

College of Natural Resource
Faculty and Staff Activities and Achievements
March 2012

Articles, Chapters, Books with Undergraduate and Graduate Co-Authors

Sarah Null, Department of Watershed Sciences. 2011. Null, S. E., Bartolomeo, J. Lund, E. Hanak. 2011. Managing California's Water: Insights from Interviews with Water Policy Experts. Online appendix to *Managing California's Water: From Conflict to Reconciliation*. URL: http://www.ppic.org/content/pubs/other/211EHR_appendix.pdf.

Awards and Honors

Outstanding Paper in *Western North American Naturalist* for 2010 (2012) for this publication: Kulmatiski, A., K. H. Beard, L. A. Myerson, J. C. Gibson, and K. E. Mock. Department of Wildland Resources. 2010. Extent and mechanism of the non-native *Phragmites australis* invasion into Utah wetlands. 70(4):541-552.

Contracts and Grants

Ann Laudati, Department of Environment and Society. "From Coltan to Cattle: Unearthing violence in Eastern Democratic Republic of Congo." Harry Frank Guggenheim Foundation Research Funding. \$37,099.

Peter Adler. Department of Wildland Resources. 2011-2014 "A systems approach to seedling establishment on degraded rangeland: Managing ecological processes driving recruitment bottlenecks". USDA-NIFA, \$400,00 total, \$22,500 sub-award to USU (PI: J. James, Co-PI: P. B. Adler)

Peter Adler. Department of Wildland Resources. 2012 Research Experience for Undergraduates, NSF, \$6670.

Darren McAvoy. Department of Wildland Resources. USDA Forest Service (State and Private Forestry), "USU's Facilitation of the Utah Biomass Resources Group", 2010-2013, \$103,000.

Darren McAvoy. Department of Wildland Resources. Utah Department of Agriculture and Food, USU Biomass Gasification Project" 2011-2012, \$40,000.

Darren McAvoy. Department of Wildland Resources. USDI Bureau of Land Management, "BLM-Utah Biomass Resources Partnership Project" \$44,000.

Darren McAvoy, Department of Wildland Resources. USDA Forest Service, "Monitoring Effects of PJ Harvesting and Utilization in Southwest Utah" 2011-2013, \$30,000.

Presentations (only big conferences and international)

Ceurvorst, R. Department of Environment and Society. 2011. River user input on *Tamarix*

management in the Green and Colorado River corridors on the Colorado Plateau. Bi-annual Conference on the Colorado Plateau, NAU, Flagstaff, AZ on Oct. 24, 2011 –.

Radel, C. Department of Environment and Society. 2012. Radel, C., B. Schmook, N. Haenn, C. Méndez. 2012. State transfer payments, gendered labor migration, and women's resource access and control. Conference of Latin Americanist Geographers. Mérida, Mexico. 12-13 January.

Patrick Belmont, Department of Watershed Sciences. 2011. Belmont, P. (2012) Lidar and radionuclide fingerprinting: advances in watershed sediment budgeting. Invited speaker in session "Watershed Sediment Source Identification" Association of American Geographers, February 2012. New York, NY.

Patrick Belmont, Department of Watershed Sciences. 2011. Passalacqua, P., Belmont, P., Foufoula-Georgiou, E. (2011) Automatic geomorphic feature extraction from lidar in flat and engineered landscapes. Invited speaker in session "Spatial Analysis of High-Resolution Remote Sensing for Hydrology, Ecology, and Biogeochemistry" AGU Fall meeting. December 2011. San Francisco, CA.

Patrick Belmont, Department of Watershed Sciences. 2011. Foufoula, E., J. Schnoor, P. Belmont, P. Passalacqua (2011) A CDI Collaboration: Geosciences and Engineering for Intelligent Digital Watersheds. National Science Foundation. May, 2011. Arlington, Virginia. Patrick Belmont, Department of Watershed Sciences. 2011. Belmont, P., Willenbring, J., Marquard, J. (2011) Measuring event- and century-scale changes in sediment sources to the upper Mississippi River. EGU Annual Meeting. Vienna, Austria.

Karin Kettenring, Department of Watershed Sciences. 2011. Menuz, D.R.*, and K.M. Kettenring. 2011. Modeling the distribution of an invasive riparian plant species: Understanding drivers of invasion and testing model assumptions. Ecological Society of America annual meeting, Austin, TX.

Karin Kettenring, Department of Watershed Sciences. 2011. Menuz, D.R.*, K.M. Kettenring, and D.N. Koons. 2011. Invasion in riparian areas: Reed canarygrass occupation and spread in the eastern Columbia River Basin. The Wildlife Society annual meeting, Waikoloa, Hawaii.

Sarah Null, Department of Watershed Sciences. 2011. Rheinheimer, D., J.R. Lund, S.E. Null, J.H. Viers. Managing Stream Temperatures for Climate Warming Adaptation with Selective Withdrawal from Reservoirs. 2011 AGU Fall Meeting (session H51Q: Water Quality in River Systems I). San Francisco, CA.

Peter B. Adler. Department of Wildland Resources. "Forecasting community impacts of climate variability and change: When do competitive interactions matter?" University of Georgia, November 28, 2011.

Publications

Claudia Radel, Department of Environment and Society. 2012. Radel, C., B. Schmook, J. McEvoy, C. Méndez, and P. Petrzalka. 2012. Labour migration and gendered agricultural relations: The feminization of agriculture in the ejidal sector of Calakmul, Mexico. *Journal of Agrarian Change* 12(1): 98-119.

Claudia Radel, Department of Environment and Society. 2012. Radel, C. 2012. Outcomes of conservation alliances with women's community-based organizations in southern Mexico. *Society & Natural Resources*. 25(1). DOI: 10.1080/08941920.2011.555879.

Richard Toth, Department of Environment and Society. 2011. Toth, R. E., *Taylor, T. 2011. Alternative Futures: Energy and Habitat, Resources in Regional Development. *International Journal of Science and Society* 2(4):123-138.

Chris Luecke, Department of Watershed Sciences. 2011. O'Brien, W.J. and C. Luecke. 2011. Zooplankton community structure in arctic ponds: shifts related to pond size. *Arctic* 64: 483-487.

Sarah Null, Department of Watershed Sciences. 2011. Null, S.E., J.R. Lund. 2011. Fish Habitat Optimization to Prioritize River Restoration Decisions. *River Research and Applications*. DOI: 10.1002/rra.1521

Sarah Null, Department of Watershed Sciences. 2011. Ligare, S.T., J.H. Viers, S.E. Null, D. Rheinheimer, J.F. Mount. 2011. Non-Uniform Changes to Whitewater Recreation in California's Sierra Nevada from Regional Climate Warming. *River Research and Applications*. DOI: 10.1002/rra.1522

Brett Roper, Department of Watershed Sciences. 2011. Al-Chokhachy, R. , B.B Roper, E.K. Archer, and S. Miller. 2011. Quantifying the extent of and factors associated with the temporal variability of physical stream habitat in headwater streams in the Interior Columbia River Basin. *Transactions of the American Fisheries Society*, 140: 399- 414.

Atwood, T.C., J. K. Young, J. P. Beckmann, S. W. Breck, J. Fike, O. E. Rhodes, Jr., and K. D. Bristow. Department of Wildland Resources. 2011. Modeling Connectivity of Black Bears in a Desert Sky Island Archipelago. *Biological Conservation* 144:2851-2862 (also featured in *NY Times*).

Coulson, T., D. R. MacNulty, D. R. Stahler, B. vonHoldt, R. K. Wayne, and D. W. Smith. Department of Wildland Resources. 2011. Modeling effects of environmental change on wolf population dynamics, trait evolution and life history. *Science* 334:1275-1278.

Kozlowski, A. J., E. M. Gese, and W. M. Arjo. Department of Wildland Resources. 2011. Effects of Intraguild Predation: Evaluating Resource Competition Between Two Canid Species With Apparent Niche Separation. *International Journal of Ecology*, Volume 2012, Article ID 629246, 12 pages, doi:10.1155/2012/629246.

Gese, E. M., H. S. Cooley, and F. F. Knowlton. Department of Wildland Resources. 2012. Designing a Monitoring Plan. Pages 353-361 in *Carnivore Ecology and Management: A Handbook of Techniques*. Edited by L. Boitani and R. Powell. Oxford University Press, Oxford, United Kingdom.

MacNulty, D. R., D. W. Smith, L. D. Mech, J. A. Vucetich, and C. Packer. Department of Wildland Resources. 2012. Nonlinear effects of group size on the success of wolves hunting elk. *Behavioral Ecology* 23:75-82.

Olson, C. A. and K. H. Beard. Department of Wildland Resources. 2012. Diet of the invasive greenhouse frog in Hawaii. *Copeia*. 2012(1):122-130. DOI: 10.1643/CE-11-008.

Snyder, R. and P. B. Adler. Department of Wildland Resources. 2011. Coexistence and coevolution in fluctuating environments: Can the storage effect evolve? *American Naturalist* 178:E76-E84.

Troyer, J. L., M. E. Roelke, J. M. Jespersen, N. Baggett, V. Buckley-Beason, D. R. MacNulty, M. Craft, C. Packer, J. Pecon-Slattery, and S. J. O'Brien. Department of Wildland Resources. 2011. FIV diversity: FIV_{Ple} subtype composition may influence disease outcome in African lions. *Veterinary Immunology and Immunopathology* 143:338-346.

Veblen, K. E. Department of Wildland Resources. 2012. Savanna glade hotspots: Plant community development and synergy with large herbivores. *Journal of Arid Environments* 78:119-127.