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 13, 2013. For details on the application process please visit http://www.cfc.umt.edu/cesu/files/Announcements/ONeal13.pdf

Boyd Evison Student Fellowship for research in the Greater Yellowstone
The Grand Teton Association and Grand Teton National Park offer 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 15, 2013. For more information, contact Jan Lynch, GTA Executive Director, 307-739-3406 or Sue Consolo Murphy, Grand Teton National Park Chief of Science & Resource Management, at 307-739-3481

Mark Williams, INSTAAR, University of Colorado Boulder in Inducted as AGU Fellow at Annual Meeting in San Francisco At the annual meeting the of the American Geophysical Union (AGU) in San Francisco, four University of Colorado faculty members joined 57 other AGU Fellows elected from around the world in 2012, in an Honors Ceremony and Banquet held on December 6-7, 2012.

Mark Williams, the original representative to the Rocky Mountains CESU from CU Boulder was one of the new AGU fellows.

The AGU was established in 1919 to further advance the science of geophysics both on Earth and on other planets, the international, nonprofit organization now has more than 60,000 members worldwide. Elected AGU Fellows, who make up no more than 0.1 percent of AGU members in any given year, are honored for their exceptional scientific contributions in the fields of earth and space sciences.

"This is a great honor for the University of Colorado Boulder and shows once again our faculty are working and teaching at the frontiers of science," said CU-Boulder Vice Chancellor for Research Stein Sture. "To lead the world in the number of fellows elected by the American Geophysical Union in 2012 is indicative of the quality and depth of CU-Boulder's research and education in both earth sciences and space sciences."

Mark Williams, who is affiliated with CU's Institute of Arctic and Alpine Research, was cited for outstanding research that has made fundamental advances in mountain hydrology and biogeochemistry. He has worked in the Rocky Mountains, Sierra Nevada, the Himalayas, the Andes and the Alps and is the principal investigator on a $5.9 million grant to CU from the National Science Foundation to continue intensive studies of long-term ecological changes in Colorado's high mountains, both natural and human-caused, over decades and centuries.

Mark's work at CU Boulder has been through the Department of Geography, the Environmental Studies Program, the Institute of Arctic and Alpine Research, and the Renewable and Sustainable Energy Institute. Mark also serves as the Principal Investigator for the Niwot Ridge Long Term Ecological Research program in Colorado and is a Co-investigator on the research project: Contribution to High Asia Runoff from Ice & Snow (CHARIS).

He is a Fulbright Scholar and the PI or Co-investigator on an array of projects in mountain ecosystems, sponsored by National Science Foundation, State of Colorado, National Park Service, USDA, USAID and NASA.

Mark is also a science communicator, working with NPS programs such as the Inventory and Monitoring program, to help get “useable science” to meet management needs. He does extensive outreach to the public, as evidenced by a recent interview with Elevation Outdoors Magazine in Dec 2012: http://www.elevationoutdoors.com/sports/snowsports/the-big-melt-down/

Mark celebrated his induction as an AGU Fellow with his wife, Claudia, and former graduate students and colleagues at the banquet in San Francisco.
As a non-fiction writer quickly approaching graduation, I was delighted to be hired on as the Sustainability Communication Intern at the Crown of the Continent Research Learning Center (CCRLC) in Glacier National Park. This experience has been informative as well as fun and I enjoyed writing and researching for the various communication products I produced. In fact, working at Yellowstone last year and Glacier this year has been invaluable to me.

I feel the National Park Service (NPS) is on the leading forefront in implementing sustainable operations and in understanding how healthy ecosystems operate in diverse landscapes. I appreciate this and find it exciting to work at places where efficient and resourceful options are being pursued. It’s also interesting to work with seasoned employees as well as others just beginning to explore NPS career opportunities. Not to mention, Glacier’s astounding landscape has been awe-inspiring like Yellowstone, Glacier has stolen a piece of my soul.

I grew up in the Frank Church and Selway-Bitterroot Wilderness Areas so working in national parks with large tracts of protected land is a dream job and reminds me of home. Although my season was short-- three months is not a lot of time to get things done-- it’s been a pleasure to see some of the projects I have worked on come to completion. I worked hard to create resource bulletins on mountain goats and loons and discovered pieces like these are edited and re-edited until all involved are satisfied with the end product. This causes me to smile because, as I know well, this is the life of a writer!

I also completed the layout for five new webpages on the topic of sustainability for Glacier’s website as well as wrote informational blurbs for the CCRLC’s new website. I ended my season piloting a lighting assessment project which will help the park in its efforts to become a Dark Sky Park (http://www.darksky.org/night-sky-conservation/national-park-service). Thanks much to the crew at the CCRLC for their many kindnesses and help throughout the season!
PARTNER NEWS & EVENTS

Announcements:
Colorado State University

**CSU Launches New Ecosystem Science and Sustainability Bachelor of Science Degree**
The Department of Ecosystem Science and Sustainability in Colorado State University's Warner College of Natural Resources has announced the launch of a new bachelor of science degree in Ecosystem Science and Sustainability. The department is accepting students into the new major now, and classes start in spring 2013.

The new degree integrates advanced ecosystem science with real-world environmental decision-making and public policy to provide students with thorough knowledge of intricate ways in which organisms interact with their environments to form complex ecosystems, and the intertwined impacts and effects that challenge societal and ecosystem sustainability. The new degree is designed to meet the growing demand for well-qualified scientists, researchers, and professionals who can help create integrative solutions for sustainability and promote environmentally sound decision making.

For more information about the new Bachelor of Science in Ecosystem Science and Sustainability and other degrees offered by Warner College, visit [http://warnercnr.colostate.edu/FindYourPath](http://warnercnr.colostate.edu/FindYourPath).

Montana State University

**Three MSU faculty members named Fellows for outstanding contributions in their fields**
Three Montana State University faculty members who have made outstanding contributions in earth sciences, ecology and math were recently named Fellows of their professional organizations.

Cathy Whitlock, professor of earth sciences and MSU director of the Institute on Ecosystems, was named a Fellow of the American Association for the Advancement of Science (AAAS). This leading scientific organization advances science around the world and across all disciplines.

Duncan Patten and Marcy Barge are in the first group of Fellows ever chosen by their societies. Patten, director of the Montana Water Center and research professor in the Department of Land Resources and Environmental Sciences, was named a Fellow of the 97-year-old Ecological Society of America (ESA). Barge, a professor in the Department of Mathematical Sciences, was named a Fellow of the American Mathematical Society (AMS), which will celebrate its 125th anniversary in 2013.


National Park Service

**The NPS Cultural Landscapes Program website** [http://www.nps.gov/cultural_landscapes/](http://www.nps.gov/cultural_landscapes/) was officially launched last month. The site, designed for broad audiences as well as preservation community members, provides answers to basic questions about cultural landscapes, serves as a gateway for more in-depth discoveries, provides feature stories on cultural landscapes, key people related to landscapes, and public versions of selected cultural landscape inventories (CLIs). Over the next year, additional stories and CLIs will be made publically available. A companion Facebook page has also been created at [http://www.facebook.com/nationalparkservice#!/NPSCLP?fref=ts](http://www.facebook.com/nationalparkservice#!/NPSCLP?fref=ts)
Calendar of Events:

March 11-15, 2013: 2013 George Wright Society Meeting, Denver, CO. Every two years, the George Wright Society organizes the USA’s premier interdisciplinary professional meeting on parks, protected areas, and cultural sites. http://www.georgewright.org/gws2013


June 4-8, 2013: International Symposium on Society & Resource Management, Estes Park, CO. ISSRM is the premier scientific meeting for academic and government researchers, students, agency scientists, land managers, NGO representatives, and other individuals who are broadly interested in the human dimensions of natural resource management issues. Meeting sponsored by Colorado State University. Abstract submission deadline for individual paper, poster, or organized session is February 4th 2013. http://www.issrm2013.iasnr.org/

TRAINING AND COURSE OPPORTUNITIES
Utah State University’s Online Master of Natural Resources Degree Earn a master's degree online from one of the nation's top natural resources programs without relocating.
• This non-thesis master's degree is designed around the needs of working professionals.
• Interdisciplinary coursework focuses on seven core areas needed for effective management of our resources and the people who use them: Administration, Ecological Principles, Economics, Human Dimensions, Policy, Spatial Analysis, and Statistics.
• The degree is tailored to the interests and needs of individual students.

MNRM is a member of the Natural Resources Distance Learning Consortium (NRDLC). For more information: http://www.cnr.usu.edu/htm/students/mnr

University of Montana offers online course - Managing Recreation Resources in Wilderness PTRM 407 Management of Recreation Resources (3 credits Undergraduate) and PTRM 562 Managing Recreation Resources in Wilderness Settings (3 credits Graduate) will be offered online with a facilitated discussion group led by instructor Kari Gunderson. Invited guest instructors may include Carhart Wilderness Training Center staffs, academics, and working wilderness managers. The online format enables students to work through the course efficiently while benefiting from discussion with other students, agency managers, and academics.

This course examines recreation management in a wilderness setting. Upon successful completion of this course, students will understand wilderness management strategies to address visitor use, visitor experiences, measuring and monitoring biophysical and social impacts, communicating effective wilderness education, interpretation, information, and conceptual approaches to communication, search and rescue protocol, and law enforcement.
Dates: February 4 thru May 25, 2013 (The course runs for 16 weeks) Registration deadline: Tuesday, January 29, 2013. The course will be capped at 16 students. Register early to reserve a spot. For more information (course objectives, costs, books), please visit http://wmdep.wilderness.net/407_562.htm

RESEARCH/FUNDING OPPORTUNITIES

The Department of Defense's (DoD) Strategic Environmental Research and Development Program (SERDP) is seeking to fund environmental research and development proposals. SERDP is DoD's environmental science and technology program, planned and executed in partnership with the Department of Energy and the Environmental Protection Agency, with participation by numerous other Federal and non-Federal organizations. The Program invests across the broad spectrum of basic and applied research, as well as advanced development.

Proposals responding to focused Statements of Need (SON) in the following areas are requested:

- **Environmental Restoration** — Research and technologies for the characterization, risk assessment, remediation, and management of contaminants in soil, sediments, and water.
- **Munitions Response** — Technologies for the detection, classification, and remediation of military munitions on U.S. lands and waters.
- **Resource Conservation and Climate Change** — Research that advances DoD's management of its natural and cultural resources and improves understanding of climate change impacts.
- **Weapons Systems and Platforms** — Research and technologies to reduce, control, and understand the sources of waste and emissions in the manufacturing, maintenance, and use of weapons systems and platforms.

Proposals responding to the Fiscal Year (FY) 2014 SONs will be selected through a competitive process. Separate solicitations are available to Federal and non-Federal proposers. The SONs and detailed instructions are available on the SERDP website at www.serdp-estcp.org/Funding-Opportunities/SERDP-Solicitations.

The Core SERDP Solicitation provides funding in varying amounts for multi-year projects. All Core Solicitation pre-proposals are due to SERDP Tuesday, January 8, 2013.

STUDENT OPPORTUNITIES

**SBFCF 2013 Wilderness Ranger Internship Program** The Selway-Bitterroot Frank Church Foundation, in partnership with the U.S. Forest Service and Montana Conservation Corps, will be offering a minimum of six Wilderness Ranger Internship positions in the Selway-Bitterroot and Frank Church-River of No Return Wilderness areas during the summer of 2013 for students enrolled in wilderness management, recreation management or natural resource management academic programs. See full announcement here: http://www.selwaybitterroot.org/wp-content/uploads/WildernessRangerInternshipPD2013.pdf The application deadline is February 15, 2013.

**Conservation Leadership MS Program - Colorado State University** - Now accepting applications for August 2013 start Society is faced with some of the greatest challenges in history, from climate change to biodiversity loss to energy security and beyond. We need leaders who think differently, embrace complexity, and see the human and environmental condition as one intricate system. CSU's Conservation
Leadership Program, also called, Conservation Leadership Through Learning (CLTL) is a 21-month Master of Science degree that will prepare students to be a part of the next generation of conservation leaders who will tackle these dynamic challenges. In August 2013, the third cohort of students will begin an intensive educational journey in the United States and around the world. CLTL merges trans-disciplinary university education with real-world action to train leaders who can deliver on-the-ground benefits for conservation and communities. By reaching far beyond the classroom walls, students will develop the knowledge and real-world skills to become effective conservation leaders making a difference for the environment and people’s lives.

CLTL is a partnership between Colorado State University’s Warner College of Natural Resources and our university, NGO, governmental, and community partners around the world. For more information, please visit their website (http://leadershipthroughlearning.org/) or contact leadership@warnercnr.colostate.edu. Applications are now being accepted through February 15th 2013, for an August 2013 program start date.

JOB OPPORTUNITIES

**Forest Ecologist, Assistant Professor**, Department of Wildland Resources, Quinney College of Natural Resources, Utah State University, Logan, UT (screening of applications will begin on 2/1/2013)

**Archaeologist**, Bureau of Land Management, Battle Mountain District, NV (closes 1/23/2013)

**Director, Wildlife Biology Program, Ecosystem and Conservation Sciences**, University of Montana, Missoula, MT (screening of applications will begin on 1/15/2013)

**Wildlife Biologist**, Bureau of Land Management, Lakewood, CO (closes 1/14/2013)

**Natural Resources Specialist**, Center for Environmental Management of Military Lands, Colorado State University. This position is located at Donnelly Training Area, Alaska. (closes 1/13/2013)

**Assistant Professor of Geographic Information Science**, Department of Geography, University of Montana, Missoula, MT (screening of applications will begin on 1/10/2013)

**Assistant Professor of Watershed Hydrology**, Montana State University, Bozeman, MT (screening of applications will begin on 1/9/2013)

**Assistant or Associate Professor - Geological Science**, University of Idaho, Idaho Falls, ID (screening of applications will begin on 1/7/2013)

**Geographer (GIS)**, National Park Service, Denver, CO (closes 1/2/2013)

**Extension Forage Specialist (Assistant Professor)**, Montana State University, Bozeman, MT (screening of applications will begin on 1/2/2013)

**Geologist**, Idaho Panhandle National Forest, Coeur d’Alene, ID (closes 1/2/2103)

For details on job opportunities visit [http://www.cfc.umt.edu/cesu/Postings/Jobs.php](http://www.cfc.umt.edu/cesu/Postings/Jobs.php)
MEETINGS OF INTEREST

http://www.environmentaldisasters.net/

http://www.georgewright.org/gws2013

http://www.nationaladaptationforum.org/

May 19-23, 2013: 2013 National Outdoor Recreation Conference in conjunction with the second annual International Union of Forest Research Organizations Conference on Forests for People, Traverse City, Michigan.

June 16-20, 2013: 9th North American Forest Ecology Workshop, Bloomington, IN. The conference will allow forest ecologists, silviculturists, wildlife biologists, and other forest researchers and managers from Canada, Mexico, Central America and the United States to gather and exchange current research and management approaches within the backdrop of the US central hardwood forests. http://nafew.org/

July 21-25, 2013: 26th International Congress for Conservation Biology, Baltimore, MD. The biennial International Congress for Conservation Biology is recognized as the most important global meeting for conservation professionals and students. The theme of the 26th ICCB is “Connecting systems, disciplines and stakeholders” and the meeting will be aptly located along the shores of the Chesapeake Bay in Baltimore’s Inner Harbor. Chesapeake Bay is the world’s most productive estuary and the region is rich in cultural and historical heritage and conservation challenges and success stories.
http://www.conbio.org/mini-sites/iccb-2013

September 16-19, 2013: 12th Biennial Conference of Research on the Colorado Plateau, Northern Arizona University, Flagstaff, AZ. Resource managers, scientists, citizens, and students are invited to attend and participate in this solution-oriented conference that addresses some of the most pressing natural and cultural resource management issues facing the Southwest and virtually every other region in North America. Call for sessions, workshops, and papers information will go out in early 2013.

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@fcf.umt.edu.