



**2012 Research Conference Rocky Mountain National Park**  
Estes Park Municipal Building, Town Board Room • 170 MacGregor Ave, Estes Park, Colorado 80517

**Wednesday, March 28: Morning**

**Room A: Water, Air, and Soil**

8:30-9:00		Coffee and welcome
9:00-9:20		Conference introduction
9:20-9:40	Jill Baron	Empirical Critical Loads of Atmospheric Nitrogen Deposition for Nutrient Enrichment of Mountain Lakes
9:40-10:00	Ellen Wohl	Biotic Drivers of Multi-Thread Channels and the Carbon Cycle
10:00-10:20	Natalie D. Beckman	Log Jams and Carbon Storage in Headwater Streams in Colorado's Front Range.
10:20-10:40		Break
10:40 -11:00	Kyle Grimsley	Debris Flow Chronology and Analysis of Controls on Debris Flow Occurrence in the Upper Colorado River Valley, Rocky Mountain National Park, CO
11:00 -11:20	Katherine B. Benedict	Transport and deposition of reactive nitrogen in Rocky Mountain National Park
11:20 -11:40	Andrew Evans	Macro- and Micronutrient Transport in Frost Affected Soil, Rocky Mountain National Park, Colorado
11:40-12:00	Brooke B. Osborn	Determining Environmental Drivers of Nitrification in Alpine Microbial Ecosystems
12:00-1:00		Lunch



**2012 Research Conference Rocky Mountain National Park**  
Estes Park Municipal Building, Town Board Room • 170 MacGregor Ave, Estes Park, Colorado 80517

---

**Wednesday, March 28: Afternoon    Room A: Vegetation**

---

1:00-1:20	David W. Clow	Responses of Soil and Water Chemistry to Mountain Pine Beetle Induced Tree Mortality in Rocky Mountain National Park
1:20-1:40	Leigh A. Cooper	Effects of Beetle Kill on the Biogeochemistry of Colorado Mountain Streams
1:40-2:00	Jason Sibold	Rapid Forest Change Stresses Importance of Adaptive Management: A Case Study of Ponderosa Pine in Western Rocky Mountain National Park, CO
2:00-2:20	Kristen Kaczynski	Interactions of Native Birds, Ungulates, Fungi, and Drought in the Decline of Riparian Willows
2:20-2:40		Break
2:40-3:00	Jenny Briggs	Effects of Mountain Pine Beetle on 3 Species of Pines in Rocky Mountain National Park and the Front Range, 2009-2011
3:00-3:20	Christopher Davis	Effects of Selective Imazapic Application on Bromus tectorum and Non-Target Species in Rocky Mountain National Park
3:20-3:40	Julia Hicks	Invasion Success of the Exotic Weevil ( <i>Rhinocyllus conicus</i> ) at High Elevations in the Rocky Mountains of Colorado
3:40-4:00	Caitlin A. Kelly	Chemical Mediation of Penstemon-Herbivore Interactions: A Comparison Among Colorado Populations

---



# 2012 Research Conference Rocky Mountain National Park

Estes Park Municipal Building, Town Board Room • 170 MacGregor Ave, Estes Park, Colorado 80517

---

## Wednesday, March 28: Afternoon Room B: Social Science

---

1:20-1:40	Donald E. Zimmerman	Exploring RMNP Visitors' Information Sources, Communications, and Perceptions of Wildlife Management Practices
1:40-2:00	William J. Gribb	Ecotourism and Sustainable Development: Management Strategies of Rocky Mountain National Park
2:00-2:20	Shawn Davis	Visitor's Concerns about Climate Change in Rocky Mountain National Park
2:20-2:40		Break
2:40-3:00	Donald E. Zimmerman	Assessment of Rocky Mountain National Park Backcountry Campers' Adoption of Leave No Trace technologies
3:00-3:20	Elliot Dale	Rocky Mountain National Park Waste Audit 2011: Results and Recommendations
3:20-3:40	Derrick Taff	Visitor Perceptions of Alternative Transportation in Yosemite and Rocky Mountain National Parks

---



**2012 Research Conference Rocky Mountain National Park**  
Estes Park Municipal Building, Town Board Room • 170 MacGregor Ave, Estes Park, Colorado 80517

**Thursday, March 29: Morning**

**Room A: Wildlife**

---

8:30-9:00		Coffee
9:00-9:20	Ryan Monello	Prevalence and Effects of Chronic Wasting Disease in Elk from Rocky Mountain National Park
9:20-9:40	Catherine Driscoll	Population Genetic Analysis of Bighorn Sheep ( <i>Ovis canadensis</i> ) in Rocky Mountain National Park
9:40-10:00	Chris Ray	National Park Service Pika Habitat Occupancy Study: Preliminary Results from Eight Parks
10:00-10:40		Poster Session
10:40 -11:00	Sara J. Oyler-McCance	Investigating Temporal and Spatial Patterns of Genetic Diversity in White-tailed Ptarmigan in and around Rocky Mountain National Park
11:00 -11:20	Greg Wann	Population Demography of White-tailed Ptarmigan at Rocky Mountain National Park
11:20 -11:40	Rich Bray	Long Term Monitoring of Butterflies in Rocky Mountain National Park
11:40-12:00	Fred & Tena Engelman	Rocky Mountain National Park Hummingbird Survey
12:00-1:00		Lunch

---



**2012 Research Conference Rocky Mountain National Park**  
Estes Park Municipal Building, Town Board Room • 170 MacGregor Ave, Estes Park, Colorado 80517

**Thursday, March 29: Morning**

**Room B: Mixed Topics**

---

9:00-9:20	Kristin Jacob	The Never Summer Igneous Complex, Rocky Mountain National Park, Colorado
9:20-9:40	Katie Renwick	Will the Mountain Pine Beetle Outbreak Benefit Aspen?
9:40-10:00	Stephanie O'Meara	Flying Through ROMO's Geology – Integrating the NPS Geologic Resources Inventory Geologic Map with Google Earth
10:00-10:40		Poster Session
10:40-11:00	Blaine Hastings	Influence of Digital Elevation Model Resolution on Terrain Based Hydrologic Parameters for a Subalpine Catchment, Front Range, Colorado
11:00-11:20	Curtis Martin	The Colorado Wickiup Project: Ephemeral Native American Wooden Features in Rocky Mountain National Park
12:00-1:00		Lunch

---



**2012 Research Conference Rocky Mountain National Park**  
Estes Park Municipal Building, Town Board Room • 170 MacGregor Ave, Estes Park, Colorado 80517

---

**Thursday, March 29**

**Room A: International Conservation**

---

1:00-1:20	Ben Bobowski	Introductions
1:20-1:40	Ben Bobowski	A Sister Park Relationship: The Tatra Mountains of Poland and Slovakia and Rocky Mountain National Park, USA
1:40-2:00	James R. Barborak	Using Rocky Mountain National Park as a Living Laboratory for Training Protected Area Managers from around the World
2:00-2:20	David J. Cooper	Comparative Wetland and Alpine Ecosystem Processes in Rocky Mountain National Park and Tatra National Park, Slovakia
2:20-2:40	Jozef Šibík & Ivana Šibíková	Predicting the Responses of Native Trout to Post-Wildfire Debris Flows in Headwater Streams
2:40-3:00		Break
3:00-3:20	Amber Churchill	Review of Research Conducted in Rocky Mountain National Park of CO, USA and the Tatra National Parks of Poland and Slovakia
3:20-3:40	Ben Bobowski	Avian Species Relationships of Rocky Mountain National Park, Colorado, with Monteverde, Costa Rica
3:40-4:00	Christy M. McCain	Mountain Biodiversity Patterns: What Do We Know So Far?
4:00-4:20	Bob Brunswig	Developing Transnational Sister-Park Cultural Resource Research Programs Between Rocky Mountain National Park, the University of Northern Colorado, and the Tatra National Parks of Poland and Slovakia

---



---

**Thursday, March 29**

**Atrium: Poster Session**

---

Apryle Craig	The Effects of Willow Health on Wildlife Biodiversity
Stephanie O'Meara & Bruce A. Heise	Flying Through ROMO's Geology – Integrating the NPS Geologic Resources Inventory Geologic Map with Google Earth
Jason Janke	Measurement of Soil Nutrient Concentration and Carbon Dioxide Production from Seasonally Frozen Alpine Tundra and Forest Soils
Noah Purdy & Melinda Merrill	Comparing the Flow of Ozone from Denver, Estes Park High School, to the Longs Peak Ranger Station to the Ute Trail Location
Douglas Klink & Melinda Merrill	Comparing Ozone Data Between Tatra, Estes Park High School, and the Cloudforest in Monteverde
Elliot Dale	Rocky Mountain National Park Waste Audit and Behavioral Change Intervention Initiative
Ed Hall	Nitrogen Cycling in Loch Vale Watershed: the Microbial Role in Alpine Biogeochemistry
Cara Moore	Relative Sensitivity of the Seasonal Snow Zone to Climate Warming in the Western United States
Joanna Odden	Metagenomic Analysis of Seasonal Bacterial Communities in Alpine Soil of Rocky Mountain National Park
Nicole Brunner	A Study of the Effectiveness of Rocky Mountain National Park Elk and Vegetation Management Plan on Restoring Riparian Willow in the Core Elk Winter Range
Chuck Rhoades & Byron Collins	Ecosystem Changes after Pine Beetle and Salvage Logging in Colorado Subalpine Forests
Judy Visty	Research Installations in Wilderness
Jennifer Sorrentino	Visitor Injury Patterns in Rocky Mountain National Park: 2009 - 2011

---