DESIREE D. TULLOS

Assistant Professor, Department of Biological and Ecological Engineering, Oregon State University
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A. Professional Preparation

University of Tennessee, Knoxville, TN	Civil Engineering	B.S., 2000
North Carolina State University, Raleigh, NC	Civil Engineering	MC.E., 2002
North Carolina State University, Raleigh, NC	Biological Engineering	Ph.D., 2005

B. Appointments

Assistant Professor Oregon State University, September 2005 - present
Teaching/Research Assistant North Carolina State University, 2000 - 2005
Engineering Consultant, Blue Land Water Infrastructure, 2002
Engineering Consultant, Barge, Waggoner, Sumner, and Cannon, Inc., 1998 - 1999

C. Publications

Tullos, D.and M. Neumann. 2006. A Qualitative Model for Characterizing Effects of Anthropogenic Activities on Benthic Communities. *Ecological Modeling* 196: 209-220.

Tullos, D. 2006. River restoration in China: a review of local efforts to improve the quality of lotic life. *Ecological Restoration* 24: 165-172.

Brown, P, Tullos, D. B. Tilt, A. Wolf, D. Magee. 2008. Development of an Interdisciplinary Approach to Dam Evaluation: IDAM Tool. *Journal of Environmental Management* (in press).

Tullos, D., Penrose, D., Jennings, G., and Cope, G. 2009. Analysis of Functional Traits in Reconfigured Channels: Implications for the Bioassessment and Disturbance of River Restoration. *JNABS* 28(1).

Tullos, D. 2008. Assessing the influence of environmental impact assessments on science and policy: An analysis of the Three Gorges Project. *Journal of Environmental Management* (in press)

Tullos, D., Tilt, B., and Reidy, C. 2008. Understanding and Linking the Biophysical, Socioeconomic and Geopolitical Effects of Dams. Journal of Environmental Management (in press)

Tullos, D., D. Penrose, and G. Jennings. 2006. Development and Application of a Bioindicator for Benthic Habitat Enhancement in the North Carolina Piedmont. *Ecological Engineering* 27: 228-241.

D. Synergistic Activities

- Director, Summer Institute in EcoInformatics to provide late undergraduate and early graduate students with research and education experience in EcoInformatics.
- Faculty participant, Ecosystem Informatics IGERT to integrate graduate research in bioengineering, computer science, fisheries and wildlife, forest science, geosciences, and mathematics.
- Member MONET network of Excellence in Artificial Intelligence. – Awarded travel scholarships to present research, continuing those international collaborations with ecologists and computer scientists through publication and proposal developments.
- Over 20 talks at international conferences since 2003, including Greece, Germany, Canada, Bulgaria, and China.
- Instructor - BEE5446/546 – River Engineering; BEE448/548 – NonPoint Source Pollution Assessment and Control, BEE 102 – Ecological Engineering, BEE 599 – Field Methods in Environmental Monitoring
- Peer Reviewer – Ecological Restoration (2006), Environmental Biology of Fishes (2006), Ecological Engineering (2006, 2007), Environmental Management (2006, 2007, 2008), Chinese Academy of Sciences (2005, 2006), Ecological Applications (2007), Journal of the Water

Resources Association (2007), National Science Foundation (2006, 2007, 2008), USGS (2006), California Water Quality Control Board - TMDL (2007, 2009).

- Total Career Advising: 5 MS students, 3PhD students

E. Previous Funding Success

- PI – Interdisciplinary Research and Methods for Assessing Dams as Agents of Change in China. National Science Foundation ($494,967) 2008-2011
- PI – Monitoring of the Brownsville Dam Removal. Oregon Watershed Enhancement Board ($308,410) 2007-2010
- PI - PI - Effects of sediment barrier removal on geomorphic complexity and habitat diversity. USGS Small Grants Program ($22,070). 2008-2009.
- PI – Monitoring of the Brownsville Dam Removal. Calapooia Watershed Council ($10,900) 2007
- PI - Monitoring of the Brownsville Dam Removal. NOAA ($137,655) 2007-2009
- PI - Santiam Basin Fish Passage Project South and North Santiam Watershed Councils ($37,000) 2007-2008.
- PI - Phosphorus dynamics of wetland management around Upper Klamath and
- Agency Lakes, OR. U.S. Fish and Wildlife Service (FWS) and Klamath Basin Ecosystem Restoration Office (ERO) ($58,594), 2007-2008.
- PI - Evaluating the phosphorus dynamics in response to restoring historic hydrology at reclaimed wetlands along Upper Klamath Lake, OR. USGS Small Grants Program ($46,520), 2006-2007
- PI - Summer Institute in EcoInformatics. National Institute for Health/National Science Foundation ($581,291) 2006 – 2011
- PI – Socio-Ecological Effects of Dams in China. National Science Foundation ($124,746) 2006-2007
- Co-PI – Building SWAMPS in Oregon Coastal Communities. Cooperative Institute for Coastal & Estuarine Environmental Technology ($199,139) 2007-2008
- Co-PI – How Does Oregon's State Land Use Planning System Affect Rural Sustainability? Collaborative, Multidisciplinary Learning in the Klamath Basin. Sustainable Rural Communities Initiative ($6,000) 2006
- Co-PI - Beyond Dollars and Acre Feet: Assessing the Social Sustainability of Emerging Environmental Governance Structures and Restoration Efforts on "Off-Project" Irrigated Lands in the Upper Klamath Basin. USGS-IWW, ($30,000) 2007-2008.
- PI – River restoration in China. National Science Foundation ($3,000) 2005