



Name: Jacqueline McComb, Ph.D.

Title: Director of Mississippi River Research Center / Assistant Professor of Environmental Science

Email: jmccomb@alcorn.edu

Phone: 601-877-3368/3369

Fax: 601-877-6219

Office: Ecology and Natural Resource Building, Manager 208

Area of Research: Environmental Chemistry, Biogeochemical Cycling, Environmental Quality

Course/s Taught: Concepts of Environmental Science, Environmental Ecology, Soil Chemistry

Appointment (s):

Director of Mississippi River Research Center /Assistant Professor of Environmental Science – Alcorn State University University, Lorman, MS — Currently Employed

Earth Science Instructor- McKendree University, Lebanon, IL —8/2017- 12/2017

Adjunct Earth Science Instructor- Southwestern Illinois College, Belleville, IL —1/2017- 5/2017

Reviewer for the Journal of Bioremediation & Biodegradation, 09/2016 – 01/2017

Environmental Specialist Environmental Historic Preservation - Federal Emergency Management Agency (FEMA) Ridgeland, MS — 05/2016 – 08/16

Ph.D. Researcher, Jackson State University, Jackson, MS — 08/2011 - 04/2016

Northeast Alliance Fellow, University of Connecticut (Center for Environmental Sciences and Engineering) Storrs, CT — 05/2011 -07/2011

Louis Stokes Alliances for Minority Participation Fellow (LS-AMP), Jackson State University, Jackson, MS — 08/2009-05/2011

Gulf Coast Research Lab (GCRL) Student Researcher, University of Southern Mississippi Ocean Springs, MS — 06/2010-08/2010

Horticulture Research Intern, Missouri Botanical Garden St. Louis, MO — 05/2009 – 08/2009

Undergraduate Researcher, Alcorn State University, Dr. Patrick Igbokwe, Natural Products Laboratory Alcorn State University — 06/2007-08/2009

George Washington Carver Fellow, University of Arkansas (College of Agricultural, Food, and Life Sciences) Fayetteville, AR — 05/2008-07/2008

Soil Conservationist, Natural Resource Conservation Service (NRCS) Philadelphia , OH — 05/2006 – 08/2006

Publications:

Alexander T., **McComb J.Q.**, (2018). *Crassostrea virginica* of the Grand Bay National Estuarine Reserve as a Revisited Bioindicator of Trace Elements in the Northern Gulf of Mexico under Modern Civilization

McComb, J & Kibet, L. (2018). Monitoring soil phosphorus transport in watersheds: Exploring the use of portable X-ray fluorescence.

Alexander T., **McComb J.Q.**, Han F.X., Arslan Z. (2017) *Crassostrea virginica* of the Grand Bay National Estuarine Reserve as a Revisited Bioindicator of Trace Elements in the Northern Gulf of Mexico under Modern civilization. **Bulletin of Environmental Contamination and Toxicology**

Mao, X., Han, F.X., Shao, X., **McComb., J.** (2017) Effects of Operation Variables and Electrokinetic Field on Soil Washing of Arsenic and Cesium with Potassium Phosphate. **Water Air Soil Pollution**.

McComb J.Q. (2015) Coastal Wetlands and their Role in Human Health. *In Advances in Environmental Research* (pp 1-31). Huntington, NY: **Nova Science Publishers**.

McComb, J. Q., Han, F. X., Rogers, C., Thomas, C., Arslan, Z., Ardeshir, A., & Tchounwou, P. B. (2015). Trace elements and heavy metals in the Grand Bay National Estuarine Reserve in the northern Gulf of Mexico. **Marine pollution bulletin**.

Xinyu Mao, MSc; Xiaohou Shao, Ph.D.; Kai Guo , MSc; **Jacqueline McComb**, MSc; Zikri Arslan, Ph.D.; Zhanyu Zhang, PhD. (2016). Electro-kinetic remediation coupled with phytoremediation to remove lead, arsenic and cesium from contaminated paddy soil. **Ecotoxicology and Environmental Safety**, 125:16-24

Lawson, L. S., **McComb, J. Q.**, Dong, R., Han, F. X., Roger, C., Arslan, Z., & Yu, H. (2015). Binding, fractionation, and distribution of Cs, Co, and Sr in a US coastal soil under saturated and field capacity moisture regimes. **Journal of Soils and Sediments**

Guo, K., Han, F., Arslan, Z., McComb, J., Mao, X., Zhang, R., & Yu, H. (2015). Adsorption of Cs from Water on Surface-Modified MCM-41 Mesosilicate. *Water, Air, & Soil Pollution*, 226(9), 1-9.

McComb, J. Q., Rogers, C., Han, F. X., & Tchounwou, P. B. (2014). Rapid screening of heavy metals and trace elements in environmental samples using portable X-ray fluorescence spectrometer, A comparative study. **Water, Air, & Soil Pollution**, 225(12), 1-10.

McComb, J., Alexander, T. C., Han, F. X., & Tchounwou, P. B. (2014). Understanding Biogeochemical cycling of trace elements and heavy metals in estuarine ecosystems. **Journal of bioremediation & biodegradation**, 5.

McComb, J., Hentz, S., Miller, G. S., & Begonia, M. (2012). Effects of Lead on Plant Growth, Lead Accumulation and Phytochelatin Contents of Hydroponically-Grown *Sesbania Exaltata*. **World Environment**, 2(3), 38-43.

Hentz, S., **McComb, J.**, Miller, G., Begonia, M., & Begonia, G. (2012). Cadmium uptake, growth and phytochelatin contents of *Triticum aestivum* in response to various concentrations of cadmium. **World Environment**, 2(3), 44-50.