RM-CESU NEWS & EVENTS

Jerry O'Neal National Park Service Student Fellowship Applications are now being accepted for the Jerry O'Neal Fellowship for work in Glacier National Park, Grant-Kohrs Ranch NHS, and Little Bighorn Battlefield NM. The fellowship aims to provide educational assistance for students seeking to understand natural and cultural resources issues and how these interact with human values. Special consideration will be given to proposals that address the following:

1. natural resource issues such as aquatic ecology, terrestrial ecology, fire ecology, invasive plants, and climate change
2. cultural resource issues, such as history and architectural studies, cultural landscape reports, ethnographic research and archeology
3. social science that informs resource management about a natural or cultural topic and/or that addresses visitor impacts to park resources

Competition is open to graduate students or superior upper division undergraduate students at RM-CESU universities and colleges only. Awards range from $1000-5000. Applications must be submitted electronically by February 16, 2017. Application Process

Boyd Evison Student Fellowship for research in the Greater Yellowstone The Grand Teton Association offers a graduate fellowship of up to $10,000/project for graduate studies focused on documenting the almost intangible and disappearing aspects of the Greater Yellowstone Ecosystem, including Grand Teton and Yellowstone National Parks, the John D. Rockefeller, Jr., Memorial Parkway, and other public or private lands. Emphasis areas are lesser-known ecosystem elements such as air and water; geologic or other processes; plants, insects, reptiles, or amphibians, fungi; natural soundscapes; and social science related to public understanding of natural resources and their use or management. Graduate students pursuing either a Master's or Doctoral degree are invited to submit proposals on the application form by February 10, 2017. Evison Fellowship Call and Application Form
Research by the National Park Service Inventory and Monitoring Program, with assistance from CESU partners, is Highlighted in a special feature in Ecosphere

Research and monitoring at national park units is the subject of a collection of papers in the journal Ecosphere. These peer-reviewed papers on the science and practice of ecology in national parks, are included in a special feature on the National Park Service’s Natural Resources Inventory and Monitoring efforts, “Science for our National Parks’ Second Century”.

“This special feature of Ecosphere celebrates the National Park Service Centennial by highlighting contributions from the agency’s Natural Resources Inventory and Monitoring Division,” said Ecosphere Editor in Chief, Dr. Debra Peters. “This collection of papers illustrates and showcases the breadth and depth of research being conducted in the National Park System, and provides park managers with high-quality scientific information for use in decision-making. We certainly think the centennial is worth celebrating, and are pleased to be part of this very special occasion.”

Together, these articles are the work of 113 authors representing 14 agencies, non-governmental organizations and universities. They describe the variety of challenges in natural resources management as well as the pivotal role that science and research play in influencing management decisions. A number of these articles include collaborations by Rocky Mountains CESU partners, including the NPS, USGS, Montana State University and Colorado State University. Topics included in this collection of papers are (1) model of wetlands health in Rocky Mountain National Park, (2) the role of blister rust, drought and mountain pine beetles in whitebark pine mortality in the Greater Yellowstone, (3) the use of models to inform elk management in Rocky Mountain National Park, and (4) the integration of climate data and amphibian monitoring data at Yellowstone and Grand Teton National Parks. Rocky Mountain parks are included in a systemwide analysis of bat conservation and the advancing spring onset due to climate change.

Rocky Mountains CESU partners Edit a Book on Climate Change in Wildlands, and How to Manage at the Landscape Scale


This recently published book is the end product of a five-year, NASA-funded project, the “Landscape Climate Change Vulnerability Project,” which brought together scientists from the National Park Service, USDA-Forest Service, US Geological Survey, Colorado State University and Montana State University to focus on assessment and adaptation planning for ecosystems in the US affected by climate change. The objective of the study, and additional work on landscape level analyses as part of the Great Northern Landscape Conservation Cooperative, the NPS Inventory and Monitoring Program, and the NPS Natural Resources Condition Assessments, was to use remote sensing data and remotely sensed models to understand the ecological integrity of wildlands in the US, with an emphasis on the Rocky Mountains and the Appalachians. The important stressors addressed in these analyses include climate change and other human alterations of wild landscapes. The book includes chapters on identifying information needs, assessing ecosystems vulnerability, and evaluating and then implementing management options. Detailed case studies from Rocky Mountain and Yellowstone NPs are included in this volume.
The Director of the National Park Service, Jonathan Jarvis noted that “Climate Change in Wildlands is an important contribution to resource managers and scientists facing the daunting challenges of climate change. Through work in two mountain ranges—Rockies and Appalachians—the authors illustrate an approach to climate change adaptation informed by analyses, decision support tools, and dialogue with land managers to identify threats to resources and options for responding. Climate change presents unprecedented challenges to those responsible for stewardship of our public lands. This volume provides important examples and guidance for navigating those challenges.”

$70.00, hardback, ISBN: 9781610917117; Pub Date: June 2016 or in paperback, $35, ISBN: 9781610917124; Pub Date: June 2016, Available through Island Press

**PARTNER NEWS & EVENTS:**

**Montana State University:** MSU faculty and graduate student document first-ever Montana bumble bee species record, publish paper

The first time a bumble bee was recorded in Montana was in the journals of the Lewis and Clark expedition in 1805. More than 200 years later, Montana State University faculty and a former graduate student say they now have compiled the state’s first inventory of bumble bees known to live in Montana, and their research reveals the largest number of bumble bee species known from any state in the nation. Read more: [Montana Bumble Bees](#)

**Utah State University:** Freezing in Record Lows? You May Doubt Global Warming says USU Scholar

If you’re shivering from unusually teeth-rattling cold this holiday season, global warming is probably the last thing on your mind.

“The local weather conditions people experience likely play a role in what they think about the broader climate,” says Utah State University researcher Peter Howe. “Climate change is causing record-breaking heat around the world, but the variability of the climate means that some places are still reaching record-breaking cold. If you’re living in a place where there’s been more record cold weather than record heat lately, you may doubt reports of climate change.”

Howe says people’s beliefs about climate change are driven by many factors, but a new study in which he participated suggests weather events in your own backyard may be an important influence. Read more: [Freezing in Record Lows?](#)

**University of Calgary:** History brought to life through new digital collection

Digitization of Arctic Institute collection broadens access to documentation of exploration of the North in the 1800s and early 1900s

It’s one thing to read about 19th century explorer Sir John Franklin in the history books. It’s another thing altogether to read a letter written and signed by him personally.

A newly digitized collection is bringing history to life through tales of adventure and discovery in the Arctic in the 1800s and early 1900s. There are 24 letters written by Franklin in the collection that belongs to the Arctic Institute of North America (AINA) at the University of Calgary. It has now been digitized and made available online as part of the Arctic and Northern Studies digital collection hosted by Libraries and Cultural Resources. Read more: [History brought to life](#)
Calendar of Events:


April 2-7, 2017: The 19th George Wright Society Conference on Parks, Protected Areas, and Cultural Sites, Norfolk, VA. Conference Website

STUDENT OPPORTUNITIES

Registration now is open for 2017 summer field ecology courses at the University of Montana’s. The courses range from resource management and conservation to studying the ecology of lakes, streams, forests, mountains, aquatic microbes and more. Two- and four-week courses begin June 26, and they continue in two-week blocks through Aug. 18. Find out more on the FLBS website.

Summer Seasonal Positions and Internships:

Trail Crew Leader and Member positions, Selway Bitterroot Frank Church Foundation, Montana and Idaho (closes 2/17/2017) Position Description

Trail Crew Leader and Weeds Crew Leader, Bob Marshall Wilderness Foundation, Hungry Horse, MT (closes 2/1/2017) Position Description

Wilderness Ranger Internship, Bob Marshall Wilderness Foundation, Hungry Horse, MT (closes 2/27/2017) Position Description

Recreation positions, Lolo National Forest, Seeley Lake Ranger District, Seeley Lake, MT (closes 1/10/2017) Position Description

JOB OPPORTUNITIES

For details, visit Job Opportunities

Assistant Professor of Forest Biometry and Natural Resource Management, Department of Forest and Rangeland Stewardship, Colorado State University, Fort Collins, CO (screening of applications will begin 2/8/2017)

Assistant Professor of Human Dimensions of Natural Resources, Colorado State University, Fort Collins, CO (screening of applications will begin 1/31/2017)

Recreation Tenure-Track Faculty, Department of Health Professions at Metropolitan State University of Denver, Denver, CO (closes 1/30/2017)

Assistant Professor of Critical Zone Geoscience, Department of Geosciences, Colorado State University, Fort Collins, CO (screening of applications will begin 1/22/2017)

Integrated Water Resources-Faculty, College of Natural Resources, University of Idaho, Moscow, ID (screening of applications will begin 1/22/2017)
Native Plant Regeneration-Faculty, College of Natural Resources, University of Idaho, Moscow, ID (screening of applications will begin 1/22/2017)

Human Dimensions of Natural Resources- Faculty, College of Natural Resources, University of Idaho, Moscow, ID (screening of applications will begin 1/22/2017)

Department Head, Forest, Rangeland, and Fire Sciences, College of Natural Resources, University of Idaho, Moscow, ID (screening of applications will begin 1/22/2017)

Assistant Professor-Economic Geology, Department Geology and Geophysics, University of Wyoming, Laramie, WY (screening of applications will begin 1/20/2017)

Biological Science Technician (Wildlife), National Park Service, Hot Springs, SD (closes 1/16/2017)

Archivist Assistant, American Heritage Center, University of Wyoming, Laramie, WY (closes 1/11/2017)

Natural Resources Manager, Army Installations Management Command, Fort Wainwright, AK (closes 1/10/2017)

Assistant Professor of Water Quality, Ecosystem Science and Sustainability, Colorado State University, Fort Collins, CO (screening of applications will begin 1/9/2017)

If you would like to post an announcement in the next RM-CESU Newsletter or on the website, please contact the RM-CESU Coordinator at rmcesu@cf.c.umt.edu.