Member for "25x25", is a fifth-generation native of Colorado and a founding member of the Sustainable Biodiesel Alliance. He has served as a board member of the Colorado Conservation Voters, chaired Colorado's New Energy Future and was co-chair of Governor-elect Bill Ritter's energy transition team. He served as a steering committee member for Colorado's Climate Action Plan focusing on agriculture and Colorado's rural communities in a low-carbon future. Michael is a graduate of the Colorado Agriculture and Rural Leadership program, was a "Next Generation Fellow" in Columbia University's American Assembly and a 2008 recipient of Gamma Sigma Delta's "Significant Achievement in Agricultural Award" by Colorado State University.



Lester R. Brown

Founder and President, Earth Policy Institute, a non-profit environmental research organization based in Washington, D.C., is described by the Washington Post as "one of the world's most influential thinkers." During a career that started with tomato farming, Brown has been awarded twenty-five honorary degrees and has authored or co-authored over fifty books. One of the world's most widely published authors, with books translated into some forty languages, Brown's most recent offering is entitled *World on the Edge: How to Prevent Environmental and Economic Collapse*. He is a MacArthur Fellow and the recipient of many prizes and awards. In 1985, the Library of Congress requested his personal papers, noting that his writings and work had "already strongly affected thinking about problems of world population and resources."



Jennifer Butte-Dahl

Head of Alliances and the Bright Future Fund at Nokero International Ltd, a social enterprise which designs and manufactures solar technologies for communities living without access to electricity, she has 15+ years of experience working in the government, private, and non-profit sectors, as well as the space in-between. Prior to joining Nokero, Jen spent six years with the U.S. Department of State, serving most recently as a Senior Advisor to the Deputy Secretary. She is an Advisor to the Global Human Development Program at Georgetown University and lectures on the U.S. Government and the practice of U.S. foreign policy in Seattle, WA. Jen has a BS in Management from Purdue University and an MS in Foreign Policy and International Security from Georgetown.



Jim Calaway

Chairman of the Board of the Lifetime Trustees at The Aspen Institute, is a philanthropist-businessman who resides in Carbondale, Colorado. He served as the Chair of the Aspen Institute's Society of Fellows before he became a trustee in 1997. In 2000, he was selected as an Honorary Trustee, and was later appointed to the Council of Honorary Trustees after its creation this year. In the oil and gas exploration business for over 40 years, he retired as Chairman of Edge Petroleum in the late 1980s. He now partners with his son in building wind farms in several states. Since retirement, Mr. Calaway has set his sights on philanthropy and fundraising for civic groups and non-profit organizations, having served as a regent of the University of Corpus Christi, a trustee of Antioch College, and a board member of the Colorado Mountain College Foundation.



John Calaway

Director of Wind Development, oversees the origination and development of Pattern's wind energy projects. He has established the use of 3D imaging for prospecting and the use of radar and other technologies for reducing the environmental impact of wind projects. In 2011, he received the Andy Linehan Environmental Excellence Award from AWEA for his pioneering use of radar and also served on the Board of Directors for 2 years. Before forming Pattern, he was Chief Development Officer at Babcock & Brown's North American Infrastructure Group. John has over ten years of experience in wind development and 32 years of energy prospect origination and development experience. He founded, served as CEO, and successfully grown two energy development companies: Edge Petroleum and Superior Renewable Energy. John is an accomplished artist and musician. He and wife Laura have four children.



Duncan Campbell, Esq.

Host, Living Dialogues radio program, is a visionary thinker on sustainability, and investor in new energy technologies. Part of Duncan's unique background is his ability to successfully bring the lessons of evolutionary consciousness into the practical world of business and environmental green energy concerns. He has been acknowledged as "a widely recognized thinker with a commanding knowledge of the most important issues of the day", including the importance of co-creative dialogue for transformational change and the pressing societal need for the democratization of the energy economy. Previously he was a leading entrepreneurial lawyer, pioneering computer and high tech law in the Rocky Mountain Region and serving as chair on the first Colorado Governor's High Tech Committee. He holds degrees from Yale College and Harvard Law School.



Aimée Christensen

Special Adviser to the UN Secretary-General's High-Level Group on Sustainable Energy For All with three complementary goals by 2030: doubling renewable energy and energy efficiency, and ensuring universal access to modern energy services. As **CEO of Christensen Global Strategies**, she advises clients addressing climate change, ecosystem degradation, and resource scarcity, including the Clinton Global Initiative, Duke Energy, Microsoft, Ogilvy, Rockefeller Brothers Fund, Swiss Re, The Elders, U.N. Development Program, and the U.S. Department of Energy. She has two decades' experience in policy, law, advocacy, and philanthropy including with Google.org, World Bank, Baker & McKenzie, and the U.S. Department of Energy where she drafted the first bilateral and regional climate change accords. She is the 2011 Hillary Institute for International Leadership Laureate for exceptional leadership on Climate Change Solutions and is a 2010 Aspen Institute Catto Fellow. She attended Smith College (BA) and Stanford Law School (JD).



Richard Cizik

President, New Evangelical Partnership for the Common Good (www.newevangelicalpartnership.org). Since 2002, when he attended the Oxford Conference on Climate Change, Cizik has been a passionate advocate for renewable energy and a sustainable future based upon biblical teachings. The Evangelical Climate Initiative and the Scientist-Evangelical "Call to Action" reflect his views on these topics. In 2008, Cizik was named to the "Time 100" list; from 2009-2010, he was a Fellow of the Open Society Institute.



General Wesley K. Clark

Co-Chair of Growth Energy, is former NATO Supreme Allied Commander and presently serves as Chairman and CEO of Wesley K. Clark & Associates. He is Chairman of Rodman & Renshaw, Chairman of Emergya Wind Technologies Americas, member of the Clinton Global Initiative's Energy & Climate Change Advisory Board, and is a member of ACORE's Advisory Board. Author of three books including the best seller *Waging Modern War: Bosnia, Kosovo and the Future of Combat*. In 2003, Clark was a Democratic candidate for President of the United States. Graduating first in his class at West Point; he was a Rhodes Scholar at Oxford University. Awards include the Presidential Medal of Freedom, Defense Distinguished Service Medal (five awards), silver star, bronze star, purple heart, honorary knighthoods from the British and Dutch governments, and others.



Chip Comins

Founder and Chairman of the American Renewable Energy Institute ("AREI"), produces the annual AREDAY Summit, EXPO, Film Festival, ACELI program and year-round speaker series. Chip is also Managing Director of American Spirit Productions. He is Co-Founder and Producer of *The Green Girl Minute*, an online environmental news production, and in 2009, Chip served as the National Coordinating Producer of Clean Energy Week in Washington, D.C. and produced Native Wind Powering America PSA that debuted at the Clinton Global Initiative and was broadcast nationally and internationally. In 2009 he produced thirteen side events at the UNFCCC COP 15 in Copenhagen and is a founding partner of the World Climate Summit at COP 16 in Cancun Mexico. Comins believes in the vigorous engagement of the capital markets to solve climate change and is currently producing the 9th Annual AREDAY Summit in Aspen, Colorado – Leadership for America's Energy Future.



Tom Darin

Western Regional Representative, American Wind Energy Association works to develop and implement policies that increase demand for wind power and lead to successfully built wind projects in the western U.S. Tom comes to AWEA from the White House Council on Environmental Quality (CEQ) as Deputy Associate Director for Transmission and Renewable Energy Siting. Tom helped to develop, implement and coordinate the Obama Administration's renewable energy transmission policies. Prior to joining the Council, Tom worked at the U.S. Dept. of Energy on interconnection-wide transmission planning to facilitate the development of renewable and other low-carbon energy. During his tenure at Western Resource Advocates Tom served as Co-Chair for the Western Renewable Energy Zone Initiative led by the Western Governors Association and Dept. of Energy. Tom obtained his B.A. from the University of Notre Dame in 1990 and J.D. from the Northern Illinois University College of Law in 1993.



Dick Dolan

Managing Director of American Prairie Reserve. APR was formed in 2001. Its mission is to create and manage a prairie-based wildlife reserve in Northeastern Montana. Dick's responsibilities in the overall management of APR include fundraising, strategic planning and supervision of the finance and land acquisition teams. Prior to joining APR in 2007, he worked as an attorney at the Bozeman law firm of Goetz, Gallik, Baldwin and Dolan and as Program Director for the Greater Yellowstone Coalition. Dick is originally from Billings, Montana. He holds a JD degree from the University of Washington School of Law and a BS in Finance from the University of Oregon.



Rod Eckhardt

Managing Partner, Round Rock Partners, is dedicated to creating opportunities that are economically sustainable, socially beneficial, and environmentally responsible. In furtherance of these objectives, Round Rock was established in 2007 to provide financial and advisory services to those engaged in renewable energy, community development, and corporate social responsibility. The principals have extensive experience originating, syndicating, structuring, underwriting and asset managing tax incented investments representing more than \$5 billion dollars in both debt and equity. The Round Rock team created one of the first private label renewable energy tax equity investment funds in the country and developed a debt program for qualified participants. Eckhardt previously served as Vice President for Capmark Finance Inc. and as Investment Counsel for a tax incented investment division of GMAC. He earned his B.A. from Colorado State University and his J.D. from Gonzaga School of Law.



Larry Flowers

Deputy Director, Distributed and Community Wind, The American Wind Energy Association (AWEA). He was an industry leader at the National Renewable Energy Laboratory (NREL) for three decades. Flowers spent the last 10 years of his 30-year career at NREL serving as the National Technical Director for the highly regarded Wind Powering America program and has been at the helm ever since. Through Wind Powering America, he formed a network of 35 state wind working groups, and four regional training and outreach institutes. Flowers also created the innovative Wind for Schools program to educate K-12 and university students about wind energy. Flowers has received many career awards including the AWEA Special Achievement Award in 2002, and most recently, the National Wind Technology Center Leadership Award in 2009.



Thomas L. Friedman

New York Times Journalist and Pulitzer Prize Winning Author, is an internationally renowned author, reporter, and columnist with five bestselling books, including *From Beirut to Jerusalem*, *The World Is Flat* and most recently *Hot, Flat, and Crowded: Why We Need a Green Revolution—and How It Can Renew America*, published in 2008. Friedman has worked at the New York Times since 1981 and has been the Times Foreign Affairs columnist since 1995, traveling extensively to anchor his opinions on the ground. Friedman has won three Pulitzer Prizes for international reporting from Lebanon (1983), from Israel (1988), and for distinguished commentary (2002). In 2004, he was awarded the Overseas Press Club Award for lifetime achievement and honorary title Order of the British Empire (OBE) by Queen Elizabeth II. In 2009, he was given the National Press Club's lifetime achievement award.



Jon Gensler

Project Developer for Borrego Solar Systems, develops large-scale solar energy projects for the US military. His previous career spans the private and public sectors, including service as an officer in the US Army and with the Dept. of Energy's Advanced Research Projects Agency – Energy (ARPA-E), and managing strategic accounts for Lutron Electronics. An Iraq War veteran, his advocacy on national security and clean energy has taken him from Capitol Hill to Copenhagen, where he has represented thousands of veterans of Operation Free. He currently co-leads the Truman National Security Project's Energy Experts group and serves on the Board of the Better Future Project. Jon is a graduate of United States Military Academy, MIT's Sloan School of Management, and the Harvard Kennedy School, and is a recipient of the Bronze Star Medal.



Robert Gough

Business Development Advisor at Native Wind, is an attorney and secretary of the Intertribal Council on Utility Policy (COUP). Gough has expertise in sociology and cultural ecology, with 30 years experience in tribal and natural resource law. COUP members are federally recognized Indian Northern Great Plains tribes, providing a forum on rights and resources for utility services on tribal lands, assisting tribes interested in building sustainable homeland economies based upon renewable energy. Gough co-chairs the COUP's national assessment of Native Peoples/Native Homelands and was the first director and now consultant to the Rosebud Sioux Tribal Utility Commission, participating in WAPA negotiations for tribal allocations of federal hydroelectric power.



Susan Greene

President of the American Solar Energy Society, the 58-year-old association of engineers, scientists, architects and advocates dedicated to moving the United States to a sustainable energy economy. ASES is still the go-to-source for renewable energy information for energy professionals and grassroots supporters. She is past president of the Denver-based Women in Sustainable Energy [WISE]. Susan spent 30 years as a senior executive and attorney in the new-media/telecom world, working for NBC, HBO, Citigroup and Time Warner Cable, where she built new businesses at the intersection of content and technology. Early in her career she was part of the team at PBS that created *Sesame Street*. She was executive producer of the prototype live HD broadcast of the *Metropolitan Opera*, which won several EMMY awards. She finds the current state of the renewable energy sector very similar to the early days of new media.



Jack J. Grynberg

President and CEO of Grynberg Petroleum Company in Denver, has over 50 years of successful international oil and natural gas exploration, development, and production experience. During this time, he was responsible for the discovery and development of a number of fields in North America, the Caribbean, and Central Asia, most notably the giant Kashagan and Karachaganak natural gas, oil and elemental sulphur fields in the Pricaspian Basin. Through a subsidiary, MOST Ethanol Company LLC, Mr. Grynberg has been actively pursuing projects in seventeen African countries aimed at producing bioethanol and electricity from renewable agricultural feedstocks. He holds professional degrees in Chemical and Petroleum Refining Engineering and Petroleum Production Engineering from the Colorado School of Mines in Golden, Colorado USA, plus an honorary degree in Geophysical Engineering.



Michael Haas

Founder, Orion Renewable Energy Group (Orion), Co-Founder of Renewable Development Company (RDC), and the Founder of Alliance for Climate Education (ACE). Orion develops utility scale wind and solar power plants in the U.S. RDC was formed to help achieve commitments set by the United Kingdom for new renewable energy generation. Projects developed by Orion in the U.S. and RDC in the UK now generate enough zero-carbon electricity to meet the annual electricity demand of about 1,000,000 homes. ACE educates high school students on the science behind global warming and inspires them to take action to curb the causes of climate change. Prior to forming Orion, RDC, and ACE, Michael held various positions with KENETECH Corporation and McDonnell Douglas Corporation. He holds a Bachelors Degree in Aerospace Engineering from Missouri University of S & T and a Masters Degree in Aeronautical and Astronautical Engineering from Stanford University.



Mark Harbaugh

National Sales Manager for Patagonia Fish Division, has been involved in rangeland management and targeted grazing with goats since 2004. Raised on his grandfather's sheep ranch during summers as a child, he has been in the outdoor recreation industry for over 40 years traveling the Western U.S. and Canada. Watching the spread of weeds and learning of goat grazing for noxious weed control and range improvement Mark researched extensively, read everything available, and got into the business contracting with landowners, BLM, and Fish & Game. Mark currently is National Sales Manager for Patagonia Fish Division. He also consults on targeted grazing. He manages his own herd to improve habitat and control leafy spurge and other weeds on his ranch in Eastern Idaho in the Yellowstone Ecosystem. He is helping keep Leafy Spurge out of Yellowstone & Teton National Parks. www.weedgoats.com



Cylvia Hayes, MES

Fellow of the Clean Economy Development Center and the American Leadership Forum, is also the founder and CEO of 3Estrategies, a clean economy consulting firm. She is on the Board of Directors for the American Leadership Forum Oregon. Cylvia has 23 years of professional experience in sustainable energy, economic development, green jobs, green building and sustainable forestry and agriculture. Cylvia co-chaired the Oregon Renewable Energy Working Group which developed Oregon's Renewable Energy Standard, Renewable Fuels Standard and other clean energy policies. In her current role as First Lady of Oregon, Cylvia is working on the following issues: Reducing Poverty and Hunger and Ocean Health. She is a policy advisor to the Governor on the issues of clean energy and economic development. She is overseeing development of a Ten Year Energy Plan for Oregon.



Mariel Hemingway

Actress, model, author, mother, and a leading voice for holistic and balanced living. As the author of three books: *Finding My Balance*, *Mariel Hemingway's Healthy Living From the Inside Out*, and *Mariel's Kitchen*, she has established herself as one of the most knowledgeable and articulate voices in the Body, Mind, Spirit movement. She speaks comprehensively about greening yourself through living a healthy life style, eating well, slowing down, and creating sacred space. Granddaughter of author Earnest Hemingway, she is best known for her roles in "Lipstick" and Woody Allen's "Manhattan." She has made 30 films, numerous TV series appearances and has hosted several environmental and humanitarian documentaries.



Dick Dolan

Business Development Advisor at Native Wind, is an attorney and secretary of the Intertribal Council on Utility Policy (COUP). Gough has expertise in sociology and cultural ecology, with 30 years experience in tribal and natural resource law. COUP members are federally recognized Indian Northern Great Plains tribes, providing a forum on rights and resources for utility services on tribal lands, assisting tribes interested in building sustainable homeland economies based upon renewable energy. Gough co-chairs the COUP's national assessment of Native Peoples/Native Homelands and was the first director and now consultant to the Rosebud Sioux Tribal Utility Commission, participating in WAPA negotiations for tribal allocations of federal hydroelectric power.



David Hiller

Executive Director of The Colorado Renewable Energy Collaboratory, leads the research consortium of the National Renewable Energy Laboratory, Colorado School of Mines, Colorado State University and the University of Colorado at Boulder. The Collaboratory works to develop and rapidly commercialize renewable energy technologies, build a renewable energy economy for Colorado and the nation, and teach the next generation of scientists and engineers to train the renewable energy workforce. Hiller served as State Issues Counsel for U.S. Senator Ken Salazar as a policy advisor and a representative for the Senator on natural resources, public lands and environmental issues, with special emphasis on renewable energy. Hiller has a law degree from the University of Michigan.



Robin Hoagland, CSB

Christian Science Public Practice. Hoagland has a Bachelor of Arts from Williams College, Phi Beta Kappa. Religious work includes being listed as a public practitioner in *The Christian Science Journal* in 1999. Became a teacher of Christian Science in 2006. Was elected to the Christian Science Board of Lectureship in 2007 as an international speaker. Active membership in the Massachusetts Audubon Society since 1988, longtime supporter of greening local schools, owner of hybrid cars, organic gardener.



Lisa Houston

Owner and publisher of Edible Aspen magazine, a James Beard Foundation award-winning publication started in 2007. Lisa has lived in Aspen since 1986 where she has raised her sons, served on the board of the Aspen Education Foundation and lives with her husband, Sam.



Rev. Jane Keener-Quiat

Pastor of Aspen Community Church is an ordained Elder in the Rocky Mountain Conference of the United Methodist Church with a Master of Divinity from The Iliff School of Theology and a Master of Healthcare Systems from the University of Denver. She is a Diplomate in the College of Pastoral Supervision and Psychotherapy, a Supervisor in Clinical Pastoral Education, and a Fellow in the American Association of Pastoral Counselors. She served as Chaplain for The Children's Hospital in Denver for nine years, and Director of Appointive Leader Development for the Rocky Mountain Conference of the United Methodist Church. She assisted two bishops and the leadership group of the conference before serving as pastor in local churches in Colorado and Wyoming. In Aspen, she is active with the coalition of emergency assistance providers for Aspen and the valley and serves on the board for the Aspen Homeless Shelter.



Ginna Kelly, Esq.

Vice President & General Counsel for AREI, Inc. Ginna is also the Founder & President of the not-for-profit organization Climb for Conservation, whose mission is to climb mountains around the world for critical conservation causes. Ginna is the Co-Founder and TV Host of the *Green Girl Minute* where she interviews leaders in renewable energy and sustainability. Ginna has a Law Degree from William & Mary Law School and was a law clerk at the White House Council on Environmental Quality.



Chris Klug

Professional Alpine Snowboarder, Speaker, Author, Adventurer. After receiving a liver transplant in 2000, Chris went on to compete in the 2002 Winter Olympics in Salt Lake City. This was the first and so far only time a transplantee had competed in the Olympics, either winter or summer. He also won a bronze medal, and lit the torch at the 2002 National Kidney Foundation U.S. Transplant Games. In 2004, Klug released a book called *To the Edge and Back: My Story from Organ Transplant Survivor to Olympic Snowboarder*.



Chris R. Lane

CEO of Aspen Center for Environmental Studies, a 44-year old environmental education non-profit. Prior to that, Chris was Vice-President of Sustainability for Xanterra Parks & Resorts. There, Chris was responsible for developing environmental management systems and company environmental affairs (sustainable design, energy and water efficiency, carbon emission reduction, renewable energy development, pollution prevention, environmental education, and federal and state regulatory compliance). Chris was the first Director of Environmental Affairs in the ski industry at Aspen Skiing Company; Program Director for a regional land conservation project; Regional Director for the Sierra Club; an environmental consultant at IRT Environment Inc., a spinoff of Rocky Mountain Institute; and Executive Director of the Environmental Foundation, a non-profit supporting initiatives that protect environmental quality in Colorado. Chris holds a degree in environmental engineering from University of Florida and is a LEED Accredited Professional and Certified Environmental Systems Manager.



Brook Le Van

Co-Founder and Director of Sustainable Settings, runs the research, demonstrations, and educational programming for the working ranch and whole systems learning center. Le Van lectures, writes, and organizes community-based events, regionally and nationally, on relocalized sustainable food and energy issues. He is a green development, sustainable agriculture, and native riparian systems consultant, a certified Permaculture designer and consultant and whole systems charrette facilitator. He advises and writes the "Food for Thought" column for *Edible Aspen* magazine. An alumnus of the Kansas City Art Institute and NYSCC, at Alfred University, the Institute for Social Ecology, Le Van taught college and university for six years. Grants and fellowships include a Fulbright Research fellowship for research in Ghana, a Durfee Foundation Fellowship for an expedition navigating the Yellow River in China, National Endowment for Humanities, and a Pollock-Krasner Foundation fellowship.



Amory Lovins

Chairman and Chief Scientist of Rocky Mountain Institute; Chairman Emeritus of Fiberforge Corporation, was named "one of the 100 most influential people in the world," by *Time* magazine. His innovations in energy, security, and environment have been recognized by the Blue Planet, Volvo, Onassis, Nissan, Shingo, and Mitchell Prizes, MacArthur and Ashoka Fellowships, the Benjamin Franklin and Hapold Medals, 11 honorary doctorates, honorary membership of the American Institute of Architects, and has won Heinz, Lindbergh, Right Livelihood, National Design, and World Technology Awards. He advises governments and major firms on energy and resource efficiency, has briefed 20 heads of state, and led the technical redesign of more than \$30 billion worth of industrial facilities to achieve energy savings at typically lower capital cost. He has published 29 books and has taught at eight universities, most recently in Stanford University's School of Engineering.



L. Hunter Lovins

President and Founder, Natural Capitalism Solutions (NCS), educates business, government, and civil society decision makers in sustainability and creates innovative and practical tools and strategies for companies, communities, and countries toward that goal. A sociologist and lawyer, her areas of expertise include Natural Capitalism, sustainable development, globalization, energy and resource policy, economic development, climate change, land management, fire rescue and emergency medicine. She developed the Economic Renewal Project, is Chief Insurgent of the Madrone Project, and is faculty at Bainbridge Graduate Institute. Recipient of the Right Livelihood Award, Lindbergh Award, and Leadership in Business, she was named *Time* magazine "2000 Hero of the Planet"; in 2009, *Newsweek* dubbed her a "Green Business Icon." Lovins has consulted for many major industries and governments worldwide, including advisor to the Energy Minister of the Government of Afghanistan, and co-authored nine books, including *Natural Capitalism*.



Bryan L. Martel

Founder and Managing Director, Environmental Capital Group, was instrumental in helping CalPERS establish their landmark environmental private equity fund. This effort catalysed the market and has led to about \$9 billion invested in clean energy and technology funds and companies. In 2007, Bryan initiated the formation of the P8 ("Pensions 8"), which is hosted by HRH The Prince of Wales and the University of Cambridge. The P8 brings together executives from the largest global pension funds to address climate change. Previously, Bryan was the Founder and CEO of Mobius Technologies, a material science/clean technology company. At Mobius, Bryan led the development and commercialization of a recycling process, with operations in the United States, Europe, and Asia. Prior to Mobius, Bryan worked at The Dow Chemical Company and Bechtel. Bryan enjoys skiing with his wife and two children.



Joani Matranga

Market Development Manager to assist governments, school districts, communities and businesses to create economic development with energy resources, Joani has worked with Colorado State's Energy Office since 2007. Joani has worked over 15 years in the renewable energy and energy efficiency fields. Through her work with Community Office for Resource Efficiency (CORE), she pioneered the implementation of wind power, green pricing, grid tied solar and carbon policy through community efforts and public process. Educated as a chemical engineer, Joani has experience in industrial business/product development, international chemical and specialties markets. Joani skis, hikes, bikes in her time off while living in Carbondale, a solar and green mecca on the western slope.



Peter McBride

Award-winning Photographer, is a self-taught photographer/journalist. His love of adventure, cultures and nature has taken him on assignment to over 50 countries, from the jungles of Africa and the glaciers of Everest to the mines of the Altiplano and the depths of Antarctica for National Geographic, Smithsonian, *The Washington Post*, *Outside*, *GEO* (France) and many other publications. McBride received a one-year John S. Knight Fellowship for Professional Journalists at Stanford University (1996). Recognitions include Pictures of the Year International, The Society of Professional Journalists and the Society of Publication Designers awards.



Mike McDill

Aspen City Deputy Director of Utilities, Mike manages the City's Water and Electric Utilities. The Water Utility serves approximately 3,800 customers in eighteen different pressure zones, due to our local mountainous geography. Half of these zones require significant power to pump water to the appropriate demand areas and he is always looking for more efficient and effective methods to meet customers' needs. The Electric Utility delivers power to about 2,900 of the same community customers. It owns two hydroelectric plants and a large solar array. The Electric Utility also purchases wind power from the MEANS cooperative to complete our 75% renewable power portfolio (the City's ultimate goal is 100% renewable energy sources). Finally he manages the City's separate raw water irrigation system, which uses water rights from Castle Creek, Maroon Creek and the Roaring Fork River, and an intricate ditch system to deliver irrigation water to as many as 80 different authorized users.



Vice Adm. Dennis V. McGinn, USN (ret.)

President of the American Council On Renewable Energy (ACORE), a 501(c)(3) membership organization dedicated to bringing renewable energy into the mainstream of the U.S. economy and lifestyle through finance, market and policy research and educational programs. Admiral McGinn is a naval aviator, test pilot and national security strategist. He has served as Director of the Air Warfare Division in the Office of the Chief of Naval Operations; the Commander of the U.S. Third Fleet; and the Deputy Chief of Naval Operations, Warfare Requirements and Programs in the Pentagon. Admiral McGinn brings to ACORE his significant national experience to highlight the close link between energy, climate and national security. He is a strong advocate for innovative government policy, public and private partnerships, and investments that will promote clean energy growth and innovation.



Leilani Münter

Race Car Driver and Environmental Activist, named by Discovery's Planet Green as the #1 Eco Athlete in the World, Leilani has adopted an acre of rainforest for every race she has run since 2007. With a degree in biology from the University of California at San Diego, she has travelled to the Gulf oil spill, to Japan to stop the dolphin slaughter featured in the Oscar-winning documentary, "The Cove," and spoken to Congress on behalf of environmental legislation. Her racing accomplishments landed her in *USA Today*, *Vogue*, *Glamour*, and *Esquire*, and *Sports Illustrated* named her one of the top ten female race car drivers in the world. Her motto is appropriate: "Never underestimate a vegetarian hippie chick with a race car." <http://carbonfreegirl.com>



Andrea Neal, PhD.

Founder and President of Blue Ocean Sciences, (BOS), a collaboration of scientists working on a wide range of projects including bio-fuel development, nano-toxicity studies, marine debris, and bio-remediation. Dr. Neal's expertise spans the management of large-scale international projects, environmental campaigns, and scientific research. Her teams have conducted three open ocean cruises exploring over 6,000 nautical miles of critical ocean environments, studying the overall impact of synthetic polymer-microbe interactions on ocean ecosystems. BOS also teaches scientists effective media communications to educate, and inspire people in the business, government and public sectors. Dr. Neal holds a Ph.D. in Molecular Genetics and Lipid Biochemistry. She is the Science Advisor for Jean-Michel Cousteau's Ocean Futures Society, Director of the Opus Novum Center for Environmental Technologies, Principal Investigator for Project Kaisei in 2009, and Co-Principal Investigator for the 2011 Lone Ranger Transatlantic Investigation of Marine Pollutants with the Schmidt Ocean Institute.



Mona Newton

Executive Director of CORE, has worked in the public and private sector promoting energy efficiency and renewable energy for over 20 years. Her passion for the issues surfaced while studying at the Korbel School of International Studies at the University of Denver. She came to the Roaring Fork Valley in June following almost five years at the Governor's Energy Office. During that time she worked with local governments and profit and non-profit organizations in Colorado, helping them advance energy efficiency and renewable energy through policy adoption and program implementation. She also worked with emerging companies to help them develop markets for new technologies. Working in energy efficiency and renewable energy support her passion for being outside and enjoying nature.



Jake Norton

Climber, photographer, speaker, and, most importantly, husband and father from Golden, Colorado. Jake started Challenge21 With his wife, Wende, to leverage his skills and career in climbing to create positive change in our world and raise funds and awareness for Water For People in support of their goal to reach Everyone Forever. As a sponsored athlete for First Ascent and a professional photographer, Jake has travelled and climbed worldwide. He recently returned from his 7th Everest expedition, this time attempting to climb the West Ridge via the 1963 American route.



David Orr, PhD

Paul Sears Distinguished Professor of Environmental Studies and Politics at Oberlin College, is Senior Adviser to the president at Oberlin and a James Marsh Professor-At-Large at the University of Vermont. He is presently the director for "The Oberlin Project," a joint city-college effort to build a sustainable post-fossil fuel economy. He helped launch the President's Climate Action Plan (2008) and was a pioneer in ecological design including the "Adam Joseph Lewis Center" at Oberlin. He has written seven books, most recently *Hope is an Imperative: the Essential David Orr* and published 170 articles. He was named an "Environmental Hero for 2004" by *Interiors & Sources Magazine*. He holds six honorary degrees and a distinguished scholar in residence.



Kevin L. Patrick

Shareholder in the law firm of PATRICK, MILLER & KROPP, P.C., with offices in Aspen, Denver, Phoenix, and Tulsa.

The firm practices exclusively in the fields of: water rights law; water resource and wastewater planning; water quality law and environmental regulation (wetland/404 mitigation); water and wastewater infrastructure planning and development; and basin planning and mediation. The firm represents the State of Wyoming, numerous municipalities and water and wastewater utilities industry, developers, golf course designers, ski area operators and private clients in the western United States and Europe. He is presently counsel of record in the United States Supreme Court on a case involving water conflicts between Texas and Oklahoma. Please visit www.waterlaw.com He earned his J.D. from the University of Tulsa School of Law, National Energy Law & Policy Institute in 1978 and his B.A. from Virginia Tech in 1974.



Carl Pope

A veteran environmental leader, Mr. Pope worked for the Sierra Club for more than thirty years.

In that time he has served as Political Director, Conservation Director, Executive Director, and Chairman. He stepped down as Chairman in 2012 to become a Senior Strategic Advisor and established Inside Straight Strategies, a consulting firm focused on the intersection between climate, sustainability and economic development. During his tenure as Executive Director, the Sierra Club added 400,000 new members and supporters, growing to approximately 1.2 million today. It most recently led the battle to move the American energy sector Beyond Coal.



Jonathan Powers

Appointed by President Obama to serve as the Administration's Federal Environmental Executive (FEE).

Jon is responsible for promoting environmental and energy sustainability across federal government operations. Housed within the White House Council on Environmental Quality, the FEE oversees implementation of President Obama's Executive Order on Federal Sustainability (EO 13514) and the GreenGov initiative. Prior to joining CEQ, Jon served as the Special Advisor on Energy in the Office of the Assistant Secretary of the Army, Installations, Energy & Environment. He also served as the Chief Operating Officer at the Truman National Security Project, where he focused on energy security issues. While at the Truman Project, Jon founded the nationally recognized campaign Operation Free for veterans to advocate for a national energy policy. Jon also served for four years as an Officer in the U.S. Army, including a 15-month tour in Iraq as part of Operation Iraq Freedom I.



Phil Powers

A principal at Jackson Hole Mountain Guide and currently serves as Executive Director of The American Alpine Club.

Phil is a veteran of dozens of expeditions to South America, Alaska and Pakistan's Karakoram Range. He made the first ascent of Lukpilla Brakk's West face in Pakistan and the massive Washburn Face on the North side of Mount McKinley, America's highest peak. In the Tetons, he made the first winter traverse of the Tetons' Cathedral Peaks in a four-day push in February of 1992. He has made ascents of K2 and Gasherbrum II, two of the world's fourteen 8,000-meter peaks, without supplemental oxygen and he continues to be an active climber and skier. Powers is author of two books: *Wilderness Mountaineering* and *Climbing: Expedition Planning*.



Sally Ranney

President of AREI, Inc. and CEO of Stillwater Preservation, LLC, a wetlands mitigation banking company, founder/

President of Rising Wolf Int'l, a consulting group, co-founder/Anchor of *A Matter of Degree*, a program for TV that examines climate change and business, and spoke at 2011 TEDx Denver. With 30 years experience in the public/private sectors biodiversity, energy, water, wildlife and public land policy, Sally developed 'Corridors of Life', the first GIS satellite land mapping program undertaken by an NGO in the U.S. She founded American Wildlands, was appointed by President Reagan to the Commission on American Outdoors, is on the BOD of of the Gallmann African Conservancy (US/Kenya) and chairs the Earth Restoration Alliance. She is on the Patron Committee, IUCN, the Steering Committee, iMatter Campaign, the Global Advisory Committee, Women & the Green Economy (WAGE) and a managing partner of A.R.E. Equity Partners. Sally served on the BOD of the Natural Resource & Agricultural Policy Advisory Board, CSU, and The Natural Step.



James Redford

James Redford writes, produces and directs for film and television. James directed *Toxic Hot Seat*, produced the film *Watershed* about the Colorado River, and the acclaimed HBO documentary *Mann V. Ford*. Additionally, James wrote and directed *Quality Time*, an award-winning short comedy. After surviving two liver transplants, James founded JRI, a non-profit dedicated to promoting a deeper understanding of the miraculous gift of organ donation.



Camilla Rees, MBA

Founder of ElectromagneticHealth.org and co-founder of the International EMF Alliance, both focused on the biological consequences to humans, animals and nature from unchecked proliferation of electromagnetic fields. She has worked as an adviser to many advocacy groups, businesses, scientists and non-profits in the areas of corporate identity development, speech writing, white papers, marketing communications, media relations, fundraising, board and investor communication and is active in capital raising for promising frontier sciences. Camilla oversees the National Institute for Science, Law & Public Policy's upcoming paper on the smart grid, authored by panelist Dr. Timothy Schoechle. She holds degrees from Barnard College of Columbia University and Georgetown University Graduate School of Business Administration.



Kelly Rigg

Executive Director, GCCA, a global alliance of 250 organizations that cooperate under the banner of the tcktkctk campaign. Rigg has been leading international campaigns for thirty years on climate, energy, oceans, Antarctica, and other issues. With Greenpeace, she served as a senior campaign director for twenty years both in the United States and internationally. In 2003, she founded the Varda Group Consultancy which provides campaign, communications and strategic advice to a wide range of NGOs. From 2004-2009, she led the Deep Sea Conservation Coalition's campaign to protect the high seas from destructive bottom fishing. After joining the GCCA in early 2009 as an advisor, she became its Executive Director in 2010.



Bill Ritter Jr.

Founding Director of the Center for the New Energy Economy (CNEE) at Colorado State University. The Center started February 1, 2011 and employs an Assistant Director, two Senior Policy Advisors, and an Executive Assistant. Ritter was elected as Colorado's 41st governor in 2006. During his 4 year term, Ritter established Colorado as a leader in renewable energy by building a New Energy Economy that is creating thousands of new jobs and establishing hundreds of new companies; enacted an aggressive business-development and job-creation agenda, focused on knowledge-based industries of the future; initiated sweeping K-12 education reforms; and, improved access to quality and affordable health care for as many as 800,000 Coloradans. Ritter is married to Jeannie, and before serving as District Attorney, he and Jeannie operated a food distribution and nutrition center in Zambia.



Dan Schnitzer

Founder and Executive Director of EarthSpark International, working to bring access to clean and efficient energy to people in Haiti. With EarthSpark, Dan promotes the development of country-wide clean energy supply chains including small-scale solar and efficient pre-pay microgrids. Dan is also a Ph.D. candidate at Carnegie Mellon University in the Department of Engineering & Public Policy. He was formerly employed by KEMA, Inc., an energy consulting firm, where his work focused on energy efficiency and renewable energy policy, engineering, and system analysis. Dan received his Bachelors degree from the University of Chicago in Physics, Economics and Environmental Studies.



Timothy Schoechle, Ph.D.

Author of the upcoming paper "Getting Smarter About the Smart Grid," has been engaged in engineering development of electric utility gateways and energy management systems for over 25 years and is a former faculty member of the University of Colorado, College of Engineering and Applied Science. He presently serves as Secretary of ISO/IEC SC25 Working Group 1, the international standards committee for Home Electronic Systems and he is technical co-editor of several international standards related to the smart grid. He is an expert on the international standards system and serves as secretariat of ISO/IEC SC32 Data Management and Interchange. Dr. Schoechle is a founder of BI Incorporated, pioneer developer of RFID technology. He holds an M.S. in telecommunications engineering and a Ph.D. in communications policy from the University of Colorado.



Gail Schwartz

Colorado State Senator (D), is a leading education proponent and rural economic development advocate. Her district extends over 11 counties. Schwartz's State Senate committee responsibilities include a second term as Vice-Chair of the Agriculture, Natural Resources and Energy Committee and the Local Government Committee. She also serves on the Senate Business, Labor and Technology Committee. Senator Schwartz's other appointments include the Colorado Heritage Tourism Committee, serving as liaison to the Colorado Commission on Higher Education, and the Senate Select Committee on Renewable Energy. She was awarded "Legislator of the Year" from the Independent Bankers of America (2006).



Larry Schweiger

President and Chief Executive Officer of the National Wildlife Federation. National Wildlife Federation is America's largest conservation organization, with 48 affiliates and more than four million members and supporters. Larry is an active community leader, having served on more than 40 governing boards, commissions and committees. He currently serves on the Boards of Directors of The Climate Reality Project; The Climate Reality Action Fund; the H. John Heinz III Center for Science, Economics and the Environment; BlueGreen Alliance; and National Wildlife Federation Action Fund. This year he was awarded the Citizens for Pennsylvania's Future Visionary Award for his leadership in raising awareness about the critical impacts of climate change throughout the world and commitment to employing clean energy solutions. He was selected as Pennsylvania's Environmental Professional of the Year in 2002, Pittsburgher of the Year in 2000, and he received a Conservation Service Award from the Christian Environmental Association in September 1995. Larry's book on global warming and wildlife, released by Fulcrum Publishing in September 2009, *Last Chance: Preserving Life on Earth*, was awarded First Prize for Non-Fiction by the Next Generation Indie Book Awards this year and can be found at <http://www.nwf.org/lastchance>.



Joel Surface

Entrepreneur-in-Residence at NREL; Kleiner, Perkins, Caufield & Byers, is an investor and entrepreneur, and has worked on cleantech in Massachusetts, California, Texas, and Colorado. Since 2000, he has started or invested in over 20 cleantech companies. Joel served as Director of the Austin Clean Energy Incubator at the University of Texas designed to support cleantech start-ups renewable energy development, and clean energy growth in Texas. Joel is a founding member of Environmental Entrepreneurs, a community of professionals that believe protecting the environment can build economic prosperity. He has an M.B.A. from the MIT Sloan School of Management and received the Patrick McGovern Award for Entrepreneurial Leadership. Joel received his B.S. in Chemical Engineering with concentrations in Environmental and Biotech Engineering from the University of Texas at Austin.



Jigar Shah

CEO, Jigar Shah Consulting, is a renowned visionary committed to renewable energy and sustainable solutions that enable prosperity beyond the carbon economy. He is an expert at identifying "business as usual" practices and replacing them with low-carbon solutions. His founding of SunEdison in 2003 revolutionized the solar industry with the introduction of a business model to sell solar as a service; solar power service agreements were responsible for transforming solar into a multi-billion dollar industry. As an expert on energy project finance, changing energy policy, working with entrenched stakeholders, and convincing individuals to embrace energy technology, he works closely with entrepreneurs, policymakers, and investors around the world to develop, incubate, and implement sustainable solutions. Shah holds a B.S. in Mechanical Engineering from the University of Illinois, an MBA from the University of Maryland, and sits on the boards of SB NOW and Greenpeace USA.



Casey Sheahan

President and CEO of Patagonia, Inc., and Patagonia's parent company, Lost Arrow Corporation. Patagonia, a designer and distributor of technical outdoor clothing, is widely known for its commitment to product quality and environmental responsibility. As a member of 1% for the Planet, Patagonia pledges to donate at least one percent of its annual sales to promote conservation and preservation of the natural environment. He is aligned with a number of environmental organizations and served as President of the Conservation Alliance, a non-profit organization of outdoor businesses whose membership dues support grassroots citizen-action groups and their efforts to protect wild and natural areas. He is a co-founder along with his wife, Tara, of the Conscious Global Leadership Institute, whose mission is to "share best inner practices for inspired, heart-centered leadership."



Tara Sheahan

CHO "Chief Happiness Officer," Conscious Global Leadership Competitive drive, love of nature, and the ability to go fast on skis inspired Tara's life as an elite cross-country ski athlete. As a student of, and expert on, the physiology of happiness and why we become susceptible to disease, Tara studied with teachers who were world-renowned "healers" in western, eastern, indigenous and spiritual medicine. This remarkable journey inspired my husband, Casey, CEO of Patagonia, to join me in launching "Conscious Global Leadership," which premiered at The Aspen Institute in 2010. With a world-class faculty, we teach emotional intelligence and 'heart-centered' leadership at the highest levels.



Sloan Shoemaker

Executive Director of the Wilderness Workshop, a Carbondale-based nonprofit that works to protect Colorado's backcountry. Sloan leads the WW team and directly oversees the organization's conservation work. The president of the Colorado Bark Beetle Cooperative, he's recognized as one of the state's leading policy experts on beetle-wildfire ecology, and has testified before a special Congressional oversight committee on mitigating the impacts of the pine bark beetle epidemic in Colorado. He has crafted all phases of WW's comments on the WRNF Travel Management Plan, has testified before the Roadless Area Conservation National Advisory Committee on behalf of the Colorado conservation community, and led the effort to develop a Citizen's Management Alternative for the WRNF's revised Land and Resource Management Plan.



Don Smith

President, Smith Cogeneration, which built the PowerSmith Cogeneration plant in Oklahoma City; a modern barge mounted power plant in the Dominican Republic; and initiated power projects in India, China, Bangladesh and Pakistan. In 2004, Smith established Quoddy Bay, LNG on the Passamaquoddy Tribal Reservation, to bring gas to Southern New England to allow the dismantling of old polluting power plants. In 2006, Smith founded Smith Algae BioFuels to grow algae with CO2 from power plant exhaust. He has a BA from Harvard, a PhD in Economics from Brown, taught at Southern Methodist University before joining US Senator Gary Hart's staff in Washington.



Paul Spencer

President & Founder of the Clean Energy Collective. Spencer has an extensive background within green development, energy efficiency and building cutting edge organizations. Mr. Spencer has an electrical engineering degree from Colorado State University and spent roughly a decade building emerging technology companies within systems engineering, healthcare and finance, spanning hundreds of copyrights and a patent. Paul Spencer currently is the President & Founder of Clean Energy Collective, whose mission is to provide optimal clean energy solutions and supporting technology that serve our communities, businesses and utilities in creating a sensible and affordable clean energy nation.



Bill Stirling

Founder of Stirling Homes, Inc. a full service real estate, rental and property management company, in 1978, recently merged with Peak Properties as Stirling Peak Properties. Former Mayor of Aspen, serving four terms. Bill Co-founded CORE and still serves on the board. He is on the board of the Aspen Center for Environmental Studies, and co-founded Realtors for Wilderness in conjunction with the Wilderness Workshop and has served on the board of the Independence Pass Foundation.



Julienne Stroeve

Research Scientist at the University of Colorado's National Snow and Ice Data Center, holds a Ph.D. in Geography from the University of Colorado where she focused on surface energy balance studies of the Greenland ice sheet using satellite imagery. She has extensive experience in remote sensing of the polar regions using satellite imagery. J. Stroeve has participated in several field campaigns in Greenland and the Arctic. Current research includes monitoring the causes behind the rapid decline of the Arctic sea ice cover, and investigations into how the transition towards a seasonally ice-free Arctic will impact climate. J. Stroeve has been lead author on more than 20 papers and co-author on more than 30 papers. J. Stroeve's work has been featured in several Discovery Science and History Channel documentaries.



Eddie Sturman

Founder of Sturman Industries, which has been described as "one of America's greatest natural resources." Eddie is a leader in improving process control and mechanical system design. Known for his simple and innovative solutions for mechanical system challenges, he generates numerous inventions annually. Eddie pioneered 'latching' valves, as a result of developing a more efficient valve for the Apollo space program. Eddie's goal for Sturman Industries is to create simple, efficient, needed, safe and economical solutions to the world's mobility, environmental and energy-related problems. His opinion and advice is sought after; from those in the diesel mobility industry, and government leaders looking for better ways to solve the problems facing our nation and the world. Safe, energy-efficient products that help preserve the Earth's natural resources continue to be his aim.



Woody Tasch

Founder and Chairman of Slow Money, a 501(c)3 non-profit formed in 2008 to catalyze the flow of investment capital to small food enterprises and to promote new principles of fiduciary responsibility to support sustainable agriculture and the emergence of a restorative economy. Tasch is Chairman Emeritus of Investors' Circle, a non-profit network of investors that has facilitated the flow of \$150 million to 230 sustainability minded, early stage companies and venture funds. For most of the 1990's Woody was Treasurer of the Jessie Smith Noyes Foundation, where he pioneered mission related investing. He is an experienced venture-capital investor and entrepreneur, he has served on numerous for-profit and non-profit boards, and was founding chairman of the Community Development Venture Capital Alliance, which supports venture investing in economically disadvantaged regions. In 2010, Utne Reader named Woody one of "25 Visionaries Who Are Changing Your World." Woody's book *Inquiries into the Nature of Slow Money* is published by Chelsea Green and now available in paperback.



Jim Turner, Esq.

Partner in the D.C. law firm Swankin & Turner, addressing regulatory issues concerning food, drug, health, environmental and product-safety matters. He is Chairman of Citizens for Health and President of Voice for H.O.P.E. (Healers of Planet Earth). He is also Chairman of the National Institute for Science, Law & Public Policy (NISLAPP), which aims to reconcile legal and scientific concerns in the formulation of intelligent, safe and sensible public policy. NISLAPP will publish the white paper, "Getting Smarter About the Smart Grid", authored by Dr. Timothy Schoechele,

this September. Turner has appeared before every major consumer regulatory agency, including the Food and Drug Administration, Environmental Protection Agency, Consumer Product Safety Commission and Federal Trade Commission, as well as the Department of Agriculture and the National Institutes of Health, and has been special counsel to various senatorial committees.



Trip Van Noppen

President, Earthjustice, leads the organization's staff, board, and supporters to advance its mission of using the courts to protect the environment and people's health. With degrees from Yale and the University of North Carolina, Trip clerked for a Federal district judge and practiced law in Raleigh, North Carolina, in a litigation practice emphasizing civil rights, employment, environmental, and toxic tort cases. In 1998, he joined the Southern Environmental Law Center and became director of its Carolinas Office. Both in private practice and at the SELC, Trip handled a wide variety of environmental cases and cases involving access to the courts. From 2005-2007, he was Earthjustice's Vice President for Litigation. Trip is married to Rivka Gordon and they have two children.



Eden Vardy

Entrepreneur and Founder of Aspen TREE. With a name that represents the garden of gardens, Eden Vardy was born an environmentalist. A twenty- six-year-old entrepreneur, Eden holds a BA in Sustainable Food Systems and a Masters (of Science) in Integrated Eco-Social Design. Frustrated by the negative tone and disconnect between theory and action in environmentalism, Eden founded Aspen TREE in 2008, a non-profit that empowers youth and community through positive, solution oriented, tangible sustainability and healthy food shed education. Eden is passionate about regeneration: his life goal is to redefine humanity as a positive force, a "valuable thread in the intricate network of nature."



Doug Vilsack

Founder and Executive Director of Elephant Energy, an organization that works in Namibia, Africa and on the Navajo Nation in the United States to support businesses distributing solar energy technology. He is also a lawyer with the law firm of Davis Graham & Stubbs in Denver working in the practice areas of environmental law, Indian law, and renewable and alternative energy law. Doug focused on environmental and energy-related issues while attending the University Of Colorado Law School.



Eli Weiss

Photographer, Philanthropist and Wildlife Conservationist. Eli Weiss grew up between Illinois, Wyoming and Colorado, attended University in both Colorado and the UK, and finally, after spending much time in Aspen from 1963-1979 when she settled in Woody Creek. In 2000 Eli founded the non-profit WildiZe Foundation®. In Founding WildiZe, Weiss was able to combine her love of Photography, Art, Nature, Environmental Ethics and Conservation in such a way as to benefit our planet. The Foundation serves individuals and educational institutions dedicated to the conservation of wildlife, wildlife habitats and the indigenous cultures of Africa — and to raising awareness through on-the-ground projects and education both in Africa and the United States.



Johnny Weiss

Co-Founder, Executive Director of Solar Energy International, is a solar educator, consultant, certified Industrial Trainer and solar building professional. He has more than 20 years experience teaching the practical applications of the renewable energy (RE) technologies of solar, wind and water power. As an associate professor for 10 years at the Colorado Mountain College, he helped develop and teach a hands-on vocational training program in solar thermal, photovoltaics, energy efficiency and construction skills. Johnny has extensive practical experience as a natural house builder and licensed general contractor. He is knowledgeable in the environmental building technologies of earth and straw bale construction. Johnny regularly works with Native Americans RE training programs. Johnny works in international sustainable development programs and projects helping transfer renewable energy technologies to the developing world.



Edward Zaelke

Co-chairs Akin Gump's global project finance practice. Mr. Zaelke focuses his practice on representing companies engaged in the development, financing and operation of wind power, solar power and other alternative energy projects. His clients include many of the top renewable energy developers and investors in the United States. Mr. Zaelke's experience extends to all elements of alternative energy development and finance, including equity and debt financing, merger and acquisition transactions, equipment purchase and sale agreements, power purchase agreements, siting and other real property issues, governmental approvals and construction and EPC contracts. He has been named as one of California's Top 100 Lawyers for each of the past 3 consecutive years by the *San Francisco and Los Angeles Daily Journal*.

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Growth Energy


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Choosing Green
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 **Special Thanks**
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A Special Thanks goes out to these Community members for their donations to our Volunteer Team.

Carbondale Community
Food Co-op
Clark's Market
Jean Owen
Jour de Fete
Paradise Bakery
Tasters
Vitamin Cottage Natural
Grocers

Gala Reception

Evening of August 18, 2012
Aspen, Colorado



Hosted by
ARE  

To benefit
ARE and Climb for Conservation

8pm at the St. Regis Aspen Resort
Tickets \$100

Keynote Speaker for the evening will be
Mariele Hemingway
Actress, Model, Author and Lifestyle Expert - *Mariele's Kitchen*



2012 ARE Film Fest

Monday August 20th, 2012
Pitkin County Library on Mill & Main

All Films are free, open to the general public & suitable for children.

- 10:10 **THE BURDEN** 6min
- 10:28 **WATERSHED** 90min (Jamie Redford)
- 12:10 **BLUES PLANET** 90min (Taj Mahal)
- 1:53 **ARISE** 90min (Daryl Hannah)
- 3:35 **THE GREAT STORY** 50min (Thomas Berry)
- 4:37 **SKIING EVEREST** 90min (Mike Marolt)
- 6:19 **CREATING A CLIMATE FOR CHANGE** 34min (Africa)
- 7:05 **WILD HORSES & RENEGADES** 90min (Various Stars)

*Films and times are subject to change.
All films begin with Introduction and are followed by Q & A.

 **Sustainable Planet**

 **Ted Turner**
turner foundation, inc.

 **Matter** NETWORK

 **EARTHJUSTICE**
Because the earth needs a good lawyer

 **THE SOPRIS**
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 **Colorado Renewable Energy Collaboratory**
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 **patagonia**

 **SUE THOMPSON**

 **Featured Partners**



























































In memory of Pat Spears

Co-Founder & President of
Inter-Tribal Council on Utility Policy-COO,
Lakota visionary and environmental hero.



"We believe in the wind, we believe
in the strength of the wind..."

now the blessing of the wind
can be turned into an economic
impact for our people..."

ARE  Since 2004 bringing
leaders and educators together to promote the
rapid implementation of renewable energy and
energy efficient strategies as practical solutions
to the climate crisis through presentation,
demonstration, performance, film and dialogue.