



David L. Smith, Ph.D.

Research Ecologist
CEERD-EP-W

David.L.Smith@usace.army.mil

Education

- B.S., Washington State University, Pullman WA, 1990, Environmental Science
- M.S., Washington State University, Pullman WA, 1996 Environmental Science
- Ph.D., Natural Resources, University of Idaho, Moscow, ID, 2003
- Post-doc, Civil Engineering, University of Idaho, Moscow, ID 2004

Professional Experience

- March 2006 – present: Research Ecologist, Environmental Laboratory, U.S. Army Engineer Research and Development Center, Vicksburg, MS
- June 2004 –March 2006: Senior Scientist Hydrobiology and Ecohydraulics, Cramer Fish Sciences, Portland, OR
- June 2003-June 2004: Postdoctoral fellow, Department of Civil Engineering, University of Idaho, Moscow, Idaho
- August 1997 – May 2003: Research Assistant, Aquaculture Research Institute, University of Idaho, Moscow, Idaho.
- February 1996-August 1997: Senior Field Engineer, Bechtel Hanford Company, Richland, WA
- July 1994 – February 1996: Advanced Field Engineer, IT Hanford Company, Richland, WA
- February 1991-July 1994: Advanced Project Engineer, Westinghouse Hanford Company, Richland, WA

Research Interests

- Fish movement modeling in rivers
- Computational fluid dynamic and water quality models
- Fish passage
- Linking biological models across scales of organization

Professional Memberships

- Editorial Advisory Board for Remediation Management. March 1996 to March 1998
- American Fisheries Society Bioengineering Section April 2002 to present,
- Aquacultural Engineering Society 2003-present

Additional

- Peer review: Journal of Hydraulic Engineering, Transactions of the American Fisheries Society, Canadian Journal of Zoology, River Research and Applications, North American Journal of Fisheries Management, Aquacultural Engineering, and National Science Foundation proposal review
- Awards: 2010: US Army Engineer Research and Development Center Research and Development Award, Stream Habitat Assessment Package; 2009: US Army Engineer Research and Development Center Research and Development Award, Computational Mesh Conversion; 2009: US Army Engineer Research and Development Center Achievement Award, Water Quality Modeling; 2008: US Army Engineer Research and Development Center Commanders Award for Civilian Service, Water Quality Modeling, 2007: Performance Award, US Army Engineer Research and Development Center; 2006 Carl V. Anderson Award of Merit, Association of Conservation Engineers, team member of Tetra Tech/KCM Inc for design guidance on the Oregon Falls Creek Hatchery Research Center, 2006: Outstanding Service Award: S.P. Cramer and Associates; 2002: Best student paper: Hatchery Reform: the Science and the Practice, Symposium of the 5th International Congress on the Biology of Fish, Vancouver, BC July 21-26.; 1997: Youngest Grade 27 Senior Field Engineer in Bechtel Inc