

Brian T. Koch
Southern Illinois University at Carbondale
Life Science II, Room 173
Carbondale, IL 62901-6511
(618) 453-7958
bkoch@siu.edu

Education

Master of Science, Zoology, Southern Illinois University at Carbondale,
Carbondale, IL, projected fall of 2004

Bachelor of Arts, Zoology, Southern Illinois University at Carbondale,
Carbondale, IL, December 2001

Professional Profile

Field Experience

Graduate Research Assistant, Southern Illinois University at Carbondale,
2002-present

- Funded by pallid sturgeon demography grant, U.S. Army Corps of Engineers, St. Louis District
- Sample pallid and shovelnose sturgeon throughout the middle Mississippi River with active and passive gear, including gill nets, trotlines, trawls and trammel nets
- Assisted in determining transmitter specifications and surgery methods for the federally endangered pallid sturgeon, implant ultrasonic tags internally via surgery
- Track pallid and shovelnose sturgeon movements year-round
- Assist research projects on the Wabash, Ohio, and middle Mississippi Rivers

Undergraduate Student Worker, Southern Illinois University at Carbondale,
2000-2001

- Assisted multiple projects: Hybrid-striped bass, crappie, bluegill, and hybrid sunfish aquaculture studies; muskellunge gynogenesis study; pallid sturgeon tracking study; shovelnose sturgeon age and mortality study

Fish Culturist, Logan Hollow Fish Farm, Gorham, IL, 2000

- Common tasks included culturing, feeding, seining, and delivery of sport and food fish

Assistant Lake Manager, Woodhaven Lakes, Sublette, IL, 1997-1999

- Held nature workshops, controlled lake vegetation, assisted in fish stocking and sampling, gained experience in electrofishing and fyke netting, Volunteer Lake Monitoring Program participant

Laboratory Experience

Graduate Research Assistant, Southern Illinois University at Carbondale,
2002-present

- Began thesis work on endocrine disrupters in Middle Mississippi River shovelnose sturgeon in the summer of 2003
- Currently extracting and analyzing tissues with unique methods allowing for simultaneous determination of PCBs, organochlorine and organophosphate pesticides in high lipid fish tissues
- Knowledge of analytical procedures, including use of HPLC and GC-NPD/ECD

Manuscripts

Koch, B.T. and J.E. Garvey. Life-history strategies among fishes and consequential bioaccumulation of lipophilic contaminants. 11 pgs. Plan to submit to Fisheries fall 2004

Oral Presentations and Posters

Koch, B.T., M.J. Lydy, and J.E. Garvey. Organochlorines: intersexuality and reproductive effects on Middle Mississippi River shovelnose sturgeon. Meeting of the Illinois Chapter of the American Fisheries Society, Champaign, IL, March 2004 (Oral presentation)

Koch, B.T., M.J. Lydy, and J.E. Garvey. Organochlorine accumulation in Middle Mississippi River shovelnose sturgeon: intersexuality and reproductive consequences. American Fisheries Society Annual Meeting, Madison, Wisconsin, August 2004 (Oral presentation)

Koch, B.T., M.J. Lydy, and J.E. Garvey. Organochlorine accumulation and intersexuality in Middle Mississippi River shovelnose sturgeon. SETAC World Conference, Portland, Oregon, November 2004 (Poster presentation)

Professional Affiliations

American Fisheries Society (AFS) – Illinois Chapter, 2003-
SIUC subunit of AFS, 2000-
Society of Environmental Toxicology and Chemistry (SETAC), 2004-
IDNR certified instructor, 2001-