

**CURRICULUM VITA****K. DAVID HAMBRIGHT****Address:**

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**Web pages:**

<http://davehambright.oucreate.com/index.html>  
<http://www.ou.edu/cas/environmentalstudies/>  
<http://cas.ou.edu/earthmonthatou>

**Current Position:**

Director, Environmental Studies  
 Professor, Plankton Ecology & Limnology Lab., Ecology & Evolutionary Biology, Department of Biology.

**Education:**

1991-1993: Postdoctoral Fellow, Bi-national Agricultural Research and Development (BARD) Fund, Kinneret Limnological Laboratory, Israel Oceanographic & Limnological Research Institute. Advisor: M. Gophen.  
 1991: Postdoctoral Associate, Cornell University, Center for Environmental Research. Advisor: R.W. Howarth  
 1991: Ph.D., Ecology and Evolutionary Biology, Cornell University, Ithaca, NY.  
 Dissertation: "Experimental analysis of piscivore-mediated trophic cascading effects in freshwater ponds: role of alternate planktivorous fishes." Advisor: Nelson G. Hairston, Jr.  
 1985: M.S., Biology, Texas Christian University (TCU), Ft. Worth, TX.  
 Thesis: "Zooplankton community response to planktivorous bluegill (*Lepomis macrochirus*) and piscivorous largemouth bass (*Micropterus salmoides*)." Advisor: Ray W. Drenner  
 1982: B.S., Biology (*cum laude*), University of North Carolina, Charlotte, NC.

**Professional Experience:**

## University of Oklahoma

2016-present: Director, Environmental Studies (formerly IPE)  
 2015: Interim Director, Interdisciplinary Perspectives on the Environment (IPE)  
 2014-2015: Faculty Fellow for Water and the Environment, Dean's Office, College of Arts & Sciences  
 2013-present: Professor, OU, Department of Biology.  
 2006-2013: Associate Professor, OU, Biological Station and Department of Biology.  
 2001-2006: Assistant Professor, OU, Biological Station and Department of Zoology.

## Kinneret Limnological Laboratory (KLL), Israel Oceanographic &amp; Limnological Research Institute.

1996-2001: Senior Research Scientist (with tenure; equivalent to Associate Research Professor).  
 1994-1995: Scientific Coordinator, Aquatic Studies Program, Hula Wetlands Restoration Project, Israel Lands Authority and Israel Ministry of Agriculture.  
 1993-1995: Research Scientist (equivalent to Assistant Research Professor).

## Cornell University

1987: Research Support Specialist, Experimental Ponds Facility, Department of Agronomy.  
 1986-1990: Teaching Assistant (Ichthyology, Limnology, Communities/Ecosystems), EEB.

## Texas Christian University, Department of Biology

1985-1986: Research Associate (Limnology, Fish Ecology).  
 1984: Laboratory Instructor (Biology).  
 1983-1984: Teaching Assistant (Biology, Limnology).  
 1982-1983: Research Assistant (fish ecology).

## University of Nevada-Reno

1984: Research Assistant (pupfish behavior), Department of Biology.

Sabbatical and Other Research Appointments:

2001-2006: Adjunct Research Scientist, KLL.  
 2000: Visiting Researcher, Institut für Seenforschung, Langenargen, Germany.

1999: Visiting Researcher, Belarus State University, Naroch Lakes Field Station, Minsk, Belarus.  
 1997: Visiting Fellow (sabbatical), Cornell, Department of Ecology and Evolutionary Biology.  
 1985-1986: Visiting Researcher, KLL.

### **Honors and Awards:**

2017: named Fellow of the Association for the Sciences of Limnology and Oceanography (ASLO) for excellence in contribution to ASLO and the aquatic sciences.  
 2016: Environmental Excellence Award; Earth Month, Inc.  
 2014-2018: Appointed to a National Academy of Sciences, Engineering, and Medicine Study Committee (formerly the National Research Council), Water Science and Technology Board, for review the Edwards Aquifer Habitat Conservation Program. National Academies, Washington, D.C.

## **SERVICE**

### **University Service:**

#### Current:

Member, Faculty Senate Executive Committee, 2018-present.  
 Member, Faculty Senate, 2017-present.  
 Founder and Organizer, EarthMonth@OU, 2015-present. (received Environmental Excellence Award, Mar 2016; Earth Month, Inc.)  
 EarthMonth@OU (World Water Day, 22 March-Earth Day, 22 April) consists of weekly panels, discussions, student and other events for the university and surrounding communities, to highlight environmental concerns and challenges facing humanity, and to stimulate discussion and action aimed at meeting these environmental challenges. See <http://ou.edu/cas/earthmonthatou/> for more information.  
 Member (Ex-Officio), Environmental Concerns Committee, 2015-present.  
 Faculty Sponsor for OU Earth Student Organization, 2015-present.

#### Previous:

Member, Landscape Architecture Faculty Search Committee, 2016-2017.  
 Member, CORIX Site visit team (Vancouver and Victoria, Canada facilities), Office of the Vice President for Research (VPR), 2015.  
 Member, Water Innovation Research Laboratory Development Committee II, Office of the VPR, 2015.  
 Member, Committee for Water Research, Education and External Engagement, Office of the VPR, 2014-2015.  
 Member, Planning Committee for the Water Innovation Research Laboratory (WIRL), University Research Cabinet, 2013-2014.  
 Member, OU Faculty Development Awards Committee, 2011-2012.  
 Member, OU Vice President for Research Task Force on University Research Awards, 2010.  
 Member, OU Research Council, 2009-2012:  
   Reviewer for ~40 to 60 proposals annually  
   Dossier review for:  
     George Lynn Cross Research Professorships  
     Vice President for Research Award for Outstanding Research Impact  
     Vice President for Research Award for Outstanding Research Engagement  
     Henry Daniel Rinsland Memorial Award for Excellence in Education Research  
 Subcommittee on Conflict of Interest Policy, 2011.  
 Task Force on Research Council Portfolio Revision, 2010-2011.  
 Subcommittee on Potentially Transformative Research Program, 2010.  
 Team leader, Alpha Time, Center for Water Literacy and Sustainability (CWLS): An Educational and Research Forum for the Sustainable Development, Preservation, and Conservation of Water Resources and their Biodiversity in Oklahoma, OU Research Cabinet, 2007.

**College Service:**Current:

Member, CAS Strategic Plan Signature Initiative Leadership; Chair: Committee on Advancing the Study of Water, Natural Resources, and the Environment, 2017-present.

Previous:

Member, College of Arts and Sciences Course and Curriculum Committee, 2015-2017, Chair, 2016-2017.  
Faculty Fellow for Water and the Environment, Dean's Office, College of Arts & Sciences, 2014-2015.  
Member, OU College of Arts and Sciences Berlin Scholarship Committee, 2006-2012, Chair 2009-2012.

**Departmental (Environmental Studies):**Current:

Director, Environmental Studies, 2016-present.

Previous:

Environmental Studies Academic advisor, 2015-2017 (25-50 majors and minors advised twice annually, represent program at Majors and Minors Fair, Summer Freshman Advising, etc.  
Interim Director, Interdisciplinary Perspectives on the Environment, 2015.  
Member, Committee A (Executive personnel committee), 2013-2015.

**Departmental (Biology, formerly Zoology, and University of Oklahoma Biological Station):**Current:

Member, Graduate Selections Committee, 2017-present.  
Member, Graduate Program in Ecology and Evolutionary Biology Steering Committee, 2010-present.

Previous:

Member, Graduate Scholarship Committee, Department of Biology, 2015-2017.  
Member, Geographical Ecology Cluster Hire Search Committee, 2015-2016.  
Member, Zoology (Biology) Department Graduate Selections Committee, 2002-2005, 2008-2009, 2014-2015.  
Organizer, EEB EcoMunch Graduate Seminar Series (ZOO/BOT/MICRO 5471), 2009-2012, 2014.  
Member, Graduate Studies Committee, 2009-2012, 2013-2014.  
Member, Biological Station Committee A (Executive personnel committee), 2006-2012.  
Member, Biological Station Graduate Student Scholarship Committee, 2008-2012.  
Member, Zoology Department Adam's Scholarship Committee, 2005, 2006, 2009.  
Chair, Zoology Department Annual Retreat Organizing Committee, 2009.  
Member, Zoology Department Library Committee, 2006-2008.  
Member, Zoology Department General Seminar Committee, 2004-2006.  
Member, Zoology Department Safety Committee, 2001-2002.

**Professional Service:**Current:

Member, Planning Committee for 10<sup>th</sup> US HAB Conference, Orange Beach/Gulf Shores, Alabama. November 2019.  
Member, National Harmful Algal Bloom Committee, 2016-present.  
Member, National Academy of Sciences Committee to Review the Edwards Aquifer Habitat Conservation Program, (formerly the National Research Council), National Academies, Washington, D.C., 2014-2018.  
Chair, South-Central U.S. Chapter, Society for Freshwater Science, 2013-present.  
Member, Zebra Mussel Task Force, Oklahoma Department of Wildlife Conservation, 2009-present.

Previous:

Member, Lake Texoma Advisory Committee, U.S. Army Corps of Engineers, Tulsa, OK, 2007-2017.  
Board Member, Oklahoma Clean Lakes and Watersheds Association, 2015-2016.  
Chair, *Freshwater biodiversity under multiple pressures*, SEFS 9: Symposium for European Fresh Water Sciences, Geneva, Switzerland; 2015.  
Member, Oklahoma HAB Monitoring Task Force, Office of the Secretary of the Environment, 2012.  
Consultant, West Virginia Department of Environmental Protection, 2009-2011.

Member, Water Quality Trends Assessment Committee, Oklahoma Water Resources Board, 2008-2011.  
 Founder, Host/Co-Host, and Organizer, Oklahoma-Texas Aquatics Research Group (OTARG), Tri-annual meetings, OU Biological Station, Kingston, OK:  
 4) OTARG met jointly with 36<sup>th</sup> Great Plains Limnology Conference, 2011;  
 3) OTARG met jointly with the 35<sup>th</sup> Great Plains Limnology Conference, 2008;  
 2) OTARG met jointly with the Texas River and Reservoir Management Society, 2005;  
 1) OTARG met jointly with the 29<sup>th</sup> Great Plains Limnology Conference, 2002.

Panel member, *Bridging the gap between golden alga research and management*, Texas Parks and Wildlife Department Roundtable Discussion, 2<sup>nd</sup> International Golden Alga Symposium, Ft. Worth, TX, Jan 2009.  
 Chair, *General zooplankton*, Annual meeting of the American Society of Limnology and Oceanography, Santiago de Compostela, Spain, 2005.

Co-organizer, Chair, Facilitator, Middle East Water Working Groups (MEWWG), OU International Programs Center, Center for Peace Studies:  
 3) MEWWG-IV, Amman, Jordan, 2004.  
 2) MEWWG-II, Amman, Jordan, December 2003;  
 1) MEWWG-I, Plano Platres, Cyprus, June 2003.

Chair, *Physiological ecology, ecotoxicology and pollution*, 3<sup>rd</sup> Symposium for European Freshwater Sciences, Edinburgh, Scotland, 2003.

Member, Education Resources Web Page Sub-committee, American Society of Limnology and Oceanography Education Committee, 2002-2005.

Invited Participant, *Plankton Ecology Group Symposium-Recent Developments in Fundamental and Applied Plankton Research*, Netherlands Institute of Ecology, Centre of Limnology, Netherlanders-Flemish Ecological Society, Royal Netherlands Academy of Sciences and Arts, Amsterdam, The Netherlands, 2001.

Chair, *Zooplankton ecology*, Annual meeting of the American Society of Limnology and Oceanography, Albuquerque, NM, 2001.

### Editorial and Review Responsibilities

Sr. Editor, *Water in the Middle East: Cooperation and Technical Solutions in the Jordan Valley*. Sussex Academic Press, Brighton, U.K. 2006.

Co-editor, Lake Management: 2000+. *Advances in Limnology*, vol. 55, Schweizerbart, Berlin, 2000.

Editor, Hula Wetlands (Israel) Restoration Project. *Wetlands Ecology and Management*, vol. 6 (2-3), 1998.

Co-editor, *Current insights into the potential impacts of lowering Lake Kinneret water levels to -214m altitude*. IOLR-KLL report T24/94 to the Israel Water Commission, 1994.

### Reviewer: Scholarly journals:

<i>African Journal of Aquatic Sciences</i>	<i>Ecology Letters</i>	<i>Israel Journal of Ecology and Evolution</i>
<i>Algal Research</i>	<i>Ecosphere</i>	<i>ISME Journal (Nature)</i>
<i>American Naturalist</i>	<i>Ecosystems</i>	<i>ISRN Ecology</i>
<i>Aquatic Ecology</i>	<i>Environmental Biology</i>	<i>Journal of Ecology</i>
<i>Aquatic Microbial Ecology</i>	<i>Environmental Management</i>	<i>Journal of Environmental Management</i>
<i>Aquatic Sciences</i>	<i>Environmental Pollution</i>	<i>Journal of Geophysical Research-Biogeosciences</i>
<i>Biological Invasions</i>	<i>Environmental Science and Technology</i>	<i>Journal of Hydrology</i>
<i>BioScience</i>	<i>Environment, Ecology &amp; Management</i>	<i>Journal of North American Fisheries Management</i>
<i>Canadian Journal of Fisheries and Aquatic Sciences</i>	<i>Freshwater Biology</i>	<i>Journal of Phycology</i>
<i>Central European Journal of Biology</i>	<i>Fundamental and Applied Limnology (Archiv für Hydrobiologie)</i>	<i>Journal of Plankton Research</i>
<i>Chinese Journal of Oceanography and Limnology</i>	<i>Harmful Algae</i>	<i>Journal of the American Water Resources Association</i>
<i>Ecohydrology &amp; Hydrobiology</i>	<i>Hydrobiologia</i>	<i>Journal of Thermal Biology</i>
<i>Ecological Applications</i>	<i>Inland Waters</i>	<i>Lake and Reservoir Management</i>
<i>Ecological Modeling</i>	<i>International Journal of Remote Sensing</i>	<i>Limnology and Oceanography</i>
<i>Ecology</i>		
<i>Ecology of Freshwater Fish</i>		

*Microbial Ecology*  
*North American Journal of Fisheries Management*  
*Oecologia*  
*Oikos*  
*Polish Journal of Environmental Studies*

*PLoS One*  
*Protist*  
*Science of the Total Environment*  
*Science Reports (Nature)*  
*Springer Plus*  
*Toxins*

*Transactions of the American Fisheries Society*  
*Verhandlungen Internationale Vereinigung für Theoretische und Angewandte Limnologie*  
*Water Research.*

Reviewer: Funding agencies:

*American Association for the Advancement of Science*  
*California Sea Grant*  
*Center for Sponsored Coastal Ocean Research-National Oceanic and Atmospheric Administration (CSCOR-NOAA)*  
*Estonian Research Council (ETAg)*  
*Fonds québécois de la recherche sur la nature et les technologies (FQRNT)*  
*Icelandic Research Foundations (IRF)*

*Israel Ministry of Science and Technology*  
*Israel Science Foundation*  
*National Oceanographic and Atmospheric Administration-National Marine Fisheries Service (NOAA-NMFS)*  
*Netherlands Organization for Scientific Research (NWO)*  
*New York Sea Grant*  
*Oak Ridge Associated Universities (ORAU)*  
*Rhode Island Sea Grant*  
*Singapore National Research Foundation*

*South African National Research Foundation*  
*US-Israel Bi-national Agricultural Research and Development (BARD) Fund*  
*US-Israel Bi-National Science Foundation (BSF)*  
*US National Science Foundation (NSF)*  
*US Sea Grant*  
*US State Department (Science and Technology Centers in the former USSR).*

Panels: NSF-IOB, NASA-ROSES

**Membership in Professional Societies**

American Association for the Advancement of Science (2012-present)  
 American Fisheries Society (1985-2013)  
 American Society of Naturalists (1994-present)  
 Association for the Sciences of Limnology and Oceanography (formerly American Society of Limnology and Oceanography; 1985-present; Fellow since 2017)  
 Ecological Society of America (1985-present)  
 International Society of Limnology (formerly International Association of Theoretical and Applied Limnology, and Societas Internationalis Limnologiae, SIL; 1989-present)  
 Oklahoma Clean Lakes and Watersheds Association (2001-present)  
 Sigma Xi - The Scientific Research Society (1992-present)  
 Society for Freshwater Science (2013-present).

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**TEACHING**

**Courses:**

Current:

Water and Ecological Sustainability (BIOL 3463/ENST 3463)  
 Ecology of Lakes (BIOL 4463)

Previous:

Limnology (BIOL 4462); Limnology Laboratory (BIOL 4471)  
 Advanced Limnology (BIOL 4663/5663)  
 Water Resources: Preservation and Conservation (Senior Capstone: BIOL 4983)  
 EEB Graduate Seminar (BIOL/MBIO/PBIO 5471).

**Graduate Student supervision:**Graduate Supervision: Major Advisor/Committee Chair: *Current*

Katherine Hooker, Ph.D., EEB-Biology, in progress, (**NSF Graduate Research Fellow**), Cyanobacterial ecological dynamics: Historical and geographical perspectives using space-based and genomic approaches.

Daniella Glidewell, M.S. Biology, in progress

Eve Minkin, M.S. Biology, in progress

Graduate Supervision: Major Advisor/Committee Chair: *Previous*

Thayer Halliday-Schult, Ph.D., EEB-Biology, 2017, Population dynamics and long-term impacts of the invasive zebra mussel (*Dreissena polymorpha*) in a subtropical reservoir.

Francisco J. Acosta Espinosa, Ph.D., EEB-Biology, progress suspended for personal reasons, Gene-expression and toxicity in *Prymnesium parvum*.

Christopher Acy, M.S., Biology, 2017, The roles of stocking rates and lake characteristics in the success of the Florida Largemouth Bass stocking program in Oklahoma. Position after graduation: Aquatic Invasive Species Coordinator, Fox-Wolf Watershed Alliance, Appleton WI.

Jessica E. Beyer, Ph.D., EEB-Biology, 2016, Freshwater zooplankton: ecology, cryptic species, and global change. OU. Position after graduation: Postdoc, PELL and Lecturer, Environmental Studies, OU.

Brenda Allison-Witt, M.S., Biology, 2016, Effect of the toxigenic alga *Prymnesium parvum* on a natural zooplankton community. Position after graduation: Professor of Microbiology and Life Sciences, Redlands Community College, El Reno, OK.

Richard M. Zamor, Ph.D., EEB-Biology, 2013, The ecology of an invasive toxigenic protist. OU. Position after graduation: Postdoc, PELL and Instructor, Department of Biology, OU; current: Project/Research Director for Water Quality Laboratory, Ecosystems and Lake Management, Grand River Dam Authority

Emily Rimmel, M.S., Zoology, 2010, *Prymnesium parvum*, toxins, and herbivorous zooplankton. OU. Position after graduation: Oklahoma Department of Environmental Quality, Current position: Director of Regulatory Affairs, National Association of Clean Water Agencies (NACWA), Washington D.C.; Member of the American Bar Association and the New Hampshire Bar Association; Adjunct Instructor, Environmental Studies, OU.

Nicole Luke, M.S., Zoology, 2007, Ecological role of *Prymnesium parvum*, a toxic golden alga, in Lake Texoma. OU. Position after graduation: Limnologist, Oklahoma Water Resources Board.

Matthew Chumchal, Ph.D., Zoology, 2007, Mercury bioaccumulation in fish: consequences for lake and fisheries management. OU. Position after graduation: Assistant Professor, Biology, TCU, Current position: Associate Professor, Biology and Director, Pre-Health Professions Institute, TCU.

James Easton, Ph.D., EEB, 2003, Zooplanktivory in Lake Kinneret: role of diurnal vertical migration in zooplankton and fishes. Hebrew University of Jerusalem. Position after graduation: Research technician/Field Supervisor, KLL, Present position: Consultant, Mekorot Water Company, Israel.

Graduate Supervision: Committee Member: *Current*:

Edward D. Higgins (C. Vaughn), Ph.D. EEB-Biology, OU.

Juan Calderon (R. Nairn), Ph.D. Civil Engineering & Environmental Science-on leave, OU.

Graduate Supervision: Committee Member: *Previous*:

Joshua Cooper (B. Wawrik), Ph.D. Microbiology, 2017, OU.

Billy Culver (L. Weider), Ph.D. EEB-Biology, 2016, OU.

Juan Calderon (R. Nairn), M.S. Civil Engineering & Environmental Science, 2015, OU.

Jess R. Eberle (G. Wellborn), M.S. Biology, 2014, OU.

Jesse Becker (W. Nowlin), Ph.D. Biology, 2013, Texas State University, San Marcos.

William Andrews (R. Nairn), Ph.D. Civil Engineering and Environmental Sciences, 2011, OU.

Aram Goodwin (Y. Erez), M.S. Geology, 2010, Hebrew University of Jerusalem.

Darcy Lutes (R. Nairn), M.S. Civil Engineering and Environmental Sciences, 2009, OU.

Punidan Jeyasingh (L. Weider), Ph.D. EEB-Zoology, 2007, OU.

Daniel Spooner (C. Vaughn), Ph.D. Zoology, 2007, OU.

Robert Ryan (W. Shelton), M.S. Zoology, 2004, OU.

Matthew Chumchal (R. Drenner), M.S. Biology, 2003, TCU.

**Graduate Supervision: Laboratory and field mentoring:**

Adriane C. Jones (D. Caron), Ph.D. 2013, Marine Biology, University of Southern California.  
 Jon Henrikson (R. Cichewicz), Ph.D. 2011, Chemistry and Biochemistry, OU.  
 Leonid Sukharnikov (B. Roe), Ph.D. 2010, Chemistry and Biochemistry, OU.  
 Maria Pilar Beltran Zuniga (study abroad), M.Sc. 2010, Universitat de València, Spain  
 Jennifer M. McAllister (R. Nairn), M.S. 2010, Civil Engineering and Environmental Sciences, OU  
 Sigal Balshine Earn, Ph.D. 1995, Zoology, Cambridge University.

**Postdoctoral supervision:**

Jessica E. Beyer, Ph.D. 2016, OU, Spectral characterization and modelling of harmful algae. 2016-present.  
 Dayong Zhao, Ph.D. 2009, Nanjing University, China, Microbial ecology of lakes. 2017. Visiting scholar from Hohai University, Nanjing, China.  
 Richard M. Zamor, Ph.D. 2013, OU, Ecology of golden algae, 2013-2014, Position after: Watershed Biologist, Ecosystems and Education, Grand River Dam Authority (GRDA), Langley, OK, Current position: Project/Research Director for Water Quality Laboratory, Ecosystems and Lake Management, GRDA.  
 Jinheng Zhang, Ph.D. 2003, Zhejiang University, China, with X. Xiao, Remote sensing of water quality and harmful algae in Oklahoma's lakes. 2013. Visiting scholar from Qingdao University of Science & Technology, China.  
 James H. Larson, Ph.D. 2006, University of Notre Dame, The effect of *Prymnesium parvum* toxins on nutrient cycling in Lake Texoma. 2006-2007, Position after: Biologist, U.S. Geological Survey, Upper Midwest Environmental Sciences Center, La Crosse, Wisconsin.  
 James D. Easton, Ph.D. 2003, Hebrew University of Jerusalem, Ecotoxicology and environmental monitoring of *P. parvum* in Lake Texoma. 2006-2008, Position after: Researcher III/Field Manager, OU.  
 Peter J. Unmack, Ph.D. 2005, Arizona State University, Ecotoxicology and environmental monitoring of *P. parvum* in Lake Texoma. 2005, Position after: Post-doctoral Research Associate, National Evolutionary Synthesis Center (NESCent).  
 Chad W. Hargrave, Ph.D. 2005, OU, with L. Weider, Effects of genetic diversity on *Daphnia* regulation of ecosystem function. 2005-2006, Position after: Assistant Professor, Biological Sciences, Sam Houston State University.  
 Steven S. Schwartz. Ph.D. 1981, University of Nebraska, Paleolimnological and historical perspectives of *Bosmina* in Lake Kinneret. 1998-1999. Position after: Lecturer, Bridgewater State College, Boston.

**Technical supervision:**

Trier Ward, Research Scientist I (OU), Jan-Jun 2012.  
 Ann Morris, Research Technician (OU), Feb 2010-Feb 2011  
 James Easton, Research Scientist III (OU), Jul 2008-Jun 2012.  
 Karen L. Glenn, Research Scientist III (OU), Jan 2007-Dec 2011.  
 Anne Easton, Research Scientist II (OU), Sep 2006-Jan 2012.  
 Yehudit Viner-Mozzini, Laboratory Technician (KLL), 1998-2001  
 Bonnie Azoulay, Laboratory Technician (KLL), 1993-2003.

**Undergraduate Research Supervision:**

Mary Larson, 2018, Phytoplankton and HAB ecology of Lake Thunderbird, Norman, OK.  
 Garrett Eakers, 2017-present, Microbiology and Honors College, OU. Molecular quantification of cyanobacterial biomass and potential exposure to cyanobacterial toxins.  
 \*Louis Stokes Alliance for Minority Participation Scholar, National Science Foundation  
 Claire Milligan, 2017, Environmental Studies, OU. Environmental Research Experiences for Students; Cyanobacterial ecology and water quality.  
 Jacqueline Quezada, 2017, Redlands Community College NASA Intern Program. Remote sensing of water quality in Lake El Reno, OK.  
 Wyatt DeSpain, 2016-2018, Biology/Environmental Studies, OU. Cyanobacteria-zooplankton interactions.  
 Emily Young, 2016, Environmental Studies, OU. Environmental correlates of the Florida Largemouth Bass stocking program in Oklahoma.  
 Lena Wilson, 2016, Biology, Environmental Studies and Honors College, OU. Remote sensing of water quality in Oklahoma reservoirs.  
 Honors Thesis: Potential effect of turbidity on chlorophyll reflectance in Lake Thunderbird, Oklahoma.

Joey C. DeAngelis, 2015-2016, Biology and Honors College, OU. Meta-analysis of global zebra mussel research.

Brandon Chien, 2014-2015, Biology and Honors College, OU.

Daniella Glidewell, 2013-2016, Biology/Journalism and Honors College, OU.

\*Undergraduate Research Opportunities Program Award, Honors College; Honors Thesis: The effects of food quality and quantity on reproduction in the rotifer *Brachionus calyciflorus*.

\*Honors College Award for Distinguished Undergraduate Research, Undergraduate Research Day (April 2015).

Kathryn Shauberg, 2013-2015, Biology and Honors College, OU.

\*Undergraduate Research Opportunities Program Award, Honors College

Honors Thesis: Selective feeding may benefit zebra mussels in cyanobacteria-dominated lakes.

Emily Day, 2013, Geography and Environmental Sustainability, OU.

Ellen Gross, 2013, Microbiology, OU.

Ana Mohammed-Zadeh, 2012, Biology and Honors College, OU.

Jarrod Hertzler, 2012, Biology, University of Central Oklahoma (UCO), Edmond.

Joshua Warren, 2011, Chemistry/Biochemistry, OU.

Jeffrey F. Hayworth, 2010, Zoology, OU.

Merric Dosser, 2010, Zoology, OU.

Zane Russell, 2010, Zoology, OU.

Logan O. Beard, 2009, Zoology, OU.

Brenda Allison, 2008-2011, Zoology, OU.

\*Outstanding Senior, Department of Zoology.

Majed Gharfeh, 2007-2009, Biomedical Engineering, Biochemistry, OU.

\*Undergraduate Research Opportunities Program Award, Honors College

Honors Thesis: Isolation and characterization of golden algal toxins. (Co-advisor with R.H. Cichewicz, Chemistry and Biochemistry)

Emily Remmel, 2007-2008, Zoology, OU.

\*Undergraduate Research Opportunities Program Award, Honors College

Thesis: Effects of toxigenic golden algae on feeding behaviors of herbivorous zooplankton.

\*Mark Coleman Fellow, Interdisciplinary Perspectives on the Environment.

\*Outstanding Senior, Department of Zoology.

Elizabeth Pearsall, 2007, Zoology, OU.

Beatriz E. Santamaria (study abroad), B.S. 2005, Biology, Universidad Simon Bolivar, Caracas, Venezuela.

Jihye Yoon, 2002-2004, Zoology, OU.

Nicole Luke, 2001-2005, Microbiology and Zoology, OU.

\*Undergraduate Research Opportunities Program Award, Honors College

Thesis: Grazing and nutrient remineralization by *Daphnia mendotae*.

Mitch Moore, 2001, Zoology, OU.

### High School Student AP-Honors Research supervision

Stephanie Horsfall, Southmoore High, AP Science, *pH effects on Microcystis toxin production*, 2015-2017.

African American, High School Junior, awarded 1<sup>st</sup> place in the Earth & Environmental Science category in regional competition, and the Stockholm Water Prize at the Oklahoma State Science and Engineering Fair for her project entitled, Effect of altering pH on toxin production in cyanobacteria.

Zane Tilson, Southmoore High, AP Science, *Environmental control of lipid production in algae*, 2015-2016.

High School Senior, 1<sup>st</sup> Place in Energy (chemical) category; "Outstanding Exhibit from Yale University", "Metrics Award", and the "Naval Research Award" at the Regional Science and Engineering Fair held at University of Central Oklahoma. At the Oklahoma state level (i.e., the State Science and Engineering Fair at ECU), awarded the Oklahoma Corporation Commission Award for Sustainable Energy Research; The RICOLA Sustainable Development Award; a Northwestern Oklahoma University Scholarship; 1<sup>st</sup> Place in the category "Energy, Transportation and Engineering; and a nomination to attend ISWEEEP (International Sustainable World Project Olympiad, Houston TX)-awarded the Bronze Medal (Energy category).



## RESEARCH

### Research Grants and Other Awards (total = \$7.8M)

#### 2018

Hambright, K.D., L.R. Krumholz, A.E. Wilson, H. Paerl, M. Steffen. Dimensions: Collaborative Research: The Cyanobacterial Bloom Microbial Interactome as a Model for Understanding Biogeographical and Seasonal Patterns in Functional Biodiversity; National Science Foundation; Recommended for funding, decision pending; 5 yrs; PI; **\$1,999,996**.

#### 2017

Hambright, K.D. Challenging the broadcast allelopathy paradigm in toxigenic microbial eukaryotic ecology; National Science Foundation-IOS; 2 yrs; PI; **\$300,000**.

Hambright, K.D. Genetic analyses in support of ODWC fisheries programs: Largemouth bass microsatellites and golden algae-related fish kills; Oklahoma Department of Wildlife Conservation; 3 years; PI; **\$60,000**.

#### 2016

Krumholz, L.R., Hambright, K.D., Toward a genomic-based understanding of an emerging environmental problem; University of Oklahoma Research Council; 1 year; CoPI; **\$14,700**.

Hambright, K.D., Suflita, J.M., McInerney, M.J., Broughton, R.E., Dunn, A.K., Schlupp, I.B., Vaughn, C.C., Weider, L.J., Allen, D.C., Environmental Research Experiences for Students-Laboratory (ERES Laboratory); The University of Oklahoma, College of Arts and Sciences; 1 year; PI/PD; **\$25,000**.

Hambright, K.D. Genetic analyses in support of ODWC fisheries programs: Largemouth bass microsatellites and golden algae-related fish kills; Oklahoma Department of Wildlife Conservation; 1 year; PI; **\$15,662**.

#### 2015

Hambright, K.D. Genetic analyses in support of ODWC fisheries programs: Largemouth bass microsatellites and golden algae-related fish kills; Oklahoma Department of Wildlife Conservation; 1 year; PI; **\$15,293**.

#### 2014

Hambright, K.D. Genetic analyses in support of ODWC fisheries programs: Largemouth bass microsatellites and golden algae-related fish kills; Oklahoma Department of Wildlife Conservation; 1 year; PI; **\$15,000**.

Hambright, K.D. Analysis of black bass genetics using microsatellites. Oklahoma Department of Wildlife Conservation, 6 months, PI, **\$15,000**.

#### 2013

Hambright, K.D., B. Wawrik, F. Najar. Toward a genomic-based understanding of an emerging environmental problem. OU Research Council Faculty Investment Program, 1 yr., PI, **\$14,700**.

Hambright, K.D., X. Xiao, and A. Dzialowski. Remote sensing of water quality and harmful algae in Oklahoma's lakes. Oklahoma Water Resources Research Institute, 1 year, PI, **\$75,000** (incl. \$25,000 institutional match<sup>1</sup>).

#### 2012

Kelly, J., R. Hewes, R. Knapp, M. Kaspari, C. Vaughn, K.D. Hambright, L.J. Weider, and M. Yeary. Ecology and Evolutionary Biology. US Department of Education-GAANN, 4 years, co-PI, **\$408,315**.

Hambright, K.D. Analysis of Florida and Northern strain Largemouth bass using microsatellites. Oklahoma Department of Wildlife Conservation, 1 year, PI, **\$15,000**.

#### 2011

Hambright, K.D. Analysis of Florida and Northern strain Largemouth bass using microsatellites. Oklahoma Department of Wildlife Conservation, 1 year, PI, **\$15,000**.

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<sup>1</sup> Institutional matching funds included when sponsor limits Indirect Cost (IDC) recovery.

Hambright, K.D., L.J. Weider, and G. Wellborn. Building research collaboration for the future: enhancement of the UOBS Aquatic Research Park. National Science Foundation, 3 years, PI, **\$248,642**.

Hambright, K.D. Cyanobacterial monitoring in Lake Texoma. US Department of Defense, Army Corps of Engineers, 3 months, PI, **\$2,475**.

#### 2010

Hambright, K.D. Analysis of Florida and Northern strain Largemouth bass using microsatellites. Oklahoma Department of Wildlife Conservation, 1 year, PI, **\$15,000**.

Hambright, K.D. Golden algae enumeration by qPCR. West Virginia Department of Environmental Protection, 1 year, PI, **\$24,913**.

Hambright, K.D. Invasive and toxic golden algae in Lake Texoma: research to identify practical management measures for regulation of toxicity and prevention of blooms-Supplement. Oklahoma Department of Wildlife Conservation, 1 year, PI, **\$32,000** (incl. \$8,000 institutional match).

Hambright, K.D. *Prymnesium parvum* growth studies using the Dunkard Creek isolate (WANA strain). West Virginia Department of Environmental Protection, 1 year, PI, **\$2,494**.

Hambright, K.D. and R.M. Zamor. Effects of propagule pressure and invasion resistance on establishment success of the toxic golden alga, *Prymnesium parvum*. NSF-Doctoral Dissertation Improvement Grant (R.M. Zamor), 2 years, PD, **\$14,000**.

Hambright, K.D. Instructional Technology for Ecology of Lakes and Advanced Limnology Laboratories College of Arts and Sciences Instructional Technology Grant, **\$12,269**.

Hambright, K.D. Travel to the Annual Meeting - American Society of Limnology and Oceanography (Santa Fe, NM), College of Arts and Sciences Faculty Enrichment Award, **\$1,200**.

#### 2009

Hambright, K.D. and R.H. Cichewicz. Early warning molecular and chemical detection of the toxigenic alga *Prymnesium parvum* in Oklahoma waters. OU Research Council, 1 year, PI, **\$9,513** (incl. \$2,000 match).

#### 2008

Hambright, K.D. Travel to the International Meeting - American Society of Limnology and Oceanography (St. John's, Newfoundland), College of Arts and Sciences Faculty Enrichment Award, College of Arts and Sciences Travel Award, Office of the Vice President for Research Travel Award, Biological Station Travel Award, Total funding: **\$3,531**.

#### 2007

Hambright, K.D. Invasive and toxic golden algae in Lake Texoma: research to identify practical management measures for regulation of toxicity and prevention of blooms. Oklahoma Department of Wildlife Conservation, 5 years, PI, **\$2,370,805** (incl. \$605,970 institutional match).

Zohary, T. and K.D. Hambright. Stable isotope and stoichiometric analysis of recent species changes in Lake Kinneret. US-Israel Bi-National Science Foundation, 4 years, Co-PI, **\$126,000**.

#### 2006

Hambright, K.D. Environmental monitoring program for *Prymnesium parvum* in Lake Texoma. Oklahoma Department of Wildlife Conservation, 2 years, PI, **\$501,243** (incl. \$134,699 institutional match).

Hambright, K.D. Habitat variation in mercury contamination in fishes: A novel experimental approach to quantify mercury methylation across habitat types. University of Oklahoma Research Council, summer, PI, **\$8,777**.

#### 2005

Hambright, K.D. Toxicological and ecological role of *Prymnesium parvum* in Lake Texoma. Oklahoma Department of Wildlife Conservation, 2 years, PI, **\$270,778** (incl. \$88,496 institutional match).

Hambright, K.D. Travel to the International Meeting - American Society of Limnology and Oceanography (Santiago de Compostela, Spain) and Institutional Exchange Visit with Blaise Pascal University Biological Field Station at Besse (Clermont-Ferrand, France), College of Arts and Sciences Travel Award, College of Arts and Sciences Faculty Enrichment Award, Office of the Vice President for Research Travel Award, Presidential International Travel Fellowship, Biological Station Travel Award, Total funding: **\$5,054**.

2004

Hambright, K.D. Fish, mercury and human health: preliminary data on factors affecting mercury levels in fish. University of Oklahoma College of Arts and Sciences Junior Faculty Summer Fellowship, 6 months, PI, **\$6,000**.

2003

Hambright, K.D. Renovation of the Lake Kinneret zooplankton monitoring program. The Israel Water Commission, 2 years, PI, NIS 86,250 (USD equiv. = **\$19,167**).

Hambright, K.D. Algal-nutrient dynamics in fresh waters: direct and indirect effects of zooplankton grazing and nutrient remineralization. Oklahoma Water Resources Research Institute, 1 year, PI, **\$76,703** (incl. \$51,759 institutional match).

2002

Yacobi, Y.Z., T. Zohary, K.D. Hambright, and A. Sukenik. Microscopical plankton in the Yarkon River. The Yarkon River Authority, 2 years, Co-PI, NIS 51,100 (USD equiv. **\$11,356**).

Hambright, K.D. Morphological and life history analysis of the *Bosmina longirostris* complex in Lake Kinneret, Israel: factors allowing the co-existence of two similar morphotypes. University of Oklahoma College of Arts and Sciences Junior Faculty Summer Fellowship, 6 months, PI, **\$6,000**.

Weider, L.J., G.A. Wellborn, and K.D. Hambright. Expansion of housing facilities for guest researchers at the University of Oklahoma Biological Station. National Science Foundation, 3 years, Co-PI, **\$350,000** (incl. \$162,500 institutional match)

2001

Hambright, K.D. Long-term changes in Lake Kinneret zooplankton: analysis of a 30-year record. Israel Ministry of Infrastructures and Energy, 3 years, PI, NIS 180,000 (USD equiv. **\$44,000**).

2000

Hambright, K.D., A. Parparov, and T. Berman. Development and integration of a water quality index for Lake Kinneret. Israel Water Commission, 2 years, PI, NIS 80,000 (USD equiv. **\$20,000**).

1999

W. Eckert, Y. Yacobi, I. Ostrovsky, and K.D. Hambright. High-resolution vertical and temporal monitoring in Lake Kinneret. Israel Water Commission, 1 year, Co-PI, NIS 50,000 (USD equiv. **\$12,500**).

1998

Hambright, K.D., T. Zohary, and H. Güde. Indirect zooplankton effects on water quality: grazing and nutrient remineralization. German-Israel Research Foundation, 3 years, PI, DM 259,000 (USD equiv. **\$143,889**).

Parparov, P., K.D. Hambright, L. Håkanson, V. Boulion, and A. Ostapenya Establishment of water quality indices for natural waters of Belarus and Ukraine. European Union, 2 years, Co-PI, **\$35,000**.

1997

Hambright, K.D. and W. Eckert. Phosphorus dynamics of the sediment-water interface of Lake Agmon (Hula Valley, Israel). Israel Lands Authority and Israel Ministry of Agriculture, 1 year, PI, NIS 15,000 (USD equiv. **\$4,213**).

Berman, T., A. Parparov, and K.D. Hambright. Establishment of water quality indices for Lake Kinneret. Israel Ministry of the Environment, 1 year, Co-PI, NIS 40,000 (USD equiv. **\$11,236**).

1995

Hambright, K.D. and W. Eckert. Potential relationship between water discharge regime, water levels, and phosphorus accumulation in Lake Kinneret. Israel Ministry of Energy and Infrastructure, 1 year, PI, NIS 44,896 (USD equiv. **\$15,219**).

Gophen, M., P. Walline, and K.D. Hambright. The Limnology of Lake Ilopango, (El-Salvador). The Friends Association of Lake Ilopango, 1 year, Co-PI, **\$36,000**.

1994

Zohary, T. and K.D. Hambright. Administration Grant: Scientific Coordination of the Aquatic Studies Program of Hula Restoration Project, Israel Lands Authority and Israel Ministry of Agriculture, 4 years, Co-PI, NIS 160,000 (USD equiv. **\$53,333**).

1991

Hambright, K.D. Research Fellowship: Trophic ecology in Lake Kinneret. United States-Israel Binational Agricultural Research and Development Fund, 1.5 years, PI, **\$39,500**.

Hambright, K.D. and S. Fridman. Development of computer-assisted plankton analysis software. The Shackelton Point Endowment, Cornell University, 3 months, PI, **\$6,000**.

1986-1990

Hambright, K.D. *Ph.D. Funding*: Algal and zooplankton community responses to piscivory: mediation through alternate planktivore types. National Science Foundation (DDIG), A.W. Mellon Foundation, U.S. Environmental Protection Agency, Sigma Xi Grants-in-Aid of Research, 5 years, PI, Total funding, **\$33,066**.

## PRESENTATIONS

### Invited Lectures and Departmental Seminars

2017

Whole Food Web Restructuring by an Ecosystem Disruptive Algal Bloom Species: The Power of Collaboration and Student Training in Complex Ecological Research. Science and Technology Seminar Series, Northeastern State University, Tahlequah, OK.

The Sea of Galilee and Water Supply. Dinner Speaker; Sooners Without Borders Annual Awards Ceremony, Norman, OK.

2016

Invited plenary speaker; International Conference on Water Microbiology and Novel Technologies (Water Microbiology-2016); July 18-19, Chicago, Illinois. Declined due to schedule conflict.

2013

Ecology and toxicology of the invasive harmful alga *Prymnesium parvum*. Institut de Biologie de l'École Normale Supérieure, Paris, France.

2012

Ecology and toxicology of an invasive harmful alga, Department of Biology, University of Oklahoma.

Ecology and toxicology of an invasive harmful algal bloom species: Golden algae (and cyanobacteria) in Oklahoma, Guest lecture: Critical Evaluation of Biological Research, Department of Biology, University of Oklahoma.

2011

Harmful algal blooms in Oklahoma: Golden algae and cyanobacteria in Oklahoma, Oklahoma Water Survey, Norman, OK.

Harmful algal blooms in Lake Texoma: golden algae and blue-green algae: 2004-2011 review and update, TAMU-Grayson County AgriLife Extension Panel; Eisenhower State Park, Denison, TX.

Harmful algal blooms in Lake Texoma: golden algae and blue-green algae: 2004-2011 review and update, Lake Texoma Advisory Committee to the US Department of Defense, Army Corps of Engineers, Pottsboro, TX.

Ecology and toxicology of an invasive harmful algal bloom species: Golden algae in Oklahoma. Department of Biological Sciences, Southwestern Oklahoma State University, Weatherford, OK.

2010

The Sea of Galilee and Israel's Water Supply. Department of History, University of Oklahoma, Norman, OK.  
Roles, impacts, and the futures of limnology and microbiology in ecology. Program in Ecology and Evolutionary Biology, University of Oklahoma.

2009

Ecology and toxicology of *Prymnesium parvum*: lessons from Lake Texoma (OK-TX). West Virginia Department of Environmental Protection, Charleston, WV.  
Characterization of golden algal toxins: factors regulating toxin production and toxicity to fish and zooplankton. Yigal Allon Kinneret Limnological Laboratory, Tabgha, Israel.

2008

Invasive and toxigenic golden algae in Lake Texoma: research to identify practical management measures for regulation of toxicity and prevention of blooms. Lecture to the Lake Texoma Advisory Committee (Army Corps of Engineers), Pottsboro, TX.

2006

Microbial grazers in freshwater food webs: carbon and nutrient fluxes. Department of Biology, Texas State University-San Marcos.  
Microbial grazers in freshwater food webs: food webs and ecosystem function. Program in Ecology and Evolutionary Biology, University of Oklahoma.

2005

Piscivorous fish and microbial consumers in fresh waters: new challenges to old paradigms. Department of Zoology, Norman, OK.  
Microzooplankton dominate carbon flow and nutrient cycling in freshwaters. Microorganismes : Génome et Environnement, Université Blaise-Pascal, Clermont-Ferrand, France.

2004

Plankton ecology in the Sea of Galilee. Department of Fisheries and Wildlife, Texas A & M University, College Station, TX.

2003

Zooplankton in the Sea of Galilee: selective grazing and nutrient recycling. Department of Zoology, University of Hawai'i-Manoa, Honolulu, HI.

2002

Zooplankton and water quality in Lake Kinneret: experimental analyses of grazing and nutrient remineralization. Institute of Evolution, Haifa University, Haifa, Israel.  
Fisheries management, zooplankton, and water quality in Lake Kinneret. Israel Water Commission, Hatzor, Israel.

2001

Zooplankton and water quality in the Sea of Galilee: experimental analyses of grazing and nutrient remineralization. Department of Zoology, Oklahoma State University, Stillwater, OK.  
Lake Kinneret and water supply in Israel: ecological limits to operational supply. Water in the Jordan Valley: Technical Solutions and Regional Cooperation, Conference sponsored by the University of Oklahoma International Programs Center, Center for Peace Studies, Norman, OK.

2000

Trophic dynamics in Lake Kinneret. Hebrew University of Jerusalem, Tabgha, Israel.  
Zooplankton grazing: implications for water quality in Lake Kinneret. German-Israeli Cooperation in Environmental Research, DISUM Workshop, Jerusalem, Israel.

1999

Zooplankton in Lake Kinneret: grazing and predation. Israel Oceanographic and Limnological Research, Tabgha, Israel.

Paleolimnology in Lake Kinneret. Geological Survey of Israel, Jerusalem, Israel.

1998

Impacts of water supply and fisheries management on Lake Kinneret water quality? Department of Zoology and Institute for Nature Conservation Research, Tel Aviv University, Israel.

Nutrient chemistry in Lake Agmon. Workshop on Biogeochemical Processes in the Hula Valley: Potential Environmental Impacts of the Hula Project, Hebrew University of Jerusalem, Israel.

1997

Indices for defining water quality in Lake Kinneret. Israel Ministry of the Environment, Tel Aviv, Israel.

Ecosystem destabilization and water quality deterioration in Lake Kinneret: role of management? Institute of Evolution, Haifa University, Haifa, Israel.

Lake Agmon: a newly re-flooded wetland ecosystem in the Lake Kinneret watershed. Savannah River Ecology Laboratory, University of Georgia, Aiken SC.

Ecosystem destabilization and water quality deterioration in Lake Kinneret: the role of management? Department of Biology, Texas Christian University, Ft. Worth, TX.

Enhancement of eutrophication in Lake Kinneret, Israel by water supply and fisheries management. State University of New York, Buffalo State College, Buffalo, NY.

Lake Kinneret ecosystem destabilization: roles of water supply and fisheries management. Department of Ecology and Evolutionary Biology, Cornell University, Ithaca, NY.

The collapse of the Kinneret bleak fishery: role of bad management and overharvest. Cornell University Biological Field Station, Bridgeport, NY.

1996

Lake Kinneret, Israel's primary water reservoir: the role of limnology. Artists and Lecturers Series, Macon State College, Macon, GA.

Man and the environment: water quality management in arid regions. Department of Biology, Macon State College, Macon, GA

1995

Zooplankton-phytoplankton interactions in Lake Kinneret. Israel Oceanographic and Limnological Research, Haifa, Israel.

1994

Ecology of fishes in Lake Kinneret. Department of Aquaculture, Faculty of Agriculture, Rehovot and Israel Department of Fisheries, Ginnosar, Israel.

1992

Long-term decline in the thermocline depth of Lake Kinneret. Mekorot Water Company, Tabgha, Israel.

1990

Morphological constraints within a predator-prey interaction: experimental analysis of the interaction between piscivore mouth gape and planktivore body depth and their roles in mediating the trophic cascade. Aquatic Ecosystems Program, Lehigh University, Lake Ariel, PA.

### **Meeting and Conference Participation (undergraduate and graduate students indicated)**

2018

Hooker, K.V., C. Li, D. Zhao, L. Krumholz, K.D. Hambright. Global survey of *Microcystis* bloom interactomes. Association for the Sciences of Limnology and Oceanography; Victoria, BC; 10-15 June.

2017

Pilla, R.M., C.E. Williamson, and 67 others. Global Trends in Lake Thermal Structure. 19<sup>th</sup> Annual meeting of the Global Lake Ecological Observatory Network; Mohonk Lake, NY; 27 November – 1 December 2017.

Hooker, Katherine V., T.C. Hallidayschult, J. Wang, J.E. Beyer, X. Xiao, and K.D. Hambright. Characterizing cyanobacteria blooms using remote sensing and non-traditional methods. 9<sup>th</sup> USHAB Symposium. Baltimore, MD; 11-17 November. **(Best Student Speed Talk)**.

Eakers, G., K.V. Hooker, K.D. Hambright. Estimating turbidity in Lake Thunderbird using surface reflectance from satellite imagery-Phase 1, Curiosity to Creativity Symposium, University of Oklahoma Office of the Vice President for Research, Norman, OK., July.

Eakers, G., K.V. Hooker, and K.D. Hambright. Estimating turbidity in Lake Thunderbird by using surface reflectance from satellite imagery. Oklahoma Louis Stokes Alliance for Minority Participation, National Science Foundation. Oklahoma Research Symposium, Stillwater OK, September. **(1<sup>st</sup> Place Life Science Poster Participation)**.

Acy, C., J.E. Beyer, E. Young, and K.D. Hambright. Where to stock?: Evaluating lakes stocked with Florida Largemouth Bass in Oklahoma. 04 February. Southern Division of the American Fisheries Society Spring Meeting, Oklahoma City, OK.

2016

Hambright, K.D., D.A. Caron, A. Jones, B. Allison-Witt, R.M. Zamor, F. Acosta, and J.E. Beyer. Whole food web restructuring by an ecosystem disruptive algal bloom species. 32<sup>nd</sup> Congress of the International Society of Limnology; Torino, Italy; 31 July-05 August.

Beyer, J.E., K.D. Hambright, D.A. Caron, A. Jones, B. Allison-Witt, R.M. Zamor, and F. Acosta. Whole food web effects of a harmful algal bloom (HAB) species. Arkansas Water Resources Center Annual Water Research Conference; Fayetteville, AR; 26-27 July. (Hambright invited, but unable to attend).

Hooker, K., T.C. Hallidayschult, J. Wang, J. Zhang, J.E. Beyer, B. Chien, D.L. Glidewell, X. Xiao, and K.D. Hambright. Detecting and characterizing cyanobacteria blooms using remote sensing and classification trees. Arkansas Water Resources Center Annual Water Research Conference; Fayetteville, AR; 26-27 July.

Pilla, R.M., C.E. Williamson, and 60 others. Long-term Patterns in Global Lake Thermal Structure. 18<sup>th</sup> Annual meeting of the Global Lake Ecological Observatory Network; Lunz & Gaming, Austria; 4-8 July 2016.

Beyer, J.E., R.M. Zamor, and K.D. Hambright. Predicting the presence of an invasive toxigenic algal species on a regional scale. Annual meeting of the Society for Freshwater Science; Sacramento, CA; 22-26 May.

Hambright, K.D., D.A. Caron, A. Jones, B. Allison-Witt, R.M. Zamor, F. Acosta, and J.E. Beyer. Whole food web restructuring by an ecosystem disruptive algal bloom species. Annual meeting of the Society for Freshwater Science; Sacramento, CA; 22-26 May.

Hooker, K., T.C. Hallidayschult, J. Wang, J. Zhang, J.E. Beyer, B. Chien, D.L. Glidewell, X. Xiao, and K.D. Hambright. Detecting and characterizing cyanobacteria blooms using remote sensing and classification trees. Annual meeting of the Society for Freshwater Science; Sacramento, CA; 22-26 May.

Hallidayschult, T.C., J.E. Beyer, and K.D. Hambright. Persistent ecosystem changes linked to zebra mussels in a subtropical reservoir. Annual meeting of the Society for Freshwater Science; Sacramento, CA; 22-26 May.

Hooker, K., T.C. Hallidayschult, J. Wang, J.E. Beyer, B. Chien, D.L. Glidewell, X. Xiao, and K.D. Hambright. Detecting and mapping cyanobacteria blooms using remote sensing and classification trees. 25<sup>th</sup> Annual Meeting-Oklahoma Clean Lakes and Watersheds Association; Stillwater, OK; 29-30 March.

2015

Acosta, F., B.A. Wawrik, and K.D. Hambright. Intra-individual heterogeneity in *Prymnesium parvum* ITS1 regions and its implications for the biogeography of a recent US invasion. 8<sup>th</sup> Symposium on Harmful Algae in the US; Long Beach, CA; 15-20 November.

Beyer, J.E. and K.D. Hambright. Negative effects of cyanobacteria exposure on survival and reproduction in the rotifer *Brachionus calyciflorus* within and across generations. XIV. International Rotifer Symposium, České Budějovice, Czech Republic; 30 August-04 September.

Hallidayschult, T.C. and K.D. Hambright. Evaluating the invasive Harris mud crab as a predator of zebra mussels. Annual meeting of the Society for Freshwater Science, Milwaukee, WI; 17-21 May 2015.

- Hambright, K.D., F. Acosta, R.M. Zamor, F.Z. Najar, B.A. Roe. Dynamics of an experimental microbial invasion. SEFS 9: Symposium for European Fresh Water Sciences, Geneva, Switzerland; 05-10 July.
- Allison, B., J.E. Beyer, T.C. Hallidayschult, K.D. Hambright. Effects of the toxigenic alga *Prymnesium parvum* on a zooplankton community. Universities Council on Water Resources/NIWR/CUAHSI joint conference; Las Vegas, NV; 16-18 June. **(Third place graduate student oral presentation)**.
- Allison, B., J.E. Beyer, T.C. Hallidayschult, K.D. Hambright. Effects of the toxigenic alga *Prymnesium parvum* on a zooplankton community assemblage. Oklahoma Invasive Species Conference, Norman, OK; 13 March. **(Second place oral presentation)**
- Shauburger, K., T.C. Hallidayschult, & K.D. Hambright. Experimental analysis of zebra mussels feeding on toxic and non-toxic algae. Oklahoma Invasive Species Conference, Norman, OK; 13 March.
- Hallidayschult, T.C. and K.D. Hambright. Evaluating the invasive Harris mud crab as a potential predator of zebra mussels. 24<sup>th</sup> Annual Meeting-Oklahoma Clean Lakes and Watersheds Association, Stillwater, OK; 08-09 April.
- Allison, B., J.E. Beyer, T.C. Hallidayschult, K.D. Hambright. Effects of the toxigenic alga *Prymnesium parvum* on a zooplankton community assemblage. 24<sup>th</sup> Annual Meeting-Oklahoma Clean Lakes and Watersheds Association, Stillwater, OK; 08-09 April.
- Allison, B., J.E. Beyer, T.C. Hallidayschult, K.D. Hambright. Effects of the toxigenic alga *Prymnesium parvum* on a zooplankton community. University of Oklahoma Graduate Student Research Day; Norman, OK; 6 March. **(First Place Science Category)**

## 2014

- Glidewell, D.L., J.E. Beyer, K. Shauburger, K.D. Hambright. The effects of food quality and quantity on reproduction in the rotifer *Brachionus calyciflorus*. Governor's Water Conference-Oklahoma Water Research Symposium, Oklahoma City, OK; 23-24 October. **(Outstanding undergraduate student poster)**.
- Allison, B., J.E. Beyer, T.C. Hallidayschult, K.D. Hambright. Effects of the toxigenic alga *Prymnesium parvum* on a zooplankton community assemblage. Governor's Water Conference-Oklahoma Water Research Symposium, Oklahoma City, OK; 23-24 October. **(Outstanding graduate student poster)**.
- Shauburger, K., T.C. Hallidayschult, J.E. Beyer, D. Glidewell, K.D. Hambright. Feeding response of zebra mussels to toxic and non-toxic cyanobacteria. Governor's Water Conference-Oklahoma Water Research Symposium, Oklahoma City, OK; 23-24 October.
- Hambright, K.D., X. Xiao, A. Dzialowski, T.C. Hallidayschult, J. Zhang, J. Wang. Remote sensing of water quality and harmful algae in Oklahoma's lakes. Governor's Water Conference-Oklahoma Water Research Symposium, Oklahoma City, OK; 23-24 October. **(invited presentation)**.
- Hambright, K.D., J.E. Beyer, J.D. Easton, R.M. Zamor, A.C. Easton, T.C. Hallidayschult. The niche of an invasive marine HAB in a southern US freshwater impoundment. Joint Aquatic Sciences Meeting, Portland, OR; 18-23 May.
- Beyer, J.E., T.C. Hallidayschult, D.L. Glidewell, K.D. Hambright. Interactive effects of cyanobacteria and maternal condition on survival, reproduction, and offspring provisioning in rotifers. Joint Aquatic Sciences Meeting, Portland, OR; 18-23 May.
- Hallidayschult, T.C., J.E. Beyer, K.D. Hambright. Range expansion leads to new challenges: zebra mussels in a subtropical reservoir. Joint Aquatic Sciences Meeting, Portland, OR; 18-23 May.
- Hambright, K.D., J.E. Beyer, J.D. Easton, R.M. Zamor, A.C. Easton, T.C. Hallidayschult. The ecological niche of the invasive golden alga, *Prymnesium parvum*, in Lake Texoma. 23<sup>rd</sup> Annual Meeting-Oklahoma Clean Lakes and Watersheds Association, Stillwater, OK; 02-03 April.
- Beyer, J.E., T.C. Hallidayschult, D.L. Glidewell, K.D. Hambright. Interactive effects of cyanobacteria and maternal condition on survival, reproduction, and offspring provisioning in rotifers. 23<sup>rd</sup> Annual Meeting-Oklahoma Clean Lakes and Watersheds Association, Stillwater, OK; 02-03 April.
- Hallidayschult, T.C., J.E. Beyer, K.D. Hambright. Range expansion leads to new challenges: zebra mussels in a subtropical reservoir. 23<sup>rd</sup> Annual Meeting-Oklahoma Clean Lakes and Watersheds Association, Stillwater, OK; 02-03 April.
- Zamor, R.M., N.R. Franssen, C. Porter, T.M. Patton, K.D. Hambright. Rapid fish assemblage recovery following an ecosystem disruptive bloom of Golden algae in Lake Texoma. 23<sup>rd</sup> Annual Meeting-Oklahoma Clean Lakes and Watersheds Association, Stillwater, OK; 02-03 April.



2013

- Zamor, R.M. and K.D. Hambricht. An experimental assessment of the importance of propagule pressure and community resistance on the invasion success of the toxigenic haptophyte *Prymnesium parvum*. 7<sup>th</sup> Symposium on Harmful Algae in the US; Sarasota, FL; 27-31 October.
- Hallidayschult, T.C., J.D. Easton, A.C. Easton, R.M. Zamor, K.L. Glenn, J.E. Beyer, E.J. Rimmel, K.D. Hambricht. Potential effects of zebra mussels in Lake Texoma, a large subtropical reservoir. 22<sup>nd</sup> Annual Meeting-Oklahoma Clean Lakes and Watersheds Association; Stillwater, OK; 17-18 April.
- Zohary, T., G. Gal, K.D. Hambricht. The food web of Lake Kinneret: A four-decadal retrospective. Israeli Association for Aquatic Sciences, Mikhmoret, Israel, 13-14 March.
- Hambricht, K.D., J.D. Easton, R.M. Zamor, A.C. Easton, K.L. Glenn, B. Allison, E.J. Rimmel, J.E. Beyer. Environmental regulation of growth and toxicity of *Prymnesium parvum*: Identification of a possible management strategy. Aquatic Sciences Meeting-Association for the Sciences of Limnology and Oceanography; New Orleans, LA; 17-23 February.
- Beyer, J.E., E.J. Rimmel, R.M. Zamor, J.D. Easton, A.C. Easton, K.L. Glenn, T.C. Hallidayschult, and K.D. Hambricht. Evidence of competition and predation affecting *Daphnia lumholtzi* abundances and morphology in Lake Texoma. Aquatic Sciences Meeting-Association for the Sciences of Limnology and Oceanography; New Orleans, LA; 17-23 February.
- Hallidayschult, T.C., J.D. Easton, A.C. Easton, R.M. Zamor, K.L. Glenn, J.E. Beyer, E.J. Rimmel, and K.D. Hambricht. Potential effects of zebra mussels in a large subtropical reservoir. Aquatic Sciences Meeting-Association for the Sciences of Limnology and Oceanography; New Orleans, LA; 17-23 February.
- Zamor, R.M. and K.D. Hambricht. Effects of propagule pressure and invasion resistance on establishment success of the toxic golden alga, *Prymnesium parvum*. Aquatic Sciences Meeting-Association for the Sciences of Limnology and Oceanography; New Orleans, LA; 17-23 February.
- Hambricht, K.D., X. Xiao, and A.R. Dzialowski. Remote sensing of water quality and harmful algae in Oklahoma's lakes. Oklahoma Water Resources Research Institute; January.

2012

- Zhang, J., J.D. Easton, S. Cadenhead, A.C. Easton, C.M. Biradar, K.D. Hambricht, and X. Xiao. The potential use of remote sensing and citizen science in the monitoring of water quality and harmful algae in Oklahoma's lakes. Annual Oklahoma Governor's Water Conference and Oklahoma Water Resources Institute Symposium, Tulsa, OK.
- Hambricht, K.D., J.D. Easton, R.M. Zamor, A.C. Easton, K.L. Glenn, B. Allison, E.J. Rimmel, J.E. Beyer. Environmental regulation of growth and toxicity of *Prymnesium parvum*. 37<sup>th</sup> Annual Great Plains Limnology Conference; University of Arkansas, Fayetteville, AR.
- Zamor, R.M. and K.D. Hambricht. Effects of propagule pressure and invasion resistance on establishment success of the toxic golden alga, *Prymnesium parvum*. 37<sup>th</sup> Annual Great Plains Limnology Conference; University of Arkansas, Fayetteville, AR.
- Hallidayschult, T.C., J.D. Easton, A.C. Easton, R.M. Zamor, K.L. Glenn, J.E. Beyer, and K.D. Hambricht Long term data from an Oklahoma reservoir: What do they tell us? 37<sup>th</sup> Annual Great Plains Limnology Conference; University of Arkansas, Fayetteville, AR.
- Beyer, J.E., E.J. Rimmel, R.M. Zamor, J.D. Easton, A.C. Easton, K.L. Glenn, T.C. Hallidayschult, and K.D. Hambricht Do competition and invertebrate predation affect *Daphnia lumholtzi* abundances and morphology in Lake Texoma. 37<sup>th</sup> Annual Great Plains Limnology Conference; University of Arkansas, Fayetteville, AR.
- Zamor, R.M., N.R. Franssen, C. Porter, T. Patton, and K.D. Hambricht. Temporal effects of a toxic algae (*Prymnesium parvum*) on fish communities in Lake Texoma (OK-TX), 32<sup>nd</sup> Annual Meeting - Oklahoma Chapter of the American Fisheries Society, Stillwater, OK.
- Hambricht, K.D. Harmful algal blooms in Oklahoma: the Lake Texoma experience, Grand River Dam Authority Watershed Conference, Langley, OK. **(invited)**
- Hambricht, K.D. Harmful algae in Oklahoma: an update, 21<sup>st</sup> Annual Meeting-Oklahoma Clean Lakes and Watersheds Association, Edmund, OK.

2011

- Zamor, R.M., K.L. Glenn, and K.D. Hambricht. Using DNA to track Golden Algae across Oklahoma. Annual meeting - Oklahoma Clean Lakes and Watersheds Association, Edmund, OK.

- Zamor, R.M., K.L. Glenn, and K.D. Hambright. Early-warning detection of the invasive, toxigenic golden alga, *Prymnesium parvum*. Annual meeting - American Society of Limnology and Oceanography, San Juan, Puerto Rico (abstract only).
- Zamor, R.M., K.L. Glenn, and K.D. Hambright. Using DNA to track Golden Algae across Oklahoma. Annual meeting - Oklahoma Clean Lakes and Watersheds Association, Lake Arcadia, OK.
- Hambright, K.D. Harmful algae in Oklahoma, Annual Oklahoma Governor's Water Conference and Oklahoma Water Resources Institute Symposium, Norman, OK.
- Hambright, K.D. and E.J. Rimmel. Toxin-assisted micropredation: Experimental evidence shows that contact micropredation rather than exotoxicity is the role of *Prymnesium* toxins. 4<sup>th</sup> Triennial Oklahoma-Texas Aquatics Research Group Meeting and the 36<sup>th</sup> Annual Great Plains Limnology Conference; University of Oklahoma Biological Station, Kingston, OK.
- Easton, J.D., A.C. Easton, K.L. Glenn, K.D. Hambright. Harmful algae in Lake Texoma. 4<sup>th</sup> Triennial Oklahoma-Texas Aquatics Research Group Meeting and the 36<sup>th</sup> Annual Great Plains Limnology Conference; University of Oklahoma Biological Station, Kingston, OK.
- Zamor, R.M., and Hambright, K.D. Putting microbial invaders into context by examining harmful algae at the landscape scale. 4<sup>th</sup> Triennial Oklahoma-Texas Aquatics Research Group Meeting and the 36<sup>th</sup> Annual Great Plains Limnology Conference; University of Oklahoma Biological Station, Kingston, OK.
- Jones A.C., V.T.S. Liao, K.D. Hambright and D.A. Caron. The effects of a harmful algal bloom on bacterial and protistan community composition and structure in a brackish lake. Moore Foundation Site Visit at the National Center for Genomic Resources. July.

## 2010

- Jones, A.C., A. Lee, K.D. Hambright, and D.A. Caron. Attack of the killer *Prymnesium*: Investigations into mixotrophic abilities of the toxic haptophyte, *Prymnesium parvum*. Annual ASLO Ocean Sciences Meeting, Portland, OR.
- Zamor, R.M., C. Porter, N.R. Franssen, E.J. Rimmel, T. Patton, and K.D. Hambright. Effects of the toxigenic golden algae (*Prymnesium parvum*) on fish communities in Lake Texoma (OK-TX). 4<sup>th</sup> Annual Midwest Student Fisheries Colloquium, Brookings, SD.
- Jones A.C., V.T.S. Liao, K.D. Hambright and D.A. Caron. The effects of a harmful algal bloom on bacterial and protistan community composition and structure in a brackish lake as revealed by pyrosequencing. Gordon Research Conference. July 2010.
- Hambright, K.D., R.M. Zamor, J.D. Easton, K.L. Glenn, E.J. Rimmel, and A.C. Easton. Temporal and spatial dynamics of an invasive toxigenic protist *Prymnesium parvum* in a subtropical North American reservoir. Annual meeting - North American Lake Management Society, Oklahoma City, OK. **(invited)**
- Zamor, R.M., K.L. Glenn, J.D. Easton, A.C. Easton, and K.D. Hambright. Using real-time qPCR to detect spatial patterns in *Prymnesium parvum* in subtropical watersheds and predicting future patterns using associated water quality variables. Annual meeting - North American Lake Management Society, Oklahoma City, OK.
- Rimmel, E.J., N. Kohmescher, J.H. Larson, and K.D. Hambright. Golden algae-zooplankton interactions and the ultimate grazing defense - kill your grazers. Annual meeting - North American Lake Management Society, Oklahoma City, OK.
- Hambright, K.D., E.J. Rimmel, N. Kohmescher, and J.H. Larson. Effects of the invasive, toxigenic protist, *Prymnesium parvum*, on grazing rates, feeding behaviors, and life history characteristics of daphniid zooplankton. Annual meeting - American Society of Limnology and Oceanography, Santa Fe, NM. **(invited)**
- Zamor, R.M., K.L. Glenn, J.D. Easton, A.C. Easton, and K.D. Hambright. Seasonal and spatial patterns in *Prymnesium parvum* in subtropical watershed as revealed by qPCR and predicted by environmental variability. Annual meeting - American Society of Limnology and Oceanography, Santa Fe, NM.

## 2009

- Hambright, K.D., R.M. Zamor, J.D. Easton, K.L. Glenn, E.J. Rimmel, and A.C. Easton. Dynamics of an invasive toxigenic protist in a subtropical reservoir: a possible role for hydrology. Annual meeting - Society for Environmental Toxicology and Chemistry, New Orleans, LA. **(invited)**
- Rimmel, E.J., J.C. Henrikson, and K.D. Hambright. Understanding confounding effects of food quality and toxicity of *Prymnesium parvum* (golden algae) to herbivorous zooplankton. 30<sup>th</sup> Annual Governor's Water Conference and 7<sup>th</sup> Annual Oklahoma Water Resources Research Symposium, Oklahoma City, OK.

- Henrikson, J.C., M.S. Gharfeh, K.D. Hambright, and R.H. Cichewicz. Assessing the chemical diversity and toxicological threat of the harmful alga, *Prymnesium parvum*, following its recent invasion into United States freshwater systems. 50<sup>th</sup> Anniversary Meeting - American Society of Pharmacognosy, Honolulu, HI.
- Chumchal, M.M., R.W. Drenner, and K.D. Hambright. Species-specific differences in mercury concentration and trophic position of planktivorous fish from Caddo Lake, Texas, USA. International Conference on Mercury as a Global Pollutant, Guiyang, China.
- Sukharnikov, L.O., F.Z. Najar, B.A. Roe, and K.D. Hambright. Abundance and diversity in freshwater bacterial assemblages correlate with lake trophic status. Centennial of Limnology at Cornell University, Ithaca, NY. **(Hambright invited)**
- Rommel, E.J., E. Pearsall, N. Kohmescher, J. Larson, J.D. Easton, A.C. Easton, and K.D. Hambright. Effects of toxigenic golden algae on feeding behaviors and life histories of daphniid zooplankton in Lake Texoma, TX-OK USA. Centennial of Limnology at Cornell University, Ithaca, NY.
- Zamor, R.M., K.L. Glenn, A.C. Easton, and K.D. Hambright. Using quantitative real-time PCR to assess the distribution of toxigenic golden algae in Lake Texoma (USA) and its watershed. Centennial of Limnology at Cornell University, Ithaca, NY.
- Hambright, K.D. Golden algae research in Lake Texoma, Oklahoma. Panel speaker - *Aquatic Invasive Species Workshop*, 29<sup>th</sup> Annual Meeting - Oklahoma Chapter of the American Fisheries Society, Ardmore, OK. **(invited)**
- Hambright, K.D. Characterization of golden algal toxins: factors regulating toxin production and toxicity to fish and zooplankton. 2<sup>nd</sup> International Golden Alga Symposium, Ft. Worth, TX. **(invited)**
- Hambright, K.D., J., Easton, R.M. Zamor, A. Easton, and K.L. Glenn. Blooms of toxigenic *Prymnesium parvum* in Lake Texoma: What can we learn from environmental monitoring? 2<sup>nd</sup> International Golden Alga Symposium, Ft. Worth, TX. **(invited)**
- Zamor, R.M., K.L. Glenn, and K.D. Hambright. Using quantitative real-time PCR to assess the distribution of toxigenic golden algae in Lake Texoma (USA) and its watershed. 2<sup>nd</sup> International Golden Alga Symposium, Ft. Worth, TX.
- Rommel, E.J., E. Pearsall, N. Kohmescher, J. Larson, J.D. Easton, A.C. Easton, and K. D. Hambright. Effects of toxigenic golden algae on feeding behaviors and life histories of daphniid zooplankton in Lake Texoma, TX-OK USA. 2<sup>nd</sup> International Golden Alga Symposium, Ft. Worth, TX.
- 2008
- Zamor, R.M., K.L. Glenn, and K.D. Hambright. Abiotic factors influence the distribution of toxic golden algae (*Prymnesium parvum*) in the Red River basin (OK-TX). 3<sup>rd</sup> Triennial Oklahoma-Texas Aquatics Research Group Meeting and the 35<sup>th</sup> Annual Great Plains Limnology Conference, OU Biological Station, Kingston, OK.
- Rommel, E.J., E. Pearsall, N. Kohmescher, J. Larson, J.D. Easton, A.C. Easton, and K.D. Hambright. Effects of toxigenic golden algae on feeding behaviors and life histories of herbivorous zooplankton. 3<sup>rd</sup> Triennial Oklahoma-Texas Aquatics Research Group Meeting and the 35<sup>th</sup> Annual Great Plains Limnology Conference, OU Biological Station, Kingston, OK.
- Allison, B., K.L. Glenn, J.D. Easton, R.M. Zamor, A.C. Easton, and K.D. Hambright. Effects of abrupt salinity changes on *Prymnesium parvum*. 3<sup>rd</sup> Triennial Oklahoma-Texas Aquatics Research Group Meeting and the 35<sup>th</sup> Annual Great Plains Limnology Conference, OU Biological Station, Kingston, OK.
- Easton, J.D., K.D. Hambright, R.M. Zamor, A. Easton, and K.L. Glenn. Blooms of toxigenic *Prymnesium parvum* in Lake Texoma: What can we learn from environmental monitoring? 3<sup>rd</sup> Triennial Oklahoma-Texas Aquatics Research Group Meeting and the 35<sup>th</sup> Annual Great Plains Limnology Conference, University of Oklahoma Biological Station, Kingston, OK.
- Chumchal, M.M., R.W. Drenner, and K.D. Hambright. Species-specific differences in mercury concentrations of planktivorous fish are related to differences in trophic position. 3<sup>rd</sup> Triennial Oklahoma-Texas Aquatics Research Group Meeting and the 35<sup>th</sup> Annual Great Plains Limnology Conference, University of Oklahoma Biological Station, Kingston, OK.
- Jones, A.C., A. Lee, K.D. Hambright and D.A. Caron. Attack of the Killer *Prymnesium*: Experiments to examine the Mixotrophic Abilities of the Toxic Haptophyte, *Prymnesium parvum*. Biology Interdepartmental Graduate Symposium USC. May.

Rommel, E.J., E. Pearsall, N. Kohmescher, J. Larson, J.D. Easton, A.C. Easton, and K.D. Hambricht. Effects of toxigenic golden algae on feeding behaviors and life histories of herbivorous zooplankton. 17<sup>th</sup> Annual Meeting-Oklahoma Clean Lakes and Watersheds Association, Tulsa, OK.

Hambricht, K.D. Plankton ecology in the last quarter century: have *Daphnia* led us astray? Annual meeting - American Society of Limnology and Oceanography, St. John's, Newfoundland, Canada. **(invited)**

Easton, J.D., K.D. Hambricht, R.M. Zamor, A. Easton, and K.L. Glenn. Blooms of toxigenic *Prymnesium parvum* in Lake Texoma: What can we learn from environmental monitoring? Annual meeting - American Society of Limnology and Oceanography, St. John's, Newfoundland, Canada.

## 2007

Rommel, E.J., E. Pearsall, N. Kohmescher, J. Larson, J. Easton, A. Easton, and K.D. Hambricht. Possible toxic effects of golden algae (*Prymnesium parvum*) on zooplankton feeding behaviors and life histories in Lake Texoma. 28<sup>th</sup> Annual Governor's Water Conference and 5<sup>th</sup> Annual Oklahoma Water Resources Research Institute Water Research Symposium, Oklahoma City, OK.

Zamor, R.M., E.J. Rommel, E. Pearsall, N. Kohmescher, J. Larson, J. Easton, A. Easton, and K.D. Hambricht. Golden algae (*Prymnesium parvum*) in Lake Texoma, OK-TX: monitoring bloom conditions and the implications of its toxic effects on fish and zooplankton survivorship. 28<sup>th</sup> Annual Governor's Water Conference and 5<sup>th</sup> Annual Oklahoma Water Resources Research Institute Water Research Symposium, Oklahoma City, OK.

Kohmescher, N. and K.D. Hambricht. *Prymnesium parvum* toxicity to Lake Texoma *Daphnia*. 16<sup>th</sup> Annual Meeting-Oklahoma Clean Lakes and Watersheds Association; Tahlequah, OK.

Hambricht, K.D., J. Easton, N. Kohmescher, R.M. Zamor, and A. Easton. Invasive and toxic: *Prymnesium parvum* moves northward into Oklahoman waters. Annual meeting - American Society of Limnology and Oceanography, Santa Fe, NM.

Chumchal, M.M., R.W. Drenner, L. Newland, B. Fry, and K.D. Hambricht. Habitat-specific differences in mercury concentrations of largemouth bass from Caddo Lake. Joint Meeting - South Central Society of Environmental Toxicology and Chemistry and the Texas River and Reservoir Management Society. Nacogdoches, Texas.

## 2006

Easton, J., K.D. Hambricht, N. Kohmescher, R.M. Zamor, and A. Easton. Toxicological and ecological role of *Prymnesium parvum* in Lake Texoma. 31<sup>st</sup> Annual Great Plains Limnology Conference, Kansas State University, Manhattan, KS.

Chumchal, M.M., R.W. Drenner, B. Fry, D.J. Lutz-Carrillo, K.D. Hambricht, W.C. McClain, and L. Newland. Mercury concentrations in fish from Caddo Lake, Texas. Joint Meeting - Southern Division and Texas Chapter of the American Fisheries Society, San Antonio, TX.

Chumchal, M.M., R.W. Drenner, B. Fry, D.J. Lutz-Carrillo, K.D. Hambricht, W.C. McClain, and L. Newland. Mercury concentrations in fish from Caddo Lake, Texas. Texas Academy of Science Annual Meeting, Beaumont, TX.

Chumchal, M.M., R.W. Drenner, B. Fry, D.J. Lutz-Carrillo, K.D. Hambricht, W.C. McClain, and L. Newland. Mercury concentrations in fish from Caddo Lake, Texas. Eighth International Conference on Mercury as a Global Pollutant, Madison, WI.

Hambricht, K.D. Relative roles of microbial and crustacean grazers in carbon and nutrient fluxes in freshwater food webs. Annual meeting - American Society of Limnology and Oceanography, Victoria, B.C., Canada. **(invited)**

Hargrave, C.W., K.D. Hambricht, and L.J. Weider. Genetic diversity effects on ecosystem function: grazing rates in clonal versus nonclonal *Daphnia* assemblages. Annual meeting - American Society of Limnology and Oceanography, Victoria, B.C., Canada.

## 2005

Zohary, T., M. Shneor and K.D. Hambricht. PlanktoMetrix-a computerized system for plankton microscope enumeration, measurement, biovolume computation, and data storage. 14<sup>th</sup> IAP Workshop, Sapanca, Turkey.

Chumchal, M.M., R.W. Drenner, B. Fry, D.J. Lutz-Carrillo, K.D. Hambricht, W.C. McClain and L. Newland. Mercury concentrations in fish from Caddo Lake, Texas. Joint meeting - Oklahoma-Texas Aquatic Research Group and the Texas River and Reservoir Management Society, Kingston, Oklahoma.

Chumchal, M.M., W.C. McClain, A. Davis, R.W. Drenner, K.D. Hambright, and L. Newland. Effect of sample size and non-random samples on the issuance of fish advisories Texas River and Reservoir Management Society, Waco, TX.

Hambright, K.D. Long-term zooplankton body size and species changes in Lake Kinneret, Israel. Annual meeting - American Society of Limnology and Oceanography, Santiago de Compostela, Spain.

Chumchal, M.M., K. D. Hambright, W. C. McClain, R. W. Drenner, and D. Cross. Do fish advisories accurately convey risk? Effect of small sample size and species specific advisories. Annual Meeting - Texas Chapter of the American Fisheries Society, Grapevine, TX.

Chumchal, M.M., K.D. Hambright, W.C. McClain, R.W. Drenner, and D. Cross. Do fish advisories accurately convey risk? Effect of small sample size and species specific advisories. Annual Meeting - Texas Academy of Sciences, Edinburg, TX.

### 2003

Hambright, K.D., T. Zohary, and H. Güde. Experimental analysis of zooplankton grazing and nutrient remineralization in Lake Kinneret, Israel. 3<sup>rd</sup> Symposium for European Freshwater Sciences, Edinburgh, Scotland.

### 2002

Drenner, R.W. and K.D. Hambright. Piscivores, trophic cascades and lake management. Annual meeting - American Society of Limnology and Oceanography, Victoria, BC, Canada.

Hambright, K.D., T. Zohary, and H. Güde. Experimental analysis of zooplankton grazing and nutrient remineralization in Lake Kinneret, Israel. Joint meeting - Oklahoma-Texas Aquatics Research Group and the 29<sup>th</sup> Annual Great Plains Limnology Conference, OU Biological Station, Kingston, OK.

Hambright, K.D. and J. Yoon. Zooplankton of Lake Texoma. Joint meeting - Oklahoma-Texas Aquatics Research Group and the 29<sup>th</sup> Annual Great Plains Limnology Conference, OU Biological Station, Kingston, OK.

Drenner, R.W. and K.D. Hambright. Piscivores, trophic cascades and lake management. Joint meeting - Oklahoma-Texas Aquatics Research Group and the 29<sup>th</sup> Annual Great Plains Limnology Conference, OU Biological Station, Kingston, OK.

### 2001

Ostapenya, A., A. Parparov, K.D. Hambright, L. Håkanson and V. Bullion. Principles and approaches to system engineering of parameters of water quality in lakes on an example of lakes Naroch group in Belarus, Russian Hydrobiological Society, Kalliningrad, Russia.

Eckert, W., K.D. Hambright, Y.Z. Yacobi, I. Ostrovsky, and A. Sukenik. Internal wave induced changes in the chemical stratification in relation to the thermal structure in Lake Kinneret. 28<sup>th</sup> Societas Internationalis Limnologiae Conference, Melbourne, Australia.

Hambright, K.D., T. Zohary, and H. Güde. Experimental analysis of zooplankton grazing and predation in Lake Kinneret. Annual meeting - American Society of Limnology and Oceanography, Albuquerque, NM.

Zohary, T., K.D. Hambright, and H. Güde. Phytoplankton species specific grazing losses to micro- and macro-zooplankton in Lake Kinneret. Annual meeting - American Society of Limnology and Oceanography, Albuquerque, NM.

Blumenshine, S.C. and K.D. Hambright. Filter feeding fishes: a link between water quality and fisheries management? Annual meeting - American Society of Limnology and Oceanography, Albuquerque, NM.

Parparov, A., K.D. Hambright, A.P. Ostapenya, and L. Håkanson. Quantification of water quality in Lake Kinneret (Israel) and Naroch Lakes (Belarus). Annual meeting - North American Lake Management Society, Madison, WI.

### 2000

Hambright, K.D., W. Eckert, P.R. Leavitt, T. Zohary, and S.S. Schwartz. Hydrologic controls of P accumulation in Lake Kinneret: role of dams and diversions in regulating lake productivity. Annual meeting - American Society of Limnology and Oceanography, Copenhagen, Denmark.

Zohary, T. and K.D. Hambright. *Aphanizomenon* blooms in Lake Kinneret: responses to nutrient additions and zooplankton grazing. Annual meeting - American Society of Limnology and Oceanography, Copenhagen, Denmark.

Schwartz, S.S. and K.D. Hambright. Revelations on the structure of *Bosmina* populations in Lake Kinneret, Israel. Annual meeting - Ecological Society of America, Snowbird, UT.

#### 1998

Hambright, K.D., W. Eckert, and I. Bar-Ilan. Phosphorus and water quality in newly created Lake Agmon (Agmon-Hula wetlands), Israel. 27<sup>th</sup> Societas Internationalis Limnologiae Conference, Dublin, Ireland.

Hambright, K.D., W. Eckert, P.R. Leavitt, T. Zohary, and S.S. Schwartz. Paleolimnology in Lake Kinneret: a 100 year record. 30<sup>th</sup> Anniversary Kinneret Limnological Laboratory Symposium, Ginnosar, Israel.

#### 1997

Drenner, R.W. and K.D. Hambright. The ups and downs of biomanipulation. Annual meeting - North Texas Limnology Group, Arlington, TX.

#### 1996

Hambright, K.D. and T. Zohary. Phytoplankton species diversity control through competitive exclusion and intermediate disturbances. Annual meeting - American Society of Limnology and Oceanography, Milwaukee, WI.

Hambright, K.D. and I. Bar-Ilan. General water chemistry of the New Hula Lake. 6th International Conference of the Israeli Society for Ecology and Environmental Quality Sciences, Jerusalem, Israel.

Parparov, A., K.D. Hambright, and T. Berman. Limnological studies as part of the management framework for lakes with variable morphometry. 6<sup>th</sup> International Conference of the Israeli Society for Ecology and Environmental Quality Sciences, Jerusalem, Israel.

Hambright, K.D. and T. Zohary. Hula: a newly reflooded wetland ecosystem in the Lake Kinneret watershed (Israel). International Congress of Ecology 5<sup>th</sup> International Wetlands Conference, Perth, Australia.

Zohary, T. and K.D. Hambright. Hula: limnology of a restored wetland ecosystem in Israel. International Congress of Ecology 5<sup>th</sup> International Wetlands Conference, Perth, Australia.

#### 1995

Berman, T., T. Bernstein-Dan, W. Eckert, M. Gophen, O. Hadas, K.D. Hambright, A. Nishri, I. Ostrovsky, A. Parparov, R. Parparova, U. Pollinger, Y.Z. Yacobi, P. Walline, T. Zohary. *Aphanizomenon* in Lake Kinneret (Israel). Annual meeting - American Society of Limnology and Oceanography, Reno, NV.

#### 1994

Zohary, T., A.M. Pais-Madeira, R. Robarts, and K.D. Hambright. Cyanobacteria-phytoplankton dynamics of a hypertrophic African lake. IAWQ-SIL Special Conference, Selection Mechanisms Controlling Biomass Distribution between Phytoplankton, Cyanobacteria, and Macrophyte species, Amsterdam, The Netherlands.

Hambright, K.D., M. Gophen, T. Zohary, O. Hadas, J.D. Easton, and B. Azoulay. Plankton consumption by fish and zooplankton. Annual meeting - American Society of Limnology and Oceanography, Miami, FL.

Sandler, A., K.D. Hambright, I. Brenner, and L. Halicz. Temporal and vertical patterns of trace and major elements in Lake Kinneret, Israel. Annual meeting - Geological Society of Israel, Ginnosar, Israel.

#### 1993

Hambright, K.D., M. Gophen, and S. Serruya. Influence of long-term climatic changes on the thermal dynamics of Lake Kinneret. Annual meeting - American Society of Limnology and Oceanography, Edmonton, AL, Canada.

#### 1991

Hambright, K.D. Role of alternate planktivorous fishes in piscivore-mediated trophic cascading effects. Annual meeting - American Society of Limnology and Oceanography, Halifax, NS, Canada.

#### 1990

Hambright, K.D. Experimental analysis of the trophic cascade hypothesis. Annual meeting - American Society of Limnology and Oceanography, Williamsburg, VA.

Hambright, K.D. Experimental analysis of prey selection by largemouth bass: role of bass mouth width and prey body depth. Poconos Comparative Lakes Program, Lake Ariel, PA.

1989

Morin, A., K.D. Hambright, N.G. Hairston, Jr., D.M. Sherman, and R.W. Howarth. Consumer control of gross primary production in replicate freshwater ponds. 24<sup>th</sup> Societas Internationalis Limnologiae Conference, Munich, Germany.

1988

Hambright, K.D., R.W. Drenner, S.R. McComas, and N.G. Hairston. Gape-limited piscivores, prey size refuges, and the trophic cascade. Annual meeting - American Society of Limnology and Oceanography, Boulder, CO.

1986

Drenner, R.W., G.L. Vinyard, M. Gophen, U. Pollinger and K.D. Hambright. Size-selective particle grazing by a filter-feeding cichlid: effects of surgical removal of gill rakers and microbranchiospines. Joint meeting, 4<sup>th</sup> International Congress of Ecology and 71<sup>st</sup> Annual meeting - Ecological Society of America, Syracuse, NY.

1985

Trebatoski, R.J., K.D. Hambright, R.W. Drenner and D. Kettle. Effect of bass predation on bluegill impact on plankton community structure: a test of a cascading effects hypothesis. Annual meeting - American Society of Limnology and Oceanography, Madison, WI.

Trebatoski, R.J., K.D. Hambright, R.W. Drenner and D. Kettle. Piscivorous and planktivorous fish impacts on plankton community structure. 88<sup>th</sup> Annual meeting - Texas Academy of Sciences, Dallas, TX.

Hambright, K.D., B.T. Trebatoski, R.W. Drenner and D. Kettle. An experimental study of the impacts of bluegill (*Lepomis macrochirus*) and largemouth bass (*Micropterus salmoides*) on pond community structure. 12<sup>th</sup> Annual Great Plains Limnology Conference, Fayetteville, AR.

1984

Hambright, K.D., B.T. Trebatoski, R.W. Drenner and D. Kettle. Bluegill impact on zooplankton community structure: effects of piscivory. Annual meeting - American Society of Ichthyologists and Herpetologists, Norman, OK.

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## PUBLICATIONS

### Peer-reviewed articles and book chapters (undergraduate and graduate students indicated)

77. Xu, H., D. Zhao, R. Huang, X. Cao, J. Zeng, Z. Yu, K.V. Hooker, K.D. Hambright, and Q. Wu. 2018. Contrasting network features between free-living and particle-attached bacterial communities in Taihu Lake. *Microbial Ecology*. (DOI: [10.1007/s00248-017-1131-7](https://doi.org/10.1007/s00248-017-1131-7); PMID: [29318328](https://pubmed.ncbi.nlm.nih.gov/29318328/))
76. Jones, A.C., K.D. Hambright, and D.A. Caron. 2017. Ecological patterns among bacteria and microbial eukaryotes derived from network analyses in a low salinity lake. *Microbial Ecology*. (DOI: [10.1007/s00248-017-1087-7](https://doi.org/10.1007/s00248-017-1087-7); PMID: [29110066](https://pubmed.ncbi.nlm.nih.gov/29110066/)).
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