

## Center for Ecohydraulics Research Publications List

<u>Year</u>	<u>Paper (List full citation)</u>	<u>Refereed Journal</u>	<u>Refereed Conference Proceedings</u>	<u>Other (Please indicate, e.g., book chapter, etc.)</u>
<b>2004</b>	Burke, M & Jorde, K, 2004. Conceptual framework for assessment of ecosystem losses due to reservoir operations. Proceedings of the 5th International Symposium on Ecohydraulics. IAHR, Madrid, Spain.		X	
	S.R. Clayton, J.K. Brostrom, I. Scherrer, P. Goodwin, and K. Jorde "Quantifying Physical and Biological Responses to Stream Restoration", "Annual Meeting of Western Division of the American Fisheries Society", February 2004, Salt Lake City, USA	X	X	
	Barry, J.J., J.M. Buffington, and J.G. King, 2004, A general power equation for predicting bed load transport rates in gravel bed rivers, Water Resources Research, 40: W10401, doi:10.1029/2004WR003190.	X		
	Hardy, J.P., R. Melloh, G. Koenig, D. Marks, A. Winstral, J. Pomeroy and T. Link, 2004. Solar radiation transmission through conifer canopies. Agricultural and Forest Meteorology, 126: 257-270.	X		
	Johnson, J. and D. Marks, 2004. The detection and correction of snow water equivalent pressure sensor errors. Hydrological Processes, 18(18): 3513-3525	X		
	Link, T., G. Flerchinger, M. Unsworth and D. Marks, 2004. Simulation of water and energy fluxes in an old growth seasonal temperature rainforest. Journal of Hydrometeorology, 5(3): 443-457.	X		
	Link, T., D. Marks and J. Hardy, 2004. A deterministic method to characterize canopy radiative transfer properties. Hydrological Processes, 18(18): 3583-3594.	X		
	Link, T., M. Unsworth and D. Marks, 2004. The interception dynamics of a seasonal temperate rainforest. Agricultural and Forest Meteorology, 124: 171-191.	X		
	Pomeroy, J., K. Elder, D. Garen, A. Klein and D. Marks, 2004. Preface to Special Snow Issue. Hydrological Processes, 18(18): 3469	X		
	Sicart, J. E., J. Pomeroy, D. Marks, R. Essery, J. Hardy and T. Link, 2004. A sensitivity study of daytime net radiation during snowmelt to forest canopy and atmospheric conditions. Journal of Hydrometeorology, 5(5): 774-784.	X		
	Unsworth, M. H., N. Phillips, T. Link, B. Bond, M. Falk, M. Harmon, T. Hinckley, D. Marks and K-T Paw U, 2004. Components and controls of water flux in an old growth Douglas Fir/Western Hemlock ecosystem. Ecosystems, 7: 1-14.	X		
	Slaughter, C.W., A. Haak, Y. Morales, R. Mink, and L. Merida. 2004. Water management challenges in the Rio Villalobos and Lake Amatitlan watershed, Guatemala. Water Resources IMPACT 6(1):28-31.	X		
	Goodwin, P., 2004. Analytical Solutions for Estimating Effective Discharge. Journal of Hydraulic Engineering. ASCE. 130(8). 729-738.			
	Barry, J.J., J.M. Buffington and P. Goodwin, 2004. Performance of Bedload Transport Equations Relative to Geomorphic Significance. AGU Conference, San Francisco		X	
	Goodwin, P., "Las Exigencias Académicas en EE.UU". Invited presentation to new 2004 Fulbright Scholars from Chile before their departure to the US. COMISION PARA EL INTERCAMBIO EDUCATIVO ENTRE CHILE Y LOS ESTADOS UNIDOS DE AMERICA. June 3, 2004.		X	
	"Las bases científicas y los enfoques de manejo de las normativas de calidad del agua en USA"; Invited presentation at 'Normativas de calidad del Aqua: Bases científicas y enfoques de gestion', Centro de Ciencias Ambientales EULA-Chile. January 8, 2004.	X	X	

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	Bratrich, C., Jorde, K., Truffer, B., Markard, J., Meier, W., Peter, A., Schneider, M., and Wehrli, B. (2004). "Green Hydropower: A New Assessment Procedure for River Management." <i>River Research and Applications</i> , 20, 865-882.			
	Burke, M., and Jorde, K. (2004). "Physical process based conceptual framework for assessment of ecosystem losses in river floodplain systems due to reservoir operations." Fifth International Symposium on Ecohydraulics, Madrid, Spain, 840-844.		X	
	Jorde, K. (2004). "River Restoration - Potential, Constraints and the Role of Ecohydraulics." Proc. 4th Ecohydraulics Conference, Capetown, South Africa, March 3-8, 14. (Invited keynote lecture).		X	
	Jorde, K., Borden, C., and Zoellner, F. (2004). Fifth International Symposium on Ecohydraulics, International Association of Hydraulic Engineering and Research, Madrid, Spain.		X	
<b><u>2005</u></b>	K. Jorde, I. Scherrer "Stream Temperature Modeling and Thermal Restoration Potentials", 31. IAHR Congress, Seoul, 11p	X	X	
	Barry, J.J., J.M. Buffington, and J.G. King, 2005, Reply to comment by Claude Michel on "A general power equation for predicting bed load transport rates in gravel bed rivers", <i>Water Resources Research</i> , 41:W07016, doi:10.1029/2005WR004172.			
	Link, T., G, Flerchinger, M. Unsworth and D. Marks, 2005. Water relations of old growth Douglas fir stands. In: <i>Climate and Hydrology of Mountain Areas</i> , C. de Jong, D.N. Collins and R. Ranzi, eds., John Wiley & Sons, Ltd., London, UK, 147-160.	X		X
	Garen, D.C. and D. Marks, 2005. Spatially distributed energy balance snowmelt modeling in a mountainous river basin: Estimation of inputs and verification of model results. <i>Journal of Hydrology</i> , 315: 126-153.	X		
	Pypker, T., B.J. Bond, T.E. Link, D. Marks and M.H. Unsworth, 2005. The importance of canopy structure in controlling the interception loss of rainfall: examples from a young and an old-growth Douglas-fir forest. <i>Agricultural and Forest Meteorology</i> , 130: 113-129.			
	Dietrich, W.E., P.A. Nelson, E. Yager, J.G. Venditti, M.P. Lamb, and L. Collins, (2005), Sediment patches, sediment supply, and channel morphology in G. Parker and M.H. Garcia (eds.), <i>Proceedings of the 4<sup>th</sup> IAHR Symposium on River, Coastal and Estuarine Morphodynamics: 79-90</i> .		X	
	Jorde, K., Burke, M., Scheidt, N., Welcker, C., Borden, C., King, S., Benjankar, R., McFall, J., and Caamano, D. (2005). "Reservoir Operations and Ecosystem losses." 6th Gravel Bed River Conference, St. Jakob, Austria (invited keynote lecture, in review for publication).		X	
	Muskatirovic J., Goodwin P., Morehead M., (2005), Prediction of Bedload Transport in Gravel-bed Rivers with Stable Armor Layer, XXXI IAHR Congress of the International Association for Hydraulic Research, Seoul, Korea; September 11-16, 2005, Theme C, pp. 1456-1464		X	
	Morehead M., Peckham S., Muskatirovic J., Lessons Learned from Predicting the Poorly Gauged Sweetwater Creek Basin, in Central Idaho, AGU 2005 Fall Meeting, San Francisco, CA, December 5-9, H51B-0355		Poster	

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<u>Year</u>	Paper (List full citation)	Refereed Journal	Refereed Conference Proceedings	Other (Please indicate, e.g., book chapter, etc.)
	Braatne J., Goodwin P., Muskatirovic J., Sediment Transport and Dams: Physical Influences and Consequences, National Science Foundation - Pan-American Advanced Study Institute (PASI) Workshop: Is Sustainability in an Adaptive Management Framework Available?, Concepcion, Chile, January 10-28, 2005.		X	
	McIlroy, Jr., H.M., and R.S. Budwig. The boundary layer over turbine blade models with realistic rough surfaces. In the Proceedings of ASME Turbo Expo 2005, paper GT2005-68342, June 2005, Reno, Nevada.		X	
	Budwig, R.S., M.J. Anderson, G.C. Putnam, and C. Manning. Ultrasonic particle size fractionation in a moving air stream. Presented at the 2005 World Conference on Ultrasonics (Beijing, August 2005) and in review for Ultrasonics.	X	X	

Bernhardt E.S., Palmer, M.A., , J.D. Allan, G. Alexander, K. Barnas, S. Brooks, J. Carr, S. Clayton, C.N. Dahm, J. Follstad Shah, D.L. Galat, S.Gloss, P.Goodwin, D.D. Hart, B. Hassett, R. Jenkinson, S. Katz, G.M. Kondolf, P.S. Lake, R. Lave, J.L.

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<b>2006</b>	Caamaño, D., Goodwin, P., Manic, M. 2006. Derivation of a bed load sediment transport formula using artificial neural networks. 7th International Conference on Hydroinformatics, Nice, France.		X	
	Burke, M., Jorde, K., Buffington, J., Braatne, J., & Benjankar, R., 2006. Spatial Distribution of Impacts to Channel Bed Mobility Due to Flow Regulation, Kootenai River, USA. Proceedings of the 8th Federal Interagency Sedimentation Conference, Reno, NV.		X	
	Barry, J.J., J.M. Buffington, J.G. King, and P. Goodwin, 2006, The Performance of bed load transport equations in mountain gravel-bed rivers: A re-analysis. Proceedings of the 8th Federal Interagency Sedimentation Conference, Reno, NV, April 2-6, 2006.		X	
	Burke, M., K. Jorde, J.M. Buffington, J. Braatne, and R. Benjankar, 2006, Spatial distribution of impacts to channel bed mobility due to flow regulation, Kootenai River, USA, Proceedings of the 8th Federal Interagency Sedimentation Conference, Reno, NV, April 2-6, 2006.	X	X	
	Flerchinger, G.N., D. Marks, S.P. Hardegree, A.H. Winstral, M.S. Seyfried, F.P. Pierson and P.E. Clark, 2006. Climate and hydrologic research conducted at the Reynolds Creek Experimental Watershed. Owyhee Outpost, A Journal of the History of the Owyhee Country, 37: 72-91.	X		
	Perron, J. T., M. P. Lamb, C. D. Koven, I. Y. Fung, E. Yager, and M. Ádámkóvics, (2006), Valley formation and methane precipitation rates on Titan., J. Geophys. Res., 111, E11001, doi:10.1029/2005JE002602.			
	Plumlee, D.G., Budwig, R., Steciak, J., and Moll, A.J. Low temperature co-fired ceramics (LTCC) nozzle development and testing. In the Proceedings of the 2006 Western States Section of the Combustion Institute, Boise, Idaho, March 27 - 28, 2006.		X	
	Goodwin, P., World Meteorological Organization/ Global Water Partnership, 2006. Environmental Aspects of Integrated Flood Management. The Associated Programme on Flood Management. A.C. Tyagi, M. Hyoda, A. Grobicki and WMO Expert Group. APFM Technical Document No. 3. Flood Management Policy Series.WMO, Geneva. 71p.			Book
	Goodwin, P., Drawing Louisiana's New Map: Addressing Land Loss in Coastal Louisiana, 2006. Committee on the Restoration and Protection of Coastal Louisiana. National Academies of Sciences. 190pp.	X		Book
	Goodwin, P., K. Jorde, C. Meier and O. Parra, 2006. Minimizing environmental impacts of hydropower development: transferring lessons from past projects to a proposed strategy for Chile. Journal of Hydroinformatics. 8(3). 1-19.	X		
	Goodwin, P., 2006. Closure. Analytical Solutions for Estimating Effective Discharge. Journal of Hydraulic Engineering. ASCE. 131(1).			
	Goodwin, P., "Engineering Design for Climate Change and Coastal Communities". Plenary Talk. National Conference on Coastal and Estuarine Habitat Restoration: Forging the National Imperative. www.estuaries.org. New Orleans, Louisiana. Dec 9-13, 2006.		X	
	Goodwin, P., "Challenges of Managing the Lower Mississippi River in Coastal Louisiana". Session 4B. Idaho Water Resources Research Symposium, Boise, Idaho. November 28-29, 2006.		X	

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	Goodwin, P., "The River, Landscape and Community: Choices for the Future of the Boise River". Boise Environmental Lecture Series. June 2006.		X	
	Goodwin, P., "Trends in Community Science in the United States: the Example of Water Research. What small states are doing to remain competitive." Presentation to the Federal Reserve Board, Idaho Water Center, September 6, 2006. Lecture delivered live from the IAHR International Conference on Hydroinformatics, Nice, France. Presentation included the benefits of the NSF EPSCoR program.		X	
	Goodwin, P., "Emerging Technologies for Improving our Predictive Capabilities of River Response to Restoration". Keynote Address. Fifth Annual Northwest Stream Restoration Design Symposium. January 31-Feb 2, 2006. Skamania Lodge, Stevenson, Washington.		X	
	"Tendencias hacia Ciencias de la Comunidad: Observatorios Medioambientales y Redes Globales". American Academy of Science and Technology, Santiago, Chile. January 6, 2006.		X	
	"Approaches to Evaluating Impact of Dam Operation on Reservoir Productivity". Payette Watershed Dam Operations Workshop: US Bureau of Reclamation, January 27, 2006	X	X	
	Schneider, M., and Jorde, K. (expected 2006). "Use of fuzzy logic in fish habitat modeling: A new approach incorporating imprecise expert knowledge." River Research and Applications, (in review).			
<b><u>2007</u></b>	Caamaño, D. and Goodwin, P. 2007. One dimensional criterion for velocity reversal occurrence. 32nd Congress of the International Association of Hydraulic Engineering and Research (IAHR), Venice, Italy.		X	
	<i>Caamano, D. and P. Goodwin, 2007. On the Velocity Reversal Hypothesis. IAHR Biennial Congress. Venice, Italy. July 4-8.</i>		X	
	Burke, M & Jorde, K, 2007. Reservoir Operations and Ecosystem Losses: Modified Fluvial Processes Downstream of Libby Dam, Kootenai River, U.S.A. and Canada. Proceedings of the 6th International Symposium on Ecohydraulics. IAHR, Christchurch, New Zealand.		X	
	Jorde, K., Burke, M., Scheidt, N., Welcker, C., King, S. & Borden, C., 2007. Reservoir operations, physical processes, and ecosystem losses. In: Habersack, H., Piégay, H., Rinaldi, M. (Eds.), Gravel-Bed Rivers VI: From Process Understanding to River Restoration. Elsevier, pp. 607-636.	X		Book; see cite for details
	Barry, J.J., J.M. Buffington, and J.G. King, 2007, Correction to "A general power equation for predicting bed load transport rates in gravel bed rivers", Water Resources Research, 43:W08702, doi:10.1029/2007WR006103.	X		
	Tonina, D., and J.M. Buffington, 2007, Hyporheic exchange in gravel bed rivers with pool-riffle morphology: Laboratory experiments and three-dimensional modeling, Water Resources Research, 43: W01421, doi:10.1029/2005WR004328.	X		
	Essery, R., and D. Marks, 2007. Scaling and parameterization of clear-sky solar radiation over complex topography. Journal of Geophysical Research, Atmospheres, 112(D10122), doi: 10.1029/2006JD007650.	X		

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	Flerchinger, G.N., D. Marks, S.P. Hardegree, A. Nayak, A.H. Winstral, M.S. Seyfried, F.P. Pierson and P.E. Clark, 2007. 45 Years of Climate and Hydrologic Research Conducted at the Reynolds Creek Experimental Watershed. In: J.R. Rogers (Ed), Environmental and Water Resources: Milestones in Engineering History. Sponsored by ASCE Environmental and Water Resources Institute (EWRI) National History & Heritage Committee. American Society of Civil Engineers, Reston, VA., 135-143.	X		
	Marks, D., M. Seyfried, G. Flerchinger and A. Winstral, 2007, Research data collection at the Reynolds Creek Experimental Watershed, <i>Journal of Service Climatology</i> , 1(1), 1-18.	X		
	Yager, E.M., J.W. Kirchner, and W.E. Dietrich, (2007), Calculating bedload transport in steep, boulder-bed channels, <i>Water Resources Research</i> , 43, W07418, doi:10.1029/2006WR005432.			
	Yager, E.M. and M.W. Schmeckle (2007), The influence of emergent vegetation on turbulence and sediment transport in rivers. D. Boyer and O. Alexandrova (eds.), <i>Proceedings of the 5th IAHR International Symposium on Environmental Hydraulics</i> , 69-74.	X	X	
	Stephens, Terrance L. and Budwig, Ralph S. 2007 Three-axis acoustic device for levitation of droplets in an open gas stream and its application to examine sulfur dioxide absorption by water droplets. <i>Rev. Sci. Instrum.</i> , 78, 01490-1 to 11490-8.	X		
	Mcllroy Jr, H.M. and Budwig, R.S. 2007 The boundary layer over turbine blade models with realistic rough surfaces. <i>ASME Journal of Turbomachinery</i> , 129, 318 – 330.	X		
	Tonina, D., C.H. Luce, S.R. Clayton, S.M. Ali, J.J. Barry, B. Rieman, P. Goodwin, J.M. Buffington, C.E. Berenbrock, in press 2007. Hydrological Response to Timber Harvest in Northern Idaho: Implications for Channel Scour and Persistence of Salmonids. <i>Water Resources Research</i> .	X		
	Rumps. J.M; S.L. Katz, K. Barnas, M.D. Morehead, R. Jenkinson, S.R. Clayton, P. Goodwin, 2007. Stream Restoration in the Pacific Northwest: Analysis of Interviews with Project Managers. <i>Journal of Ecology</i>	X		
	Klein, L.R, S.R. Clayton, and P. Goodwin, in press 2007. Long-Term Monitoring and Evaluation of the Lower Red River Meadow Restoration Project, Idaho, USA. <i>Journal of Restoration Ecology</i> .			
	Goodwin, P., "Quantitative Performance Assessment of Stream Restoration". Keynote. Montana River Restoration Conference, Missoula September 21-22, 2007		X	
	Goodwin, P., "Building a globally competitive research program: the example of the Center for Ecohydraulics Research", Idaho Business Council, Arid Club, Boise. June 13, 2007.		X	
	Goodwin, P., "Building Environmental Observatories: The Example of the Idaho Experimental Watershed Network". Keynote. Spring Runoff Conference, Utah State University, April 5-6, 2007.		X	

Goodwin, P. " Detecting and Predicting Change in

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<b>2008</b>	Davis, L. and Caamaño, D., 2008. Boise Green LiDAR, 2008 American Water Resources Association (AWRA) Spring Specialty Conference GIS and Water Resources. San Mateo, California, USA		X	
	Caamaño, D. and McGown, M. 2008. Developing interactive two-dimensional flood calculations for the Lower Boise River, Idaho. Association of State Floodplain Managers (ASFPM) 32nd Annual Conference. Reno, Nevada, USA.	X	X	
	Muskatirovic, J. 2008. Analysis of bedload transport characteristics of Idaho streams and rivers. Earth Surface Processes and Landforms, Vol. 33, Iss. 11, pp. 1757-1768, 15 October 2008. Online ISSN: 1096-9837, Print ISSN: 0197-9337, Copyright 2008 John Wiley & Sons, Ltd., Pub. Online: May 2 2008 10:29AM, DOI:10.1002/esp.1646			
	Barry, J.J., J.M. Buffington, P. Goodwin, J.G. King, and W.W. Emmett, 2008, Performance of bed-load transport equations relative to geomorphic significance: predicting effective discharge and its transport rate, Journal of Hydraulic Engineering 134(5): 601-615, doi 10.1061/(ASCE)0733-9429(2008)134:5(601).	X	X	
	Tonina, D., C.H. Luce, B. Rieman, J.M. Buffington, P. Goodwin, S.R. Clayton, S.M. Ali, J.J. Barry, and C. Berenbrock, 2008, Hydrological response to timber harvest in northern Idaho: implications for channel scour and persistence of salmonids, Hydrological Processes, doi: 10.1002/hyp.6918.			
	Buffington, J.M., and D. Tonina, 2008, Discussion of "Evaluating vertical velocities between the stream and the hyporheic zone from temperature data" by I. Seydell, B.E. Wawra, and U.C.E. Zanke, in Gravel-Bed Rivers 6–From Process Understanding to River Restoration, edited by H. Habersack, H. Piégay, and M. Rinaldi, Elsevier, pp. 128-131.	X		X
	Essery, R., P. Bunting, J. Hardy, T. Link, D. Marks, R. Melloh, J. Pomeroy, A. Rowlands and N. Rutter, 2008. Radiative transfer modeling of a coniferous canopy characterized by airborne remote sensing. Journal of Hydrometeorology, 9, 228-241.	X		
	Marks, D. M. Reba, J. Pomeroy, T. Link, A. Winstral, G. Flerchinger and K. Elder, 2008. Comparing simulated and measured sensible and latent heat fluxes over snow under a pine canopy. Journal of Hydrometeorology, doi: 10.1175/2008JHM874.1 (early online release).	X		
	Pomeroy, J., A. Rowlands, J. Hardy, T. Link, D. Marks, R. Essery, J. Sicart and C. Ellis, 2008. Spatial variability of shortwave irradiance for snowmelt in forests. Journal of Hydrometeorology, doi: 10.1175/2008JHM867.1 (early online release).			
	Nayak, A., D. Chandler, D. Marks, J. McNamara and M. Seyfried, 2008. Objective sub-daily data correction for weighing bucket type precipitation gauge measurements, Water Resources Research, doi:10.1029/2008WR006875, in press.			In press
	Winstral, A., D. Marks and R. Gurney, (2008). An efficient method for distributing wind speeds over heterogeneous terrain, Hydrological Processes (in press).			In press
	Reba, M., T. Link, D. Marks and J. Pomeroy (2008), An assessment of techniques to improve estimates of turbulent fluxes over snow by eddy covariance in mountain environments, Water Resources Research (accepted for publication).			In press

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	Winstral, A., D. Marks and R. Gurney, (2008), Modeling time-series wind fields over a semi-arid mountain catchment, In: Hydrology in Mountain Regions: Observations, Processes and Dynamics, IAHS Publication (accepted for publication).			Accepted
	Reba, M., D. Marks, T. Link and J. Pomeroy, (2008), Inter-annual comparison of measured turbulent fluxes over snow at a wind-sheltered and wind-exposed site using eddy covariance. In: Hydrology in Mountain Regions: Observations, Processes and Dynamics, IAHS Publication (accepted for publication).			Accepted
	Seyfried, M.S., L. Grant, A. Winstral, D. Marks and J. McNamara (2008), Simulation of soil water storage effects on streamflow generation in a snowmelt environment, submitted to Soil Science Society of America Journal.			Accepted
	Nayak, A., D. Marks, D. Chandler and M. Seyfried (2008), Long-term snow, climate and streamflow trends from at the Reynolds Creek Experimental Watershed, Owyhee Mountains, Idaho, USA, submitted to Water Resources Research.			Submitted
	Leichliter, K., Lounsbury, B., Steciak, J., Budwig, R., and Beyerlein, S. Modeling a heated wire catalyst in cross flow. In the Proceedings of the 2008 Western States Section of the Combustion Institute, Los Angeles, March 17 - 18, 2008.		X	
	Leichliter, K., Lounsbury, B., Steciak, J., Budwig, R., and Beyerlein, S. Finite element model of a heated wire catalyst in cross flow. In the Proceedings of the ASME 2008 International Mechanical Congress and Exposition, Boston, October 31 - November 6, 2008. Paper number IMECE2008-68922.		X	
<b><u>2009</u></b>	Caamaño, D., Goodwin, P., Buffington, J.M., Liou, J.C., Daley-Laursen, S. A unifying criterion for velocity reversal hypothesis in gravel-bed rivers. Journal of Hydraulic Engineering. ASCE (in press – scheduled for publication on January 2009).			In press
	Burke, M., Jorde, K., & Buffington, in press. Application of a hierarchical framework for assessing environmental impacts of dam operation: changes in streamflow, bed mobility and recruitment of riparian trees in a western North American river. Journal of Environmental Management.			In press
	Yager, E.M., (submitted 2008), Mobility of sediment patches, Proceedings of the 7th ISE International Symposium on Ecohydraulics, Jan.12-16, 2009	X	X	
	Budwig, R., McLaughlin, R.E., Clayton, S., Sweet, S., and Goodwin, P. Physical modeling of wave generation for the Boise River Recreation Park in the Center for Ecohydraulics Stream Laboratory. In review for the Proceedings of the International Conference of Science and Information Technologies for Sustainable Management of Aquatic Ecosystems, Concepción, Chile, January 12 -16, 2009.			