

## Reid Bishop

Associate Professor of Chemistry and Division Chair of Natural Sciences

B.S., Mississippi College

Ph.D. University of Mississippi Medical Center, Department of Biochemistry

Post-Doctoral Experiences: Emory University, Department of Physics and Biophysics; University of Georgia, Department of Medical Microbiology.

### Books

"Unsung River: The Lower Mississippi River Natural Heritage Corridor, A Review of Its Assets and Opportunities for Development." National Audubon Society, New York, NY. 2011.

"Atlas of Immunology"(Illustrator), CRC Press, Boca Raton, FL.,2002

"Illustrated Dictionary of Immunology" (2nd Edition), (Illustrator) CRC Press, Boca Raton, FL., 2000

"Illustrated Dictionary of Immunology", (Illustrator) CRC Press, Boca Raton, FL., 1995

### Academic Articles

Molecules, "Structural and thermodynamic diversity of nucleic acid aptamers.", 2014 (submitted for review).

Polymer Chemistry, "Block ionomer complexes consisting of siRNA and aRAFT-synthesized hydrophilic-block-cationic copolymers: The influence of cationic block length on gene suppression", 2014

Audubon Reports"Nature Tourism in the Lower Mississippi River Alluvial Valley.",2012

Virus Research, "Characterization of Durham virus, a novel rhabdovirus that encodes both a C and SH protein.", 2011

Audubon Magazine Reports, "Oil and Birds: Too Close for Comfort.", 2010

### Professional Leadership

Member ACS LCAS committee (2013-Present)

Director, Lower Mississippi River Institute, SENCER Southwest (2012-present)

Councilor, Mississippi Section of the American Chemical Society, (2012-Present)

National ACS Board Member (2010-Present)

Board Member Southwest Region NSF-SENCER (Science Education for New Civic Engagements and Responsibilities), Texas Women's University, Denton, TX.

Alternate Councilor of the Mississippi Section of the American Chemical Society (2009-2012)

### Professional Presentations

2013, Lower Mississippi River Resource Assesment (LMRRA) Conference, Memphis, TN, "Building a partnership between a private college and a government conservation agency."

2011, 74th Annual Meeting of the Rural Sociological Society and Community Development Society International Conference, Boise, ID, "Partners' Perspectives on an Environmental Education Project,"

2010, 73rd Annual Meeting of the Rural Sociological Society, Atlanta, GA, "Connecting People and Protected Areas through Environmental Education,"

2010, Gather at the River Conference, Memphis, TN, "Encouraging Conservation Action in Mississippi River Communities Through Cooperative Environmental Education";

**Academic Awards**

HEADWAE Award (2013 Outstanding Honoree

**Other**

Folding and binding thermodynamics of DNA/RNA aptamers

Natural product chemistry of pharmacologically active essential oils

Monitoring the chemical and biological diversity of aquatic systems in the Mississippi Alluvial Valley

Development of green chemistry teaching laboratories

Thermodynamics of water soluble polymer drug delivery systems