

## **S. Kyle McKay**

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### EDUCATION

- B.S. Environmental Engineering, Colorado State University, 2005
- M.S. Hydraulic Engineering, University of Illinois Urbana-Champaign, 2007
- Ph.D. Ecology, University of Georgia, Ongoing

### PROFESSIONAL EXPERIENCE

- Research Civil Engineer – U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, Mississippi – 2007-Present
- Graduate Research Assistant – University of Illinois Department of Civil Engineering, Ven te Chow Hydrosystems Laboratory, Urbana, Illinois – 2005-2007
- Technician – Colorado State University, Hydraulics Lab, Fort Collins, Colorado, 2001-2005

### HONORS

- U.S. Army Corps of Engineers, New Faces of Engineering, 2009
- U.S. Principal Representative to the International Navigation Association (PIANC) Inland Navigation Commission (InCOM) Working Group 128 “Alternative Bank Protection Methods for Inland Waterways”, 2008 – 2010
- Environmental Engineer of the Year, Colorado State University, 2005

### PROFESSIONAL MEMBERSHIPS

- American Society of Civil Engineers (ASCE), 2003 – Present
- Tau Beta Pi Engineering Honors Society, Inducted 2004
- American Water Resources Association (AWRA) – 2006 – Present
- American Ecological Engineering Society – 2007 – Present
- International Navigation Association (PIANC), 2008 – Present

### PROFESSIONAL INTERESTS

- Ecological Engineering
- Ecosystem Restoration
- Environmental Benefits Analysis
- Development of practical engineering design tools

## REPRESENTATIVE PUBLICATIONS

Parker, G., O. Sequeiros, and River Morphodynamics Class Spring, 2006. 2006. Large Scale River Morphodynamics: Application to the Mississippi Delta. Proceedings River Flow 2006 Conference, Lisbon, Portugal, September 6-8, 2006, Balkema.

McKay, S.K., B.A. Pruitt, and A.P. Covich. 2009. Monitoring Ecosystem Integrity. 2009 Georgia Water Resources Conference, Athens, Georgia.

Goreham, J., M. Stone, K. Acharya, S.K. McKay, and J.C. Fischenich. 2009. Riparian Vegetation Bending and Washout. 33rd IAHR Congress, Vancouver, Canada. Accepted.

Fischenich, J.C. and S.K. McKay. Similitude Limitations of Reference Approaches to Stream Restoration Design. Submitted to *ASCE Journal of Hydraulic Engineering*.

McKay, S.K. and J.C. Fischenich. 2009. Robust Prediction of Hydraulic Roughness. ERDC TN. U.S. Army Engineer Research and Development Center, Vicksburg, Mississippi.

McKay, S.K. 2009. Avoiding Spreadsheet Errors. ERDC TN-EMRRP-EBA. U.S. Army Engineer Research and Development Center, Vicksburg, Mississippi.

Burks-Copes, K., L.L. Skaggs, and S.K. McKay. 2009. Normalizing Ecosystem Restoration Benefits for Project Comparison. ERDC TN-EMRRP-EBA. U.S. Army Engineer Research and Development Center, Vicksburg, Mississippi.

Covich, A.P., S.K. McKay, M.A. Kenney, B.A. Pruitt, M. Harberg, J.C. Fischenich, and J.J. Boland. Enhancing Ecosystem Integrity with Effective Objectives and Metrics for Restoration. Held for special issue of *Ecological Restoration*.

McKay, S.K., J.C. Fischenich, and J. Smith. Quantifying Benefits of Flow Diversion to Coastal Marshes I: Theory. In preparation for submission to *Ecological Engineering*.

McKay, S.K., J.C. Fischenich, and R. Paille. Quantifying Benefits of Flow Diversion to Coastal Marshes II: Application to Louisiana Coastal Protection and Restoration (LACPR). In preparation for submission to *Ecological Engineering*.

McKay, S.K., M. Stone, K. Acharya, J. Goreham, and J.C. Fischenich. Riparian Vegetation Washout in Arid Streams. In preparation for submission to *Ecological Engineering*.

McKay, S.K., J.N. Conyngham, and J.C. Fischenich. Cumulative Effects of Fish Passage Restoration: Truckee River. In preparation for submission to *Environmental Management*.