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Newsletter

LRES

Welcome to the Fall Semester

Welcome back to campus for the 2010 Fall semester and to our Fall edition of the LRES Newsletter. Similar to last year, we want the newsletter to highlight the LRES department's many programs, students, faculty, staff and alumni – a new section you'll find in this edition shows the many grants awarded to our faculty and staff this past year. You will also see that we have heard from some of our alumni. We want to share your successes and learn what you are doing, so please let us know by contacting LRESfrontdesk@montana.edu or stopping by for a visit. I hope you enjoyed the glorious summer weather with family and friends, and are recharged for a great year.

~ Tracy Sterling, Professor and Department Head

New Faculty Member

Please welcome our new LRES Faculty member

Dr. Stephanie Ewing, Soil Biogeochemistry. Before arriving at MSU in July, I was a post-doctoral researcher at the US Geological Survey in Boulder, Colorado, using uranium isotopes to model the age of ice in permafrost and to track thaw dynamics and water residence times in small catchments within the Yukon River Basin in central Alaska. My PhD work at UC Berkeley focused on soil-atmosphere interactions and elemental cycling (using C, N, S, O, and Ca isotopes) in the hyperarid Atacama Desert of northern Chile. In a short post-doc at UC Berkeley, I used lead isotopes to fingerprint airborne particles crossing the North Pacific and contributing to air pollution in California. Prior degrees include a B.A. from Oberlin College and an M.S. in Soil Science from UC Davis, where I dabbled in genetic fingerprinting to explore relationships among microbial communities, soil structure, and farming practices, and was a co-conspirator on a group project using N isotopes and microbial fingerprints to ponder N cycling in the Mojave Desert.

My research investigates the role of soils and biogeochemical processes in the Earth system. How do changing climate conditions and biological activity affect elemental cycling through soils over time? How does river chemistry integrate spatially and temporally variable biogeochemical processes in soils? What is the fate of atmospheric pollution as it is transported and transformed within and through soils? I like targeting tools to questions, and have found it interesting to exploit novel isotopic measurements for this purpose. I'm currently setting up a laboratory to undertake versatile sample preparation for a wide variety of isotopic analyses.

I'm impatient to engage students in my continuing work with the USGS and the University of Alaska on changing hydrology, weathering, and carbon/elemental cycling processes in small catchments and lowlands of interior Alaska. Next year I'll embark on teaching in the areas of soil genesis, Earth system science, and isotope biogeochemistry. I'd also be pleased to pursue projects in Montana and across the region relating to coupling of biotic and abiotic processes across a broad range of scales, and using soil development to understand landscape evolution, effects of land management practices, and dominant processes across natural and human-induced gradients of climate and disturbance.

~ Stephanie Ewing



Crop and Weed Field Day

Event was held July 8, 2010

On July 8 more than 50 farmers, Extension Agents, Certified Crop Advisers, chemical company cooperators and pest control advisers met at the Post Research Farm with MSU graduate students and Faculty during our annual Crops and Weeds Field Day. At the field day, we visited research and demonstration plots on weed management, wheat breeding, plant pathology, and nutrient managements. We also discussed appropriate pesticide application strategies and integrated approaches to manage wheat stem sawfly. LRES speakers included Fabian Menalled, Ed Davis, Rick Engel, Jane Mangold, Zack Miller, Lisa Rew and David Weaver. Luther Talbert and Mary Burrows from the Department of Plant Sciences and Plant Pathology and Cecil Tharp, Animal and Range Sciences, also joined us. Stay alert for the 2011 Field Day!

~ Fabian Menalled
Cropland Weed Specialist



LRES Recognition

A quick snapshot of LRES Faculty, Staff and Student awards, recognitions, honors, and notices



Bruce Maxwell was featured in the MSU article “Montana, Colorado and Idaho Universities partner on study of fire and climate change”. To see the full article please visit <http://www.montana.edu/cpa/news/nwview.php?article=8740>



Jane Mangold and Melissa Graves released the MSU article “Curly-leaf Pondweed found near Bozeman, Montana”. To see the full article please visit <http://www.montana.edu/cpa/news/nwview.php?article=8633>



Kim Goodwin, Rick Engel and David Weaver recently published an article in *Invasive Plant Science and Management*, entitled “Trained Dogs Outperform Human Surveyors in the Detection of Rare Spotted Knapweed (*Centaurea stoebe*)”. The article was chosen as the featured article for a press release. Please find at



http://allenpress.com/publications/pr/IPSM3_2



Dr. Juliana D'Andrilli began a Post Doctoral Fellowship with Drs. John Priscu and Christine Foreman on the investigation of high-resolution chemical and biological records from the West Antarctic Ice Sheet (WAIS) Divide ice core. WAIS Divide is a U.S. deep ice coring project funded by NSF to collect a deep ice core from the flow divide in central West Antarctica. Juliana received her PhD in Physical Chemistry at Florida State University. Her dissertation was entitled, “Molecular Characterization of Marine and Terrestrial Dissolved Organic Matter Using Ultrahigh Resolution Mass Spectrometry.”

Lisa Lone Fight M.Sc. A PhD graduate Student was featured in the PBS Documentary “Before There Were Parks: Yellowstone and Glacier Through Native Eyes”. The program ran August 15th, 2010.

Heidi Smith, a first-year LRES graduate student, received a very competitive NASA Earth and Space Science Fellowship for her proposal entitled, “The role of microbes in microbial synthesis and transformation of dissolved organic matter in glacial environments.” This fellowship began September 1st, 2010 and is renewable for three years.

Alexey Kalinin gave a undergraduate student presentation on “Lake Modulation of Stream Nutrient Fluxes” during the Celebration of Student Research and Creativity. The event was held September 9th in the MSU SUB Leigh Lounge.

Rose Marks received a Weed Science Society of America 2010 Undergraduate Research Award Grant for her proposal “The invasion dynamics of *Linaria dalmatica*: a genetic approach”. Sponsor Lisa Rew.

Alexandre Wing received a Weed Science Society of America 2010 Undergraduate Research Award Grant for his proposal “Seed dispersal by vehicles: Quantifying seed loss over distance as a dispersal vector for non-indigenous species”. Sponsor Lisa Rew.

Dr. Richard Smith a previous Post Doctoral Scientist with Fabian Menalled has accepted a tenure-track, Assistant Professorship in Agroecology for the University of New Hampshire, College of Life Sciences and Agriculture. He began his position August 1st, 2010.

John Lane, LRES Masters Alumni, is leaving his position as US Forest Service Soil Scientist/Watershed Program Manager, Custer National Forest, to become US Forest Service Alaska Region Watershed Program Manager in Juneau, with responsibilities for hydrology, soils, and air quality. Linda Spencer (LRES BS) will join John in Juneau this fall.

LRES GSO Update

Insight to the activities and projects of the LRES GSO

“Greetings faculty, staff, and students. The LRES Graduate Student Organization (GSO) is looking forward to a second year of growing and incorporating more LRES grad students into the organization. This year Tristy Vick and Jerome Schleier are co-chairs of the organization, Zack Jay is Faculty and Staff Liaison, Justin O’Dea is serving as the Curriculum Committee Liaison, Tyler Brummer is the Mentoring Liaison, and Alex Michaud is the Social Liaison. This year we are excited to be hosting the monthly graduate student socials, which Randy Mullen started last year. We invite all graduate students, faculty, and staff to attend, and the schedule will be available soon. Our other goals include starting an Environmental Science brown bag lunch journal club. It will be an informal discussion once a month to discuss an article of broad scientific interest to faculty, staff and students in the LRES department. Also, we are excited to establish an Environmental Microbiology journal club to meet once a month. Our main goal for the year is to begin an annual LRES student research symposium to take place in the spring semester. This would be an excellent opportunity for students to show the amazing breadth of research being conducted in the LRES department. Please contact the GSO if you would be interested in helping us make this symposium a reality! Remember you can contact us at LRES.GSO@gmail.com or visit our website <http://sites.google.com/site/lresgso/> for current events, news, or the new forums and help sections that will be added soon!”

In Scholarship,
LRES GSO Executive Committee
LRES.GSO@gmail.com

LRES Club

Insight to the activities and projects

Do you care about our Earth and want to do something to help protect it? The MSU LRES club is a group of students that places a high value on the Natural Resources in our area. We are looking for students that share our interest and want to have a fun time. Recent programs have included glass recycling, park restoration, composting, and social functions.

We are open to new ideas and want to see what our students have to offer! Please stop by the LRES front desk for more information.



~ Carmel Johnston
MSU LRES Club President
carmel.johnston@msu.montana.edu

Professional Spotlight

Insight to the activities and projects of LRES Professional Staff

“I’ve been with LRES since 2004 when I came to work for Jim Bauder at MSU Extension. Since Jim retired last year, I have taken over two of his primary roles: Extension Associate Specialist and the MT State Coordinator for the NIFA Regional Water Team. From the time I arrived at MSU and still today, Jim’s support has been unwavering and I don’t have words for my appreciation of Jim as a mentor. My first project with MSU Extension Water Quality (MSUEWQ) was building of a private well testing program (Well Educated) which has now guided over 1700 Montana households through testing their private wells to understand their water quality and what they can do to protect water resources. To meet the goals of the Well Educated program and other educational initiatives, I have embraced the use of film by partnering with the MSU Department of Science and Natural History Film Making. Prairies and Pipelines was our first film project in 2006 about Coal Bed Methane and has aired on PBS multiple times. Our next film project was an 8 part series on private well and septic systems including 3D animation which received an ASA Extension Educational Materials Certificate of Excellence in 2009. A two part Tribal Waters series was completed in the summer of 2009 about water quality and quantity in Indian Country and we are currently working on a film about citizen based water quality monitoring in the Gallatin Valley. All of these films are available on DVD as well as streamable from our website <http://waterquality.montana.edu/>.



Water quality outreach with Tribal communities has been a big part of my work with MSUEWQ. In addition to ongoing work with the Crow, Northern Cheyenne and Confederated Salish and Kootenai Tribes, in 2009 I completed a water quality teaching package for use by Tribal College faculty. I have presented the package to representatives from over 15 tribal institutions, many of whom are using it in their classrooms. The teaching package is based on the junior level water quality course (LRES 344) that I developed and have taught at MSU since 2008.

For my MS project with Bauder, I designed an alternative cattle water access method (the Armored Stanchion) and compared in-stream water quality with cattle using the stanchions versus traditional access types. Benefits were significant and MSU news services wrote an article about the project which was picked up by a number of papers across MT. As a result, in the spring of 2010 a rancher near Great Falls contacted me about building an access and I happily provided him information to do so. I visited him this summer and his access puts the two I built for my MS to shame. This type of on-the-ground work to affect change coupled with water quality science to track changes are among my long term goals for the MSUEWQ program and are on my mind as I explore prospects for a PhD project.”

~ Adam Sigler, Extension Water Quality

LRES Grants for 2009-2010

We are excited to announce the addition of this new section to our newsletter which recognizes the diverse array of competitive funding garnered by our faculty and staff in LRES – for this newsletter, we are including new grants awarded from January 2009 until June 2010; future newsletters will include grants awarded since the previous newsletter. These funds fuel our research and teaching mission -- to discover new knowledge, to engage and train students using laboratory and field studies across local to global scales, and to enrich the lives of Montanans. Please take a minute to congratulate our faculty and staff on their meaningful work and impressive accomplishments.

Agency & PI	Title
Montana	
Farm Services Agency	
Mangold	Testing control options for western salsify on CRP lands in north-central Montana
Montana Alfalfa Seed Committee	
R. O'Neill & R. O'Neill	Effects of pre- and post- overwintering temperatures
Montana Department of Agriculture	
Littlefield	A Survey of Biological Weed Control Agents Adventive to the US (subcontract - MDA)
Mangold	Extension Bulletin Production and Updates
Montana Department of Environmental Quality	
Sigler, Mowen, & Carrithers	Delivering Well Educated
Montana Department of Justice	
Poole, McGlynn, & Kurt-Mason	Silver Bow Creek Monitoring Project
Montana Department of Natural Resources & Conservation	
Mowen & Sigler	Online Course for Real Estate Agents
Montana Noxious Weed Trust Fund & Montana Weed Control Association	
Galli-Noble	Missouri River Watershed Coalition Project Coordination
Goodwin & Mangold	Coordinated Weed Free Border Protection IV
Hoopes	Weed Awareness Internet Site Update
Keith, Dyer, & Rew	Understanding Invasion Dynamics - A Case Study for Dalmatian Toadflax
Lehnhoff, Rew, Menalled, & Galli-Noble	Assessing Plant Community and Soil Characteristics After Saltcedar Invasion and Treatment
Lehnhoff, Lavin, Zabinski, Menalled, Galli-Noble, & Rew	Saltcedar effects on mycorrhizal fungal communities and screening of native species for use in restoration of saltcedar degraded sites
Littlefield	Seven grants for research on the Biological Control of Invasive Weeds
Mangold	Implementing EDRR in Montana Using Invaders Database System
Mangold & Menalled	Cheatgrass Ecology and Integrated Management
Mangold	Implementing EDRR in Montana Using Invaders Database System
Mangold	Rangeland Revegetation Revisited: Long-term Outcomes of Revegetation of Weed-infested Rangeland in Montana
Mangold, Menalled, & Z. Miller	Cheatgrass (<i>Bromus tectorum</i>) ecology and management
Weaver	Evaluation of Invasive Toadflax, Identified Hybrids, and Associated Arthropod Fauna
Weaver	Determining Efficacy of New Yellow Toadflax Biological Control Agents
Mangold	Updates and revision of Montana's Noxious Weeds booklet
Montana Wheat & Barley Committee	
Engel	Quantifying ammonia volatilization losses from surface applications of urea to no till wheat.
Miller	Dryland cropping systems: 1) diversified high and low input strategies; and 2) residual soil herbicide effects on dicot crops.
Weaver	Host Plant Resistance, Antixenosis-Based Cropping Systems, and Tritrophic Pest Interactions for IPM of Wheat Stem Sawfly
Weaver	Wheat Stem Sawfly Parasitoid Redistribution by County Extension Personnel Supported by Long-Term Monitoring
Weaver	Identification of Resistance to the Orange Wheat Blossom Midge
Salish Kootenai College	
Sigler	Tribal Water Quality Video
Regional	
Inland Northwest Research Alliance	
Maxwell & Marshall	Watershed Structure, Land Use/Land Cover, and Snow Runoff Dynamics: Montana State ICEWATER Constellation
Northern Pulse Growers Association	
Jones, Miller, & Zabinski	Phosphorus management for increased growth and N fixation in pulse crops
Army Corps of Engineers	
Galli-Noble, Clark, Lehnhoff, & McFadzen	Regionally-Specific Workshops in the Southwest on Strategic Management
Bureau Of Indian Affairs	
Weaver	Weed Control MOA
Bureau Of Land Management	
Galli-Noble	Invasive Plant Management
Hoopes	Partner to Implement Campaign
Littlefield	Biological control of hawkweeds, Russian knapweed, and other weeds invasive to lands managed by the BLM
Weaver	Biological Weed Control Research
Federal	
National Aeronautics And Space Administration	
Ward	Molecular and Geochemical Analysis of Anoxygenic Phototrophic Bacteria in Hot Spring Microbial Mats as Stromatolite Analogs
National Forest Foundation	
Hoopes	What's In Your World?
National Park Service	
Lehnhoff	2010 Non-Native Plant Inventory at Little Bighorn Battlefield National Monument
Lehnhoff	Intern Contributes to Invasive Plant Management and Biocontrol at Little Bighorn Battlefield National Monument

Agency & PI	Title
National Park Service cont...	
Rew	Research Fencing to Protect Resources at Grant-Kohrs Ranch NHS
Sigler & Hershberger	Monitoring Water Quality and Quantity at Bighorn Canyon NRA: Seeps, Springs and River and Stream Locations
Sigler	Monitoring water quality at Bighorn Canyon NRA
Zabinski	Summarize Light Requirements for Germination and Establishment of Subalpine Species Used in Restoration Efforts and Determine Efficacy of Established Restoration Protocols
Zabinski	Assessment of Integrated Pest Management Tools & Techniques for Managing Invasive Plants
Zabinski	Assessment of Integrated Pest Management Tools and Techniques for Managing Invasive Plants in Small Parks served by the Northern Rockies
National Science Foundation	
Marshall & McGlynn	Seeing the forest for the trees: Interpreting and quantifying emergent catchment hydrology behavior
Maxwell	Collaborative Research: Landscape Limnology of Montana Watersheds: Nutrient Retention and Ecosystem Stability Complex Aquatic Ecosystems
Maxwell	ARRA Collaborative Research: The Intersection of Vegetation Organization and Watershed Topology: Ecohydrologic Imprints in Runoff Generation and Stream Discharge
Priscu	ARRA GeomicroBiology of Antarctic Subglacial Environments (GBASE)
Priscu & Foreman	ARRA Collaborative Research: Integrated High Resolution Chemical and Biological Measurements on the Deep WAIS Divide Core
Ward	OPUS: Synthesis of Long-Term Research on Hot Spring Microbial Mats
Pacific Northwest National Laboratory	
Ward & Inskeep	Structure and function of microbial communities associated with selected Yellowstone National Park hot springs
USDA APHIS - Animal And Plant Health Inspection Service	
Hoopes	Biological Control Education and Outreach Programs
Littlefield	Augmentation and Release of Biological Control Agents for Russian Knapweed
Weaver	Establishing Mecinus janthinus Insectaries on Yellow Toadflax
Hoopes	Biological Control Education and Ou
Littlefield & Maxwell	Biological Control Agents for Russian Knapweed
US Army Construction Engineering Research Laboratory	
Maxwell, Rew, & Backus	Invasive Plant Inventory, Mapping, and Management Prioitization Tools for Army Training Lands
US Cooperative State Research Education and Extension	
K. O'Neill & R. O'Neill	Factors Affecting Alfalfa Leafcutting Bee Development
Rew, Antle & Maxwell	A decision support prioritization framework for non-indigenous plant population management.
US Fish and Wildlife Service	
Galli-Noble	CIPM Coordination of the 2010 Weeds Across Borders Conference
Hoopes	Hoops Water Trails
US Geological Survey	
Marshall	Addressing computational paradigms in modeling the impacts of climate variability on watershed yield
Poole & McGlynn	Assessing hydrologic response to channel reconfiguration: Science to inform the restoration process, Silver Bow Creek, Montana.
USDA Natural Resources Conservation Service	
Mangold	Testing control options for western salsify on CRP lands in north-central Montana
USDA Forest Service	
Hoopes	Montana Statewide Noxious Weed Awareness and Education Campaign
Littlefield	Weed Bio-Control Treatment
Powell	North American Forest Disturbance, Regrowth, and Biomass Dynamics
Weaver	Chemical ecology of plant-insect interactions for biological control of weeds
USDA National Institute of Food and Agriculture	
Galli-Noble	Microbial Biocontrol Symposium: State of the Science and Enhancing Regulatory Communication
Maxwell, Buschena, Miller, & Zabinski	Understanding carbon dynamics: Agronomic, socioeconomic, and biophysical tradeoffs in determining the sustainability of multifunctional cropping systems in the Northern Great Plains
Peterson & Weaver	Improving IPM of Mosquitoes by Addressing Scientific Uncertainty and Public Concerns
Weaver, Talbert, & Sherman	Exploiting Antixenosis in Wheat Blends for Improved Pest Management Wheat Stem Sawfly
<u>Other States</u>	
California Institute of Technology	
Priscu	Astrobiology of Icy Worlds: Habitability, Survivability, and Detectability
Utah State University	
Menalled & Keren	Joint Management of Wheat Stem Sawfly, Fusarium Crown Rot, and Weeds: Assessing the Ecological Basis of a Total Systems Approach to Pest Management Strategies
Miller	Investigating the Legume Green Fallow Alternative on North-Central Montana No-Till Operations
University of North Dakota	
Lawrence	Making NASA Satellite Images More Accessible To The Public
Confederated Tribes of the Umatilla Indian Reservation	
Poole	Meacham Creek Restoration Monitoring
University of Hawaii at Manoa	
Dore	ARRA: The Hawaii Ocean Time-Series (HOT): Sustaining Ocean Ecosystem and Climate Observations in the North Pacific Subtropical Gyre
<u>Industry/Private</u>	
DenDroCo LLC	
Weaver	Mountain Pine Beetle Pheromone Terminator
MJ Murdock Charitable Trust	
Menalled, Burrows, & Z. Miller	Transmission and Impact of Cereal Viruses in Winter Wheat
S M Stoller Corporation	
Rew, Maxwell, & Lavin	Survey, Monitoring & Prediction of Occurrence and Spread of Native and Non-Native Species at Idaho National Laboratories.
America View Inc	
Lawrence	Program Management Services to AmericaView

LRES Class Highlights

A quick snapshot of LRES classes

LRES 500 Seminar Series:

Seminars are held in Leon Johnson Hall 346 at 1:10 p.m. every Monday of classes and are open to the public. Be sure to attend to enjoy refreshments with colleagues and to learn about the multiple research programs in LRES. To view the LRES 500 Seminar Schedule for Fall 2010 please visit

http://landresources.montana.edu/lres_seminars.html

New LRES Courses Offered This Fall:

LRES 480 Sustainable Food and Bioenergy Production with Erik Lehnhoff

LRES 480 Water Quality Experiment Design with Adam Sigler

LRES 580 Statistical Meta-Analysis with Cathy Zabinski

LRES 580 Special Topics in Ecosystem Biogeochemistry with Jack Brookshire

Welcome Student Activities

New Graduate Student Orientation/Division of Graduate Education

Thursday, August 26, 101 Gaines Hall, 9 a.m. – Noon. Lunch was provided to all participants. Immediately following, ALL New GTA's attended a mandatory training and development session from 1:00 p.m. – 5:00 p.m. in Reid 108

Welcome New Grad Student Dinner/Division of Graduate Education

Tuesday, September 7, SUB Ballrooms, Reception began at 5:30, Dinner at 6:15. Zack Jay represented LRES with his research poster. Our own Duncan Patten gave the keynote address on "The pillars of success in graduate school". Ask those who attended if you are curious! DGE link <http://www.montana.edu/wwwdg/>

LRES Departmental Orientation

Wednesday, September 8, 8:30 – 10:00 a.m. New graduate students met with the LRES Department Head and Staff to learn what we do and who you need to see for what! Handouts from the staff, bagels, and the LRES Graduate Handbook were provided.

Welcome LRES Undergraduates BBQ

Thursday, September 16, 5:00 - 6:30. On the lawn to the west of Leon Johnson Hall. Stop by, have a burger and get acquainted with each other and meet our Faculty and Staff.

LRES Department Welcome Pizza Supper

Wednesday, September 22, 5:30 - 7:30. Beall Center, 415 North Bozeman. Meet the Graduate Students, Faculty and Staff of the LRES Department! More information to come!

Fuel up for finals

Monday, December 13, 11:00 - 2:00. 325 Leon Jonson Hall. Stop by and have a slice of pizza before finals begin. More information to come!

New LRES Graduate Students

Byron Amerson

*PhD, Ecology
& Environmental Sciences
Advisor: Geoff Poole*

Bahram (Romie) Farokhkish

*MS, Land Resources
& Environmental Sciences
Advisor: Bob Peterson*

Paramjit Singh Karam Singh

*MS, Entomology
Advisor: Kevin O'Neill*

Patrick Lawrence

*MS, Land Resources
& Environmental Sciences
Advisors: Lisa Rew
& Bruce Maxwell*

Lisa Lone Fight

*MS, Land Resources
& Environmental Sciences
Advisor: Rick Lawrence*

Pamela Santibanez

*PhD, Ecology
& Environmental Sciences
Advisor: John Priscu*

Christopher Welch

*MS, Land Resources
& Environmental Sciences
Advisor: Paul Stoy*

Jason Wood

*PhD, Ecology
& Environmental Sciences
Advisor: Dave Ward*

Opportunities to Support LRES

A gift to the Department is a great way to support student and faculty endeavors. Donations can be earmarked for student scholarships or internships, graduate fellowships, undergraduate and graduate student programs, endowed professorships and more.

For information about making a donation to the Department please contact:

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