

# Climate Action Days

April 19 - 20

Colorado  
School of Mines

## Keynote Address

### The Future of Planet Earth and its Inhabitants: Our Assessment of the Climate Problem and Possible Solutions

April 19, 7-8:30 p.m.  
Bunker Auditorium, Green Center

#### Tim Killeen

Director, National Center for  
Atmospheric Research



and

#### Tom Plant

Director, Colorado Governor's  
Office of Energy Management  
and Conservation



APRIL 20

**Climate  
Symposium**  
9 a.m. to 4 p.m.  
Petroleum Hall  
Green Center

**Demonstrations  
and games**  
Noon to 4 p.m.  
Kafadar Commons

**Technical and  
policy poster  
presentations** from  
Colorado  
School of Mines,  
National Renewable  
Energy Laboratory,  
University  
of Colorado,  
National Oceanic  
and Atmospheric  
Administration and  
National Center  
for Atmospheric  
Research  
Thursday & Friday  
Green Center  
Lobby

**Earth Works  
Earth Day  
Celebration**  
4 p.m.  
Kafadar Commons



Free Admission

Sponsored by the CSM Sustainability Committee

# Climate Action Days



## Symposium

Friday, April 20; Petroleum Hall  
Colorado School of Mines, Green Center  
924 16th St., Golden

### **Section A: Climate: What the Future Holds**

9 a.m.: “Climate Modeling and Climate Change: IPCC AR4 and Beyond”

Lawrence Buja, National Center for Atmospheric Research

*Climate simulations for the most recent IPCC report show that we are already in the midst of a worldwide climate transition. Buja will discuss how broad acceptance of these findings is allowing the climate modeling community to develop detailed, solution-based, research into adaptation and mitigation strategies that will have a significant impact on society.*

10 a.m.: “Water, Climate, and Uncertainty: Critical, Looming Challenges for Colorado”

Brad Udall, University of Colorado

*Colorado faces a large number of challenges to meet its future water needs. Climate projections predict that the American Southwest will dry out in the coming decades. This talk will cover these critical issues and provide guidance on how we should address these looming challenges.*

### **Section B: Technology Solutions**

11 a.m.: “Renewable Energy: Fueling the 21st Century”

Chuck Kutscher, National Renewable Energy Laboratory

*An overview of renewable energy and energy efficiency technologies including the results of a recent study on how these technologies can significantly reduce U.S. carbon emissions.*

Noon: Fuel Cell Panel

Andrew Herring and Neal Sullivan, Colorado School of Mines; John Turner, NREL; Robert Remick, Gas Technology Institute

*Fuel cells have the potential to achieve extremely high energy conversion efficiencies. This panel will discuss the advantages and challenges of this exciting technology.*

1 p.m. “Carbon Capture and Sequestration as a Gigaton Carbon Abatement Technology”

S. Julio Friedmann, Lawrence Livermore National Laboratory

*Carbon capture and storage has emerged as a key technology for substantial greenhouse gas reductions. Friedmann will discuss findings that suggest such technologies may contribute 10-50 percent of the abatement needed for stabilization of atmospheric CO<sub>2</sub> at 560 ppm.*

### **Section C: Policy Solutions**

2 p.m. Hennebach Ethics and Climate Policy Panel:

Michael Zimmerman, University of Colorado; Sandy Woodson, Colorado School of Mines; George William Sherk, Colorado School of Mines Hennebach Visiting Scholar

*A discussion of ethical perspectives on climate policy alternatives such as whether or not to conduct more research, pursue globally binding treaties, promote technological innovation, etc.*

3 p.m. City Government Action Panel

*Representatives from Golden, Denver, Leadville and Vail will discuss climate mitigation strategies from the local government perspective.*

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