



Presentations and Publications

Journal Articles

Bisiaux, M.M., R. Edwards, A. C. Heyvaert, J. M. Thomas, B. Fitzgerald, R. B. Susfalk, S. G. Schaldow and M. Thaw, 2011. Stormwater and fire as sources of black carbon nanoparticles to Lake Tahoe. *Environmental Science and Technology* 45(6), 2065-2071.

Chen, D., S. Gerstenberger, D. Wong, S. Mueting, 2011. Environmental factors affecting settlement of quagga mussel (*Dreissena rostriformis bugensis*) veligers in Lake Mead, Nevada-Arizona, USA. *Aquatic Invasions* 6(2), doi: 10.3391/ai/2011.6.x.xx

Huntington, J.L., J. Szilagyi, S.W. Tyler, and G.M. Pohl, 2011. Evaluating the Complementary Relationship for Estimating Evapotranspiration from Arid Shrublands. *Water Resources Research* doi:10.1029/2010WR009874.

Conference Abstracts/Papers

Beamer, J.P., C. Morton, J.L. Huntington, and G. Pohl. 2011. Annual Evapotranspiration Estimation Using Landsat and Flux Tower Data. Nevada Water Resources Association 2011 Annual Conference, Nevada Water Resources Association. Reno, NV.

Huntington, J.L., A. Sullivan, T. Minor, T. Mihevc, B. Lyles, G. McCurdy, R.G. Allen, G.M. Pohl, J. Thomas, 2011. Towards Updating Agricultural Consumptive Use & Basin Water Budgets Throughout the State of Nevada. Nevada Water Resources Association 2011 Annual Conference, Nevada Water Resources Association. Reno, NV. Oral Presentation

Sullivan, A., L. Gilbertson, C. Morton, J.L. Huntington, 2011. Quantifying Agricultural Consumptive Use Using Remote Sensing to Support Water Rights Changes in the Walker River Basin. Nevada Water Resources Association 2011 Annual Conference, Nevada Water Resources Association. Reno, NV. Oral Presentation

Hatchett, B.J., J.F. Mejia, J.L. Huntington, and D. Koracin, 2011. Evaluation of three climate downscaling techniques in forcing a coupled hydrological model in a snow-dominated watershed in the Lake Tahoe basin. 91st American Meteorological Society Meeting, American Meteorological Society. Seattle, WA. Poster Presentation

Reports

Russell, C.E., D. McGraw, and P.L. Oberlander, 2011. Evaluation of Borehole Flow Logging for Underground Test Area Well ER-20-8#2. DOE/NV/26383-LTR2011-01.

New Projects

Rainbow Wash Watershed Study

PI: Li Chen

Agency: Maricopa County Flood Control District

Amount: \$80,000

Summary: Continue the Rainbow Wash Watershed study, which includes assisting the District with assigning Green and Ampt (G-A) parameters to the geomorphic units delineated; reviewing FLO-2D model results prepared by the District for the storm of August 9, 2005, potentially refine and simplify the DRI G-A optimization procedure for computing effective G-A parameters; conduct hydrologic research in a comparison watershed with the following tasks: select a second watershed, geomorphic classification, rainfall simulation experiments, modeling analysis and preparation of finds obtained through field work and modeling study.

New Hires

- Kedely Oteberry, Hourly Technical (Karletta Chief)
- Stephen Gray, Hourly Technical (Karletta Chief)
- William Orr, Hourly Skilled Craft (Roger Jacobson)
- Michael Sigl, Postdoctoral Fellow (Joe McConnell)
- Olivia Maselli, Postdoctoral Fellow (Joe McConnell)

DHS Announcements

- Jordan Beamer won 1st Place for Best Student Poster at the Nevada Water Resources Association 2011 Annual Conference, Nevada Water Resources Association. Reno, NV

Proposals (submitted this quarter)

| Date | PI(s), CO-PI(s) | Sponsor | Title | Funding (\$) |
|-----------|--|--|---|--------------|
| 12-Jan-11 | McConnell, Joe | EPA | Documenting concentrations, sources, and transport pathways of black carbon, organic aerosol, and other short-lived climate forcers in mid-latitude North America during the 20th century | 898,725.00 |
| 13-Jan-11 | Warwick, John (PI) Acharya, Kumud Gautam, Mahesh Knust, Anna Schumer, Rina | DOI - US Geological Survey | FY11 Annual Application under Section 104 of the Water Resources Act of 1984, as amended | 92,335.00 |
| 3-Feb-11 | Warwick, John Jackson, Tom | NSF | MRI: Acquisition of an Integrative Cyber infrastructure for High-Performance Environment Research (ICHER) | 1,531,750.00 |
| 10-Feb-11 | Pohlmann, Karl (PI) Albright, Bill, Campbell, Scott Chapman, Jenny Shafer, David | US Department of Agriculture | Evaluation of Landfill Conditions and Potential Impacts on Water Resources in Rural Clark County, NV | 179,163.00 |
| 23-Feb-11 | Schumer, Rina | NSF | Collaborative Research: Cause, Consequence, and Correction of Bias in Measurement of Deposition Rates | 154,773.00 |
| 24-Feb-11 | Lutz, Alexandra | Carson Water Subconservancy District | Reconstruction of Carson River streamflow variability during the past 300 years | 9,990.00 |
| 10-Mar-11 | Sada, Don | E Read and Associates, Inc | 2011 Aquatic Habitat and Fish Population Monitoring | 65,054.00 |
| 10-Mar-11 | Heyvaert, Alan | USDA - Forest Service | Evaluating Field and Laboratory Data for Developing Surrogate Indicators to Monitor Fine Sediment in the Tahoe Basin | 90,714.00 |
| 18-Mar-11 | Coming, Daniel | University and Community College System of Nevada - EPSCoR | Advanced Computer Vision, Robotics, and Visualization Algorithms for Improving Planetary Exploration and Understanding | 241,686.00 |
| 18-Mar-11 | Jackman, Thomas (PI) Coming, Daniel Sgambati, Matthew | GE Energy | Wind Energy Visual Analytics | 187,897.00 |
| 22-Mar-11 | Daniels, Jeffrey | EPA | Community Action for a Renewed Environment (CARE) Program | 99,580.00 |
| 23-Mar-11 | Susfalk, Rick (PI) Brock, Jim Fitzgerald, Brian | South Florida Water Management District | Quality Assurance Review of L31N Groundwater Flow Data for 2006-2009 | 24,833.00 |