

TEXAS STATE VITA

I. Academic/Professional Background

A. Name: Weston H. Nowlin

Title: Associate Professor

B. Educational Background

Degree	Year	University	Major	Thesis/Dissertation
PhD	2003	University of Victoria, BC Canada	Biology	Phosphorus dynamics in coastal and inland lakes and reservoirs of British Columbia with special reference to water level fluctuation and climate variability
MS	1998	Texas Christian University	Biology	Context-dependent effects of bluegill in experimental mesocosm communities
BA	1996	Austin College	Biology	N/A

C. University Experience

Position	University	Dates
Associate Professor	Texas State University, Department of Biology	2011-Present
Assistant Professor	Texas State University, Department of Biology	2005 - 2011
Postdoctoral Research Scholar	Miami University	2003-2005
Course Lecturer	Miami University	2004
Graduate Research Assistant	University of Victoria	1999-2003
Departmental Teaching Assistant	University of Victoria	1999-2002
Graduate Research Assistant	Texas Christian University	1997-1998
Departmental Teaching Assistant	Texas Christian University	1997-1998

D. Relevant Professional Experience

Position	Entity	Dates
Science Teacher	Mansfield High School (Mansfield, Texas)	Jan-May 1999

II. TEACHING

A. Teaching Honors and Awards:

N/A

B. Courses Taught:

Wetlands Ecology (BIO 7422)
Community and Ecosystem Ecology (BIO 7360R)
General Ecology (BIO 4416)
Graduate Research (BIO 5214)
Undergraduate Research (BIO 4299)
Seminar in Aquatic Resources (BIO 7102)

C. Graduate Theses/Dissertations or Exit Committees:

Theses and Dissertations Directed

A Carroll. *In progress*. TBD. Texas State University, MS – Aquatic Resources.

R Zawalski. *In progress*. TBD. Texas State University, MS – Population and Conservation Biology.

P Nair. *In progress*. Abundance, distribution, and ecophysiology of stygofaunal organisms in a karst aquifer: Implications for future water development in the Edwards Aquifer. Texas State University, PhD – Aquatic Resources.

N Krupka. *In progress*. Relationship between stygobiont diversity and ecosystem function in a karst aquifer. Texas State University, MS – Aquatic Resources.

LA Loney. *In progress*. Nutrient recycling and stoichiometry of stygobiont invertebrates in a karst aquifer system. Texas State University, MS – Aquatic Resources.

K Hoesel. *Leave of absence*. Effects of invasive floating vegetation on the nutrient dynamics of a spring-influenced ecosystem. Texas State University, MS – Aquatic Resources.

AE Everett. *Graduated May 2015*. Nutrient limitation of algal and bacterial communities across a trophic gradient. Texas State University, MS – Aquatic Resources.

AP Swink. *Graduated May 2014*. Phosphorus uptake in karstic spring-fed rivers of central Texas. Texas State University, MS – Aquatic Resources.

JC Becker. *Graduated August 2013*. Biogeochemistry and microbial diversity of a Gulf-slope drainage. Texas State University. Ph.D – Aquatic Resources.

KJ Rodibaugh. *Graduated December 2012*. Landscape-level patterns in ecosystem metabolism of an arid and semi-arid river system. Texas State University, MS – Aquatic Resources.

AA Abuzeineh. *Graduated December 2012*. Cross system transport of organic matter and contaminants in semi-arid and arid lotic ecosystems. Texas State University. PhD – Aquatic Resources.

CM LeBoeuf. *Graduated May 2010*. The effects of invasive species and eutrophication on the nutrient dynamics of a spring-fed river ecosystem. Texas State University, MS – Aquatic Resources.

PH Diaz. *Graduated May 2010*. Trophic ecology and habitat use of the San Marcos Salamander. Texas State University. Texas State University, MS – Aquatic Resources.

CL Pray. *Graduated December 2009*. Ecosystem impacts of the exotic armored catfish in the San Marcos River. Texas State University, MS – Aquatic Resources.

A Smith. *Graduated May 2009*. Spatial distribution and factors affecting Hg levels in food webs of the Rio Grande and Pecos River. Texas State University. MS – Population and Conservation Biology.

CB Caston. *Graduated May 2008*. The relative importance of bacteria and algae in reservoir carbon cycling. Texas State University, MS – Aquatic Resources.

Service as Committee Member

Ovie Agare (Hardy). *In progress*. Texas State University, MS – Aquatic Resources.

Michele Crawford (Hardy). *In progress*. Texas State University, PhD – Aquatic Resources.

Chasity Stinson (Schwartz). *In progress*. Texas State University, MS – Aquatic Resources.

Michael Markowski (Schwartz). *In progress*. Texas State University, MS – Aquatic Resources.

Jenae Olson (Schwalb). *In progress*. Texas State University, MS – Aquatic Resources.

Suzanne Whitney (Veech). *Graduated 2015*. Texas State University, PhD – Aquatic Resources.

Duane Friedman (Tomasso). *Graduated 2015*. Texas State University, MS – Aquatic Resources.

Jacob Bilbo (Hardy). *Graduated 2015*. Texas State University, MS – Aquatic Resources.

Benjamin Hutchins (Schwartz). *Graduated 2013*. Texas State University, PhD – Aquatic Resources.

Benjamin Tobin (Schwartz). *Graduated 2013*. Texas State University, PhD – Aquatic Resources.

William Cocke (Chumchal). *Graduated 2013*. Texas Christian University, MS – Biology.

Preston Bean (Bonner). *Graduated 2012*. Texas State University, PhD – Aquatic Resources.

Brett Girard (Schwartz). *Graduated 2012*. Texas State University, MS – Aquatic Resources.

Frances Lash (Zhang). *Graduated 2011*. Texas State University, MS – Aquatic Resources.

Zachary Shattuck (Bonner). *Graduated 2010*. Texas State University, MS – Aquatic Resources.

Jesse Becker (Groeger). *Graduated 2010*. Texas State University, MS – Aquatic Resources.

Susanna Scott (Zhang). *Graduated 2010*. Texas State University, MS – Aquatic Resources.

Clara Folb (Bonner). *Graduated 2010*. Texas State University, MS – Aquatic Resources.

Katrina Cohen (Bonner). *Graduated 2008*. Texas State University, MS – Aquatic Resources.

Jamie Meyer (Longley). *Graduated 2008*. Texas State University, MS – Aquatic Resources.

Tom Heard (Bonner). *Graduated 2008*. Texas State University, MS – Aquatic Resources.

Dennis Runyan (Bonner). *Graduated 2007*. Texas State University, MS – Aquatic Resources.

Rebecca Marfurt (Bonner). *Graduated 2007*. Texas State University, MS – Aquatic Resources.

D. Courses Prepared and Curriculum Development:

Wetlands Ecology (BIO 7422) – Lecture and Lab Materials

General Ecology (BIO 4416) – Lecture and Lab Materials

Community and Ecosystem Ecology (BIO 7360R) – Lecture Materials

Seminar in Aquatic Resources (BIO 7102) – Readings and Lecture Materials

E. Funded External Teaching Grants and Contracts:

N/A

F. Submitted, but not Funded, External Teaching Grants and Contracts:

N/A

G. Funded Internal Teaching Grants and Contracts:

N/A

H. Submitted, but not Funded, Internal Teaching Grants and Contracts:

N/A

I. Other:

Guest Lecturer, Department of Biology, Texas State University, Environmental Physiology course, December 2014

Guest Lecturer, Department of Biology, Texas State University, Aquatic Biology course, October 2014

Guest Lecturer, Department of Biology, Texas State University, Aquatic Biology course, October 2013

Guest Lecturer, Department of Biology, Texas State University, Aquatic Biology course, October 2006

Guest Lecturer, Department of Biology, Texas State University, Biometry course, February 2006

Guest Lecturer, Department of Biology, Texas State University, Graduate Seminar “How I Became a Scientist”, November 2005

Attended Program for Excellence in Teaching and Learning, Texas State University, Sept 2005 - May 2006

III. SCHOLARLY/CREATIVE

A. Works in Print

1. Books:

a. Scholarly Monographs:

N/A

b. Textbooks:

N/A

c. Edited Books:

N/A

d. Chapters in Books:

N/A

e. Creative Books:

N/A

2. Articles

a. Refereed Journal Articles:

***, †, ‡ and § denote PhD, Masters, undergraduates and technicians in my lab, respectively**

Becker, JC*, KJ Rodibaugh†, D Hahn, and WH Nowlin. *In review*. Bacterial carbon metabolism and biogeography in a sub-tropical riverscape. *Hydrobiologia*.

Hutchins, BT, AS Engel, WH Nowlin, and BF Schwartz. *Accepted*. Chemolithoautotrophy support subterranean foodwebs and influences diversity and stability of stygobiont communities. *Ecology*.

Diaz, PH†, JN Fries, TH Bonner, MA Alexander, and WH Nowlin. 2015. Mesohabitat associations of the threatened San Marcos salamander (*Eurycea nana*) across its geographic range. *Aquatic Conservation: Marine and Freshwater Ecosystems*. 25:307-321.

Datri, CW†, CL Pray†, Y Zhang, and WH Nowlin. 2015. Nutrient enrichment scarcely affects ecosystem impacts of a non-native herbivore in a spring-fed river. *Freshwater Biology*. 60:551-562. (In Special Issue: *Synthesizing ecosystem-level effects of consumer-driven nutrient dynamics in fresh waters*).

Hutchins, BT, BF Schwartz, and WH Nowlin. 2014. Morphological and trophic specialization in a subterranean amphipod assemblage. *Freshwater Biology*. 59:2447-2461.

Becker, JC*, KJ Rodibaugh†, BJ Labay, TH Bonner, Y Zhang, and WH Nowlin. 2014. Physiographic gradients determine nutrient concentrations more than land use in a Gulf Slope (USA) system. *Freshwater Science*. 33:731-744.

Brown, DJ, WH Nowlin, E Ozel, I Mali, D Episcopo, MC Jones, MR Forstner. 2013. Comparison of short term low, moderate, and high severity fire impacts to aquatic and terrestrial ecosystem components of a southern USA mixed pine/hardwood forest. *Forest Ecology and Management*. 312:179-192.

Diaz, PH†, MR Forstner, and WH Nowlin. 2012. Survey of aquatic macroinvertebrates in a National Wetland area in Bastrop County, Texas. *Texas Journal of Science*. 64:57-72. (Published in 2015).

Capps, KA, CL Atkinson, A Rugetski, C Baxter, KS Boersma, CC Carey, PB McIntyre, JW Moore, WH Nowlin, and CC Vaughn. 2012. Organized oral session: Impacts of species addition and species loss on ecosystem function in freshwater systems. *Bulletin of the Ecological Society of America*. 93:402-408.

Jones, TA, MM Chumchal, RW Drenner, GN Timmins§, and WH Nowlin. 2012. Bottom-up nutrient and top-down fish impacts on contaminant flux from aquatic ecosystems. *Environmental Toxicology and Chemistry*. 32:1-7.

Brown, DR, B DeVold, WH Nowlin, and M Forstner. 2012. Ants in Houston toad habitat: annual activity and responses to canopy cover and fire. *Journal of Fish and Wildlife Management*. 3:870-876.

Scott, SE, CL Pray†, WH Nowlin, and Y Zhang. 2012. Effects of native and introduced consumers on stream ecosystem function. *Aquatic Sciences*. 74:793-808.

Henderson, BL, MM Chumchal, RW Drenner, PH Diaz†, and WH Nowlin. 2012. Mercury contamination of macroinvertebrates from grassland ponds with and without fish. *Environmental Toxicology and Chemistry*. 31:870-876.

- Becker, JC*, AW Groeger, WH Nowlin, MM Chumchal, and D Hahn. 2011. Spatial variability in the speciation and bioaccumulation of mercury in an arid subtropical reservoir ecosystem. *Environmental Toxicology and Chemistry*. 30:2300-2311.
- Pound, KL, TH Bonner, WH Nowlin, and DG Huffman. 2011. Trophic ecology of a nonnative population of suckermouth catfishes (*Hypostomus*) in a central Texas spring-fed stream. *Environmental Biology of Fishes*. 90:277-285.
- Davies, JM, WH Nowlin, B Matthews, and A Mazumder. 2010. Temporal discontinuity of nutrient limitation in plankton communities. *Aquatic Sciences*. 72:393-402.
- Smith, A†, A Abuzeineh*, MM Chumchal, TH Bonner, and WH Nowlin. 2010. Mercury contamination of the fish community of a semi-arid and arid river system: Spatial variation and the influence of environmental gradients. *Environmental Toxicology and Chemistry*. 29:1762-1772.
- Caston CB†, WH Nowlin, A Gaulke, and MJ Vanni. 2009. The relative importance of heterotrophic bacteria to pelagic ecosystem dynamics varies with reservoir trophic state. 2009. *Limnology and Oceanography* 54:2143-2156.
- Pray, CL*, WH Nowlin, and MJ Vanni. 2009. Deposition and decomposition of periodical cicadas (Homoptera: Cicadidae) in woodland aquatic systems. *Journal of the North American Benthological Society* 28:181-195.
- Nowlin, WH, MJ Vanni and LH Yang. 2008. Comparing resource pulses in aquatic and terrestrial systems. *Ecology* 89:647-659.
- Nowlin, WH, MJ González, MHH Stevens, MJ Vanni, MW Fields and JJ Valente. 2007. Allochthonous subsidy of periodical cicadas affects dynamics and stability of pond communities. *Ecology* 88:2174-2186.
- Nowlin, WH, J-M Davies and A Mazumder. 2007. Planktonic phosphorus pool sizes and cycling efficiency in coastal and interior British Columbia lakes. *Freshwater Biology* 52: 860-877.
- Nowlin, WH, RW Drenner, KR Guckenberger, M Lauden, T Alonso, JE Fennell and JL Smith. 2006. Gape limitation, prey size refuges and the top-down impacts of piscivorous largemouth bass in shallow pond ecosystems. *Hydrobiologia* 563: 357-369.
- Chumchal, M, WH Nowlin, RW Drenner and S Mann. 2005. Biomass-dependent effects of common carp on water quality in shallow ponds. *Hydrobiologia* 545: 271-277.
- Nowlin, WH, JL Evarts and MJ Vanni. 2005. Release rates and potential fates of nitrogen and phosphorus from sediments in a eutrophic reservoir. *Freshwater Biology* 50: 301-322.
- Davies, J-M, WH Nowlin and A Mazumder. 2004. Temporal changes in nitrogen and phosphorus co-deficiency in plankton in lakes of coastal and interior British Columbia. *Canadian Journal of Fisheries and Aquatic Sciences* 61: 1538-1551.

Nowlin, WH, J-M Davies, RN Nordin and A Mazumder. 2004. Effects of water level fluctuation and short-term climate variation on thermal and stratification regimes of a British Columbia reservoir and lake. *Lake and Reservoir Management* 20: 91-109.

Davies, J-M, WH Nowlin and A Mazumder. 2004. Variation in temporal [¹⁴C] plankton photosynthesis among warm monomictic lakes of coastal British Columbia. *Journal of Plankton Research* 26: 763-778.

Nowlin, WH, and RW Drenner. 2000. Context-dependent effects of bluegill on experimental mesocosm communities. *Oecologia* 122: 421-426.

b. Non-refereed Articles:

N/A

3. Abstracts:

N/A

4. Reports:

Spafard, MA, WH Nowlin, J-M Davies and A Mazumder. 2002. A morphometric atlas of selected lakes in southern British Columbia: Vancouver Island, Saltspring Island and the Kooteney region. National Sciences and Engineering research Council (NSERC), Industrial Research Chair Program, Environmental Management of Drinking Water, University of Victoria.

5. Book Reviews:

N/A

6. Conference Proceedings (Refereed):

Mock, L. BF Schwartz, WH Nowlin, BT Hutchins, T Hardy, TH Bonner. 2011. The role of meteorology in monitoring and preserving the water quality in the Edwards Aquifer in Central Texas. *Proceedings of the 2011 National Conference of Standards Laboratories International (NCSLI) Symposium*. August 21-25, 2011, National Harbor, MD.

Hardy, TB, WH Nowlin, BF Schwartz, TH Bonner, Timothy. 2011. Implementation of the San Marcos River Observing System: a Spatially Explicit Delineation of a Spring System based on Physical, Hydrologic, Chemical, and Biological Monitoring. *Proceedings of the 8th International Symposium on Ecohydraulics*, Seoul, Korea, September 12-16, 2010.

B. Works not in Print

1. Papers Presented at Professional Meetings:

***, †, ‡ and § denote PhD, Masters, undergraduates and technicians in my lab, respectively**

Becker, JC, WH Nowlin, and MM Chumchal. 2015. Spatial and temporal variability in fish mercury concentrations from a large river system. *Society for Environmental Toxicology and Chemistry North America 36th Annual Meeting*. Salt Lake City, Utah.

Nowlin, WH, CL Pray†, AP Swink†, and J Perkin. 2015. Contributions of native and non-native fishes to nutrient cycling in a spring-fed river. *Southern Division of the American Fisheries Society (Invited presentation)*. Savannah, Georgia.

Swink, AP†, WH Nowlin, and BF Schwartz. 2014. Factors influencing phosphorus uptake in karstic spring-fed rivers in central Texas, USA. *South Central Regional SETAC Meeting*. San Marcos, Texas.

Nowlin, WH, LA Loney†, BT Hutchins, and BF Schwartz. 2014. Stoichiometry, consumer driven nutrient recycling, and food web structure in a subterranean aquifer stygobiont community. *Joint Aquatic Sciences Meeting*. Portland, Oregon.

Becker, JC*, KJ Rodibaugh†, BJ Labay, FP Lash, TH Bonner, Y Zhang, and WH Nowlin. 2014. Concordance and spatial autocorrelation between macroinvertebrate and fish communities is controlled by environmental gradients in a gulf-slope river ecosystem. *Joint Aquatic Sciences Meeting*. Portland, Oregon.

Becker, JC*, KJ Rodibaugh†, BJ Labay, FP Lash, TH Bonner, Y Zhang & WH Nowlin. 2014. Landscape-Level Patterns of macroinvertebrate and fish communities are controlled more by environmental gradients than trophic interactions in a gulf-slope river system. *Joint meeting of the Indiana chapters of the American Fisheries Society and The Wildlife Society*. Muncie, Indiana.

Chumchal, MA, RW Drenner, B Backwell, WG Cocke, B Henderson, T Jones, WH Nowlin, and B Tweedy. 2013. Bottom-up nutrient and top-down fish impacts on methylmercury flux from aquatic ecosystems: a synthesis of recent studies. *143rd Annual Meeting of the American Fisheries Society*. Little Rock, Arkansas.

Loney, LA†, WH Nowlin, B Hutchins, B Schwartz. 2013. Ecosystem consequences for extinction of aquatic subterranean species in the Edwards Aquifer, Texas. *International Conference for Graduate Student Research*. San Marcos, Texas.

Becker, JC*, WH Nowlin, and D Hahn. 2013. Biogeography and ecosystem function of major aquatic bacterial groups in a Gulf Slope (TX) river system. *Texas Academy of Science*. Kerrville Texas.

Swink, AP†, WH Nowlin, and BF Schwartz. 2013. Storm mediated changes in nitrogen and phosphorus uptake length in a spring fed river. *Texas Academy of Science*. Kerrville Texas.

Swink, AP†, WH Nowlin, and BF Schwartz. 2013. Storm-mediated changes in phosphorus uptake in a spring fed river. *Annual Great Plains Limnology Conference*. Fayetteville, Arkansas.

Becker, JC*, WH Nowlin, and D Hahn. 2012. Spatial patterns in microbial diversity in a large river system. *Annual Great Plains Limnology Conference*. Fayetteville, Arkansas.

Rodibaugh, KJ†, WH Nowlin and JC Becker*. 2012. Bacterially Mediated Carbon and Nutrient Dynamics in a Highly Impacted River System. *Annual Great Plains Limnology Conference*. Fayetteville, Arkansas.

Nowlin, WH, C LeBeouf†, S Scott, CL Pray†, and Y Zhang. 2012. Invasion potential and ecosystem-level impacts of non-native fishes in a riverine system. *Ecological Society of America*. Portland, Oregon. (Invited presentation in a Special Session).

Abuzeineh, AA*, JR Troy, MM Chumchal, MC Green, and WH Nowlin. 2012. Transfer of mercury across ecosystem boundaries in arid streams. *Ecological Society of America*. Portland, Oregon.

Nowlin, WH, CL Pray†, SE Scott, CM LeBoeuf†, KL Pound and Y Zhang. 2012. Ecosystem-level consequences of the addition of invasive suckermouth catfish (Loricariidae) to riverine ecosystems. *Society for Freshwater Science*. Louisville, Kentucky. (Invited presentation in a Special Session)

Becker, JC*, WH Nowlin BJ Labay, and KJ Rodibaugh†. 2012. Influence of land-use and physiography on nutrient concentration in a large river system. *Society for Freshwater Science*. Louisville, Kentucky.

Chumchal, MM, TA Jones, RW Drenner, WH Nowlin, and GN Timmins§. 2012. Bottom-up nutrient and top-down fish impacts on contaminant flux from aquatic ecosystems. *Society for Freshwater Science*. Louisville, Kentucky.

Abuzeineh, AA*, JR Troy, MM Chumchal, MC Green, and WH Nowlin. 2011. Transfer of mercury across ecosystem boundaries in arid streams. *Society of Environmental Toxicology and Chemistry*. Boston, Massachusetts.

Becker, JC*, WH Nowlin, KJ Rodibaugh†, and BJ Labay. 2011. Influence of land use at multiple spatial scales on nutrients and ecosystem function in a large river system. *4th Oklahoma-Texas Aquatic Research Group and Great Plains Limnological Conference*. University of Oklahoma Biological Station, Lake Texoma, Oklahoma.

Rodibaugh, KJ†, WH Nowlin and JC Becker*. 2011. Bacterially mediated carbon and nutrient dynamics in a highly impacted river system. *4th Oklahoma-Texas Aquatic Research Group and Great Plains Limnological Conference*. University of Oklahoma Biological Station, Lake Texoma, Oklahoma.

McMillan, S., TH Bonner, WH Nowlin, and JN Fries. 2011. Reproductive ecology of two sympatric cyprinids in the Rio Grande basin, Texas. *American Fisheries Society*. Seattle, Washington.

Hardy, T, W. Nowlin, B. Schwartz, and T. Bonner. 2011. San Marcos River Observing System. *American Fisheries Society*. Seattle, Washington.

Hardy, T.B., W.H. Nowlin, B. Schwartz, and T. Bonner. 2011. San Marcos Observing System: Integrating Physical, Chemical, and Biological Data at High Resolution Spatial and Temporal Scales. *American Fisheries Society*. Seattle, Washington.

Abuzeineh, A.A.*, W. H. Nowlin, A. Smith†, T. C. Heard, and T. H. Bonner. 2011. Organic matter sources supporting communities of an arid and semi-arid riverine system: The lower Rio Grande drainage. *Ecological Society of America*, Austin, Texas.

Henderson, B.L., M.M. Chumchal, R.W. Drenner, P. Diaz†, Y. Deng, and W.H. Nowlin. 2011. Mercury contamination of macroinvertebrates from ponds with and without fish. *Ecological Society of America*, Austin, Texas.

Henderson, B.L., M.M. Chumchal, R.W. Drenner, P. Diaz†, Y. Deng, and W.H. Nowlin. 2011. Effects of fish on mercury contamination of macroinvertebrate communities of grassland ponds. *Joint Meeting of the Oklahoma-Texas Aquatics Research Group and the Great Plain's Limnology Society*, University of Oklahoma Biological Station, Oklahoma.

Henderson, B.L., M.M. Chumchal, R.W. Drenner, P. Diaz†, Y. Deng, and W.H. Nowlin. 2011. Mercury contamination of macroinvertebrates from ponds with and without fish at the LBJ National Grassland, Texas. *10th International Conference on Mercury as a Global Pollutant*, Halifax, Nova Scotia, Canada.

Henderson, B.L., M.M. Chumchal, R.W. Drenner, P. Diaz†, Y. Deng, and W.H. Nowlin. 2011. Mercury contamination of macroinvertebrates from ponds with and without fish at the LBJ National Grassland, Texas. *South Central Regional Chapter of the Society of Environmental Toxicology and Chemistry*, Denton, Texas.

Park, A.J., M.R. Sawey, M.M. Chumchal, R.W. Drenner, Y. Deng, and W.H. Nowlin. 2011. Biomagnification of mercury within the macroinvertebrate community of Caddo Lake. *South Central Regional Chapter of the Society of Environmental Toxicology and Chemistry*, Denton, Texas.

Becker, J.C. *, W.H. Nowlin, K.J. Rodibaugh†, and B.J. Labay. 2011. Influence of land use at multiple spatial scales on nutrients and ecosystem function in a large river system. *Ecological Society of America*, Austin, TX.

Rodibaugh, K.J. †, W.H. Nowlin and J.C. Becker*. 2011. Bacterially Mediated Carbon and Nutrient Dynamics in a Highly Impacted River System. *Ecological Society of America*, Austin, TX.

Abuzeineh, A.A. *, W. H. Nowlin, A. Smith†, T. C. Heard, and T. H. Bonner. 2011. Organic matter sources supporting communities of an arid and semi-arid riverine system: The lower Rio Grande drainage. *Ecological Society of America*, Austin, Texas.

Becker, J.C. *, W.H. Nowlin, K.J. Rodibaugh†, and B.J. Labay. 2011. Influence of land use at multiple spatial scales on nutrients and ecosystem function in a large river system. *ASLO*, San Juan, Puerto Rico.

Rodibaugh, K.J. †, W.H. Nowlin and J.C. Becker*. 2011. Bacterially Mediated Carbon and Nutrient Dynamics in a Highly Impacted River System. *ASLO Aquatic Science*, San Juan, Puerto Rico.

Bonner, T. H., J. F. Westerlund, W. H. Nowlin, and R. A. Earl. 2010. Graduate training through Project Flowing Waters at Texas State University: quantifying benefits to participating graduate students. *NSF GK-12 Western Region Annual Meeting*. Denver, Colorado.

Nowlin, WH, J Westerlund, TH Bonner, and R Earl. 2010. Graduate training through Project Flowing Waters: Challenges at Texas State University. *Ecological Society of America*, Pittsburgh, Pennsylvania.

Lash, FP, Y Zhang, WH Nowlin, and TH Bonner. 2010. Impacts of land use in the lower Brazos River on benthic macroinvertebrate diversity. Joint *ASLO (Advancing the Sciences of Limnology and Oceanography)* and *North American Benthological Society (NABS) Annual Meeting*, Santa Fe, New Mexico.

Nowlin, WH, CL Pray†, SE Scott, CM LeBoeuf†, KL Cohen, and Y Zhang. 2010. Ecosystem-level impacts of invasive suckermouth catfish (Loricariidae) on a spring-influenced river. Joint *ASLO (Advancing the Sciences of Limnology and Oceanography)* and *North American Benthological Society (NABS) Annual Meeting*, Santa Fe, New Mexico.

Henderson, BL, MM Chumchal, RW Drenner, PH Diaz†, Y Deng, and WH Nowlin. 2010. Mercury contamination of macroinvertebrates from ponds with and without fish at the LBJ National Grassland, Texas USA. Joint *ASLO (Association for the Sciences of Limnology and Oceanography)* and *North American Benthological Society (NABS) Annual Meeting*, Santa Fe, New Mexico.

Becker, JC*, WH Nowlin, KJ Rodibaugh†, and BJ Labay. 2010. Spatial patterns of nutrient concentration and ecosystem function in a western Gulf slope river system. Joint *ASLO (Association for the Sciences of Limnology and Oceanography)* and *North American Benthological Society (NABS) Annual Meeting*, Santa Fe, New Mexico.

LeBoeuf, CM†, Y Zhang, and WH Nowlin. 2010. The effects of invasive species and eutrophication on riverine nutrient dynamics. *Southwestern Association of Naturalists (SWAN) Annual Meeting*, Junction, Texas.

Park, A, M Sawey, MM Chumchal, RW Drenner, Y Deng, J Wadlington, and WH Nowlin. 2010. Spatial variation of Hg, ¹⁵N, and ¹³C in sediment and macroinvertebrates in Caddo Lake. *Texas Academy of Science Annual Meeting*, Stephenville, Texas.

BL Henderson, MM Chumchal, RW Drenner, PH Diaz†, Y Deng, and WH Nowlin. 2010. Mercury concentration in macroinvertebrates from grassland ponds with and without fish communities. *Texas Academy of Science Annual Meeting*, Stephenville, Texas.

Nowlin, WH, CL Pray†, SE Scott, CM LeBoeuf†, KL Cohen, TH Bonner, and Y Zhang. 2010. Ecosystem-level impacts of invasive suckermouth catfish (Loricariidae) on the San Marcos River, Texas. *Texas Chapter of the American Fisheries Society*, Athens, Texas.

Smith, A†, WH Nowlin, M. Chumchal, and A Abuzeineh*. 2010. Mercury contamination of the fish community of a semi-arid and arid river system: spatial variation and the influence of environmental gradients. *Texas Chapter of the American Fisheries Society*, Athens, Texas.

Becker, JC*, AW Groeger, MM Chumchal, WH Nowlin, and D Hahn. 2010. Spatial variability in the distribution and bioaccumulation of mercury in a subtropical reservoir system. *Texas Chapter of the American Fisheries Society*, Athens, Texas.

Becker, JC*, AW Groeger, MM Chumchal, and WH Nowlin. 2009. Distribution and bioaccumulation of mercury in a subtropical reservoir system. *Society for Environmental Toxicology and Chemistry (SETAC) – North America, 29th Annual Meeting*, New Orleans, Louisiana.

Smith, A†, WH Nowlin, MM Chumchal, and A Abuzeineh*. 2009. Mercury contamination of the Rio Grande fish community: influence of spatial variation and food web structure. *South Central Chapter of the Society of Environmental Toxicology and Chemistry (SETAC Annual Meeting)*, San Marcos, Texas.

Nowlin, WH, CB Caston†, A Gaulke, and MJ Vanni. 2009. Stoichiometry and limitation of bacteria and phytoplankton along a productivity gradient. *ASLO (Advancing the Sciences of Limnology and Oceanography)*, Nice, France.

Westerlund, J.F., TH Bonner, WH Nowlin, and RA Earl. 2008. NSF GK-12: Project Flowing Waters. *North Central Association for Science Teacher Education, (NC-ASTE)*, Winona, Minnesota.

Smith, A†, WH Nowlin, MM Chumchal, and A Abuzeineh*. 2008. Mercury contamination of the Rio Grande fish community: influence of spatial variation and food web structure. *Society for Environmental Toxicology and Chemistry (SETAC) – North America, 29th Annual Meeting*, Tampa, Florida.

Smith, A†, WH Nowlin, MM Chumchal, and A Abuzeineh*. 2008. Mercury contamination of the Rio Grande fish community: influence of spatial variation and food web structure. *Oklahoma-Texas Aquatic Research Group/Great Plains Limnology Conference*, Kingston, Oklahoma.

Pray, CL†, SE Scott, WH Nowlin, and Y Zhang. 2008. Ecosystem engineering effects of native and non-native consumers in a river ecosystem. *Oklahoma-Texas Aquatic Research Group/Great Plains Limnology Conference*, Kingston, Oklahoma.

Diaz, PH* and WH Nowlin. 2008. Influence of productivity, size, and hydroperiod on aquatic macroinvertebrates in isolated wetlands. *Oklahoma-Texas Aquatic Research Group/Great Plains Limnology Conference*, Kingston, Oklahoma.

Caston, CB†, WH Nowlin, A Gaulke, and MJ Vanni. 2008. Nutrient cycling in pelagic ecosystems: The relative importance of heterotrophic bacteria and phytoplankton changes along a trophic gradient. *Oklahoma-Texas Aquatic Research Group/Great Plains Limnology Conference*, Kingston, Oklahoma.

- Becker, JC†, AW Groeger, MM Chumchal, and WH Nowlin. 2008. Distribution and bioaccumulation of mercury in a subtropical reservoir system. *Oklahoma-Texas Aquatic Research Group/Great Plains Limnology Conference*, Kingston, Oklahoma.
- Nowlin, WH, CB Caston†, A Gaulke, and MJ Vanni. 2008. Stoichiometry and nutrient limitation of bacterio- and phytoplankton across a reservoir productivity gradient: implications for competition intensity. *Oklahoma-Texas Aquatic Research Group/Great Plains Limnology Conference*, Kingston, Oklahoma.
- Smith, A†, WH Nowlin, MM Chumchal, and A Abuzeineh*. 2008. Mercury contamination of the Rio Grande fish community: influence of spatial variation and food web structure. *South Central Chapter of the Society of Environmental Toxicology and Chemistry (SC-SETAC) Annual Meeting*, Clear Lake, Texas.
- Becker, JC†, AW Groeger, MM Chumchal, and WH Nowlin. 2008. Distribution and bioaccumulation of mercury in a subtropical reservoir system. *South Central Chapter of the Society of Environmental Toxicology and Chemistry (SC-SETAC) Annual Meeting*, Clear Lake, Texas.
- Caston, CB† and WH Nowlin. 2007. Does the relative importance of bacteria in reservoir nutrient cycling vary with productivity? *Texas River and Reservoir Management Society (TRRMS) and South Central Society of Environmental Toxicology and Chemistry (SC-SETAC)*, Nacogdoches, Texas.
- Cohen, KL, TH Bonner, and WH Nowlin. 2007. Food habits of the non-indigenous suckermouth catfish in the San Marcos River, Texas: A concern for spring endemics? *American Fisheries Society*, San Francisco California.
- Cohen, KL, TH Bonner, and WH Nowlin. 2007. Food habits of the non-indigenous suckermouth catfish in the San Marcos River, Texas: a concern for spring endemics? *Texas Chapter of the American Fisheries Society*, Lake Jackson, Texas.
- Nowlin, WH, A Gaulke, and MJ Vanni. 2007. The relative importance of bacteria and algae in pelagic nutrient cycling of reservoir ecosystems. *ASLO (Association for the Sciences of Limnology and Oceanography)*, Santa Fe, New Mexico.
- Davies, JM, WH Nowlin, B Matthews and A Mazumder. 2006. A temporal discontinuity of nutrient deficiency and limitation, the role of deficiency in cyanobacterial bloom formation. *ASLO (Association for the Sciences of Limnology and Oceanography)*, Victoria, British Columbia.
- Nowlin, WH, MHH Stevens, M.J. Vanni, M.J. Gonzalez, and M.W. Fields. 2005. Effects of a pulsed allochthonous subsidy from a 17-year periodical cicada emergence on woodland pond communities. *Oklahoma – Texas Aquatic Research Group and Texas River and Reservoir Management Society Meeting*, Oklahoma Biological Station, Kingston, Oklahoma
- Valente, JJ, MJ Gonzalez, WH Nowlin, MJ Vanni, MW Fields, and MHH Stevens. 2005. Effects of the 17-year periodical cicada emergence on zooplankton communities in woodland ponds. *Ecological Society of America*, Montréal, Quebec

Pauly, L, MW Fields, C Koenig, C. Hwang and WH Nowlin. 2005. Allochthonous input effects on the bacterial community of an aquatic mesocosm. *Ecological Society of America*, Montréal, Quebec.

Nowlin, WH, MHH Stevens, M.J. Vanni, M.J. Gonzalez, J.J. Valente and M.W. Fields. 2005. Effects of a pulsed allochthonous subsidy from a 17-year periodical cicada emergence on woodland pond communities. *Ecological Society of America*, 2005, Montréal, Quebec. Symposium: Resource pulses in space and time: Linking species, communities, and ecosystems, *Ecological Society of America*, Montréal, Quebec

Pray, CL, WH Nowlin, MJ Vanni, MHH Stevens, MJ González, MW Fields. 2005. Deposition and decomposition of litter associated with the emergence of 17-year periodical cicadas in woodland ponds and streams. *Ecological Society of America*, Montréal, Quebec

Nowlin, WH, J-M Davies and A Mazumder. 2004. The relative importance of “new” and “recycled” phosphorus sources in lakes of varying trophy in British Columbia, Canada. *Ecological Society of America*, Portland, Oregon.

Mazumder, A, R Nordin, B Matthews, J-M Davies, WH Nowlin, PC Furey, C Meays and K Broersma. 2004. Integrated water and watershed management for sustainable clean and healthy water. *The International Congress of Limnology (SIL)*, Helsinki, Finland.

Nowlin, WH, J-M Davies and A Mazumder. 2002. Effects of seasonal drawdown on a drinking water reservoir: response of pelagic phosphorus pathways. *American Society of Limnology and Oceanography*, Victoria, British Columbia, Canada.

Mazumder, A, Y Liang, J-M Davies, WH Nowlin, P Furey and B Matthews. 2002. Loss of ecosystem and watershed quality: a serious threat to sustainable clean and healthy drinking water. *American Society of Limnology and Oceanography*, Victoria, British Columbia, Canada.

Davies, J-M, WH Nowlin and A Mazumder. 2002. Phytoplankton nutrient status: implications of plankton size. *American Society of Limnology and Oceanography*, Victoria, British Columbia, Canada.

Nowlin, WH, J-M Davies and A Mazumder. 2002. Effects of seasonal drawdown on a drinking water reservoir: responses of pelagic phosphorus pathways. *Society of Canadian Limnologists*, Vancouver, British Columbia, Canada.

Nowlin, WH, RW Drenner, M Chumchal, and S Mann. 2000. Biomass-dependent effects of common carp on water quality: Implications for biomanipulation of Texas reservoirs. *American Society of Limnology and Oceanography*, Copenhagen, Denmark.

Basu, BK, Y Liang, P Caron, J-M Davies, WH Nowlin and A Mazumder. 2000. Environmental management of drinking water: An ecosystem and watershed approach. *American Society of Limnology and Oceanography*, Copenhagen, Denmark.

Drenner, RW, JL Smith, S Mann, M Chumchal, JM Fennell, WH Nowlin and CE Edwards. 2000. Estimating the densities of common carp and their biomass-dependent effects on ponds. *Texas Chapter of the American Fisheries Society*, Bossier City, Louisiana, USA.

Mazumder, A, BK Basu, Y Liang, P Caron, J-M Davies and WH Nowlin. 2000. The environmental management of drinking water: an overview of the NSERC-IRC program at the University of Victoria. *Society of Canadian Limnologists*, Fredericton, New Brunswick, Canada.

Drenner, RW, WH Nowlin, KR Guckenberger, M Lauden, JE Fennell and JL Smith. 1999. Effects of piscivorous largemouth bass on water quality. *Texas River and Reservoir Management Society*, College Station, Texas, USA.

Nowlin, WH and RW Drenner. 1998. Effects of bluegill on experimental mesocosm communities in the presence and absence of a fish assemblage. *Texas River and Reservoir Management Society/North Texas Limnology Group*, Denton, Texas, USA.

Nowlin, WH and RW Drenner. 1998. Effects of bluegill on experimental mesocosm communities in the presence and absence of a fish assemblage. *American Society of Limnology and Oceanography/Ecological Society of America*, St. Louis, Missouri, USA.

2. Invited Talks, Lectures, and Presentations:

Good Water Master Naturalists Fall Training Session – September 2015. Use of invertebrate IBIs in water quality monitoring and Stygobionts of the Edwards Aquifer, Texas. (2 presentations)

Edwards Aquifer Authority Board of Directors Meeting – June 2015. Overview of invertebrate refugia research covered under the Edwards Aquifer Habitat Conservation Plan.

Department of Biology, University of Oklahoma – February 2015. Looking Beyond Boundaries: Aquatic Ecosystems and Food Webs Across Landscapes.

Texas Commission on Environmental Quality, Annual Surface Water Quality Workshop - October 2014. Nutrient cycling in riverine ecosystems: Influence of large-scale spatial gradients and implications for setting numerical criteria for Texas.

Department of Biological Sciences, University of Southern Mississippi – November 2012. Creatures great and small: The role of organisms in riverine nutrient cycling.

Department of Biological Sciences, University of North Texas – January 2012. Creatures great and small: The role of organisms in ecosystem nutrient dynamics.

School of Biological Sciences, Section of Integrative Biology, The University of Texas – Austin – April 2010. Creatures great and small: The importance of organisms in ecosystem nutrient dynamics.

Austin College Department of Biology, October 2006, Sherman, Texas – October 2006. Picoplankton, piscivores and periodical cicadas: research in aquatic ecology.

Texas State University, Aquatic Biology Society, San Marcos, Texas – October 2005. Effects of a pulsed allochthonous subsidy from a 17-year periodical cicada emergence on woodland pond communities.

Miami University, Department of Zoology, Oxford, Ohio –Miami Department of Zoology REU Program Speaker, July 2005. The effects of 17-year periodical cicadas on woodland aquatic ecosystems: An overview of summer research in the Miami ECO-REU program.

Bowling Green State University, Department of Biological Sciences, Bowling Green, Ohio – January 2005. The relative importance of “new” and “recycled” phosphorus sources in lakes of varying trophy in British Columbia, Canada.

3. Consultancies:

N/A

4. Workshops:

N/A

5. Other:

Special Session Co-Organizer, Joint Aquatic Sciences Meeting, Special Session Organizer, 2014, Portland, Oregon – *Double trouble: Interactive effects of climate change and other anthropogenic drivers on aquatic ecosystems.*

Symposium Co-Organizer, Ecological Society of America, 2005 Meeting in Montreal, Quebec, Canada – *Resource pulses in space and time: Linking species, communities and ecosystems.*

C. Grants and Contracts

1. Pending/In Review Grants and Contracts:

N/A

2. Funded External Grants and Contracts:

Evaluation of the Life History of the Comal Springs Riffle Beetle. R Gibson, WH Nowlin and BIO-WEST. Edwards Aquifer Authority (Edwards Aquifer Habitat Conservation Plan). January 2016. \$60,000

Evaluation of the Long-Term, Elevated Temperature and Low Dissolved Oxygen Tolerances of Comal Springs Riffle Beetle. WH Nowlin and BF Schwartz. Edwards Aquifer Authority (Edwards Aquifer Habitat Conservation Plan). January 2016. \$93,034

Evaluation of the Trophic Status and Functional Feeding Group Status of the Comal Springs Riffle Beetle. WH Nowlin and D Hahn. Edwards Aquifer Authority (Edwards Aquifer Habitat Conservation Plan). January 2016. \$69,354

Development of Habitat Suitability Criteria for Benthic Macroinvertebrates in the Lower Guadalupe River. A Schwalb and WH Nowlin. Texas Parks and Wildlife Department. Received August 2015. \$26,000

Status Assessment and Ecological Characterization of the Texas Troglotic Water Slater, *Lircelous smithii*. BF Schwartz, WH Nowlin, and CC Nice. Texas Parks and Wildlife Department - State Wildlife Grant Program. Received May 2015. \$74,049

Development of Husbandry and Captive Propagation Techniques for Invertebrates Covered Under the Edwards Aquifer Habitat Conservation Plan Proposal. Edwards Aquifer Authority (Edwards Aquifer Habitat Conservation Plan). February 2015. \$108,552

Effects of Suspended Sediments on Texas Wild Rice, Other Macrophytes, and Macroinvertebrates. TB Hardy, WH Nowlin, and P Williamson. Edwards Aquifer Authority (Edwards Aquifer Habitat Conservation Plan). January 2015. \$75,000

Comal Springs Riffle Beetle Habitat Connectivity Under Variable Flow Conditions. E. Oborny, WH Nowlin, and R. Gibson. Edwards Aquifer Authority (Edwards Aquifer Habitat Conservation Plan). January 2015. \$38,498

Determination of Limitations of Comal Springs Riffle Beetle Plastron Use During Low Flow Conditions. WH Nowlin, BF Schwartz, TB Hardy, and R. Gibson. Edwards Aquifer Authority (Edwards Aquifer Habitat Conservation Plan). Received June 2014. \$48,467

Upper San Marcos River Watershed Protection Plan. WH Nowlin and B Schwartz. Texas Commission on Environmental Quality/United States Environmental Protection Agency 319(h) Grant. Received January 2013. \$30,000

Establishment of the Upper San Marcos River Observing System. B Schwartz (PI), WH Nowlin (PI), TH Bonner (Co-PI), T Hardy (Co-PI), and A Sansom (Co-PI). Exceptional Line Item in the State of Texas Budget (2009 – 2011). Received February 2010. \$1,200,000

Ecological Values and Ecosystem Services of Watersheds in the Lower Rio Grande River. TH Bonner (PI), WH Nowlin (Co-PI), and T Hardy (Co-PI). United States Department of Agriculture (Sustainable Agricultural Water Conservation in the Rio Grande Project). Received July 2009. \$85,000

Effects of Invasive Species on the Biogeochemistry of Hyporheic Water from Sandbars: A Comparison Restored and Unrestored Areas in Big Bend National Park. WH Nowlin (PI), K Urbanczyk (Co-PI), and J Bennett (Co-PI). United States Department of Agriculture (Sustainable Agricultural Water Conservation in the Rio Grande Project). Received July 2009. \$37,843

Spring Lake Nutrient Sources Identification and Nutrient Management Plan. WH Nowlin (PI), B Schwartz (Co-PI), and A Sansom (Co-PI). Texas Commission on Environmental Quality/United States Environmental Protection Agency 319(h) Grant. Received March 2009. \$293,689

Project Flowing Waters. J Westerlund (PI), T. Bonner (Co-PI), WH Nowlin (Co-PI), R. Earl (Co-PI), and P. Guettner (Co-PI). National Science Foundation: Graduate Teaching Fellows in K-12 Education (GK-12). Received January 2008. \$2,320,660

Building Adaptive Capacity and the Ecological Values of Watersheds of the Lower Brazos River Basin – TH Bonner (PI), WH Nowlin (Co-PI), Y Zhang (Co-PI) and V Lopes (Co-PI) in cooperation with The Nature Conservancy of Texas. The Houston Foundation. Received January 2008. \$600,000

Bigclaw River Shrimp in San Marcos River: Invasive Species' Impact. Y Zhang (PI) and WH Nowlin (Co-PI). Texas Parks and Wildlife - State Wildlife Grant Program. Received October 2007. \$68, 640

Trophic Ecology and Habitat Associations of the Threatened San Marcos Salamander (*Eurycea nana*) – WH Nowlin (PI), JN Fries (Co-PI) and ML Alexander (Co-PI). United States Geological Survey. Received May 2007. \$25,844

Sources and Pathways of Energy and Nutrients Supporting the Rio Grande Biotic Community - WH Nowlin (PI) and TH Bonner (Co-PI). United States Department of Agriculture (Sustainable Agricultural Water Conservation in the Rio Grande Project). Received March 2006. \$90,404

Reproductive Ecology and Culture Techniques of the Devil's River Minnow - WH Nowlin (Single PI). United States Fish and Wildlife Service Cooperative Agreement. Received June 2006. \$8,000

Invasion of Suckermouth Catfish in the San Marcos River Ecosystem – WH Nowlin (PI) and TH Bonner (Co-PI). United States Fish and Wildlife Service, Collaborative Conservation Project Award Initiative (CCPAI). Received March 2006. \$5,000

3. Submitted, but not Funded, External Grants and Contracts:

Preliminary Proposal: Linkages between Aquatic and Terrestrial Systems in the Southern Great Plains. National Science Foundation. Submitted January 2016 – *In Review*.

Occurrence and ecology of imperiled stygobionts of the Edwards Aquifer. TPWD – SWG Program. Submitted January 2014 – Not funded. \$56,647

Ecology of federally-listed groundwater species in the Edwards Aquifer, Texas and implications for their extinction. TPWD/USFWS - Section 6. Submitted November 2013 – Not funded. \$78,703

Biological Monitoring Program for Comal and San Marcos Springs. T Hardy, WH Nowlin, and B Schwartz. Edwards Aquifer Authority. Submitted December 2013 – Not Funded. \$900,000.

Water quality sampling and analysis program for Comal and San Marcos Springs Ecosystems. Edwards Aquifer Authority. Submitted October 2013 – Not Funded. \$1,085,957

Mesoamerican rivers and streams (MARS): Impacts of environmental change on biodiversity, ecosystem function, and freshwater ecosystem services. KA Capps, A Rugetski, WH Nowlin,

and D German. National Science Foundation - Research Coordination Network. Submitted May 2013 – Not Funded. \$482,932

Lakes as sentinels of climate change. CW Williamson (PI/PD, Miami University), J Fischer (CoPI, Franklin & Marshall, B Hargreaves (CoPI, Lehigh University), L Knoll (CoPI, Lacawac Sanctuary and Miami University), J Saros (CoPI, University of Maine), W Boeing (CoI, New Mexico State), E Gaiser (CoI, Florida International), M Gonzalez (CoI, Miami University), WH Nowlin (CoI, Texas State University), J Melack (CoI, UCSB), BR Renwick (CoI, Miami University), MJ Vanni (CoI, Miami University), J Zhang (CoI, Miami University). National Science Foundation (MacroSystems-Biology). Submitted April 2013 – Not Funded. National Science Foundation – MacroSystem Biology. \$6,496,792

Trans-Texas Climate Array – Ecology, Evolution, and Economics. M Huston, M Forstner, WH Nowlin, J Veech, and S Weigum. Submitted April 2013 – Not Funded. National Science Foundation – MacroSystem Biology. \$774,374

Ecology of three federally-listed groundwater species in the Edwards Aquifer, Central Texas – WH Nowlin and B Schwartz. Section 6 - Texas Parks and Wildlife/US Fish and Wildlife Service. Submitted November 2013 – Not Funded. \$66,192

Lakes as sentinels for climate change. CW Williamson (PI/PD, Miami University), J Fischer (CoPI, Franklin & Marshall, B Hargreaves (CoPI, Lehigh University), L Knoll (CoPI, Lacawac Sanctuary and Miami University), J Saros (CoPI, University of Maine), W Boeing (CoI, New Mexico State), E Gaiser (CoI, Florida International), M Gonzalez (CoI, Miami University), WH Nowlin (CoI, Texas State University), J Melack (CoI, UCSB), BR Renwick (CoI, Miami University), MJ Vanni (CoI, Miami University), J Zhang (CoI, Miami University). National Science Foundation (MacroSystems-Biology). Submitted April 2012 – Not Funded. \$245,784 (my portion of \$4,9875,347 in total)

Resource requirements for three federally-listed groundwater species in the Edwards Aquifer, Central Texas – WH Nowlin and B Schwartz. Section 6 - Texas Parks and Wildlife/US Fish and Wildlife Service. Submitted November 2012 – Not Funded. \$66,192

Monitoring of Riparian and Stream Habitat and Biotic Communities, Wichita River Basin, North-Central Texas – TH Bonner and WH Nowlin. US Army Corps of Engineers (USACE) Tulsa District. Submitted August, 2006 – Not Funded. \$186,565.

Resilience and adaptation of watersheds in the Rio Conchos – V Lopes (PI), D Lazcano (PI), PA Lavin-Murcio (Co-PI), MRJ Forstner (Co-PI), D Hahn (Co-PI), TH Bonner (Co-PI), WH Nowlin (Co-PI), A Groeger (Co-PI), M Gutiérrez (Co-PI). USAID New IDEAS Partnership Program. Submitted July 2006 – Not Funded. \$152,781.

Impact of Suckermouth Catfish on the San Marcos River Ecosystem – WH Nowlin and TH Bonner. Texas Parks and Wildlife/United States Fish and Wildlife Service Section 6 Program, Submitted November 2005 – Not Funded. \$195,424.

4. Funded Internal Grants and Contracts:

Transfer of Mercury and Methylmercury Across Ecosystem Boundaries in Arid River Landscapes - WH Nowlin (Single PI). Texas State University Research Enhancement Program. Received December 2007. \$7,984.

Ecosystem engineering and nutrient cycling effects of native and exotic species in the San Marcos River ecosystem - Y Zhang and WH Nowlin. Texas State University Research Enhancement Program Grant. Received December 2006. \$16,000.

The Relative Importance of Bacteria and Algae in Reservoir Carbon Cycling - WH Nowlin (Single PI). Texas State University Research Enhancement Program. Received December 2005. \$6,940.

5. Submitted, but not Funded, Internal Grants and Contracts:

Species extinctions in one of the Earth's most diverse subterranean systems: Implications of the loss of taxonomic and functional diversity in the Edwards Aquifer – WH Nowlin and BF Schwartz. Texas State University Research Enhancement Program. Submitted October 2014 – *Not funded*. \$15,828

The Relative Importance of Bacteria and Phytoplankton in Reservoir C Dynamics – WH Nowlin (Single PI). Pre-Proposal for State of Texas Advanced Research Program – *Not Funded*

D. Fellowships, Awards, Honors:

Texas State University Presidential Award for Scholarly/Creative Activities – Assistant Professor. 2008.

Graduate Student Tuition Fellowship – University of Victoria, Department of Graduate Studies. Received award every semester from 1999-2003

Student Travel Award – American Society of Limnology and Oceanography (ASLO) Conference 2000 in Copenhagen, Denmark

Outstanding Graduate Student of 1998 – Texas Christian University, Department of Biology

Adkins Research Fellowship to Graduate Students – Texas Christian University, 1997

IV. SERVICE

A. University:

Spring Lake Environmental Committee (2012 – Present)

College Recruiting Committee (2006 – Present)

Presidential Award Selection Committee (2009 and 2010)

B. Departmental:

Current Committee Service

Director, Aquatic Resources MS Program (2012 – Present)

Member, Graduate Committee (2012 – Present)

Chair, Mentoring Committee – Dr. Astrid Schwalb (2014 – Present)

Chair, Awards Day Committee (2005 – Present; Co-chair 2007 - 2009; Chair 2010 - 2015)

Member, Mentoring Committee – Dr. Shannon Weigum (2011 – Present)

Member, Departmental Budget Committee (2006 – Present)

Member, Freeman Building Operations Committee (2005 – Present)

Past Committee Service

Member, Toxicologist Faculty Search Committee (2013 - 2014)

Chair, Ten-Year Strategic Hiring Plan Committee (2013 - 2014)

Chair, Stream Ecologist Position Search Committee (2013 - 2014)

Member, Lecturer Evaluation Committee (2012 - 2013)

Member, Departmental Seminar Committee (2005 – 2013)

Member, Target of Opportunity Committee (2007 – 2010)

Member, Space Committee (2005 – 2007)

Member, Student Retention Plan Committee (2005 – 2009)

Member, Space Committee (2006 – 2009)

Member, Undergraduate Program Committee (2006 – 2010)

C. Community:

Scientific Advisory Group Member, Upper San Marcos Watershed Protection Plan Working Group. 2013 – Present.

Upper San Marcos Coordinating Group Technical Representative for the City of San Marcos City Master Plan Meetings

Selection Committee for San Antonio Conservation Society's Graduate Scholarship for Louise Reischling Natural Resources Scholarship (2008, 2009)

D. Professional:

Leadership and Committee Service in Professional Organizations

Secretary and Vice-President – South Central Regional Chapter of the Society for Freshwater Science, 2013 – Present.

Board Member, South Central Chapter of the Society for Environmental Toxicology and Chemistry, 2009 – Present

President – South Central Regional Chapter of the Society for Environmental Toxicology and Chemistry, 2012-2013.

Vice-President - South Central Chapter of the Society for Environmental Toxicology and Chemistry, 2011-2012.

American Society of Limnology and Oceanography, Member, Education Sub-committee of Education and Human Resources Committee, 2003 - 2005

Manuscript Reviewer

Aquatic Sciences, Aquatic Invasions, Oikos, Southeastern Naturalist, The Coleopterist, Hydrobiologia, Ecology Letters, Oikos, Environmental Toxicology and Chemistry, Hydrobiologia, Oecologia, Lakes and Reservoirs: Research and Management, Aquatic Conservation: Marine and Freshwater Ecosystems, Limnology and Oceanography, Freshwater Biology, Southwestern Naturalist, American Midland Naturalist, Transactions of the American Fisheries Society, Journal of Applied Biology, Ecology, Water Resources and Management, Journal of the North American Benthological Society, Lake and Reservoir Management

Research Grant Proposal Reviewer and Panel Service

U.S. Environmental Protection Agency (EPA) Science to Achieve Results (STAR) Graduate Fellowships, Panel member and proposal reviewer - 2015

Oklahoma Water Resources Center – Ad hoc proposal reviewer - 2013

National Science Foundation (NSF) – Ad hoc proposal reviewer - 2012

Israel Science Foundation (ISF) – Ad hoc proposal reviewer - 2006

Service as External Tenure and Promotion Reviewer

Department of Biological Sciences, University of North Texas – 2015

Department of Biology, Texas Christian University - 2013

Organization of Professional Meetings

Society for Environmental Chemistry and Toxicology, May 2014, Organization and hosting of the annual meeting of the South Central Chapter of the Society for Environmental Chemistry and Toxicology at Texas State University.

Joint Aquatic Sciences Meeting, Special Session Organizer, 2014, Portland, Oregon – Double trouble: Interactive effects of climate change and other anthropogenic drivers on aquatic ecosystems.

Oklahoma – Texas Aquatic Research Group (OTARG)/Great Plains Limnology Conference (GPLC), October 2011. Organization and hosting of tri-annual meeting at The University of Oklahoma Biological Station.

Society for Environmental Chemistry and Toxicology, May 2009, Organization and hosting of the annual meeting of the South Central Chapter of the Society for Environmental Chemistry and Toxicology at Texas State University.

Joint Ecological Society of America (ESA) and International Congress of Ecology (INTECOL), Symposium Co-Organizer, 2005 Annual Meeting in Montreal, Quebec, Canada – Resource pulses in space and time: Linking species, communities and ecosystems.

American Society of Limnology and Oceanography, Summer 2002 meeting in Victoria, BC, Canada – Organize and coordinate activities for the ASLO Minorities in the Aquatic Sciences (MAS) Program.

E. Organizations

1. Honorary:

N/A

2. Professional:

Society for Freshwater Science, Society for Environmental Toxicology and Chemistry, Ecological Society of America, Advancing the Science of Limnology and Oceanography, North American Lake Management Society, Oklahoma-Texas Aquatic Research Group, Society of Canadian Limnologists