

# COLORADO

## *Our Mission:*

*To promote discovery in  
Earth and space science  
for the benefit of  
humanity*

### BY THE NUMBERS

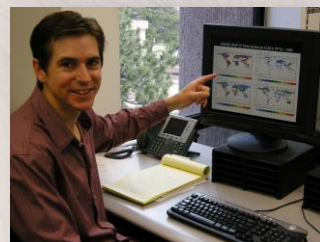
#### *AGU in Colorado*

Total Members	1,968
Student Members	249
Global Membership	58,287

### **DRS. PETER LAWRENCE AND THOMAS CHASE, BOULDER** **NATIONAL CENTER FOR ATMOSPHERIC RESEARCH & UNIVERSITY OF COLORADO**

For thousands of years, humans have changed the natural landscape through activities like farming, logging, and building cities. Peter and Tom are researching how these changes have influenced climate, and they have recently improved climate models' abilities to account for the moisture plants release during photosynthesis, influencing rain and snow. Their work is vital to understanding how the surface of the Earth and human development affect our climate.

*Funded by NSF and NOAA*



### **DR. STEVE BROWN, BOULDER** **NOAA EARTH SYSTEMS RESEARCH LABORATORY**

Denver is about 1,000 miles from the coast; yet, its wintertime air contains a molecule associated with the ocean. Steve is leading a team of scientists to determine why nitryl chloride—a molecule responsible for ozone formation and destruction—forms along the Colorado Front Range using a mobile lab that can travel up and down a nearly 1,000 foot high tower. The results will help us better understand the sources of air pollution along the I-25 corridor and in many landlocked areas.

*Funded by NOAA*

### **DR. JULIA KLEIN, FORT COLLINS** **COLORADO STATE UNIVERSITY**

Invasive species often cause a host of detrimental effects, hurting wildlife and grazing and changing fire patterns and water supplies; yet, why these species can become so prolific is still a mystery. Julia, working in a global collaboration, studies why invasive grasses often become so abundant and how land-use change and nutrient additions can help or hinder invasive species. Ultimately, this work will help land managers, ranchers, and scientists keep invasive species at bay and help keep public and private lands functioning for societal and environmental use.



*Funded by NSF*