

# Mark A. Pegg

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## EDUCATION

- Ph.D. Fisheries Biology, Iowa State University  
August 2000  
Dissertation Title: Hydrological Variation along the Missouri River and its Effect on the Fish Community.
- M.S. Biology, Tennessee Technological University  
May 1994  
Thesis title: Angler Exploitation and Movements of Sauger in the Lower Tennessee River.
- B.S. Fisheries and Wildlife Biology, Iowa State University (With Distinction)  
May 1992

## PROFESSIONAL APPOINTMENTS

- |                |   |
|----------------|---|
| 2013 - present | Professor, School of Natural Resources, University of Nebraska  |
| 2008 - 2013    | Associate Professor, School of Natural Resources, University of Nebraska  |
| 2005 - 2008    | Assistant Professor, School of Natural Resources, University of Nebraska  |
| 2007 - 2012    | Adjunct Assistant Professor, South Dakota State University  |
| 2005 - pres.   | Fellow, Center for Great Plains Studies   |
| 2005 - pres.   | Adjunct, Illinois Natural History Survey, Center for Aquatic Ecology  |
| 2000 - 2005    | Assistant Professional Scientist, Illinois Natural History Survey   |
| 2000 - 2005    | Director, Illinois River Biological Station   |
| 2004 - 2005    | Director, Forbes Biological Station   |
| 2001 - pres.   | Adjunct Professor, Department of Natural Resources and Environmental Sciences, University of Illinois at Urbana-Champaign |
| 2001 - 2005    | Adjunct Faculty, Department of Biological Sciences, Western Illinois University   |
| 1995 - 2000    | Graduate Research Assistant, Iowa State University  |
| 1994 - 1995    | Senior Fishery Biologist, Kentucky Department of Fish and Wildlife  |
| 1994           | Research Associate, Tennessee Technological University  |
| 1992 - 1994    | Graduate Research Assistant, Tennessee Technological University   |

## **PUBLICATIONS (PEER-REVIEWED)** *Italics indicate student co-authors*

- Kraus, R.T., C.M. Holbrook, C.S. Vandergroot, T.R. Stewart, M.D. Faust, D. Watkinson, C. Charles, M. **Pegg**, E. Enders, and C.C. Krueger. In review. Evaluation of acoustic telemetry grids for determining aquatic animal movement and survival. Submitted to *Methods in Ecology and Evolution*.
- Spurgeon, J.J., M.A. **Pegg**, P. Parasiewicz, J. Rogers. In Review. In-stream flow protection using fish guild and flow-habitat relationships. Submitted to *Journal of Ecohydraulics*.
- Goto, D., M. Hamel, *J. Hammen*, M. Rugg, M. **Pegg**, and V. Forbes. Accepted. Projected risks to shovelnose sturgeon population persistence in a warmer future. *Marine and Freshwater Research*.
- Hammen*, J.J., M.J. Hamel, M. Rugg, and M.A. **Pegg**. Accepted. Population characteristics of Shovelnose Sturgeon during low- and high-water conditions in the lower Platte River, Nebraska. Submitted to *North American Journal of Fisheries Management*.
- Hammen*, J.J., M.J. Hamel, M. Rugg, and M.A. **Pegg**. In review. Habitat associations of Shovelnose Sturgeon (Rafinesque, 1820) in the lower Platte River, Nebraska. Submitted to *Journal of Applied Ichthyology*.
- Spurgeon*, J.J., M.A. **Pegg**, and N. Halden. Accepted. Mixed-origins of channel catfish in a large-river tributary. *Fisheries Research*.
- Blank*, A.J., *J.J. Spurgeon*, M.J. Hamel, and M.A. **Pegg**. 2017. Assessment of a channel catfish population in a large open river system. *Fisheries Management and Ecology* 24:460-468.
- Spurgeon*, J.J., M.A. **Pegg**, M.J. Hamel, and K.D. Steffensen. Accepted. Spatial structure of large-river fish populations: implications for the role of tributaries in main-stem recovery. *River Research and Applications*.
- Steffensen, K.D., M.A. **Pegg**, and L.A. Powell. Accepted. Using the robust design framework and relative abundance to predict population size of pallid sturgeon (*Scaphirhynchus albus*) in the lower Missouri River. *Journal of Fish Biology*.
- Adams, J.D., C.L. Bergthold, J.D. Haas, M.A. **Pegg**, and G.E. Mestl. 2017. Blue sucker summer utilization distributions and inter-annual fidelity to summering habitats. *Transactions of the Nebraska Academy of Sciences* 37:18-27.
- Pope, K.L., L.A. Powell, B.S. *Harmon*, M.A. **Pegg**, and C.J. Chizinski. 2017. Estimating the number of recreational anglers for a given waterbody. *Fisheries Research* 191:69-75.
- Siddons*, S.F., Klein, G., N.P. Hogberg, and M.A. Pegg. 2017. Borders and Barriers: Challenges of Fisheries Management and Conservation in Open Systems. *River Research and Applications* DOI: 10.1002/rra.3118.
- Spurgeon*, J.J., and M.A. **Pegg**. 2017. Fish growth and river flows: response of a non-fluvial specialist and applicability of current river production models. *Freshwater Biology* 62:291-302.
- 94 peer-reviewed papers in print prior to 2017.

## **CURRENT/PENDING GRANTS**

Principal or Co-Principal Investigator:

Management of Blue Catfish in the Kansas River, Kansas. Kansas Department of

- Wildlife, Parks, and Tourism. 2018-2020 (pending \$206,000 – Co PI with M. Hamel).
- Assessing the Status and Population Dynamics of Asian Carp in the Kansas River. Kansas Department of Wildlife, Parks, and Tourism. 2018-202 (pending \$200,000 – Co PI with M. Hamel).
- Improving Water Quality and Fish Health in the Platte River and Tributaries. Nebraska Environmental Trust. 2018-2021 (pending \$442,781 – Co PI with Samodha Fernando).
- Continuation: Biological monitoring of restored chutes and effectiveness in offsetting adverse effects from levee construction at the Camp Ashland Training Site for the Nebraska Army National Guard (NEARNG) Environmental Branch. Nebraska Army National Guard Environmental Branch. 2017-2020 (\$175,776 - Co-PI with M. Hamel).
- Assessing the social-ecological dynamics that contribute to ecosystem health and watershed resource management in Nebraska. Co-PI. ARD Hatch Multistate Research Enhanced Program 2017-2021 (\$255,656).
- Pallid Sturgeon use of tributaries to the Platte River. Nebraska Game and Parks Commission, 2016-2017 (\$21,603).
- Documenting Channel Catfish Movements in the Red River to Assist Cohesive Management. Manitoba Fisheries and Wildlife Enhancement Fund 2017-2019 (\$71,000).
- Restoring Native Mussels to the Plains. Nebraska Game and Parks Commission 2017-2020 (\$133,000).
- Managing food production landscapes for healthy people, animals, and ecosystems. Co-PI. University of Nebraska Research Planning Grant 2016-17 (\$15,000).
- Biological monitoring of restored chutes and effectiveness in offsetting adverse effects from levee construction at the Camp Ashland Training Site for the Nebraska Army National Guard (NEARNG) Environmental Branch. Nebraska Army National Guard Environmental Branch. 2014-2017 (\$196,946 - Co-PI with M. Hamel).
- Missouri River sportfish ecology and management. Nebraska Game and Parks Commission, 2014-2019 (\$1,432,787).

## PRESENTATIONS

- Hauger*, M. (undergraduate presenter), D. Kroeker, K. Pope, and M. **Pegg**. Population dynamics and precision of black crappie age structure in North Cross Lake, Manitoba. Presented at the 77<sup>th</sup> Annual Midwest Fish and Wildlife Conference, February, 2017.
- Turner, D., and M. **Pegg**. Trophic Dynamics of flathead catfish in the lower Missouri River. Presented at the 77<sup>th</sup> Annual Midwest Fish and Wildlife Conference, February, 2017.
- Ruskamp, R., G. Mestl, and M. **Pegg**. Trends in larval fish abundances in the lower Missouri River. Presented at the 77<sup>th</sup> Annual Midwest Fish and Wildlife Conference, February, 2017.
- Uerling, C., M. Hamel, and M. **Pegg**. Fish community response to a restored side-channel

in the lower Platte River. Presented at the 77<sup>th</sup> Annual Midwest Fish and Wildlife Conference, February, 2017.

Spurgeon, J., M. Hamel, and M. Pegg. Origin and movement patterns of channel catfish using otolith microchemistry. Presented at the 77<sup>th</sup> Annual Midwest Fish and Wildlife Conference, February, 2017.

Hamel, M., J. Spurgeon, and M. Pegg. Examination of pallid sturgeon life-history characteristics throughout the Missouri River. Presented at the 77<sup>th</sup> Annual Midwest Fish and Wildlife Conference, February, 2017.

## ACADEMIC EXPERIENCE

### Graduate Students Supervised:

Lindsay Ohlman, University of Nebraska-Lincoln - M.S. (Anticipated 2018)

Henry Hanson, University of Nebraska-Lincoln – MS (anticipated 2018)

Meg Trowbridge, University of Nebraska-Lincoln – MS (anticipated 2018)

Emily Forzono, University of Nebraska-Lincoln - M.S. (Anticipated 2018)  
(Co-Advised with M. Hamel)

Caleb Uerling, University of Nebraska-Lincoln - M.S. (2017)  
(Co-Advised with M. Hamel)

Dylan Turner, University of Nebraska-Lincoln - M.S. (2017)

Ryan Ruskamp, University of Nebraska-Lincoln - M.S. (Anticipated 2018)  
Advised 22 additional graduate students prior to 2016

### Postdoctoral Researchers Supervised:

Jonathan Spurgeon – 2017

Brenda Pracheil - 2013-2014 (now at Oak Ridge National Laboratory)

A. Maria Lemke - 2001 - 2002 (now at The Nature Conservancy)

### Graduate Student Committee Member:

Matthew Hinrichs, University of Nebraska-Lincoln – M.S. (anticipated 2018)

Served on additional 34 graduate committees

### Undergraduate Research Projects Supervised:

Mackenzie Zweiner, University of Nebraska-Lincoln (2017-2018)

McKenzie Hauger, University of Nebraska-Lincoln (2016-2017)

Lauren Southard, University of Nebraska-Lincoln (2016-2017)

### Courses Taught:

#### *University of Nebraska-Lincoln*

Oh My Cod: Exploring Fisheries Research (NRES 163) - every Spring since 2013

Southern Africa Ecology (NRES 315 & 492) - Summers 2007, 2009, 2011, 2013

Field Study - Puerto Rico (NRES 492) - Spring 2008 (w/ Dr. Larkin Powell)

Fisheries Science (NRES 463/863) - every Fall since 2006

Ichthyology (NRES 489/889) - every other Spring 2006 - 2016

Managed Aquatic Systems (NRES 896) - every other Spring (w/ Dr. Kevin Pope)