

Andrew M. Deines-
Research Home

CV

Bio

CV

Blog

Invasivore.org

Tilapia Review

Tilapia
Introductions

Other Projects

Why an Electronic
Lab Notebook?

Attribution

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Education

- 2013 Ph.D. in Biological Sciences, University of Notre Dame.
- 2003 B.S. Environmental Science, eco-toxicology, chemistry minor. Western Washington University, Huxley College.

Publications

- In Review **Deines, A. M.**, Wittmann, M. E., Deines, J. M., & Lodge, D. M. Tradeoffs among ecosystem services associated with global tilapia introductions, In review *Fish and Fisheries*.
- Accepted **Deines, A.M.**, I. Bhole, C. Katongo, J.L. Feder, D.M. Lodge. Hybridization of native *Oreochromis* species (cichlidae) and the introduced Nile tilapia (*O. niloticus*) in the Kafue river, Zambia. In Review, *African Journal of Aquatic Science*.
- In Press Barnes, M.A., **A.M. Deines**, L.E. Grieneisen, and R.M. Hesselink. Adapting to invasions in a changing world: invasive species as an economic resource. In: Lew, Z and J. Dukes (eds). *Invasive Species and Climate Change*. CABI Publishing.
- 2013 **Deines, A.M.**, C.A. Bee, R. Jensen, and D.M. Lodge. The potential tradeoff between artisanal fisheries production and hydroelectricity generation on the Kafue River, Zambia. *Freshwater Biology*. 58(4): 640–654
- 2013 Lodge D.M., **A.M. Deines**, F. Gherardi, D. C. J. Yeo, T. Arcella, A. K. Baldrige, *et al.* Global Introductions of Crayfishes: Evaluating the Impact of Species Invasions on Ecosystem Services. *Annual Reviews in Ecology Evolution and Systematics*. 43:--

- 2005 **Deines, A.M.**; Chen, V. C.; Landis, W. G. 2005. Modeling the Risks of Nonindigenous Species Introductions Using a Patch–Dynamics Approach Incorporating Contaminant Effects as a Disturbance. *Risk Analysis: An International Journal*. 25(6):1637–1651.

Research Grants

- 2011 **Australia Invasive Species CRC**, “Surveillance of Tilapia using Environmental DNA.”
- 2010–2011 **Doctorial Dissertation Enhancement Program (DDEP)**, U.S. National Science Foundation. “Ecological and Evolutionary impacts of Nile tilapia (*Oreochromis niloticus*) on the Kafue River, Zambia.”
- 2009 **Kellogg Institute for International Studies**, “Ecological and Economic Tradeoffs in Ecosystem Services: Exotic Species, Fisheries and Hydropower.”
- 2008 **U.S. National Science Foundation**, “Supplement: IRCEB: Ecological Forecasting and Risk Analysis of Nonindigenous Species.” P.I.: David M. Lodge.
- 2007 **Center for Social Concerns**, University of Notre Dame, “Uganda Supplement to the Assessment of field sites and the state-of-knowledge of the ecological impacts from Nile Tilapia in Zambia, Africa.”

Fellowships

- 2009–2010 **Center for Aquatic Conservation**, University of Notre Dame.
- 2006–2011 **Global Linkages of Biology, the Environment and Society**. Integrative Graduate Education, Research, and Traineeship (IGERT). U.S. National Science Foundation.

Presentations

- Sept 2013 **Deines, AM, DB Bunnell, MW Rogers, TD Beard, Jr., WW Taylor**. Global patterns of inland fisheries and primary production using meta-analysis. American Fisheries Society. September 8–13, Little Rock, AK.
- June 2013 **Deines, AM, MA Barnes, CA Bee, DM Lodge**. A bio-economic framework for harvesting invasive species. International Association of Great Lakes Research (IAGLR). June 2–6, 2013. West Lafayette, Indiana, USA

Aug 2013 **Deines, AM, Bee, CA, Barnes, MA, Lodge, DM**. Influence of fishery effort and

- Aug 2011 **Deines, AM**, Bee, CA, Jensen, R, Lodge DM. Influence of fishery effort and damming on Kafue River, Zambia fishery production. Ecological Society of America Annual Meeting, Austin Texas. Aug 7–12, 2011.
- May 2009 **Deines, AM**, Bee, CA, Jensen, R, Lodge DM. Ecological and Economic Tradeoffs in Ecosystem Services: Exotic Species, Fisheries and Hydropower IGERT Symposium 2009, Washington D.C. Poster.
- Nov 2008 **Deines, AM**, Klco, B, Lodge, DM. Ecological mechanisms and impact of tilapia: review of empirical evidence. Managing Alien Species for Sustainable Development of Aquaculture and Fisheries (MALIAF). Florence, Italy.
- Aug 2008 **Deines, AM**, Lodge, DM, Kolding, K, Ngalande, P. Sustainability of a multispecies fishery in the Kafue River, Zambia. American Fisheries Society Annual Meeting, Ottawa Canada. 2008. Poster.
- Apr 2008 **Deines, AM**. Tilapia for Aquaculture: Impacts and Uncertainty. Workshop on Preventing Biological Invasions: Best Practices in Pre-Import Risk Screening for Species of Live Animals in International Trade. University of Notre Dame, IN, USA. April 9–11, 2008. Poster.
- Mar 2008 **Deines, AM.**, Bee, CA., Katongo, C., Malasha, I., Mudenda HG. Nile Tilapia Invasion on the Kafue River, Zambia: An IGERT–GLOBES Project. Minnesota Futures and IGERT Symposium: Predicting Invasive Potential of Exotic Species. University of Minnesota. Minneapolis, MN, USA. Poster.
- Apr 2004 **Deines, AM**. Species Competition: a patch dynamics approach. Society of Environmental Toxicology and Chemistry, Pacific Northwest Chapter Conference. Port Townsend, WA, USA.

Advising/Mentoring

- 2012 Sarah Burbank. University of Notre Dame. Global meta-analysis of the ecological impacts of grass carp.
- 2011 Ian Bhole, Copperbelt University, Zambia. Genetic determination of hybrid tilapias on the Kafue River, Zambia.
- 2010–2011 Kara Strass, University of Notre Dame. Development of environmental DNA markers for two tilapia species.
- 2009 Japhet Matoba, University of Zambia. “Morphological and meristic evaluation of *Oreochromis* spp from the Kafue River, Zambia”.
- 2008 Brianna Klco, University of Notre Dame. “Market valuation of native and

- 2006–
2009 DIANA KICO, UNIVERSITY OF NOTRE DAME. MARKET VALUATION OF NATIVE AND non-native Tilapiine Cichlids from an artisanal fishery, Lusaka, Zambia”.
- 2006–
2007 Maggie Baker, University of Notre Dame. “Modeling the potential distribution of the nonindigenous Chinese mystery snail”.

Teaching

Spr 2012 Teaching Assistant, General Ecology, University of Notre Dame.

Fall 2011 Laboratory Teaching Assistant, Aquatic Ecology, University of Notre Dame.

2007–
2008 Laboratory Teaching Assistant, General Biology, University of Notre Dame.

2002–
2003 Laboratory Teaching Assistant, General Chemistry, Western Washington University.

Professional Development

Spr 2012 Washington D.C. Communications and Policy Training.

Sum Teaching Your First Biology Course, Summer Workshop.
2011

May Introduction to ArcGIS I, ESRI Certified 16 hours classroom instruction.
2008

Mar 2008 Media Communications Workshop.

Feb 2008 Writing Successful Grants Workshop.

Sum Genetic, Genomic, and Immunological Methods and Analysis Module.
2007

Fall 2007 Effective Teaching Workshop.

Oct 2007 The Ohio State University Stone Laboratory Fisheries Techniques Workshop.

Professional Service

2013 Session co-Chair. Asian carp biology, ecology and management. International Association of Great Lakes Research (IAGLR). June 2–6, 2013. West Lafayette, Indiana, USA.

- 2011 Expert to the City of Chicago Department of Environment on tilapia invasions.
- 2009–2012 Founding member, Development Studies Working Group, Kellogg Institute, University of Notre Dame.
- Feb 2008 Grant reviewer, Ganey Grant, Center for Social Concerns, University of Notre Dame.
- 2007–2008 Graduate Student Seminar co-Director: Department of Biology, Ecology, Evolution & Environment.
- April 2003 Judge of Student Presentations. Society of Environmental Toxicology and Chemistry, Pacific Northwest Chapter Conference, Port Townsend, WA.

Media & Public Outreach

Aug 2012 Guest Post– USAID Agrilinks blog, agrilinks.kdid.org

Mar 2011 Interview– *Livescience.com*

Apr 2011 Interview– *Rodale News*

2010 Co-founder *invasivore.org*

Work History

2004–2006 Peace Corps Volunteer, Zambia. Environment and Agriculture Program.

2000–2003 Western Washington University, Department of Chemistry, supplies and waste management

Honors

Dec 2004 Best Research Paper, Society for Risk Analysis National Meeting.

Jun 2003 Cecil William Westman Scholarship.

Dec 2002 Honor Roll Western Washington University.

Nov 2001 The National Society of Collegiate Scholars induction.

Apr 2001 President's List Western Washington University.

Mar 2001 Honor Roll Western Washington University.

Jun 2000 Western Washington University President's Scholarship.

Mar 1999

American Chemical Society Honor Award.

Apr 1997 Boy Scouts of America Eagle Scout Award.

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