



## Developing The Next Generation of Biofuels in Colorado



# AGENDA

Warwick Hotel | 1776 Grant Street | Denver, CO 80203 | June 5, 2009

### Objectives:

- Develop recommendations for the Governor on how biofuels policy intersects with climate policy on:
  - Developing Biofuels Infrastructure
  - Sustainable Feedstock Opportunities and Challenges
  - Creating Opportunities for Advanced Biofuels in Colorado
- Determine how to build upon the success of the Governor's Biofuels Coalition and identify new opportunities for strategic partnerships in the state.
- Strengthen the linkage between state and federal agencies, and identify opportunities to leverage federal support for initiatives in Colorado.

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**8:00 am**      **Continental Breakfast (Provided)**

**8:15 am**      **Welcome and Introductory Remarks**  
Alice Madden - Governor's Climate Change Advisor

**8:30 am**      **The Federal Outlook for Biofuels**  
*An overview of federal policies and programs that affect the development of biofuels will be provided to frame the national perspective on the future role of biofuels.*

### **The Federal Renewable Fuel Standard**

- **Paul Argyropoulos - Senior Policy Advisor, U.S. Environmental Protection Agency Office of Transportation and Air Quality**

### **American Recovery and Reinvestment Act**

- **Roxanne Dempsey – Senior Project Manager, U.S. Department of Energy Golden Field Office Biomass Program**



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### 9:30 am      **What Regional Opportunities Exist in the West?**

*A discussion of the findings that emerged in WGA's regional stakeholder initiative and its implications for Colorado. WGA's regional and national bioenergy assessment will also be reviewed in the context of how it is relevant and useful to Colorado.*

- Alex Schroeder - Transportation Fuels Program Director, Western Governors' Association
- Richard Nelson - Director and Department Head, Engineering Extension Programs, Kansas State University

### 10:00 am      **Keynote Address - Advanced Biofuels in Colorado**

- Governor Bill Ritter, Jr.  
Introduction by Pam Inmann - WGA Executive Director

### 10:30 am      **So What's Going on in Colorado?**

**Moderator: Alice Madden - Governor's Climate Change Advisor**

*A roundtable discussion will be held to discuss what issues state agencies and industry are dealing with when looking at developing advanced, low carbon biofuels in Colorado in order to identify barriers and future opportunities.*

- John Stulp - Commissioner, Colorado Department of Agriculture
- Jim Martin - Executive Director, Colorado Department of Public Health and Environment
- David Hiller - Executive Director, Colorado Renewable Energy Collaboratory
- Tom Wardle - Assistant State Forester, Colorado State Forest Service
- Stacey Simms - Renewable Energy Senior Programs Manager, Governor's Energy Office and Chair, Governor's Biofuels Coalition

### 11:00 am      **Break**



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- 11:15 am      Review of Format for Breakout Sessions and Meeting Outcomes**  
**Alice Madden - Governor's Climate Change Advisor**  
*Three 45-minute breakout sessions will be held to identify priority issues and actions for the Governor's office and state agencies to consider when developing biofuels policy. All attendees will have the opportunity to participate in each of these discussions. With room size limitations we ask that you please honor the assigned session as your participation is important in each of the three sessions*
- 11:30 am      Session 1 - How do we encourage the development of advanced, low-carbon biofuels?**
- Developing Biofuels Infrastructure (Group A)
  - Sustainable Feedstock Opportunities and Challenges (Group B)
  - Creating Opportunities for Advanced Biofuels in Colorado (Group C)
- 12:15 pm      Lunch Provided**
- 12:20 pm      Keynote Address – National Renewable Energy Laboratory**
- Dale Gardner - Associate Laboratory Director, Renewable Fuels & Vehicle Systems, National Renewable Energy Lab
- 1:15 pm      Session 2 - How do we encourage the development of advanced, low-carbon biofuels?**
- Developing Biofuels Infrastructure (Group B)
  - Sustainable Feedstock Opportunities and Challenges (Group C)
  - Creating Opportunities for Advanced Biofuels in Colorado (Group A)



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**2:00 pm      Session 3 - How do we encourage the development of advanced, low-carbon biofuels?**

- **Developing Biofuels Infrastructure (Group C)**
- **Sustainable Feedstock Opportunities and Challenges (Group A)**
- **Creating Opportunities for Advanced Biofuels in Colorado (Group B)**

**2:45 pm      Break**

**3:00 pm      Report Back on Topic Discussions**

**Will Singleton - Singleton Strategies**

*The results and recommendations of the topical discussions will be reported back to all attendees*

**3:30 pm      Discussion of Next Steps**

**Alice Madden - Governor's Climate Change Advisor**

*The next steps and process for review of the meeting memo will be reviewed with participants.*

**3:45 pm      Adjourn**



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# SPEAKER BIOS

### **Paul Argyropoulos - Senior Policy Advisor, U.S. Environmental Protection Agency Office of Transportation and Air Quality**

Mr. Argyropoulos is responsible for providing advice and analysis to the Office Director on a broad range of transportation program issues with a focus on fuels. He chaired EPA's intra agency work group for the first renewable fuels standard program and currently chairs the workgroup responsible for developing the new renewable fuels standard rule required under the Energy Independence and Security Act of 2007.

Prior to his current position, Mr. Argyropoulos spent 7 years with Hart Downstream Energy Services serving in a number of positions, including as Executive Director of the *International Fuel Quality Center* and Director of US Federal Affairs. Before joining Hart, he spent two years with the American Petroleum Institute (API), where he provided regulatory and policy coordination among API Fuels Committees and related workgroups on national and state fuel regulatory and policy issues.

### **Roxanne Dempsey - Senior Project Manager, U.S. Department of Energy Golden Field Office Biomass Program**

Roxanne Dempsey represents the US Department of Energy, Office of Energy Efficiency and Renewable Energy, Office of Biomass Program. Her current duties include Field Lead for the areas of feedstock development, biofuels and infrastructure. She has also served as Regional Team Lead for Renewables Technical Programs, including Industrial Efficiencies, Transportation, and Alternative Fuels.

### **Dale Gardner - Associate Laboratory Director, Renewable Fuels & Vehicle Systems, National Renewable Energy Lab**

In December 2003 Gardner joined the National Renewable Energy Laboratory (NREL) in Golden, CO, a national laboratory the Department of Energy (DOE). He is the Associate Laboratory Director for Renewable Fuels and Vehicle Systems, overseeing and coordinating the research and development activities for biomass, hydrogen, and transportation within the laboratory. These efforts, which support DOE and other stakeholder programs related to the national Biorefinery Initiative, Hydrogen Fuel Initiative, and FreedomCAR and Fuels Partnership, are conducted by NREL's National Bioenergy Center, the Hydrogen Technology and Systems Center, and the Center for Transportation Technologies and Systems, respectively.

During his first two years at NREL Gardner served as the laboratory's Associate Director for Systems Integration, providing direct support to the DOE's Hydrogen Program and its Office of the Biomass Program. In that role, he provided unique systems integration and engineering expertise and experience to these complex programs, bringing best practices from other federal agencies and industries to the research and development management environment.



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### **David Hiller - Executive Director, Colorado Renewable Energy Collaboratory**

David Hiller is the Executive Director of the Colorado Renewable Energy Collaboratory, a 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 with other public and private partners to accomplish three goals: (1) to develop and rapidly commercialize renewable energy technologies, (2) to build a renewable energy economy for Colorado and the nation, and (3) to teach the next generation of scientists and engineers and to train the renewable energy workforce.

Before joining the Collaboratory, David served as State Issues Counsel for U.S. Senator Ken Salazar. In that position, David served as both a policy advisor and a representative for the Senator on natural resources, public lands and environmental issues, with special emphasis on renewable energy. Among other duties, David was one of the coordinators of Senator Salazar's 2006 and 2007 renewable energy summits. David also served as the Policy Director on Senator Salazar's 2004 campaign.

David has a law degree from the University of Michigan. After law school, David practiced for one year in the Solicitor's Office of the U.S. Department of the Interior and for 23 years in Denver, Colorado.

### **Pam Inmann - WGA Executive Director**

Pam Inmann took over the reins at WGA in 2004. She previously worked as the District Director in State Government Affairs at Altria Corporate Services -- the parent company of Philip Morris USA and Kraft Foods, Inc. and formerly of Miller Brewing Company. Prior to joining Altria, Pam worked for ten years for the Rocky Mountain Oil and Gas Association. At RMOGA she served as Director of Special Projects and Director of the Committee on Oil Shale. Her first job in natural resource development was as a public affairs manager for a new uranium mine in central Colorado. Ms. Inmann is a graduate of the University of Colorado in Boulder in 1975 with a Bachelor of Arts degree in Political Science. She is also an avid golfer.

### **Alice Madden - Governor's Climate Change Advisor**

Alice Madden serves as Governor Ritter's Climate Change Coordinator. In that role, she is coordinating efforts, both public and private, to meet the green house gas reduction goals set forth in Colorado's Climate Action Plan. She is also a Senior Fellow on Climate Change for the Center for American Progress.

Alice started her career in the high tech industry and then practiced law for 10 years before running for office. Alice served in the legislature from 2000 to 2008 and was the House Majority Leader for the last four of those years. Among her accomplishments is helping establish Colorado as a leader in what is widely now called the New Energy Economy. She was instrumental on energy issues, particularly establishing the state's renewable energy standard and advancing creative funding mechanisms within a tight state budget.

### **Jim Martin - Executive Director, Colorado Department of Public Health and Environment**

James B. Martin was appointed executive director of the Colorado Department of Public Health and Environment by Governor Bill Ritter, Jr., on January 5, 2007. The Colorado Senate confirmed him on January 26, 2007.





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Mr. Martin is responsible for broad-based health and environmental protection programs, ranging from bioterrorism; disease prevention, control and epidemiology; health statistics and vital records; health facilities licensure and certification; health promotion; maternal, child, adolescent, and women's health; tuberculosis and refugee health; STD/HIV; nutrition services; suicide and injury prevention; emergency medical services; prevention and intervention services for children and youth; and laboratory services. The department's environmental responsibilities span a full array of activities, including air and water quality protection and improvement; hazardous waste; solid waste management; radiation services; pollution prevention; consumer protection; and environmental leadership. He manages a staff of 1,100 with a budget of over \$280 million.

Prior to joining the department, Mr. Martin was the executive director of Western Resource Advocates, a Boulder-based environmental law and policy organization. Prior to that, he was director of the Natural Resources Law Center at the University of Colorado School of Law.

He also was senior attorney and director of the energy program for Environmental Defense, and from 1986 to 1992 he worked for former U.S. Representative and Senator Tim Wirth, including four years as state director and counsel.

Mr. Martin also served on the Colorado Air Quality Control Commission from February 21, 2003 to January 12, 2007.

He earned his undergraduate degree in biology from Knox College in Illinois and his law degree from Northwestern School of Law, Lewis and Clark College, in Oregon.

### **Richard Nelson - Director and Department Head, Engineering Extension Programs, Kansas State University**

Richard Nelson has over 13 years experience in biomass research, performing a number of biomass resource assessments at a county, regional, state, and national basis for agricultural crop residues and herbaceous energy crops. His research focuses on environmental and sustainability aspects of biomass resource production and collection including impacts of residue removal on soil erosion and on water quality at a watershed level. He has conducted research for, and received funding from, several federal, state, and private sources including DOE, EPA, Kansas Electric Utilities Research Program, Western Area Power Administration, Electric Power Research Institute, Kansas Department of Health and Environment, and the Kansas Department of Transportation. Among the projects that Dr. Nelson has lead are Agricultural Soils Mitigation of Greenhouse Gases (CASMGs) – Energy and Carbon Balance Aspects; Reducing Bioenergy Cost by Monetizing Environmental Benefits of Reservoir Water Quality Improvements from Switchgrass Production; Rainfall and Wind Erosion-based Multi-crop Agricultural Crop Residue Removal Analysis and Resource Assessment for the Eastern and Midwestern United States; and Farm-Scale Water Quality/Profit Optimization Environmental and Economic Analysis. In conducting the rain and wind erosion analysis, among other notables, Dr. Nelson has worked closely with Dr. David Lightle, USDA-NRCS National Soil Survey Center.

### **Governor Bill Ritter, Jr.**

Bill Ritter, Jr. was elected as Colorado's 41st governor in 2006 -- the first Colorado-born governor in more than 35 years. Gov. Ritter is leading Colorado forward by bringing people together to tackle some of our state's biggest challenges. He has:



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- Established Colorado as a national and international 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 that is focused on knowledge-based industries of the future, such as energy, aerospace, biosciences, information technology and tourism.
- Initiated sweeping K-12 education reforms to give Colorado children the skills and knowledge they need to compete and succeed in a 21st century global economy.
- Improved access to quality and affordable health care for many of the 800,000 Coloradans who lack health coverage.

Gov. Ritter also is leading Colorado forward by modernizing our transportation system, protecting Colorado's natural treasures and improving the way state government does business.

The sixth of 12 children, Gov. Ritter was raised on a small farm in Arapahoe County. He was a member of the first graduating class of Gateway High School (1974), and he earned his bachelor's degree in political science from Colorado State University (1978) and his law degree from the University of Colorado (1981).

From 1987 to 1990, Gov. Ritter and his wife, First Lady Jeannie Ritter, operated a food distribution and nutrition center in Zambia, Africa.

Gov. Ritter served as Denver's District Attorney from 1993 to January 2005. He earned a national reputation as one of the country's most effective and innovative prosecutors, and several of his programs continue to serve as state and national models. The Governor and First Lady have four children: August, Abe, Sam and Tally.

### **Alex Schroeder - Transportation Fuels Program Director, Western Governors' Association**

Alex Schroeder joined the Western Governors' Association (WGA) in 2005. Prior to joining WGA, he worked for a consulting firm where he assisted in financial analyses and strategic planning for electric utilities. Mr. Schroeder's background includes experience in economic policy development and analysis, industrial process design, and applied field research. He holds an M.S. in Engineering and Technology Management from the Colorado School of Mines and a B.S. in General Engineering from the University of Illinois. He enjoys skiing, biking, and is an avid Denver Broncos fan.

### **Stacey Simms - Renewable Energy Senior Programs Manager, Governor's Energy Office and Chair, Governor's Biofuels Coalition**

Stacey Simms is the Senior Programs Manager for the Governor's Energy Office (GEO). In this position she has development, administrative and managerial responsibilities of renewable energy projects including technologies in the biofuels, wind, solar, geothermal, compressed natural gas and anaerobic digestion. Stacey has been the chairperson of the Governor's Biofuels Coalition since the retirement of the previous NREL chair in 2008.

Prior to joining GEO, Stacey worked at the American Lung Association of Colorado where she managed the Department of Energy's CLEAN CITIES program. Stacey started her career in renewable energy and public administration during her three year tour with the Peace Corps in El Salvador. Stacey graduated from Regis





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University in 2006 where she earned a Master's degree in Management with an emphasis on organizational leadership and project management.

### **John Stulp - Commissioner, Colorado Department of Agriculture**

Prowers County farmer and rancher John Stulp has dedicated his life to Colorado agriculture; he was named commissioner of agriculture by Governor Bill Ritter, Jr. in 2006.

Stulp is an active member of the National Association of State Departments of Agriculture (NASDA) which works to develop and implement sound public policy and programs to support and promote the American agricultural industry, while protecting consumers and the environment. He is also the Secretary Treasurer of a subset of NASDA, the Western Association of State Departments of Agriculture.

During his time at CDA, Commissioner Stulp has committed himself to furthering Colorado's agricultural community by participating in events across the state and around the globe: Chinese trade opportunities, Canadian & cattle industry roundtable, Tri-National Ag Accord, Governor's Forum on Colorado Agriculture, town hall meetings, South Platte Task Force, and various producer and industry meetings.

A member of the Rocky Mountain Farmers Union since 1975, Stulp has been a leading proponent of building wind farms in rural Colorado as a way to develop new economic opportunities and jobs for Colorado's farmers and ranchers. Stulp's family farming operation is home to the Lamar Light and Power Wind Farm, and Stulp is a principal in Prairie Wind Energy LLC.

Stulp served as a Prowers County commissioner from 1991, when he was appointed to fill a vacancy, until January 2005. He also has served on numerous other boards and commissions, including the State Board of Agriculture (1986 to 1995), state Wildlife Commission (1995-99), the Connect Colorado technology committee (1996), the State Land Board (1997-2005), and the Colorado Ag Development Authority & Value Added Board (2005-06).

Stulp graduated from Yuma High School in 1966, earned his bachelor's degree in veterinary science from Colorado State University in 1970 and his doctor of veterinary medicine from CSU in 1972. He and his wife, Jane, have five children.

For more on Stulp's family farm, visit <http://www.cminet.net/~stulp/>.

### **Tom Wardle - Assistant State Forester, Colorado State Forest Service**

Tom Wardle is the Assistant State Forester for the Colorado State Forest Service. Originally from Wisconsin, he received his BS in Forestry from Colorado State University and an MS in Forestry, Fisheries, and Wildlife from the University of Nebraska, Lincoln. He has spent more than 40 years working on forestry issues and has had various roles with the U.S. Forest Service, Colorado Fuel and Iron Corp the state of Nebraska. He also spent 2 years in the Peace Corps in South America. Tom has been with the Colorado Forest Service for 14 years. He is an amateur fly fisherman, but willing to consider a paid position.