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Education

Ph.D. Civil and Environmental Engineering - University of Washington	August 2010
M.S. Civil and Environmental Engineering - University of Washington	August 2005
B.S. Civil and Environmental Engineering - Seattle University	December 2003

Professional History

Assistant Professor, Department of Civil and Environmental Engineering, University of Wisconsin, Platteville, January 2013 to Present
Research Assistant Professor, Department of Civil and Environmental Engineering, University of Massachusetts Amherst, November 2010 to January 2013
Research Engineer, Department of Civil and Environmental Engineering, University of Massachusetts Amherst, August 2008 to November 2010
Intern Engineer, Gray and Osborne, August 2004 – March 2005
Engineer II, King County Department of Natural Resources and Parks, Solid Waste Division, June 2003 – August 2004

Refereed Journal Publications

1. Steinschneider, S., Bernstein, A., Palmer, R., and Polebitski, A. (2013). "Reservoir Management Optimization for Basin-Wide Ecological Restoration in the Connecticut River." *J. Water Resour. Plann. Manage.*, 10.1061/(ASCE)WR.1943-5452.0000399 (Aug. 14, 2013).
2. Steinschnider, S., Polebitski, A.S., Brown, C., Letcher, B. (2012). "A statistical framework to test the significance of hydrologic alteration under future climate scenarios" *Water Resources Research*, 48 (11)
3. Polebitski, A.S., and R.N. Palmer (2012). "Analysis of Changing Water Curtailment Responses within Single Family Residences." *J. American Water Resources Assoc.* 49(1) 40-51
4. Alemu, E.T., Palmer R. N., Polebitski A. S., and Meaker B.A. (2011). "Decision Support System for Optimizing Reservoir Operations Using Ensemble Streamflow Predictions," *ASCE Journal of Water Resources Planning and Management*, Vol. 137(1): 72-82.
5. Polebitski, A.S., Palmer, R.N., and Waddell, P. (2011). "Evaluating Water Demands Incorporating Climate Change and Transitions in the Urban Environment," *ASCE Journal of Water Resources Planning and Management*, Vol. 137(2):249-257
6. Traynham, L., R. N. Palmer, and A. S. Polebitski (2011). "Impacts of Future Climate Conditions and Forecasted Population Growth on Water Supply Systems in the Puget Sound Region." *ASCE Journal of Water Resources Planning and Management*, Vol. 137(4): 318-326
7. Vano, J.A., Voisin, N., Cuo, L., Hamlet, A.F., McGuire Elsner, M., Palmer, R.N., Polebitski, A.S., and D.P. Lettenmaier (2010) "Climate change impacts on water management in the Puget Sound region, Washington, USA." *Climatic Change*. 102:261–286.
8. Polebitski, A.S., and R.N. Palmer (2010). "Seasonal Seasonal Residential Water Demand Forecasting for Census Tracts." *J. Water Resour. Plng. and Mgmt.* 136(1) 27-36.
9. Thompson, P.L. and A.S. Polebitski (2010). "Effect of Mycorrhizal Fungi on the Phytoremediation of Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)." *Environ Sci Technol.* 44(3):1112-1115

Abstract and Non-Refereed Conference Proceedings

1. Palmer, R.N., A.S. Polebitski (2007). Planning for the Impacts of Climate Change on Municipal Water Supplies, *UCOWR/NIWR Annual Conference*
2. Polebitski, A.S., and R.N. Palmer (2008). Using GIS to Better Model and Identify Urban Water Use Patterns, *AWRA Specialty Conference - GIS and Water Resources V*
3. Polebitski, A.S., Alemu, E.T., Palmer, R.N., and B. Meaker (2009). A Decision Support System for Optimizing Reservoir Operations Using Ensemble Streamflow Predictions (ESP), *AWRA Annual Water Resources Conference*
4. Palmer, R.N., Polebitski, A.S., Ahlfeld, D., and C. Brown (2009). Managing Water in the Connecticut River Watershed, *AWRA Annual Water Resources Conference*
5. Adamec, K., Palmer, R.N., Polebitski, A.S., Ahlfeld, D., Steinschneider, S., Pitta, B., and C. Brown (2010). Evaluation of Climate Change Impacts to Reservoir Operations within the Connecticut River Basin, *ASCE Proceedings of the World Environmental and Water Resources Congress 2010*
6. Pitta, B., Palmer, R.N., Adamec, K., Polebitski, A.S., and S. Steinschneider (2010). Optimizing Reservoir Operations in the Connecticut River Basin, *ASCE Proceedings of the World Environmental and Water Resources Congress 2010*
7. Polebitski A.S. and R.N. Palmer (2010). Impacts of Climate Change and Growth on Water Demands in the Puget Sound Region, *ASCE Proceedings of the World Environmental and Water Resources Congress 2010*
8. Adamec, K., Ahlfeld, D., Palmer, R.N, and Polebitski, A.S. (2011). Comparison of a Daily and Sub-Daily Optimization Model for Hydropower Generation: Does Greater Resolution Result in Greater Operational Insight? *ASCE Proceedings of the World Environmental and Water Resources Congress 2011*
9. Polebitski, A.S., Steinschneider, S., Palmer, R.N., Brown, C., and Ahlfeld, D. (2011) Climate Change Response of Three Physically Based Hydrology Models in the Connecticut River Watershed *ASCE Proceedings of the World Environmental and Water Resources Congress 2011*

Project reports (reports to sponsors)

1. Palmer, R.N., M.W. Wiley, A. Polebitski, B. Enfield, K. King, C. O'Neill, and L. Traynham. 2006. *Climate Change Building Blocks*. A report prepared by the Climate Change Technical Subcommittee of the Regional Water Supply Planning Process, Seattle, WA.
2. Polebitski, A.S. and R.N. Palmer, 2007. *Literature Review of Potential Impacts of Climate Change on Precipitation Intensity*, Prepared for King County Department of Natural Resources and Parks, Department of Civil Engineering, University of Washington.
3. Polebitski, A.S. and R.N. Palmer, 2007. *Trends in Precipitation – Puget Sound, Washington*, Prepared for King County Department of Natural Resources and Parks, Department of Civil Engineering, University of Washington.
4. Alexander, D., R.N. Palmer, and A. Polebitski. 2007. *Technical Memorandum #1: Literature Review of Research Incorporating Climate Change into Water Resources Planning*. A report prepared by the Climate Change Technical Subcommittee of the Regional Water Supply Planning Process, Seattle, WA.

5. Polebitski, A., M.W. Wiley, and R.N. Palmer. 2007. *Technical Memorandum #2: Methodology for Downscaling Meteorological Data for Evaluating Climate Change*. A report prepared by the Climate Change Technical Subcommittee of the Regional Water Supply Planning Process, Seattle, WA.
6. Polebitski, A., L. Traynham, and R.N. Palmer. 2007. *Technical Memorandum #4: Approach for Developing Climate Impacted Meteorological Data and its Quality Assurance/Quality Control*. A report prepared by the Climate Change Technical Subcommittee of the Regional Water Supply Planning Process, Seattle, WA.
7. Polebitski, A., L. Traynham, and R.N. Palmer. 2007. *Technical Memorandum #5: Approach for Developing Climate Impacted Streamflow Data and its Quality Assurance/Quality Control*. A report prepared by the Climate Change Technical Subcommittee of the Regional Water Supply Planning Process, Seattle, WA.
8. Traynham, L., Palmer, R.N., and A.S. Polebitski 2009. *Impacts of Future Climate Conditions and Forecasted Population Growth on Water Supply Systems in the Puget Sound Region*. Prepared for King County Department of Natural Resources and Parks, Department of Civil Engineering, University of Massachusetts, Amherst, Massachusetts.
9. Polebitski, A.S., and R.N. Palmer 2009. *Forecasting Water Demands and Wastewater Baseflows for the Puget Sound Regional Council Planning Region*, Prepared for King County Department of Natural Resources and Parks, Department of Civil Engineering, University of Massachusetts, Amherst, Massachusetts.
10. Polebitski, A.S. and Palmer, R.N., 2009, *Impacts of Future Climate Conditions and Population Growth on the Proposed Lake Tapps System*, Prepared for King County Department of Natural Resources and Parks, Department of Civil Engineering, University of Massachusetts, Amherst, Massachusetts.
11. Vano, J.A., N. Voisin, L. Cuo, A.F. Hamlet, M.M. Elsner, R.N. Palmer, A. Polebitski, and D.P. Lettenmaier. 2009. Climate change impacts on water management in the Puget Sound region, Washington, USA. Chapter 3.2 in *The Washington Climate Change Impacts Assessment: Evaluating Washington's Future in a Changing Climate*, Climate Impacts Group, University of Washington, Seattle, Washington.

Presentations Given at Conferences

1. Polebitski, A.S., and Palmer R.N., Regional Climate Change Water Supply Planning Tools for Central Puget Sound, Climate Impact Groups Fall Forecast Workshop, Olympia WA 2007
2. Polebitski, A.S. and R.N. Palmer (2008), Regional Climate Change Water Supply Planning Tools for Central Puget Sound, *AWWA-PNWS Annual Conference*
3. Polebitski, A.S., and R.N. Palmer (2008). Using GIS to Better Model and Identify Urban Water Use Patterns, *AWRA Specialty Conference - GIS and Water Resources V*
4. Polebitski, A.S., Alemu, E.T., Palmer, R.N., and B. Meaker (2009). A Decision Support System for Optimizing Reservoir Operations Using Ensemble Streamflow Predictions (ESP), *AWRA Annual Water Resources Conference*
5. Polebitski A.S. and R.N. Palmer (2010). Impacts of Climate Change and Growth on Water Demands in the Puget Sound Region, *ASCE Proceedings of the World Environmental and Water Resources Congress 2010*
6. Polebitski, A.S., Palmer, R.N., and Lutz K. (2011). Developing a Shared Vision Decision Support System for the Connecticut River Basin, *AWRA Summer Specialty Conference 2011*