A Message from the Director

Welcome to the Graduate Degree Program in Ecology 2010 Newsletter!
This marks the end of my first year as GDPE Director, and it has been a busy and productive year. Most notably, our program continues to grow rapidly. We admitted a record cohort of 26 new students in Fall 2009 and another 9 in Spring 2010. This brings our current enrollment to some 114 students. With at least another 27 incoming students for Academic Year 2010, GDPE will be pushing 140 students (compared to less than 100 only 3 years ago)! This impressive growth speaks to the great success of our program as we continue to maintain a dominant presence in graduate education at Colorado State University. Indeed in the last year, 9 MS and 7 PhD students graduated, joining the ranks of our over 250 alumni. Our faculty continues to expand as well; this year we added another 14 faculty affiliates, bringing our total to some 154.

(Continued on next page)
Highlights of the year included a half-day orientation in late August for incoming students at the Mishawaka Inn in the Poudre Canyon and a community-wide Fall picnic at Rolland Moore Park in Fort Collins, attended by over 100 faculty, students, friends and family. We had a very successful year with our signature Distinguished Ecologist series, now over 30 years old. We honored a GDPE alumna, Rebecca McCulley, a resident GDPE Distinguished Ecologist, Bill Romme, and we hosted three visitors (Gretchen Daily, Bradley Cardinale and Ray Hilborn) who gave engaging public seminars and interacted intensively with students and faculty while on campus. Another highlight was the student-organized and hosted annual Front Range Student Ecology Symposium (FRSES). The event was a great success, as evidenced in part by having the largest attendance in its 16-year history. As part of our image upgrade, we significantly improved the GDPE website. It now has an aesthetic, open feel and it is packed with useful information for prospective students, current students and faculty alike. Please have a look (www.ecology.colostate.edu) if you haven’t visited the webpage recently. To conclude the year, we will have an annual meeting on May 6 at Avogadro’s Number on Mason Street for the whole GDPE community. And of course graduation is just around the corner – we will be hosting a reception in the Lory Student Center to honor our most recent graduates.

I’ll close by saying the success of GDPE relies fundamentally on the contributions and participation of faculty and students across the entire CSU campus (and beyond). I am constantly encouraged by the willingness of our community to invest the time and energy it takes to sustain GDPE’s nationally recognized leadership in interdisciplinary graduate education. Particular thanks go to those who are most actively involved in keeping the program running smoothly, especially Program Coordinator Jeri Morgan and the GDPE Executive Committee. Thanks also to the several administrative units that oversee, encourage and/or otherwise support GDPE during challenging budget times at CSU: Jan Nerger (Dean, CNS), Joyce Berry (Dean, WCNR), Dan Bush (Chair, Biology Dept.), Peter Dorhout (Dean, Graduate School) and Rick Miranda (Provost, CSU).

**GDPE Annual Meeting**

The GDPE Annual Meeting will be held this year at Avogadro’s Number (605 S. Mason) on Thursday May 6 from 5-8 pm.

Last year’s event was a resounding success. New Belgium Brewery provided a comfortable, albeit very warm backdrop, for conversation, new connections and bluegrass music provided by Blue Grama, pictured here whose members include one of our own GDPE recent graduates, Ian Leinwand (far right).

We hope that this year’s event will have a similar outcome. This year, family members and significant others are welcome.
The theme of the 16th annual Front Range Student Ecology Symposium (FRSES) was “Laws of Nature: The Integration of Science and Policy.” The two-day event kicked off on Tuesday, February 23rd with an enlightening and optimistic address by keynote speaker, Dr. Richard Pouyat, USDA Forest Service. Dr. Pouyat confronted some of the most challenging barriers separating the integration of science into environmental policy. Along with providing a brief history of how policy-making has started incorporating the biological sciences through the past 50 years, Dr. Pouyat provided listeners with a framework of the different entities involved in changing policy. He concluded by proposing specific actions that ecologists and the ecological community can undertake to effectively help integrate science with public policy.

Wednesday, February 24th was full of activities and events. The day consisted of eight oral presentation sessions, a five-member panel lunch discussing the symposium theme, poster session, photo contest, Ecology Expo, and an awards banquet. Graduate and undergraduate students came from all along the Front Range to present their research in oral or poster format. Students were encouraged to present in any of the three research stages: Proposed, Underway, or Completed. Oral presentation session topics included Remote Sensing, Behavioral Ecology, and Social-Ecological Systems. Posters ranged in topics and research progress, and 38 were presented in the hour and a half afternoon session. Feedback for each presentation was provided by an excellent group of volunteer faculty judges.

(continued on next page…)

Front Range Student Ecology Symposium Awards

**Best Undergrad Poster**
1. Casey Rommel Colorado College
2. Tanya Chesney Metro State College
3. Staci Amburgey CSU, Biology

**Best Graduate Poster**
2. Jenny Soong CSU, GDPE
3. Chrissy Alba-Lynn CSU, GDPE

**Front Range Student Ecology Symposium Awards**

**Best Undergrad Oral Presentation**
1. Adam Miller CSU, Biology
2. Matt Ross CU-Boulder
3. Justin Calvert CSU, BSPM

**Best Graduate Oral Presentation**
1. Kelly Hopping CSU, GDPE
2. Jess Salo CSU, GDPE
3. Julie Kray CSU, GDPE

2010 FRSES Acknowledgements

The 2010 Executive Board: John Murgel, Patty York, Jessica Salo, and Hannah Wilbur; the 2010 Committee Chairs: Sarah Bisbing, Meg Steinweg, Kirstin Holfelder, Kristen Kaczynski, Kelly Hopping, Jessica Ernakovich, Kerry Byrne; the 20 additional members of the 2010 Planning Committee, and of course our fabulous advisors, Dr. LeRoy Poff and Jeri Morgan.
Sharon Poessel presents her poster on black footed ferret survival to Amanda Hardy.

The five-member panel lunch included a mix of professionals from the ecology community (pictured in photo on preceding page):

- **Nick Reyna**, MS and Assistant Station Director for Strategic Management and Application at the USDA Forest Service Rocky Mountain Research Station
- **Dr. William Lauenroth**, Professor in the Department of Botany at the University of Wyoming and former GDPE Director
- **Dr. Richard Pouyat**, the FRSES keynote speaker and Bioclimatologist with the USDA Forest Service.
- **Dr. Michele Betsill**, Associate Professor in the CSU Department of Political Science
- **Dr. Dennis Ojima**, Professor at CSU & Senior Scholar at the Center for Science, Economics and the Environment

The panelists presented their views on how science should influence policy. While all five panelists agreed that science should influence policy, the proper way of attempting that influence was up for debate. While advocacy for science in general was deemed appropriate, a few panelists made an important distinction that scientists should remain unbiased and professional so as not to confuse the purpose of science to the general public. In conclusion, it was decided that ecologists and other scientists should be active in their community and be able to wear both a “scientist hat” and a “citizen hat” in an attempt to bridge the gap between scientific understanding and the influence the general public has on policy making.

Concurrent with the afternoon poster session was the first ever Ecology Expo. Although small in its initial year, the Expo attracted representative organizations from the Front Range community utilizing both science and policy in their respective projects. Organizations included the National Earth Observatory Network (NEON), Colorado Natural Heritage Program, Larimer County Weed District, Wilderness Society, United States Geologic Service (USGS), Legacy Land Trust, and two student organizations. Networking opportunities were facilitated between these organizations and both undergraduate and graduate students.

The 16th Annual FRSES concluded with an awards banquet and reception a three-member Colorado State University jazz ensemble performed. Prized were awarded to graduate and undergraduates in both oral and poster presentations, along with first place in each of the four photo contest categories. The 2010 Symposium was a great success, and we look forward to seeing everyone again in February of 2011!

By Patty York

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**Photo Awards Winners** *

1. **Best Photo Overall**
   Julie Kray CSU GDPE “The San Luis Valley”

2. **Best Study Organism**
   Broox Boze CSU, Biology “Rainbow Scarab”

3. **Best Landscape**
   Kristopher Hite CSU, Biochemistry for his photo taken near Moab, Utah

4. **Best Research-in-Action**
   Kerry Byrne CSU, GDPE, “Field Work on Crutches”

* Winning photos found throughout Newsletter

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The **Distinguished Ecologist Series** brings top ecologists to CSU for presentations and discussions with faculty and students. All presentations can be “streamed” from our web page: [http://www.ecology.colostate.edu/news/seminars_video.php](http://www.ecology.colostate.edu/news/seminars_video.php)

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**Rebecca McCulley**  
**GDPE Honor Alumna**  
GDPE PhD graduate (2002), is currently an Assistant Professor in the Department of Plant & Soil Sciences at the University of Kentucky. Her research seeks to understand the ecological factors and processes that control rates of biogeochemical cycling and ecosystem structure and function in grass- and shrub-dominated systems.

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**Bill Romme**  
**GDPE Resident Ecologist**  
Bill Romme’s work in forest ecology provides the foundation for much of what we know about Rocky Mountain forests. He spoke about his career in terms of a ‘steep learning curve and the ecological adventure of a lifetime.”
2010 Distinguished Ecologist Seminars

Gretchen Daily
Gretchen Daily is a professor in the Department of Biology, Stanford University. Her scientific research focuses on biodiversity change, on the scope for harmonizing biodiversity conservation and agriculture, on quantifying the production and value of ecosystem services across landscapes, and on developing new policy and finance mechanisms for integrating the values of natural capital into major decisions.

Ray Hilborn
Ray Hilborn is a professor in the School of Aquatic and Fishery Sciences, University of Washington, specializing in natural resource management and conservation. He serves as an advisor to several international fisheries commissions and agencies.

“Rising Star” Ecologist Brad Cardinale
Brad Cardinale received his Ph.D. from the University of Maryland in 2002 and conducted post-doctoral research at the University of Wisconsin. He is a community ecologist using theory, experiments, and observational studies to understand the causes and consequences of changing biological diversity in the modern era.
Beyond Ecology

GDPE PhD Student Kerry Byrne Promotes Bike Safety

Before moving to Fort Collins, Kerry Byrne, GDPE PhD candidate, lived in Davis, CA for 7 years. Davis is considered a “platinum” city by the league of American bicyclists. One of the reasons Kerry was drawn to Fort Collins was because of the great cycling culture here. Kerry commuted almost exclusively by bike in Davis (16 mile one way commute to Sacramento) and never had any “accidents”. However, soon after moving here, she was hit by a car while biking home from the grocery store. It was the driver’s fault. He didn’t see her, turned left into her and Kerry rolled onto his hood. Kerry was shaken up, but continued riding every day. Then, last February, she was hit again by a driver who “just didn’t see her” and turned left into her! This time, the impact was to her ankle. She had a lot of damage and ended up breaking her foot on a run soon after the accident because her ankle couldn’t handle running.

Because of her personal bike experiences, combined with the alarming number of cycling fatalities here in Fort Collins, she felt like she needed to take action. She wrote a proposal for a bike safety program, “Ramcycle”, and her grant was funded for $1,800. The objective of Ramcycle was to run a pilot project in one dorm, with hopes to expand to all dorms next year as more volunteers/funding are found. There were three one-hour classes:

- Bike laws and bike safety (how to avoid getting a ticket and how to stay safe on the road). The city bike coordinator spoke, and also a CSU student who ran a stop sign on his bike and was in a very bad accident when the car at the intersection also ran the stop sign and hit him. A CSU Police officer was there to answer questions as well.
- Basics of bike maintenance including how to change flat tires, small brake adjustments, and bike safety checks Local bike mechanics facilitated and a competition was held to see who could change a flat the fastest. The winner did it in less than 2 minutes!
- Certified bicycle instructors lead small groups of students on different routes from campus to Walrus ice cream, where everyone got a free scoop.

There were 25 participants per class, and lots of prizes were donated from local businesses, including a free bike that was raffled off to students that attended all 3 classes. Kerry states, “My ultimate goal is to find a way to continue a bicycle education and safety campaign at CSU. I feel like if we can reach every freshman on campus, we can change their behavior and create a safer place for cyclists. Through my program I have become involved in bicycle politics around town, and am now a member of the Campus Bicycle Advisory Committee. We are working to improve bicycle safety education on campus.”

Kerry (left), MS in public health students, Lorin Scott and Brenna Wozniak.
New Students Fall 2009

Covey Potter - MS
Hailing from the sun soaked shores of Santa Cruz, California, I completed my undergraduate degree in Environmental Studies at the University of California Santa Cruz with an emphasis in restoration ecology and thesis work in desert spring restoration and endangered species rehabilitation. For the past 4 years I have worked for the California Department of Fish and Game restoring high country lake habitat for the federally listed Mountain Yellow Legged frog in the eastern Sierra Nevada Mountains. I am excited for the opportunity to work with David Cooper in pursuit of a masters degree in wetland and riparian restoration along the headwaters of the Colorado River in western Rocky Mountain National Park. When not saving the world (insert tongue-in-cheek smirk)... I enjoy mountain biking, climbing, gardening, and playing the drums.

Ed Gage - PhD
I am a student in David Cooper’s lab studying aspects of urban ecohydrology in the Colorado Front Range. In addition to urban ecology, I have strong interests in wetlands and riparian areas, remote sensing, and GIS.

Jocelyn Lavallee - PhD
I am from New York State, where I received my undergraduate degree in Science of Natural and Environmental Systems from Cornell University. My interest is in ecosystem response to global change at various scales. I completed my honors thesis on competition between fountain grass (an invasive species in Hawaii) and pili grass under varying nutrient availability. I am shifting to soil science for my PhD, during which I will be working with Rich Conant and Matt Wallenstein to study the temperature sensitivity of soil organic matter decomposition.

Megan DeMarche - PhD
I am a new PhD student joining Amy Angert’s plant evolutionary ecology lab. I came to CSU from UC Davis where I received my undergraduate degree in evolutionary ecology. I am broadly interested in all aspects of evolutionary biology, and especially in ecological speciation. My previous research examined niche evolution in co-occurring species of monkeyflower, and I would like to continue investigating mechanisms of ecological divergence and causes of reproductive isolation within this diverse genus. I am also interested in factors that constrain adaptation at species range edges.

Jennifer Soong - PhD
I am a new PhD student working at the Natural Resource Ecology Lab with M. Francesca Cotrufo from the Soil and Crop Sciences Department. My research interests are in biogeochemistry, ecosystem nutrient dynamics, soil fertility, systems ecology, and human impacts on the environment. I received my B.A. from Oberlin College in Biology and Environmental Studies with a minor in Politics, and I have spent the past two years teaching outdoor environmental education in California.

Amber Shanklin - MS
I am a new masters student working in Mark Paschke’s lab. I received my undergraduate degree at the University of WI – Stevens Point. Following college, I moved to Nevada where I worked as a restoration technician for Ash Meadows National Wildlife Refuge and as the Southern Nevada Restoration Manager for The Nature Conservancy. My project focuses on determining land management techniques in burned slash piles. I am working with the Forest Service and Boulder County with the intention that my results will help establish a management protocol for slash piles created after thinning forest stands. I hope that my research will help land managers make informed restoration decisions in the near future.
New Students Fall 2009

Hannah Birge - MS
Originally hailing from the Northeast Kingdom in Vermont, I graduated with a BA in Biology from St. Olaf College (Minnesota) in Spring 2009 and kept moving westward for my MS from CSU. As an undergrad, I was lucky enough to conduct research in some amazing places: UC Berkeley Angelo Coastal Reserve in Mendocino County, CA; Tarangire National Park in Tanzania; urban Baltimore, Maryland; and The Cary Institute of Ecosystem Studies in Millbrook, NY. I am co-advised by Rich Conant and Matt Wallenstein in the NREL on their Kinetics project. My research will focus on the microbial aspects of soil organic matter decomposition. In my spare time I like to make music, hike, cook, bike around town, find new cafes, and hang out with tons of cool people/animals. I also play for a DI rugby team in Denver (go Raptors)!

Jacob Scholl - MS
I am originally from Topeka, KS but received my undergrad degree in biology from Knox College in Galesburg, IL in 2009. I am pursuing a Master's and will be working in Dhruba Naug's lab. The focus organism of my research will be the European Honeybee (Apis mellifera), which are known for their complex social groupings. Specifically, I am interested in seeing what governs specific interactions on the individual level and what effect these behaviors have on the colony.

Derek Schook - MS
After studying general ecology at the College of Wooster in Ohio, I have come to CSU to explore the interface between the physical and living landscapes. With David Cooper I am studying the interplay among surficial geology, hydrology, and ecology in Yellowstone. In recent decades a pronounced drying trend has occurred in Yellowstone's Northern Range wetlands, and my project investigates watershed and wetland hydrology as it relates to changing wetland habitats. I will attempt to characterize wetland hydrologic regimes from the past, at present, and under future climate change scenarios.

Laura Dev - PhD
I am a new PhD student co-advised by Cindi Brown and Julia Klein. I will also be working with Dana Blumenthal at the USDA. My research will look at the landscape-scale responses of grassland communities to altered rainfall regimes, herbivory, and changing nutrient availability due to global change. I grew up in New Hampshire and received my B.S. in biology and mathematics from Tufts University in 2006. Since then I have been living and working in California, primarily near the beautiful shore of Lake Tahoe.

Kate Wilkins - MS
I am a new master’s student co-advised by Gillian Bowser and John Moore. I will work with Dr. Bowser as a graduate research assistant for the Great Sand Dunes National Park, in addition to getting involved with Dr. Moore’s Colorado Front Range GK-12 project.

Alexandra Urza - MS
I am a new Master's student in Jason Sibold's lab. Since graduating from Reed College, I have worked in various aspects of land management, including non-profit research, regional governmental policy making, and federal wildland firefighting. I plan to study the interaction between fuels management, natural disturbances, and fire intensity in the Rockies.
New Students Fall 2009

Melanie Davis - MS
I am coming to CSU from Ohio, where I just completed my undergraduate degrees in Zoology and Chemistry at Miami University. My research interests are broad, but are generally centered around how anthropogenic changes in habitat quality affect the health and functioning of wildlife populations. I will be working to obtain my master's in Tom Hobbs' lab. For my research, I will be collaborating with computer engineers at the University of Colorado to develop a new type of radio collar that will prospectively be able to track the duration and location of interactions between collared individuals. I will be testing these collars on both captive-reared and wild mule deer. Besides being a huge science geek, I also enjoy running, biking, illustration, crafting, and cooking!

Sarah Bisbing - PhD
My dissertation research began in May 2009 under the direction of David Cooper, along with CSU, the Army Corps., USFS, and the University of Alaska-Fairbanks. Our goal endeavor is to generate more accurate information on the ecological characteristics of a hydrophyte, distinguishing it from species distributed across hydrologic gradients and providing data to better define such vegetation. My research will evaluate the wetland to upland forest ecosystem gradient of Southeast Alaska and examine the factors controlling species distributions across this gradient. I am specifically interested in the hydrologic patterns that create and characterize these gradients and how vegetation is distributed across them. In particular, research will focus on species plasticity, intra-species genetic variability, seed distribution and availability, site productivity, and hydrologic variability. Prior to joining the Cooper Wetland Ecology Lab, I completed a M.S. in Forest Ecology at the University of Montana in which my research focused on carbon storage of old-growth forests of the Northern Rockies.

Students Not Pictured:
Justin Neu -PhD Advisor: Randy Boone
Dave Schmelpfenig - MS Advisor: David Cooper
Rosemary Townsend –PhD Advisor: Diana Wall

Anine Smith - MS
I will be pursuing a masters at CSU with the help of my co-advisors, Alan Knapp and Amy Symstad. We will collaborate on investigating the effects of atmospheric nitrogen deposition on the plant and soil communities in Wind Cave NP and in the Badlands NP. Originally from Virginia, I received an undergraduate degree from the University of Virginia in environmental sciences. I come to Colorado directly from Las Vegas where I worked with USGS on Mojave desert plant ecology projects related to fire recovery.

David Eads - PhD
Along with Michael Antolin and Dean Biggins, and collaborators, I will investigate the ecology of Yersinia pestis and fleas (i.e., plague vectors) parasitizing prairie dogs and associated species, and additional questions relating to impacts of plague on the grassland wildlife of North America. I am generally interested in the ecology of mustelids, rodents, fleas and plague; impacts of plague on wildlife and ecosystems; flea-host associations; conservation of prairie dogs and associated species; and integrative behavioral ecology (the interface between animal behavior and conservation). I received a B.A. in Psychology from Indiana University-Purdue University, and a M.S. in Wildlife Science from the University of Missouri, Columbia.

Eric Bowen - MS
My interest in ecology dates back to high school, when I took my first class at a magnet school for science and math nerds (like me) from around North Carolina. I thought it was fascinating, but not very useful until I minored in Agricultural Ecology while studying Natural Resources in NC State's Forestry Department. After graduation, I apprenticed at CEFS' Small Farm Unit, a CSA/demonstration farm where I did research, taught 3rd graders and learned about sustainable agriculture by living it. Working there inspired me to eventually run my own student farm program and develop my own research projects studying soil. That is why I'm here studying the effects of management/climate on carbon stocks in pastures of the Southeastern US and will spend a little bit of time in the Ag-Ed department. Rich Conant is advising me for my MS degree.
Charlotte Ham - PhD

I came to CSU from Alabama where I earned my Master’s degree in Agricultural Economics from Auburn University, then worked as an Economic Development Specialist with the G.W. Carver Experiment Station at Tuskegee University (TU). My work at CSU, under the direction of John Loomis, seeks to use knowledge of economic theory, non-market valuation and econometrics to estimate hedonic price models that incorporate spatial and inter-temporal land uses to reveal how people value the amenities provided by national forest and military lands. This work seeks to improve the understanding of the effects of management actions and human and natural disturbances on the sustainability and social distribution of ecosystem goods and services.

Alexa Sutton - PhD

Hi! I’m a new doctoral student, and I’ll be working with Niall Hanan in NREL (most likely studying the comparative ecology of agro-pastoral communities). I’m a native Baltimorean, but got my undergrad in Biology from Howard University (go HU!) in Washington, D.C. in 2007. I got my master’s in Wildlife & Fisheries from Texas A&M University in August of 2009 (my thesis was Leadership & Management of Wildlife Reintroduction Programs), and I am excited to start at CSU in the fall! My main research interests are wildlife-human conflict, the human dimensions of ecology, and vertebrate ethology. And when I’m not hard at work on my doctoral research, you can find me on the tennis courts, at the Museum of Contemporary Art, searching for sweet travel deals (I love Hawai’i!), or out on the trails with my dog Fish!

Ben Gannon - MS

I am a new master’s student joining Patrick Martin’s Landscape Ecology Lab. I earned my undergraduate degree from the University of Michigan’s Program in the Environment and I have spent the last few years working in forestry and GIS. My research will focus on landscape-level disturbances in the tropical montane forests of the Dominican Republic. I will be piecing together historical reports, imagery, and remote sensing data to define the spatial extents of past disturbances as a means to direct questions about how fires and hurricanes affect ecosystem structure and function.

Peter Bruss - PhD

Building on an interdisciplinary framework with a foundation in Agribusiness BS-Utah State), Economic Development (MS-University of London) and International Management (MBA-Thunderbird), as well as experience traveling and working around the world including Europe, Africa and the Middle East, in agricultural economics, bank analysis and corporate management, I have joined the GDPE (Human Environment Interactions Specialization) program to focus on how autonomous versus team guided formation and discovery, impact group decision making in building sustainable rural energy economies. It is a focus combining experimental field studies and agent-based simulation modeling advised by Kathy Galvin.

Brooke Osborne - PhD

As a Penn State undergraduate, I studied Environmental Toxicology. By participating in an interdisciplinary investigation of ecological and social resilience in West African small-scale mining communities, I developed an appreciation for coupled systems science and ecosystem ecology. At CSU, I look forward to applying these to my interests in climate-induced ecological disturbance and biogeochemical cycling within the context of my favorite setting: alpine regions. With Jill Baron, I will be investigating the effects of glacier and rock glacier decline on headwater and sediment biogeochemistry across the western mountains.

Dale Broder - PhD

As a native Alabamian schooled at the University of Georgia, I'm quite excited about leaving the south to begin my PhD at CSU. I'm looking forward to applying these to my interests in climate-induced ecological disturbance and biogeochemical cycling within the context of my favorite setting: alpine regions. With Lisa Angeloni as my advisor. I'm interested in mating systems where multiple mating tactics exist, such as male courtship and forced copulation, specifically the variability of these behaviors in individuals. In short, I'll focus on the plasticity of male and female mating behaviors in the Trinidadian Guppy.
New Students Spring 2010

Justin Dohn - MS

I come to CSU from Wilton, Connecticut, where a childhood growing up in the forests of New England helped foster my love for the environment and the science of ecology. I completed my undergrad at St. Mary's College of Maryland, with an interdisciplinary approach to a major in environmental studies and biology which included an abroad experience that allowed me to conduct research in the tropical rainforests of Queensland, Australia. At CSU, I will be pursuing a masters under Niall Hanan in the NREL. My research will primarily concern the effects of fire and herbivory on the vegetation structure of the savannas of Mali, West Africa. The results of this study will eventually contribute to a research coordination network that aims to develop a more integrated understanding of global savanna systems.

Kawa Ng - PhD

I am currently a PhD student working on a project with my advisor John Loomis to estimate the value of stocked fish in Colorado’s public water bodies. I received a B.S. in Natural Resources Management and M.S. in Resource Economics from the University of Alaska, where my research used benefit transfer and contingent valuation methods to study Fairbanks, Alaska’s ongoing issue with air pollution.

Caroline Melle - MS

My interest in arctic ecosystem ecology and climate change is rooted in the scientific significance and vulnerability of the arctic, but also my personal affinity for Alaska where I was born and raised. I completed my B.S. in biology here at CSU in summer 2009 and am excited to be beginning my M.S. in summer 2010. I have gained valuable lab experience working in various capacities over the last year in the NREL. I will continue working in the NREL and be co-advised by Matthew Wallenstein and Heidi Steltzer working with them studying the seasonality of nutrient dynamics in arctic ecosystems and how climate change may affect these dynamics and ecosystem processes. This unique research opportunity will allow me to conduct field work in my home state and gain broad research experience studying both soil enzyme dynamics and vegetative phenology.

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Carrie Lambert - MS

After 17 years of field work for the Northern Goshawk Research Project on the Kaibab Plateau, it’s finally time to get my master’s degree. My piece of the overall goshawk project will be to investigate the use of patterns on molted feathers to identify individual goshawks using feathers collected in known nest sites over the past 19 years. This method of identification will be compared to and eventually add identifications to our mark-recapture dataset. I am working with Julie Savidge in Fish, Wildlife and Conservation Biology as well as Richard Reynolds at the Rocky Mountain Research Station. Outside of ecology, I enjoy designing wild jewelry, reading, hiking and birding.

Phil Graeve - MS

I earned a B.S in Biology at Gustavus Adolphus College in MN. My interests lie in disturbance ecology, especially fire ecology in forested systems. I will be working with Monique Rocca describing future forest conditions of southwestern Colorado, particularly in light of recent beetle and drought mortality and fire in Pinyon forests.

Students Not Pictured:

Chris Geremia –PhD Advisor: Tom Hobbs
Jared Stabach –PhD Advisor: Randy Boone

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New Faculty 2009-2010

Jim Graham – NREL

After 20 years as a software engineer and development manager, Jim returned to university life to pursue research and teaching. He is currently the project manager for the Global Organism Detection and Modeling system and is teaching an experimental class in data management for natural resources.

Jim’s research focuses on how best to use Information Technology to help people in all walks of life better manage the precious resources the earth provides us. This includes geographic information systems (GIS), electronic data assimilation, online decision support systems for natural resource management, online systems for environmental research, and online instruction.

Josh Goldstein – HDNR

Dr. Goldstein works in the fields of ecosystem services, conservation finance, and ecological economics exploring novel pathways to align economic forces with conservation. His research addresses the question of how to strategically invest in conserving biodiversity and supplying ecosystem services from both private and public lands. He is currently working with stakeholders in Hawaii to develop business strategies for conservation through reforestation of working lands. He is also a collaborator on the Natural Capital Project, a partnership between Stanford University, The Nature Conservancy, and World Wildlife Fund. He received a Ph.D. from the Interdisciplinary Program in Environment and Resources at Stanford University and a B.A. in Biology from Williams College.

Greg Graff – AREC

My research interests concern the policy and economics of scientific research, technological innovation, and entrepreneurship. Of particular interest is the role played by intellectual property rights—as incentives for innovation and as marketable assets, but also as a source of transaction costs and inefficiencies in R&D.

A major theme in my work is the balance or tradeoff between the sometimes complementary and sometimes contradictory public versus private characteristics of knowledge as an economic good or asset. My empirical analysis focuses on the relationship between public and private sector innovation in the life sciences for applications in agriculture, medicine, and energy.

Kim Hoke – Biology

I am interested in the neural, developmental, and genetic mechanisms of behavior. I currently use both field and lab experiments to understand the mechanisms of frog mating decisions and behavior. Ongoing projects relate variation in the brain to evolution of mate choice and speciation, integrating measures of neural function and behavior with studies of neural structure, development, gene expression, and quantitative genetics.

Jay Ham – SCS

My research interests involve Environmental physics and micrometeorology as well as Long-term CO2 and H2O flux monitoring by eddy covariance. My current research falls into the basic categories of (1) micrometeorological studies of water, carbon, and energy transport between the surface and atmosphere; (2) the effects of animal feeding operations on water, air, and soil quality; and (3) instrumentation development. Research on carbon and water balances of ecosystems has been a main research area throughout my career. The carbon work was driven by concerns over global climate change and how changes in land management/use might affect the carbon storage in fields and rangelands.
New Faculty 2009-2010

Steven Fassnacht –FRWS
My research interests include improving our understanding of snow and cold land hydrological processes, especially considering different complexities of models. These models are used for water resources forecasting, hydrological simulations, and climate modeling. My focuses are improving the data used for modeling, and understanding the sensitivity of process formulations. We have tried to improve weather radar estimation of snowfall for hydrological modeling and have created a time series of snow water equivalent maps for the Western United States. We have examined how wind influences precipitation measurements (as snow) compared to snowpack losses via sublimation and blowing snow.

Dana Hoag –AREC
I am interested in how to analyze and make decisions about issues where agriculture and the environment collide. This includes a cross section of research fields such as policy, production economics, resource economics and regional economics. Current and recent projects include the use of conservation easements, elk and bison management in Yellowstone, ground and surface water contamination, manure management, invasive species, the economic returns to research, gender and risk, sexed semen in dairy cattle, decision analysis with multiple objectives, sustainability, and non-market valuation in wildlife refuges. I developed the award-winning Right Risk research and education program for risk management. I have worked with colleagues and state and federal agencies throughout the United States and in South Africa, Bolivia, and Australia.

Thomas Borch –SCS
My research is directed at determining reactions influencing the fate of trace elements and organic contaminants in soils. In addressing environmental contaminants, one must consider the complete system rather than solely a simplified fraction of the soil. However, due to the extreme heterogeneity of soils, identifying key-reactions influencing the (bio) degradation, (bio) reduction, and (bio) availability research focuses on both simplified systems, often composed of a single mineral and solution reactant, and natural soil systems. I use a multitude of soil chemistry methods in combination with various chromatographic, spectroscopic, and microscopic methods to elucidate (bio) degradation products, chemical states of trace elements and structural states of minerals within soils and pure mineral systems. The ability to identify organic metabolites, the chemical state of trace elements and potential “host” mineral-phases is essential for ascertaining contaminant fate and mobility within soils and waters.

Gillian Bowser –WCNR
I am the Assistant Dean for Sustainability and Strategic Planning in the College. My responsibilities include sustainability issues for the College and working on outreach and internships. I have worked on a wonderful mix of organisms from butterflies to bison to tortoises in seven National Parks. My graduate students have worked on issues related to parks and conservation including feral animals, stakeholders, insects, and citizen scientists. My current projects include all taxa biodiversity inventories (ATBI) in nine national parks, and stakeholder engagement at Great Smoky Mountain National Park. Prior to CSU, I worked at Texas A&M University as the National Park Service's Cooperative Ecosystem Studies Unit leader. In that capacity I worked with parks throughout the Gulf Coast area from Florida to Texas. I have over 20 years of National Park Service experience at parks as a wildlife ecologist.

Patrick Shafroth –USGS
My research is focused on relationships between surface and ground-water hydrology, fluvial processes, and the dynamics of native and alien riparian vegetation, primarily in semi-arid and arid systems. This research is often conducted in the applied context of riparian ecosystem restoration, including management of streamflow from dams (environmental flows), dam removal, and active revegetation. New research topics include predicting effects of climate change on streamflow and, consequently, on riparian vegetation, and the effects of the biological control of saltcedar on riparian vegetation dynamics.
Larissa Bailey – FWCB
I received my Masters and my Ph.D. from North Carolina State University. My research focuses on developing and applying quantitative methods to address scientific and management questions about vertebrate systems and their dynamics (especially amphibians). My specific interests or area of expertise include amphibian population ecology, demographic estimation methods and occupancy estimation methods.

David Merritt – USFS
I am interested in riparian plant ecology and the physical processes that support diverse native plant communities along rivers. Much of my work is focused on understanding the linkages between streamflow, groundwater, and fluvial processes and how they influence riparian plant community structure and function. Examining the effects of human-caused flow alteration and fragmentation of metapopulations and metacommunities along rivers has been a major research focus of mine over the past decade. Current projects include: response of vegetation to Tamarix removal along the Rio Grande and upper Green Rivers; processes governing Tamarix invasion in the western US; the role of hydrochory in structuring plant communities; the effects of dams and diversions on riparian vegetation, structured population modeling of riparian plants; streamflow regimes necessary to support riparian vegetation; National riparian definition, classification, and trend monitoring.

New Faculty 2009-2010

New Faculty Not Pictured:
Steve Leisz, Anthropology
Dawn Thilmany, AREC

2010 FRSES Best Landscape Winner
by Kristopher Hite, Biochemistry
### Summer 2009 Graduates

<table>
<thead>
<tr>
<th>Name</th>
<th>Degree</th>
<th>Thesis or Dissertation</th>
<th>Advisor(s)</th>
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<tbody>
<tr>
<td><strong>Summer 2009</strong></td>
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<tr>
<td>Greg Buis</td>
<td>MS</td>
<td>Controls of Aboveground Net Primary Production in Mesic Savanna Grasslands: An Interhemispheric Comparison</td>
<td>Alan Knapp</td>
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<tr>
<td>Paula Fornwalt</td>
<td>PhD</td>
<td>Disturbance Impacts on Understory Plant Communities of the Colorado Front Range</td>
<td>Bill Romme</td>
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<td>Tracy Holcombe</td>
<td>PhD</td>
<td>Early Detection and Rapid Assessment of Invasive Organisms Under Global Climate Change</td>
<td>Tom Stohlgren</td>
</tr>
<tr>
<td>Kirstin Holfelder</td>
<td>MS</td>
<td>Nitrogen Cycling and Seed Bank Dynamics of a Biosolid Treated Site</td>
<td>Indy Burke</td>
</tr>
<tr>
<td>Ian Leinwand</td>
<td>MS</td>
<td>Land Use Patterns and Trends in the Southern Rocky Mountain Ecoregion at the Public-Private Interface</td>
<td>Dave Theobald, Rick Knight</td>
</tr>
<tr>
<td>Maria Joana Roque Pinho</td>
<td>PhD</td>
<td>Staying Together: People-Wildlife Relationships in a Pastoral Society in Transition, Amboseli Ecosystem, Kenya</td>
<td>Kathy Galvin</td>
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<tr>
<td>Sharon Poessel</td>
<td>MS</td>
<td>Behavior and Conservation of Black-Footed Ferrets: Stress in Captivity and Predation Risk in the Wild</td>
<td>Kevin Crooks, Lisa Angeloni</td>
</tr>
<tr>
<td>Elise “Apple” Snider</td>
<td>MS</td>
<td>Post-Fire Insect Communities and Roost Selection by Western Long-Eared Myotis (Myotis Evotis) in Mesa Verde National Park</td>
<td>Ken Wilson</td>
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# Fall 2009 & Spring 2010 Graduates

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<thead>
<tr>
<th>Name</th>
<th>Deg</th>
<th>Thesis or Dissertation</th>
<th>Advisor(s)</th>
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<tr>
<td><strong>Fall 2009</strong></td>
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<tr>
<td>Erick Carlson</td>
<td>MS</td>
<td>Fluvial riparian classification for national forests in the Western United States</td>
<td>Brian Bledsoe</td>
</tr>
<tr>
<td>Eli Knapp</td>
<td>PhD</td>
<td>Western Serengeti People Shall Not Die: the Effects of Serengeti National Park on Rural Household Economics in Tanzania</td>
<td>Kathy Galvin</td>
</tr>
<tr>
<td>Caroline Krumm</td>
<td>MS</td>
<td>Vulnerability of Chronic Wasting Disease Infected Mule Deer (<em>Odocoileus hemionus</em>) to Mountain Lion (<em>Puma concolor</em>) Predation</td>
<td>Tom Hobbs, Mike Miller</td>
</tr>
<tr>
<td>Lindsay Reynolds</td>
<td>PhD</td>
<td>Causes and Management of Exotic Riparian Plant Invasion in Canyon De Chelly National Monument, Arizona</td>
<td>David Cooper</td>
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<tr>
<td><strong>Spring 2010</strong></td>
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<tr>
<td>Aaron Berdanier</td>
<td>MS</td>
<td>Climatic Constraints on High-Elevation Aboveground Net Primary Production</td>
<td>Julia Klein</td>
</tr>
<tr>
<td>Ginger Bradshaw</td>
<td>MS</td>
<td>Sharing Invasive Species Data Facilitates Habitat Modeling</td>
<td>Tom Stohlgren, Alan Knapp</td>
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<tr>
<td>Khishigbayar Jamiyansharav</td>
<td>PhD</td>
<td>Long-Term Analysis and Appropriate Metrics of Climate Change in Mongolia</td>
<td>Dennis Ojima, Roger Pielke</td>
</tr>
<tr>
<td>Reesa Conrey</td>
<td>PhD</td>
<td>Breeding Success, Prey Use, and Mark-Resight Estimation of Burrowing Owls Nesting on Black-Tailed Prairie Dog Towns</td>
<td>Mike Antolin</td>
</tr>
</tbody>
</table>
LeRoy Poff Named 2010 Laureate by College of Natural Sciences

Faculty Awards

Borch wins prestigious NSF early career award

Thomas Borch, Department of Soil and Crop Sciences at CSU, has won a Faculty Early Career Development, or CAREER, Award from the National Science Foundation. The honor is considered one of the most prestigious for up-and-coming researchers in science and engineering.

The nearly $500,000, five-year CAREER award will support Borch’s research on climate change impacts on the interrelationship between iron cycling and organic carbon. In particular, Borch will use the grant to investigate how climate change, and especially the projections of increased precipitation and flooding, may impact important biogeochemical cycles such as that of iron. Iron is the most abundant redox-active metal ion in the earth’s crust. Iron minerals are among the most important reactive solids in earth surface environments, acting as natural filters of inorganic contaminants and nutrients, sorbents for organic matter, and poised the redox potential of groundwater.

Lack of biologically available iron in soils can also lead to iron deficiency anemia which is a major public health and financial problem in Central Asia, with primary impact on woman and children. One of the research objectives is to determine the impact of increasing water content on the iron mineralogy and chemical structure of humic substances along subalpine moisture gradients at the Fool Creek Watershed at the USDA Forest Service Fraser Experimental Forest in Colorado.

"In addition, the proposed research will involve the use of advanced synchrotron radiation-based spectroscopy which will allow us to bring CSU students to the National Laboratories and teach them about state-of-the-art techniques which will help them become more competitive for future research and teaching careers."

Adapted from Today @ CSU March 9th, 2010

Poff’s public seminar on April 29 focused on his work that advances basic understanding of how rivers function and how general principles extracted from this work are contributing to sustainable river management. Poff also explained how his collaborations with national and international scientists of multiple disciplines, and outreach to leading NGOs are facilitating development of new perspectives on river management in a world experiencing rapid global change.

Adapted from Today @ CSU March 9th, 2010

Scholarly excellence

“Professor Poff epitomizes the scholarly excellence and commitment to higher education displayed by our faculty,” said Jan Nerger, interim dean of the College of Natural Sciences. “He joins the ranks of eight other Natural Sciences Professor Laureates whose contributions exemplify the highest level of research, teaching, mentoring, and outreach.”

Poff’s work focuses on basic and applied questions of how rivers function and on how to develop science-based criteria for managing these systems sustainably in the face of rapid global change. Additionally, Poff collaborates extensively with national and international scientists in academia, government agencies and non-governmental organizations. He has served on numerous National Research Council committees and science advisory boards in the nation. Poff is also a recent elected president of an international professional society of river scientists and a Fellow of the Ecological Society of America’s Aldo Leopold Leadership Program.

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Adapted from Today @ CSU March 9th, 2010
**Spotlight on Alumni**

**Amy Blair**  
GDPE Spring 2008  
Assistant Professor  
Department of Biology  
St. Ambrose University

Upon graduating from GDPE in 2008, I moved to Cornell University in Ithaca, NY for a 2-3 year post-doc with Dr. Bernd Blossey in the Dept. of Natural Resources. My research focused on attempting to determine the relative role of multiple stressors (i.e., deer, invasive plants, invasive earthworms) in driving down native plant populations in eastern deciduous forests. While my training in Ruth Hufbauer’s lab focused on population-level processes, it was fun (and daunting!) to work at the community level. During the first year of my post-doc, an ecology faculty position opened at a small liberal arts school (St. Ambrose University) in my home state of Iowa. During my interview, I knew I had found a great fit. I started there as an Assistant Professor in Biology this past August. It has been an exciting and busy year. I taught Ecology in the fall, and this spring, I am teaching one of the core general Biology courses. I am enjoying the challenges of designing new courses and incorporating inquiry-based learning into my classes so that students can experience the process of science first-hand. It is great being near all of my family again, and my boyfriend and I are the happy owners of a 1920’s era bungalow. I often think fondly back to my time in GDPE; I am grateful for the broad background I was given through GDPE courses and the interactions with outstanding faculty of varying backgrounds.

**Peter Adler**  
GDPE Spring 2003  
Assistant Professor  
Ecology Center, Wildland Resources  
Utah State University

When I started graduate school at CSU, I was a field ecologist interested in grazing impacts on vegetation. By the time I left, I was more of a computer ecologist, using long-term datasets and models to test coexistence theory. I blame this transition on two lucky events: First, my advisor, Bill Lauenroth, had "rescued" a dataset of four decades of annually mapped quadrats from a Kansas prairie. I started fooling around with these data as a side project from my dissertation work, which was a comparison of grazing effects on vegetation in central Washington state and southern Patagonia. I realized that I could do a lot more with forty years of data on plant-plant interactions than I could with a few seasons of grueling field data. Second, I learned how to program in Tom Hobbs' "Systems Ecology." That skill was essential for working with the long-term data.

After GDPE, I received an NSF Bioinformatics Post-doc to work with Jonathan Levine at UC Santa Barbara. My research focused on using the long-term data and models to test the influence of climate variability on coexistence. I'm not sure whether having a surf spot a 5 minute walk from my office increased or decreased my productivity. I continued the post-doc work into a third year at the National Center for Ecological Analysis and Synthesis, also in Santa Barbara, before moving to Logan, UT to start an assistant professor job at Utah State University. Utah was a perfect fit, not only because of the great access to snowy mountains, but because my fiancée was in medical school in Salt Lake City (we are now married). For the last few years, my lab has been digitizing and analyzing additional mapped datasets and initiating new field experiments to test predictions from our models. It's essentially a continuation of the research I started as a GDPE student.
Student Honors

Student Awards and Honors

Our GDPE students are nationally, regionally, and locally recognized for their outstanding work. Below, we list just a sample of recent awards our students have received:

- **Jason Ransom** was awarded a Center for Collaborative Conservation fellowship for 2010-2011 to work on conservation initiatives in Mongolia.

- **Gabriela Bucini** was awarded a Center for Collaborative Conservation fellowship for 2010-2011. During her CCC fellowship, Gabriela will transfer her knowledge in remote-sensing and GIS to local communities in Guinea Bissau.

- **Jessica Salo** received a NASA-MSU Professional Enhancement Award to attend the 2010 International Association for Landscape Ecology (US IALE) 25th Anniversary Symposium in Athens, GA.

- **Jenny Soong** helped contribute to the Cotrufo lab group as it built a new dual isotope labeling chamber, located in the University Greenhouse. The chamber will be used to grow big bluestem that has an enriched 13C and 15N label. After the plants grow to maturity, the above-ground biomass will be harvested and the isotope label in the grass will be used to study decomposition and carbon turnover in the field in Kansas over the next three years. The labeling chamber is a new permanent fixture that can be used for all sorts of isotope labeling.

- **John Lovell** was the recipient of the 2010 Shepardson Graduate Teaching Award (College of Agriculture, Colorado State University).

- **Kelly Hopping** was selected to be part of the National Science Foundation East Asia and Pacific Summer Institutes Program.

- **Stacy Lynn** was awarded a Warner CNR grant which supported travel to the Association of American Geographers (AAG) annual meeting in Washington, DC. The Warner grant will also support travel for a month-long trip to Tanzania (2010) to hold feedback workshops with communities, government officials, National Park managers, and NGO representatives.

- **Megan DeMarche** and **Kelly Hopping** received National Science Foundation Graduate Research Fellowships
Student Honors

Student Awards and Honors

(continued from previous page…)

- **Alexandra Sutton** received the Dawn R. Person Award for Outstanding Graduate Student from the Black/African American Student Center on campus for her work with the Minorities in Agriculture, Natural Resources, and Related Sciences (MANRRS) chapter here at CSU.

- **Ali Urza** was a 2010 recipient of the Jerry O'Neal National Park Service Student Fellowship.

- **Justin Neu** and **Jared Stabach** have secured National Science Foundation funding to attend the Conservation Biology Advanced Study Institute (ASI) and Workshop being held this upcoming July at the Kenya Wildlife Service Training Institute in Naivasha, Kenya.

- **Kristen Kaczynski** received a John Marr grant from the Colorado Native Plant Society to study “Willow decline in Rocky Mountain National Park: Examining the interactions of drought, ungulate browsing, sapsuckers, and fungus.”

- **Laura Dev, Rebecca Chong**, and **John Lovell** received honorable mention from the National Science Foundation Graduate Research Fellowship.

- **Mónica Páez** was awarded a Fulbright Fellowship and will start in GDPE in Chris Funk’s lab in Fall 2010.

**Student News**

Jessica Ernakovich traveled to Thule, Greenland in October 2009 to collect soil samples. She was accompanied by her advisor, **Matt Wallenstein** (NREL, CSU), **John Moore** (NREL, CSU), Seeta Sistla (UCSB), and Bob Faris (5th grade teacher, Poudre School District). She plans to assess the impact of microbial physiology on decomposition in summer and winter soil samples.

- **Kerry Byrne** received the John E. Weaver Competitive Grant, The Nature Conservancy

- **Chrissy Alba-Lynn** was awarded the Lloyd David and Carlye Cannon Wattis Foundation Internship from the Denver Museum of Nature and Science.

- **Helen Sofaer** was awarded a 2010 Smithsonian Institution Predoctoral Fellowship.

- **Stacy Lynn** was invited to present research results at the USAID Global Livestock Collaborative Research Annual Meeting in Naivasha, Kenya June 16-19, 2009. “The Economy of Change: Cultivation and resilience of Tanzanian pastoral livelihoods”.
Representative Student Publications

* Bold letters denote GDPE Faculty or Students

- **Alba-Lynn, C., S. Henk.** 2010. Potential for ants and vertebrate predators to shape seed-dispersal dynamics of the invasive thistles *Cirsium arvense* and *Carduus nutans* in their introduced range (North American). *Plant Ecology* (27 March 2010).
Faculty Honors and Awards

- **Kevin Crooks** received a Monfort Professor Award, one of CSU’s top honors.
- **Barry Noon** has recently been awarded a Fulbright-Nehru grant for research and teaching in India for the 2010-11 academic year.
- **Shane B. Kanatous** was awarded the Excellence in Graduate Mentoring award from the Department of Biology and was nominated for the Keck Foundation award by the College of Natural Science. Additionally, Shane was nominated for the Multi-Ethnic Distinguished Faculty award at Colorado State University.
- **Michael Ryan** was named the Distinguished Alumnus of 2010 for the Northern Arizona School of Forestry for contributions to research and education.
- **Sarah Ward**’s lab group published a paper on the “Hybridization Hybridization Between Invasive Populations of Dalmatian Toadflax (Linaria genistifolia subsp. dalmatica) and Yellow Toadflax (Linaria vulgaris)” in Invasive Plant Science and Management which was selected as the best paper published in 2009 by the Weed Science Society of America.
- **Don Klein** has been appointed as an American Society for Microbiology Branch Lecturer for 2009-2011. This involves giving presentations at various local meetings in the areas of microbial ecology and environmental microbiology.
- **Ruth Hufbauer** is finishing up a year sabbatical in France supported in part by a Fulbright fellowship at the Centre de Biologie et Gestion de Populations (Center for the Biology and Management of Populations) with INRA (the French dept. of agriculture) in Montpellier.
- **Kevin Bestgen** received the Best Paper award at the 2010 meeting of the Colorado-Wyoming Chapter of the American Fisheries Society.
- **Jim Detling** and **Alan Knapp** were recently elected to the rank of Fellow of the American Association for the Advancement of Science.
- **Kurt Fausch** received three distinguished awards recently for lifetime achievement in Research, Publication, and Outreach in ecology and management:
  1) Outstanding Alumnus 2010 - College of Agriculture and Natural Resources at Michigan State University
  2) Award of Excellence 2010 – Colorado-Wyoming Chapter of the American Fisheries Society
  3) Award of Excellence 2010 – Western Division of the American Fisheries Society

GDPE Faculty receive Highly Cited Researchers Honors by ISI Web of Knowledge

**Alan Knapp** (Biology and GDPE Senior Ecologist), **Kurt Fausch** (Fishery & Wildlife Conservation Biology) and **LeRoy Poff** (Biology and GDPE Director) were acknowledged for their publication productivity and impact by being named as Highly Cited Researchers by Thomson Reuters ISI Web of Knowledge. According to the ISIHighlyCited.com webpage, individuals are among the most highly cited within each of 21 categories, and they "comprise less than 0.5% of all publishing researchers--truly an extraordinary accomplishment."
Representative Publications 2009-2010

*Bold* letters denote GDPE Faculty or Students


Johnson BM, Arlinghaus R, Martinez PJ. Are We Doing All We Can to Stem the Tide of Illegal Fish Stocking? Fisheries (2009) 34:389-394.


(continued on next page)
* Bold letters denote GDPE Faculty or Students


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Jeri Morgan & LeRoy Poff celebrate another successful year at the 2009 Annual Meeting
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