

WAYNE A. WURTSBAUGH

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Web page: <https://qcnr.usu.edu/wats/>



EDUCATION

Ph.D. University of California at Davis, in Ecology (1983) Dissertation: Internal and external controls on plankton abundance in a large eutrophic lake. <https://hdl.handle.net/2027/uc1.x16458>

M.S. Oregon State University, in Fisheries, with minor in Water Resources (1973). Thesis: Effects of temperature, ration level, and size on the growth of steelhead trout.

B.S. University of California at Davis, in Fisheries & Wildlife (1970). Thesis: Food and distribution of underyearling brook and rainbow trout in Castle Lake, California.

PROFESSIONAL EXPERIENCE

PROFESSOR Emeritus (July 2016 -), Watershed Sciences Department, Quinney College of Natural Resources, Utah State University, Logan, Utah.

PROFESSOR (July 1996 to June 2016), Watershed Sciences Department (Formerly Aquatic, Watershed & Earth Resources Department), Utah State University, Logan, Utah.

FULBRIGHT LECTURING/RESEARCH FELLOWSHIP (March-May 2011), Universidad de Cordoba, Argentina.

GASTPROFESSOR, (Sept 2005-Apr 2006), ETH University and Swiss Federal Institute for Environmental Science and Technology (EAWAG), Zurich, Switzerland.

ASSOCIATE PROFESSOR (July 1989-1996), Dept. of Fisheries and Wildlife, Utah State U. Logan, Utah.

ASSISTANT PROFESSOR (July 1983-1989), Department of Fisheries and Wildlife, Utah State University.

FULBRIGHT SENIOR RESEARCH SCHOLAR (Sep. 1997-Apr. 1998), Universidad de Valencia, Spain.

VISITING SCIENTIST (May-July 1991), Max-Planck-Institut fuer Limnologie, Ploen, Germany (sabbatical)

VISITING SCIENTIST (Oct. 1990-April 1991), Center for Limnology, Madison, Wisconsin. (sabbatical)

STAFF RESEARCH SCIENTIST (1980-1983), Div. of Environmental Studies, U. of California, Davis.
Duty station: Lake Titicaca, Peru.

POST-GRADUATE RESEARCHER AND RA (1975-1980), Dept. of Wildlife and Fisheries/Inst. of Ecology, University of California, Davis.

BIOLOGIST (1973 and 1975), Clear Lake Algal Research Unit, Lakeport, California.

FISHERY BIOLOGIST (1973-1974), U.S. Peace Corps, Puno, Peru.

WATER POLLUTION TRAINEE (1970-1973), Department of Fisheries and Wildlife, Oregon State University. Corvallis, OR.

SEASONAL AIDE (1968-1969, summers), California Fish and Game. Sacramento, CA.

GEOLOGICAL FIELD ASSISTANT (1967, summer), U.S. Geological Survey. Menlo Park, CA.

CURRENT RESEARCH INTERESTS:

- Saline lake limnology
- Landscape limnology
- Mercury and selenium in aquatic food webs
- Biogeochemical controls on aquatic productivity
- Algal-nutrient relationships; N vs P limitation
- Ontogeny of temperature selection and bioenergetics of fishes
- Stable isotopes and food webs

- Ecology of endemic and threatened fishes

RESEARCH AND FUNDING

2017-2019. Wurtsbaugh, W.A. Impacts of eutrophication on benthic invertebrate and fish prey of birds in Farmington and Bear River Bays of Great Salt Lake. (1.5 year; \$74,815).

2015-2021. Wurtsbaugh, W.A. and D. Rosenberg. Integrated Natural Resource Management for Urmia Lake Restoration: A Collaborative Program Between the Iranian Lake Urmia Restoration Program (ULRP) & Utah State University. Koshrow Semnani Foundation (\$50,000).

2014-2015

Wurtsbaugh, W.A. Farmington Bay Student Research Project-2014. Utah Division of Water Quality. (1 year; \$2,000)

2012-2013

Wurtsbaugh, W.A. Relations between mercury, nutrients, and plankton along the Farmington Bay-Gilbert Bay salinity gradient in the Great Salt Lake. Utah Division of Forestry, Fire and State Lands. (1 year; \$51,278).

McCulley, E. and **Wurtsbaugh, WA.** Great Salt Lake Research: nutrients, metals, and plankton in Farmington Bay, Utah. Utah Division of Water Quality and ENVIRON. (1 year; \$45,156: \$19,222 to USU).

2011-2012

Wurtsbaugh, W.A. Factors affecting the spatial and temporal variability of *Nodularia* blooms in Farming Bay (Great Salt Lake). Central Davis County Sewage Improvement District. (1 year; \$14,974)

2010-2011

Wurtsbaugh, W. Great Salt Lake Student Research Projects-2010. Utah Division of Water Quality. Salt Lake City, Utah (\$1,067).

Wurtsbaugh, W. Undergraduate research student support: mercury fractions and transfer from the Great Salt Lake's Deep Brine Layer. Utah State Division of Forestry, Fire and Lands. (Year 1; \$1000)

2009-2010

Wurtsbaugh, W., P. Leavitt and K. Moser. Paleolimnological evaluation of eutrophication and metal deposition in bays of the Great Salt Lake using multi-proxy sediment records. Utah Division of Water Quality. Salt Lake City, Utah (Year 2 of 2; \$154,108).

Wurtsbaugh, W. Importance of the Great Salt Lake's deep brine layer for mercury transfer and nutrition of brine shrimp. Utah State Division of Forestry, Fire and Lands. (Year 2 of 2; \$46,675).

2008-2009

Wurtsbaugh, W., M. Baker, and B. McGwynn. Landscape limnology of mountain watersheds: Nutrient retention and ecosystem stability in complex aquatic ecosystems. National Science Foundation (Year 4 of 4; \$1,297,193).

Wurtsbaugh, W., P. Leavitt and K. Moser. Paleolimnological evaluation of eutrophication and metal deposition in bays of the Great Salt Lake using multi-proxy sediment records. Utah Division of Water Quality. Salt Lake City, Utah (Year 1 of 2; \$154,108).

Wurtsbaugh, W. Importance of the Great Salt Lake's deep brine layer for mercury transfer and nutrition of brine shrimp. Utah State Division of Forestry, Fire and Lands. (Year 1 of 2; \$46,675).

Wurtsbaugh, W. Monitoring of water quality in three bays of the Great Salt Lake. Utah Division of Water Quality, Salt Lake City. (1 year; \$74,853)

2007-2008

Wurtsbaugh, W. Preliminary analyses of mercury contamination in the benthic biostromes of the Great Salt Lake. Utah Division of Water Quality (1 year; \$44,762).

Wurtsbaugh, W., M. Baker, and B. McGwynn. Landscape limnology of mountain watersheds: Nutrient retention and ecosystem stability in complex aquatic ecosystems. National Science Foundation (Year 3 of 4; \$1,297,193).

2006-2007

Wurtsbaugh, W. Relationships between eutrophication, cyanobacteria blooms and avian botulism mortalities in the Great Salt Lake, Utah. Utah Wetlands Foundation. (1 yr., \$10,000).

Wurtsbaugh, W. Relationships between eutrophication, cyanobacteria blooms and avian botulism mortalities in the Great Salt Lake, Utah. Tides Foundation. (1 yr., \$10,000).

Wurtsbaugh, W., M. Baker, and B. McGwynn. Landscape limnology of mountain watersheds: Nutrient retention and ecosystem stability in complex aquatic ecosystems. National Science Foundation (Year 2 of 4, \$1,297,193).

2005-2006

Wurtsbaugh, W., M. Baker, and B. McGwynn. Landscape limnology of mountain watersheds: Nutrient retention and ecosystem stability in complex aquatic ecosystems. National Science Foundation (4 yr., \$1,297,193).

Wurtsbaugh, W. Eutrophication analyses of a polluted embayment of the Great Salt Lake, Farmington Bay, Utah. Tides Foundation (1 yr., \$25,000).

Wurtsbaugh, W. and D. Naftz. Spatial analysis of trophic linkages between basins in the Great Salt Lake, Utah. Utah Division of Forestry, Fire and State Lands. (1 yr., \$75,000).

Wurtsbaugh, W. Analysis of selenium bioaccumulation in benthic food webs of the Great Salt Lake, Utah. Utah Division of Water Quality/North Davis Sewer Improvement District. (1 yr., \$29,674).

2004-2005

Wurtsbaugh, W., M. Baker, R. Hall and J. Haefner. Influence of stream-lake interactions on nutrient transport and function of aquatic ecosystems: Modeling, ¹⁵N experiments and watershed analyses. National Science Foundation (3 yr., 2002-2005; \$1,008,315).

Wurtsbaugh, W. Impacts of eutrophication on Farmington Bay, Great Salt Lake. Utah Division of Water Quality. (2005, \$84,142).

Wurtsbaugh, W. Analysis of Phytoplankton Nutrient Limitation in Farmington Bay and the Great Salt Lake. Central Davis Sewer Improvement District. (2005; \$5,342).

2003-2004

Wurtsbaugh, W., M. Baker, R. Hall and J. Haefner. Influence of stream-lake interactions on nutrient transport and function of aquatic ecosystems: Modeling, ¹⁵N experiments and watershed analyses. National Science Foundation (3 yr., 2002-2005; \$1,008,315).

Wurtsbaugh, W. and M. Gustafson. Stream-Lake Interactions: Landscape Impacts on Aquatic Biodiversity. ROA Supplement from NSF. (1 year; \$23,800).

Wurtsbaugh, W. and M. Baker. Research Experiences for Undergraduates (REU), as an addendum to our NSF grant on Stream-Lake interactions on nutrient transport. (2003; \$12,000)

Wurtsbaugh, W. Continued Studies on Water Pollution in Farmington Bay of the Great Salt Lake: Human and Environmental Impacts. CURI grant, Utah State University (2003-04; \$15,000).

Wurtsbaugh, W. Analysis of Phytoplankton Nutrient Limitation in Farmington Bay and the Great Salt Lake. Central Davis Sewer Improvement District. (2004; \$15,716).

Wurtsbaugh, W. Hydrogen Sulfide in Farmington Bay and the Great Salt Lake: A Potential Odor-Causing Agent. Central Davis Sewer Improvement District. (2004; \$7,694).

2002-2003

Wurtsbaugh, W., M. Baker, R. Hall and J. Haefner. Influence of stream-lake interactions on nutrient transport and function of aquatic ecosystems: Modeling, ¹⁵N experiments and watershed analyses. National Science Foundation (3 yr, 2002-2005; \$1,008,315).

Wurtsbaugh, W. and M. Baker. Research Experiences for Undergraduates (REU), as an addendum to our NSF grant on Stream-Lake interactions on nutrient transport. (2002; \$11,000).

Wurtsbaugh, W. Research on Water Pollution in Farmington Bay of the Great Salt Lake: Human and Environmental Impacts. CURI grant, Utah State University (2002-03; \$40,000).

Wurtsbaugh, W., J. Cole, D. McKnight, Pat Brezonkik, S. MacIntyre and Ken Potter. Emerging Research Issues for Limnology, The Study of Inland Waters: An NSF / ASLO sponsored workshop. National Science Foundation (2002; \$68,610; administered through University Corporation for Atmospheric Research, Joint Office for Science Support, Boulder, Colorado).

2001-2002

Wurtsbaugh, W., M. Baker, R. Hall and J. Haefner. Influence of stream-lake interactions on nutrient transport and function of aquatic ecosystems: Modeling, ¹⁵N experiments and watershed analyses. National Science Foundation (3 yr., 2002-2005; \$1,008,315).

2000-2001

Wurtsbaugh, W. and C. Luecke. Deep chlorophyll layers as export production zones in lake ecosystems: The importance of hydrodynamics and biological transport in the formation and maintenance of metalimnetic production. National Science Foundation (3 yr.; \$612,238).

Wurtsbaugh, W. Eutrophication of Farmington Bay in the Great Salt Lake. Unfunded.

1999-2000

Wurtsbaugh, W., C. Luecke and M.R. Miracle Sole. Ecosystem-level analyses of production processes in lakes: the importance of the deep-chlorophyll layers. Commission for Cultural, Educational and Scientific Exchange between the U.S. and Spain. (2 yr.; \$13,791).

Wurtsbaugh, W. and C. Luecke. Deep chlorophyll layers as export production zones in lake ecosystems: The importance of hydrodynamics and biological transport in the formation and maintenance of metalimnetic production. National Science Foundation (3 yr.; \$612,238).

1998-1999

Wurtsbaugh, W., C. Luecke and M.R. Miracle Sole. Ecosystem-level analyses of production processes in lakes: the importance of the deep-chlorophyll layers. Commission for Cultural, Educational and Scientific Exchange between the U.S. and Spain. (2 yr.; \$13,791).

Wurtsbaugh, W. and C. Luecke. Deep chlorophyll layers as export production zones in lake ecosystems: The importance of hydrodynamics and biological transport in the formation

and maintenance of metalimnetic production. National Science Foundation (3 yr.; \$612,238).

1997-1998

Wurtsbaugh, W. and C. Luecke. Deep chlorophyll layers as export production zones in lake ecosystems: The importance of hydrodynamics and biological transport in the formation and maintenance of metalimnetic production. National Science Foundation (3 yr.; \$612,238).

Wurtsbaugh, W. and C. Luecke. Examination of abundance and spatial distribution of forage fish in Bear Lake, Utah/Idaho. Utah Division of Wildlife Resources (1 yr.; \$30,644).

1996-1997

Wurtsbaugh, W. Examination of taxonomy, abundance and spatial distribution of forage fish in Bear Lake Utah/Idaho. Utah Division of Wildlife Resources (12 months; \$36,378).

Wurtsbaugh, W. Production processes in lakes: effects of submerged inflows on algal growth patterns. Fulbright Fellowship to the Universidad de Valencia, Spain (7 months; \$25,000).

1995-1996

Wurtsbaugh, W. and C. Luecke. Examination of abundance and spatial distribution of forage fish in Bear Lake. Utah Division of Wildlife Resources. \$40,568 (12 months; continuing).

Wurtsbaugh, W. Spatial-temporal analysis of primary productivity in the mountain lake habitat of endangered sockeye salmon. Bonneville Power Administration. \$10,826 (6 months).

Wurtsbaugh, W. Lake Powell aquatic resources education program. U.S. National Park Service. \$15,532 (1 year).

1994-1995

Wurtsbaugh, W. and C. Luecke. Examination of abundance and spatial distribution of forage fish in Bear Lake. Utah Division of Wildlife Resources. \$42,452 (12 months; continuing).

Luecke, C. and **W. Wurtsbaugh**. Assessment of lake fertilization for the enhancement of sockeye salmon production in Redfish Lake. Bonneville Power Admin./Shoban Indian Tribe. \$114,335 (12 month).

Wurtsbaugh, W. Brine shrimp ecology in the Great Salt Lake, Utah. Utah Division of Wildlife Resources. \$15,460 (6 month).

Wurtsbaugh, W. Relationship between the fat index at time of stocking and survivability of rainbow trout. Utah Division of Wildlife Resources. \$18,652.

1993-1994

Wurtsbaugh, W. Brine shrimp ecology in the Great Salt Lake, Utah. Utah Division of Wildlife Resources. \$56,153 (10 months; continuing).

Wurtsbaugh, W. and C. Luecke. Abundance and spatial distribution of forage fishes in Bear Lake. Utah Division of Wildlife Resources. \$80,475/year (continuing).

Wurtsbaugh, W. and C. Luecke. Limnological analysis of Stanley Basin Lakes with respect to potential rehabilitation of sockeye salmon: Bonneville Power Admin./Shoban Indian Tribe; \$185,112/year (continuing).

Wurtsbaugh, W. Relationship between the fat index at time of stocking and survivability of rainbow trout. Utah Division of Wildlife Resources. \$30,541/year (5-year).

Wurtsbaugh, W. and C. Luecke. Examination of the factors controlling the abundance of Bear Lake sculpin and other endemic fishes in Bear Lake. Idaho Fish and Game. \$3,372 (6 months).

Wurtsbaugh, W. and D. Beauchamp. Temporal distribution, population, and trophic dynamics of lake trout and kokanee in Lake Tahoe. Nevada Dept. of Wildlife. \$100,237/year (4-year).

1992-1993

- Wurtsbaugh, W.** and C. Luecke. Examination of the factors controlling the abundance of Bear Lake sculpin and other endemic fishes in Bear Lake. Idaho Fish and Game. \$27,000.
- Luecke, C. and **W. Wurtsbaugh**. Abundance and spatial distribution of forage fishes in Bear Lake. Utah Division of Wildlife Resources. \$82,688.
- Luecke, C. and **W. Wurtsbaugh**. Limnological analysis of Stanley Basin Lakes with respect to potential rehabilitation of sockeye salmon: Bonneville Power Admin./Shoban Indian Tribe; \$209,218/year (continuing).
- Wurtsbaugh, W.** Relationship between the fat index at time of stocking and survivability of rainbow trout. Utah Division of Wildlife Resources. \$34,907/year (5-year).
- Wurtsbaugh, W.** and D. Beauchamp. Temporal distribution, population, and trophic dynamics of lake trout and kokanee in Lake Tahoe. Nevada Dept. of Wildlife. \$100,237/year (4-year).

1991-1992

- Wurtsbaugh, W.** and C. Luecke. Abundance and spatial distribution of forage fishes in Bear Lake. Utah Division of Wildlife Resources. \$80,700.
- Luecke, C. and **W. Wurtsbaugh**. Limnological analysis of Stanley Basin Lakes with respect to potential rehabilitation of sockeye salmon: Bonneville Power Admin./Shoban Indian Tribe; \$208,200/year (continuing).
- Wurtsbaugh, W.** Relationship between the fat index at time of stocking and survivability of rainbow trout. Utah Division of Wildlife Resources. \$27,800/year (5-year).
- Wurtsbaugh, W.** and D. Beauchamp. Temporal distribution, population, and trophic dynamics of lake trout and kokanee in Lake Tahoe. Nevada Dept. of Wildlife. \$102,000/year (4-year).

1990-1991

- Luecke, C. and **W. Wurtsbaugh**. Abundance and spatial distribution of forage fishes in Bear Lake. Utah Division of Wildlife Resources. \$60,392.
- Wurtsbaugh, W.A.** and D. Beauchamp. Temporal distribution, population, and trophic dynamics of lake trout and kokanee salmon in Lake Tahoe. Nevada Department of Wildlife. \$103,920/year.
- Wurtsbaugh, W.A.** Ontogenetic changes in the respiratory physiology of Bear Lake sculpin. Max Plank Institut für Limnology. \$5,000.

1989-1990

- Wurtsbaugh, W.** Littoral structure and its effect on the fish community of Lake Tahoe. Tahoe Regional Planning Agency. \$59,411.
- Wurtsbaugh, W.**, T. Modde, C. Luecke and C. Courtney. Impacts of limnological parameters on survival of rainbow trout strains (year 5). Utah Division of Wildlife Resources. \$92,474.

1988-1989

- Wurtsbaugh, W.** Littoral structure and its effect on the fish community in Lake Tahoe. Tahoe Regional Planning Agency. \$65,480.
- Wurtsbaugh, W.** and C. Hawkins. Trophic interactions between fish and invertebrates in Bear Lake, Utah-Idaho (year 3). Utah Division of Wildlife Resources. \$12,619.
- Wurtsbaugh, W.** and T. Modde. Impacts of limnological parameters on survival of rainbow trout strains (year 4). Utah Division of Wildlife Resources. \$98,364.

1987-1988

- Wurtsbaugh, W.** and T. Modde. Impacts of limnological parameters on survival of rainbow trout strains: Predation losses, habitat needs and out-migration of juvenile rainbow trout. Utah Division of Wildlife Resources. \$98,364 (year 3 of 5).
- Wurtsbaugh, W.** and C. Hawkins. Trophic interactions between fish and invertebrates in Bear Lake, Utah-Idaho. Utah Division of Wildlife Resources. \$38,905 (year 2).

1986-1987

- Wurtsbaugh, W.** and T. Modde. Impacts of limnological parameters on survival of rainbow trout strains: Predation losses and habitat requirements of juvenile trout. Utah Division of Wildlife Resources. \$98,952 (year 2 of 5).
- Wurtsbaugh, W.** and C. Hawkins. Trophic interactions between fish and invertebrates in Bear Lake, Utah. Utah Division of Wildlife Resources. \$72,101 (year 1 of 3).
- Sorensen, D., P. Riley, **W. Wurtsbaugh**, and others. Great Salt Lake inter-island diking: Water quality considerations. Utah Division of Water Resources. \$170,563 (1.5-year period).
- Wurtsbaugh, W.** Edaphic factors controlling nitrogen fixation and growth of microbes in Utah's lakes. Unfunded.

1985-1986

- Wurtsbaugh, W.** Impacts of limnological parameters on survival of rainbow trout strains. Utah Division of Wildlife Resources. \$95,681 (year 1 of 5).
- Wurtsbaugh, W.** Bioenergetics of diel feeding migrations in planktivorous fishes. V.P. for Research, USU. \$4,000 (year 2).
- Wurtsbaugh, W.** Limnology of the Great Salt Lake (unfunded).

1984-1985

- Wurtsbaugh, W.** and P. Richerson. Trophic coupling between algae, zooplankton and the pelagic fishes of Lake Titicaca, Peru-Bolivia. National Science Foundation. \$9,892.

1984-1985

- Chapman, J., **W. Wurtsbaugh**, M. Wolfe and J. Kadlec. Fish and Wildlife Research in the tropics: A proposal for Department Involvement in Peru. International Programs, USU. \$10,171.
- Wurtsbaugh, W.** Bioenergetics of diel vertical migrations in planktivorous fishes. V.P. for Research, USU. \$10,830.

1969-1983 (Other projects in which I have actively participated)

- The limnology of Lake Titicaca: Physical variation and biotic processes. NSF (1980-1983).
- Mosquito control in rice fields by fishes. Calif. Mosquito and Vector Control (1978-1979).
- Food-web structure in a large eutrophic lake, Clear Lake, California. NSF (1975-1976).
- Plankton dynamics and control of blue-green algae in Clear Lake, California. Lake Co., CA. (1973 & 1975).
- Ecology of native and exotic fishes in Lake Titicaca, Peru. Instituto del Mar del Peru/US Peace Corps (1973-1974).
- Effects of thermal pollution on the bioenergetics of salmonid production. EPA (1970-1972).
- Laboratory studies on competition between trout and non-game fish in streams. Calif. Fish and Game (1969-1970).
- Feeding and distribution of juvenile trout in a mountain lake. UC Davis & Calif. Fish and Game (1969).
- Effects of micronutrient additions on plankton and trout production in a mountain lake. NSF (1968).

TEACHING EXPERIENCE

- | | |
|---|--|
| - Fish Production: Lentic & Lotic Systems | WATS 6900 (1-2 credit seminar, 2013, USU) |
| - Saline Lake Ecosystems | WATS 6900 (1-2 credit seminar; 2011, USU) |
| - Ecología Acuática | Universidad de Cordoba, Argentina (spring, 2011) |
| - Limnology | WATS 4500 (3 credit; 1983-present, USU) |
| - Limnologie | ETH Switzerland (2005) |
| - Aquatic Ecology Practicum | WATS 4510 (3 credits; 1983-present, USU) |

- Water Pollution WATS 4530/6530 (3 credits.; 1989-96, 98-2009, USU)
- Graduate Ecology WATS 6960 (5 credits., team-taught; 1998, 2003-09 USU)
- Aquatic Biogeochemistry AWER 6910 (1 credit; 2003 USU)
- Fish Ecology FW 675 (3 credits; 1990, 1992, 1993, 1995 USU)
- Production Biology in Fishery Environ. FW 655 (4 credits; 1984, 1986 USU)
- Introduction to Fisheries & Aquatic Res. FW 255 (3 credits; 1985 USU)
- Limnology Laboratory ES 151 (3 credits; 1969 U.C. Davis)
- Bioenergetics of poikilotherms, Seminar FW 691 (2 credits; 1986 USU)
- Resource Competition Seminar FW 691 (2 credits; 1984 USU)
- Trophic Ecology of Fishes Seminar FW 691 (2 credits; 1988 USU)
- Life History Strategies Seminar FW 691 (1 credits; 1994 USU)

ADVISING (2013 only)

- Graduate Students - As committee member - 5
- Undergraduate advisor for Fisheries & Aquatic Sciences Majors, Watershed & Earth Science Dept.

DEPARTMENTAL, COLLEGE & UNIVERSITY COMMITTEES & ACTIVITIES

- Member: USU Undergraduate Research Advisory Board
- Member: Undergraduate Academic Review Committee
- Member: Chemical Hygiene Committee
- Member: USU Honors Program Advisory Board
- Member: USU Honorary Degree & Commencement Speaker Committee
- Chair: Teacher of the Year Awards Committee for CNR
- Member: Academic Freedom and Tenure Committee
- Member: QCNR Undergraduate Scholarship Committee (2011-2014)
- Member: University Chemical Hygiene Committee (1995-present)
- Chair: Search Committee for WATS Aquatic Ecologist (2013, 2014)
- Member: Search Committee for WATS Department Head (2014)
- Chair: Tenure & Promotion Committee for P. Belmont, J. Jing, N. Mesner (2014)
- Member: Tenure & Promotion Committee for J. Gaeta, E. Gese, K. Kettenring, M. Larese-Casanova, K. Mock (2013-2015), Sara Null
- Chair: Post-tenure Review Committee for F. Busby, C. Hawkins, J. Tainter and D. Ramsey (2015)
- Member: College Undergraduate Research Committee (2011- present)

AWARDS AND HONORS

- B.S. with Honors, University of California (1970)
- Graduate Student Mentor of the Year, Dept. of Fisheries & Wildlife, USU (1995)
- Advisor of the Year, College of Natural Resources, USU (2005)
- Honorary Recognition for Education & Human Resources Development, American Society of Limnology & Oceanography (2005)
- Registry of Distinguished Graduates, Dept. of Fisheries and Wildlife, Oregon State University (2006)
- Undergraduate Research Mentor of the Year, College of Natural Resources, Utah State Univ. (2007)
- Teacher of the Year, College of Natural Resources, Utah State University (2009)
- Sustaining Fellow, Association for the Advancement of Limnology and Oceanography (ASLO) (2016)
- Outstanding Service Award (Academic Sector). American Water Resources Association, Utah Chapter (2019)

GRADUATE STUDENTS

- Darcy Neverman. MS 1989. The diel vertical migration and feeding of underyearling Bear Lake sculpin *Cottus extensus* (Pisces, Cottidae). Now Biologist, Missouri Department of Conservation.
- Edmundo G. Moreno. MS 1989. Seasonal variation in the species composition, abundance, and size frequency distribution of zooplankton in Bear Lake, Utah-Idaho. Now, Professor and Dept. Head, Instituto Tecnico del Altiplano, Puno, Peru.
- Ann D. Baker. MS 1989. Variation in trout abundance in relation to habitat quality in a recently disturbed stream: patterns at two spatial scales. Now, Fisheries Biologist, U.S. Fish and Wildlife Service.
- Roger A. Tabor. MS. 1990. The importance of cover for juvenile rainbow trout in lentic systems: Field observations and an experimental study of predation. Now, Fisheries Biologist, U.S. Fish and Wildlife Service.
- Enqiang He. MS 1992. Gastric evacuation rates in fish: An empirical model of the effects of temperature and prey size, and an analysis of digestion in piscivorous brown trout. Now, Utah Department of Environmental Quality.
- Howard Gross. MS 1995. Hydrology and nutrient chemical controls on production of endangered sockeye salmon in the Sawtooth Basin, Idaho. Now working with National Parks Conservation Association.
- Jim Ruzycski. MS 1995. Ontogenetic niche shifts of larval Bear Lake sculpin: the importance of predators and growth. Now Oregon Dept. Fisheries and Wildlife.
- Geoff Steinhart. MS 1997. Winter ecology of sockeye salmon *Onchorhynchus nerka* in the Sawtooth Basin Lakes. Now professor at Lake Superior State University.
- Alan Ward. MS. 2000. Taxonomic evaluation of a whitefish species flock in Bear Lake, Utah/Idaho. Now, Utah Division of Wildlife Resources.
- Alberto Pilati, MS 2000. Nutrient recycling by zooplankton in lakes with deep chlorophyll layers. Professor, University of Santa Rosa, Aregentina.
- Cornelia Sawatzky. MS 2000. The spatial and temporal dynamics of phytoplankton living in deep chlorophyll maxima: effects of herbivore grazing, herbivore recycling, nutrient limitation, and light as growth determinants. Now, Univ. of Idaho
- Kirsten Gallo. Ph.D. 2006. Effects of salmonid introduction on biodiversity of mountain lakes. Now, U.S. Forest Service, Corvallis, OR.
- Donald Ratcliff. M.S. 2006. Evaluating the effectiveness of grass bed treatments as habitat for juvenile bass in a drawdown reservoir. Now, U.S. Forest Service, Redding, CA.
- Amy Marcarelli. Ph.D. 2006. Nitrogen fixation in alpine watersheds measured at the watershed scale. Now, Associate Professor, Michigan Technical University.
- Ryan Lockwood. M.S. 2009. Nitrogen transport, transformation and cycling through a mountain lake, Bull Trout Lake, Idaho, USA.
- Jessica Garrett. M.S. 2010. Effects of lake and stream landscapes on water temperatures in the Sawtooth Mountains, ID. Now working with USGS, Iowa.
- David Epstein. M.S. 2011. Nitrogen transport through mountain lakes measured with ¹⁵N. Now working for SWCA Environmental Consultants.
- Eric McCulley. M.S. 2015. Factors influencing distribution of toxic cyanobacteria in the Farmington Bay estuary of the Great Salt Lake. 2014. Concurrently working for Intermountain Aquatics consultant group.

POST-DOCTORAL ASSOCIATES & VISITING SCIENTISTS SUPPORTED

- Dr. Peter Vaux. 1984. Trophic coupling between algae, zooplankton and the pelagic fishes of Lake Titicaca, Peru-Bolivia. NSF. Now Research Associate Professor, University of Nevada.
- Dr. David Beauchamp. 1990-94. Ecology of fishes in Lake Tahoe, California Nevada. Tahoe Regional Planning Agency and Nevada Dept. Fish and Game. Now Associate Professor, University of Washington.
- Prof. Maciej Gliwicz. 1994-95. Ecology of the Great Salt Lake. Utah Division of Wildlife Resources. Head, Dept. of Hydrobiology, U. of Warsaw.
- Dr. Boqiang Qin, 1999. Hydrodynamics in lake ecosystems. Nanjing Institute of Geography & Limnology, CHINA.
- Dr. Koren Nydick. 2002-2004. Nitrogen cycling in stream-lake landscapes. NSF.
- Dr. Mark Gustafson. 2004. Landscape limnology and insect biodiversity. Texas Lutheran University.
- Dr. David Powelson 2009-10. Water pollution in the Great Salt Lake.
- Mr. Piotrek Maszczyk, 2015. Visiting Polish Ph.D. student (4 months).

PROFESSIONAL SOCIETIES

- Society of Limnology and Oceanography (ASLO)
- American Fisheries Society (AFS)
- Ecological Society of America (ESA)
- International Society for Salt Lake Research (ISSLR)
- International Society of Theoretical and Applied Limnology (SIL)
- Iberian Limnological Society

PROFESSIONAL ACTIVITIES

- Associate Editor, Transactions of the American Fisheries Society (1987-1989)
- Team member; NSF/EPA Initiative on Regional Assessment of Freshwater Ecosystems and Climate Change in North America (1995-1996)
- Chair, Education and Human Resources Committee, American Soc. Limnology & Oceanography (2002-2004)
- Special Session Organizer, Lentic-lotic linkages in freshwaters: Comparisons from Different Ecosystems. ASLO meeting (2002)
- Chair, NSF/ASLO Workshop, Emerging Research Questions for Limnology: The Study of Inland Waters
- Site Review Team, Center for Aquatic Biology and Aquaculture, University of California Davis (2002)
- Chairperson, International Congress of Limnology (1995; 2004)
- Special Session Organizer, The Hydrogeomorphic Landscape, SIL meeting (2004).
- Site Review Team, NSF Long-Term Ecological Research, University of Wisconsin (1998; 2005)
- Team member, Salton Sea Integrated Water Management Plan Evaluation Workshop (2004)
- National Representative of the U.S. Section of the International Society of Limnology (2004-2013)
- Topical Session Organizer, Landscape Limnology: Linking Streams, Lakes, and Wetlands at large spatial scales. ASLO meeting (2005)
- Am. Soc. Limnology & Oceanography's representative to NSF's Integrated Earth Surface Systems Sciences Summit meeting (2005)
- Am. Soc. Limnology & Oceanography's National Meeting Planning Team (Victoria, 2006)
- Associate Editor, Limnologica (2006-present)
- Am. Soc. Limnology & Oceanography Board member (2007-2010)
- Chairperson, Image Library Committee, Am. Soc. Limnology & Oceanography (2007-2012)
- Board Member, Int. Society for Salt Lake Research (2008-2012)
- Chair, 10th Conference of the Int. Society for Salt Lake Research, Salt Lake City, Utah (2008)
- Advisor, Mar Chiquita Research and Education, Cordoba, Argentina (2010)
- Team Member, Great Salt Lake Health Panel, Great Salt Lake Advisory Council (2011-12)

- Diversity Committee, Am. Soc. Limnology and Oceanography (2010-2013)
- Utah Water Quality and Health Advisory Panel (2015—)

COMMUNITY SERVICE

- Member, Utah State Board of Water Pollution Control
- Member, Governor's Acid Rain Technical Committee
Chair, Aquatics Subgroup
- Member, Bear Lake Preservation Project Task Force
- Advisory Board, Friends of Great Salt Lake
- Member, Great Salt Lake Technical Advisory Team
- Board Member, Nordic United
- Member, Beaver Mountain Ski Patrol

- *Reviewer for:*
Journals (see below)

American Midland Naturalist	Fisheries
American Naturalist	Freshwater Biology
American Zoologist	Frontiers in Ecology and the Environment
Aquatic Biosystems	Hydrobiologia
Aquatic Sciences	Hydrological Process
Archiv fur Hydrobiologie	Internat. Vereinigung Theoretische Angewandte
Biotropica	Lake and Reservoir Management
Biogeochemistry	Limnologie
BioScience	Limnetica
Bulletin Southern Calif. Academy of Sci.	Limnology and Oceanography
Canadian J. Fisheries and Aquatic Sci.	Limnology and Oceanography Methods
Chinese J. Oceanology & Limnology	Microbial Ecology
Comparative Biochemistry & Physiology	Oecologia
Copia	Proc. National Acad. Science
Ecology	Proc. Royal Society B
Ecology Letters	North American J. of Lake Management
Ecological Applications	North American J. of Aquaculture
Ecosphere	J. North American Benthological Society
Ecosystems	J. of Plankton Research
Environmental Management	Saline Systems
Environmental Research	Science of the Total Environment
Environmental Science and Technology	Transactions American Fisheries Society
Estuarine, Coastal & Shelf Science	Water Resources Research
	Wetlands

-Review for Organizations and Agencies

- National Science Foundation (Ecosystems, Ecology, Hydrology programs)
- Environmental Protection Agency
- U.S. Man in the Biosphere Program
- U.S. Department of Agriculture, Ecosystem Science Program
- Univ. of Kalyani, West Bengal, Ph.D. outside reviewer
- Univ. of Agriculture Faisalabad, Ph.D. outside reviewer
- Univ. Of Western Australia, Ph.D. outside reviewer
- Univ. of Montana, Faculty promotion outside reviewer
- Univ. of Wisconsin, Faculty promotion outside reviewer

OTHER EXPERIENCE, TRAINING and CERTIFICATIONS

- Bilingual, English and Spanish
- BioSonics Hydroacoustic Short Course (1986)
- SCUBA certification (1977)
- California Junior College Teaching Certificate
- Sigma Xi member

PUBLICATIONS, PRESENTATIONS and CITATIONS - See attached lists

- 94 Peer Reviewed Publications (to Jan. 2021)
- 176 Total Publications (to Jan. 2021)
- 238 Presentations (to Jan 2021)
- Citations (Google Scholar) 5917; h-index 40 (to Jan 2021)

PERSONAL

- Born: Jan. 10, 1948, Denver, CO
- Wife: Linda J. L'Ai (Educator)
- Children: Two

JOURNAL PUBLICATIONS (Links to pdfs: http://works.bepress.com/wayne_wurtsbaugh/)

Underlined names are undergraduate, graduate, or post-doctoral students advised by W. Wurtsbaugh.

Wurtsbaugh, W., R. Brocksen and C. Goldman. 1975. Food and distribution of underyearling brook and rainbow trout in Castle Lake, California. *Trans. Am. Fish. Soc.* 104: 88-95.

Wurtsbaugh, W. and G. Davis. 1976. An apparatus to provide diel temperature regimes for aquatic animals. *Prog. Fish Cult.* 38: 198-199.

Wurtsbaugh, W. and G. Davis. 1977. Effects of temperature and ration level on the growth and food conversion efficiency of rainbow trout, *Salmo gairdneri*, Richardson. *J. Fish Biol.* 11: 87-98.

Wurtsbaugh, W. and G. Davis. 1977. Effects of fish size and ration level on the growth and food conversion efficiency of rainbow trout, *Salmo gairdneri*, Richardson. *J. Fish Biol.* 11: 99-104.

Wurtsbaugh, W. and C. Apperson. 1978. Effects of mosquito control insecticides on nitrogen fixation and growth of blue-green algae in natural plankton associations. *Bull. Environm. Contam. Toxicol.* 19:641-647.

Jacobs, S., A. Colwell and W. Wurtsbaugh. 1979. Laboratory and field studies on the importance of Mississippi silversides, *Menidia audens*, as biological control agents. *Calif. Mosquito and Vector Control Assoc.* 47: 38-41.

Vondracek, B., W. Wurtsbaugh and J. Cech. 1980. Mass marking of *Gambusia*. *Calif. Mosquito and Vector Control Assoc.* 48: 42-44.

Wurtsbaugh, W., J. Cech and J. Compton. 1980. Effects of fish size on prey size selection in *Gambusia affinis*. *Calif. Mosquito and Vector Control Assoc.* 48: 48-50.

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- Wurtsbaugh, W. and H. Li. 1985. Diel migrations of a zooplanktivorous fish (*Menidia beryllina*) in relation to the distribution of its prey in a large eutrophic lake. *Limnol. Oceanogr.* 30: 565-576.
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- Wurtsbaugh, W.A. and D. Neverman. 1988. Post-feeding thermotaxis and daily vertical migration in a larval fish. *Nature* 333:846-848.
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142. LACUSTRINE CONTROL OF NUTRIENT FLUX THROUGH MOUNTAIN WATERSHEDS: PHYSICAL AND BIOLOGICAL MECHANISMS. Am. Soc. Limnology and Oceanography. Salt Lake City, Utah (2005). W. Wurtsbaugh, K. Nydick, C. Arp, M. Baker, J. Haefner, R. Hall.
143. EPIPELON AS A SINK FOR WATER-COLUMN NITRATE? ¹⁵N STUDIES IN A MOUNTAIN LAKE. Am. Soc. Limnology and Oceanography. Salt Lake City, Utah (2005). K. Nydick & W. Wurtsbaugh.
144. THE IMPORTANCE OF AQUATIC NITROGEN FIXATION IN HIGH ALTITUDE SUBALPINE WATERSHEDS OF CENTRAL IDAHO. Am. Soc. Limnology and Oceanography. Salt Lake City, Utah (2005). A. Marcarelli, W. Wurtsbaugh, B. Koch and M. Baker.
145. NUTRIENT LIMITATION AND NITROGEN FIXATION OF PHYTOPLANKTON AND STROMATOLITES IN THE GREAT SALT LAKE (UTAH, USA) UNDER VARYING SALINITIES. Am. Soc. Limnology and Oceanography. Salt Lake City, Utah (2005). J. Parker, J. Robinson, W. Wurtsbaugh and A. Marcarelli.
146. PERVERSIVE TEMPERATURE EFFECTS THROUGH SUB-ALPINE STREAM-LAKE-STREAM SYSTEMS. Am. Soc. Limnology and Oceanography. Salt Lake City, Utah (2005). J. Garrett, A. Marcarelli and W. Wurtsbaugh.
147. EFFECTS OF LAKES AND LANDCOVER CHARACTERISTICS ON STREAMWATER NUTRIENT LEVELS IN SMALL MOUNTAIN WATERSHEDS. Am. Soc. Limnology and Oceanography. Salt Lake City, Utah (2005). P. Brown, W. Wurtsbaugh and K. Nydick.

148. LANDSCAPE LIMNOLOGY IN ALPINE CATCHMENTS: LINKING PHYSICAL, CHEMICAL AND BIOLOGICAL PROCESSES. University of Minnesota, Minneapolis (invited, 2005). W.A. Wurtsbaugh.
149. HYDROGEOMORPHIC LANDSCAPES AND ECOSYSTEM PROCESSES IN ALPINE CATCHMENTS OF THE SAWTOOTH MOUNTAINS, IDAHO. University of Minnesota, Duluth (invited, 2005). W.A. Wurtsbaugh.
150. TEMPERATURE AND NUTRIENTS INTERACT TO CONTROL NITROGEN FIXATION IN SUBALPINE STREAMS: AN EXPERIMENTAL EXAMINATION. For N. Am. Benthological. Assoc. New Orleans (2005). A.M. Marcarelli and W.A. Wurtsbaugh.
151. LAKE DISRUPTIONS ON SEDIMENT MOBILITY AND EFFECTS ON BENTHIC CHLOROPHYLL. Myers, A.K., A.M. Marcarelli, C.D. Arp, W.A. Wurtsbaugh and M.A. Baker. For N. Am. Benthological. Assoc. New Orleans (2005).
152. PATTERNS OF NUTRIENT CONCENTRATIONS AND LIMITATION ALONG MOUNTAIN WATERSHEDS: SPATIAL AND TEMPORAL CONTROL BY LAKES AND STREAMS. For Ecological Society of Am. Victoria, B.C. (2005) K.R. Nydick, W.A. Wurtsbaugh, P.D. Brown, M.A. Baker, and C. Arp.
153. LANDSCAPE PATTERNS OF STREAMS & LAKES IN MONTANE WATERSHEDS DETERMINE WATER TEMPERATURES & NUTRIENT TRANSPORT: WATERSHED ANALYSES AND ¹⁵N TRACER EXPERIMENTS. For Am. Soc. Limnol. Oceanogr. Spain (2005) W.A. Wurtsbaugh, S.D. Garrett, J.D., G. Burkart, W.E. Fleenor, K.R. Nydick, R.O. Hall, M.A. Baker.
154. SALINITY CONTROLS PLANKTON RESPONSE TO NUTRIENT ENRICHMENT IN FARMINGTON BAY, GREAT SALT LAKE, UTAH. Salt Lake City. Geological Society of America. (2005) A.M. Marcarelli and W.A. Wurtsbaugh.
155. LANDSCAPE LIMNOLOGY STUDIED WITH ¹⁵N TRACER: LINKING LAKES AND STREAMS IN ALPINE WATERSHEDS (Or, what does topography tell us about temperatures, plankton, and fish?). EAWAG Institute, Kastaniambaum, Switzerland. (2005) Invited.
156. LANDSCAPE LIMNOLOGY: LINKING THE PHYSICS, CHEMISTRY AND BIOLOGY OF LAKES AND STREAMS IN ALPINE WATERSHEDS. (2005) Montana State University. Bozeman. Invited.
157. LIMNOLOGICAL ANALYSES OF LINKED STREAM-LAKE ECOSYSTEMS IN ALPINE CATCHMENTS: OR, WHAT DOES TOPOGRAPHY TELL US ABOUT TEMPERATURES, PLANKTON AND BENTHIC INVERTEBRATES? EAWAG Institute, Dübendorf, Switzerland (2005). Invited.
158. ASSESSING THE EFFECTIVENESS OF PLANTED GRASS BEDS IN SHASTA LAKE, CALIFORNIA: METHODS TO EVALUATE THE POSSIBLE BENEFITS FOR JUVENILE BASS. Western Division, Am. Fish. Soc. Salt Lake City, Utah (2004) D.R. Ratcliff. and W.A. Wurtsbaugh
159. DO PLANTED GRASS BEDS ALONG A RESERVOIR MARGIN STIMULATE THE FOOD WEB AND ABUNDANCE OF JUVENILE BASS? Bonneville Chapter, Am. Fish. Soc. Bear Lake, Utah (2005) D.R. Ratcliff, W.A. Wurtsbaugh, and J. Zustak
160. DOES GRASS BED PLANTING STIMULATE THE FOOD WEB AND JUVENILE BASS ABUNDANCE IN A DRAWDOWN RESERVOIR? Am. Fish. Soc. Annual Meeting. Anchorage, Alaska (2005) D.R. Ratcliff, W.A. Wurtsbaugh, and J. Zustak - Honorable Mention, Student Poster
161. SEVERE EUTROPHICATION AND FOOD WEB DYNAMICS OF AN URBAN EMBAYMENT OF THE GREAT SALT LAKE, UTAH, USA. Int. Soc. Salt Lake Research. Perth, Australia (2005). W.A. Wurtsbaugh and A. Marcarelli.

162. UNDERSTANDING LIMITING NUTRIENTS FOR ALGAL PRODUCTION: EXPERIENCES FROM LOWLAND HYPERSALINE LAKES TO OLIGOTROPHIC ALPINE SYSTEMS IN AMERICA AND EUROPE. Botanisches Institute, University of Innsbruck, Austria. (2006) Invited.
163. LANDSCAPE LIMNOLOGY: LINKING PHYSICAL, CHEMICAL AND BIOLOGICAL PROCESSES IN STREAMS AND LAKES (OR, WHAT DOES TOPOGRAPHY TELL US ABOUT TEMPERATURES, PLANKTON AND FISH?) Ecology Dept. University of Innsbruck, Austria. (2006) Invited.
164. LANDSCAPE LIMNOLOGY: UNDERSTANDING LINKED STREAM-LAKE ECOSYSTEMS. Konstanz University, Konstanz, Germany. (2006). Invited.
165. SEVERE EUTROPHICATION AND FOOD WEB DYNAMICS OF AN URBAN EMBAYMENT OF THE GREAT SALT LAKE, UTAH, USA. EAWAG Institute, Kastaniambaum, Switzerland. (2006) Invited.
166. THE GREAT SALT LAKE, USA: BIODIVERSITY IN A THREATENED HYPERSALINE ECOSYSTEM. ETH University, Zurich, Switzerland. (2006). Invited.
167. LANDSCAPE LIMNOLOGY: UNDERSTANDING LINKED STREAM-LAKE ECOSYSTEMS IN SUB-ALPINE CATCHMENTS. University of Salzburg. (2006). Invited.
168. LANDSCAPE LIMNOLOGY OF STREAMS AND LAKES IN THE SWISS ALPS. Am. Soc. Limnology and Oceanography. Victoria, Canada (2006). W. Wurtsbaugh and D. Tonolla.
169. CONVOLUTED UPBRINGING—TWISTED CAREER. Research Advances in Fisheries, Wildlife, and Ecology Symposium. Oregon State University (2006). Invited.
170. CONCEPTUAL MODEL FOR SELENIUM CYCLING IN THE GREAT SALT LAKE. Am. Geophysical Union. San Francisco (2006). W. Johnson, M.R. Conover, W.A. Wurtsbaugh, J. Adams, D.L. Naftz. City, UT
171. EUTROPHICATION ISSUES IN FARMINGTON BAY AND THE GREAT SALT LAKE, UTAH. Utah Department of Environmental Quality. (2007). W.A. Wurtsbaugh. Invited.
172. ANALYSIS OF SELENIUM BIOACCUMULATION IN BENTHIC FOOD WEBS OF THE GREAT SALT LAKE, UTAH. Utah Division of Water Resources and the Great Salt Lake Science Panel. (2007) W.A. Wurtsbaugh. Invited.
173. EUTROPHICATION IN FARMINGTON BAY: A POLLUTED EMBAYMENT OF THE GREAT SALT LAKE. Great Salt Lake Alliance. (2007). W.A. Wurtsbaugh. Invited.
174. BENTHIC FOOD WEB ANALYSES OF MERCURY BIOACCUMULATION IN THE GREAT SALT LAKE: PROPOSED STUDIES. Great Salt Lake Mercury Team. (2007) W.A. Wurtsbaugh. Invited.
175. EUTROPHICATION IN FARMINGTON BAY AND ITS POTENTIAL IMPACTS ON WILDLIFE. Utah Wetlands Foundation., Salt Lake City, Utah. (2007). W.A. Wurtsbaugh. Invited.
176. LAKE LANDSCAPES BUFFER NUTRIENT FLUX AND ALGAL PRODUCTION IN MOUNTAIN WATERSHEDS. (2007) W.A. Wurtsbaugh, M.A. Baker, and H.W. Gross. Verhandlungen IVL 30 Part 3: p. 360. Abstract (2008).
177. NUTRIENT SUBSIDIES FROM EMBAYMENTS INFLUENCE BRINE SHRIMP GROWTH RATES IN THE GREAT SALT LAKE. (2007) W.A. Wurtsbaugh, D.L. Naftz, and S.R. Bradt.
178. A PRELIMINARY ANALYSIS OF "LAKE STENCH" IN THE GREAT SALT LAKE (2007). Utah State University Runoff Conference. K. Bell and W. Wurtsbaugh.
179. NUTRIENT LOADING, LINKAGES AMONG BAYS, AND EUTROPHICATION IN THE GREAT SALT LAKE (2008). Utah Department of Natural Resources Great Salt Lake Technical Team meeting, Salt Lake City. W.A. Wurtsbaugh, D.L. Naftz, and S.R. Bradt.

180. LOADING AND BIOGEOCHEMICAL CYCLING OF ANTHROPOGENIC CONTAMINANTS IN GREAT SALT LAKE, UTAH (2008) D.L. Naftz, C. Fuller, W.P. Johnson, W. Wurtsbaugh, K. Beisner, X. Diaz and M. Burkardt. European Geosciences Union.
181. EUTROPHICATION AND CONNECTIVITY AMONG BAYS OF THE GREAT SALT LAKE: WHAT HAPPENS IN FARMINGTON BAY DOESN'T STAY IN FARMINGTON BAY. Utah State University's 4th Annual Interdisciplinary Water Conference: Water Science and Water Management in a Water-Short West (2008). Logan, Utah. W.A. Wurtsbaugh, D.L. Naftz, and S.R. Bradt.
182. NUTRIENT LIMITATION OF PHYTOPLANKTON BY NITROGEN AND PHOSPHORUS: EROSION OF THE PHOSPHORUS PARADIGM. (2009). Am. Soc. Limnol. Oceanography, Nice, France. W.A. Wurtsbaugh and W. Lewis III.
183. FRESHWATER RESPONSES TO NITROGEN AND PHOSPHORUS POLLUTION AND A CASE STUDY OF CUTLER AND DINGLE MARSH WETLANDS. (2009) Water Initiative Seminar Series, Utah State University, Logan, Utah. W.A. Wurtsbaugh.
184. TEMPORAL AND SPATIAL VARIATION OF NUTRIENT AVAILABILITY IN MOUNTAIN LAKES. Utah State University Runoff Conference (2009). C. Dixon and W.A. Wurtsbaugh.
185. NITROGEN FLOW PATHWAYS THROUGH AN ALPINE LAKE. (2009). Utah State University Runoff Conference (2009). D.M. Epstein and W.A. Wurtsbaugh.
186. MERCURY POOLS OF THE GREAT SALT LAKE. (2009). Utah State University Runoff Conference (2009). C.W. Izdepski and W.A. Wurtsbaugh.
187. THE INFLUENCE OF WATERSHED COMPLEXITY ON DOWNSTREAM BIOTIC PRODUCTIVITY IN SMALL MOUNTAIN WATERSHEDS. (2009). Utah State University Runoff Conference (2009). M.J. Kang and W.A. Wurtsbaugh.
188. STROMATOLITE COMMUNITY ANALYSES AND HEAVY METAL BIOACCUMULATION IN THE GREAT SALT LAKE, UTAH. (2009). Ecological Soc. America. Albuquerque, NM. W.A. Wurtsbaugh and C. Izdepski.
189. LIMNOLOGY OF THE GREAT SALT LAKE: ONE CRAZY PLACE. (2010). Venture Academy, Ogden, UT. W. Wurtsbaugh. (invited)
190. SEVERE EUTROPHICATION IN FARMINGTON BAY, A POLLUTED BAY IN THE GREAT SALT LAKE. Friends of Great Salt Lake Forum. Salt Lake City (2010). W. Wurtsbaugh, A. Marcarelli and G. Boyer.
191. STROMATOLITE BIOTIC COMMUNITIES IN THE GREAT SALT LAKE: THEIR IMPORTANCE FOR SELENIUM AND MERCURY BIOACCUMULATION IN THE FOOD WEB. Am. Soc. Limnol. Oceanography. Santa Fe (2010). W.A. Wurtsbaugh.
192. DO ARTEMIA BIOACCUMULATE METHYLMERCURY FROM THE MONIMOLIMNION OF THE GREAT SALT LAKE (UTAH)? Santa Fe (2010). E. Fleming and W.A. Wurtsbaugh.
193. LANDSCAPE LIMNOLOGY: INFLUENCE OF UPSTREAM LAKES ON DOWNSTREAM PRODUCTIVITY OF A WATERSHED. Am. Soc. Limnol. Oceanography. Santa Fe (2010). M. Kang, W. Wurtsbaugh and M. Baker.
194. THE GREAT SALT LAKE'S DEEP BRINE LAYER AND ITS IMPORTANCE FOR MERCURY BIOACCUMULATION IN BRINE SHRIMP. Wayne Wurtsbaugh and Erin Jones. Forestry, Fire and State Lands Great Salt Lake Technical Team (July 2010).
195. MONITORING WATER QUALITY OF GREAT SALT LAKE USING LANSAT 5 THEMATIC MAPPER (TM). Kang, M.J., C. Neale and W.A. Wurtsbaugh. Runoff Conference, Utah State University, Logan, UT. (2011).

196. BRINE SHRIMP BIOACCUMULATION OF MERCURY FROM THE DEEP BRINE LAYER OF THE GREAT SALT LAKE. E. Fleming and W.A. Wurtsbaugh. Runoff Conference, Utah State University, Logan, UT. (2011).
197. NUTRIENT LIMITATION IN MAR CHIQUITA (CORDOBA, ARGENTINA). A. Pilati, W.A. Wurtsbaugh, M. Castellino, E.D. Curto, and E.H. Bucher. Internat. Soc. For Salt Lake Research. Miramar, Argentina, (2011).
198. MERCURY AND SELENIUM BIOACCUMULATION IN THE STROMATOLITE COMMUNITY IN THE GREAT SALT LAKE, UTAH. W.A. Wurtsbaugh and C.W. Izdepski. Internat. Soc. For Salt Lake Research. Miramar, Argentina, (May, 2011; invited).
199. PALEOLIMNOLOGICAL ANALYSIS OF EUTROPHICATION AND ARTEMIA CRYPTOBIOLOGY IN THE GREAT SALT LAKE (USA). W.A. Wurtsbaugh, P.R. Leavitt and K.A. Moser. Internat. Soc. For Salt Lake Research. Miramar, Argentina, (May, 2011; invited).
200. ECOLOGIA Y CONTAMINACION DEL GRAN LAGO SALADO, (EEUU). W.A. Wurtsbaugh. Universidad de la Pampa, Santa Rosa, Argentina (March, 2011; invited)
201. LAGOS EN CUENCAS HIDROGRFICAS DE MONTANA: TRANSPORTE DE NUTRIENTES, LA HIDROLOGIA Y LOS SALMONES. W.A. Wurtsbaugh. Universidad de Comahue, Bariloche, Argentina, (April 2011; invited).
202. LIMNOLOGIA Y ECOLOGIA DE LOS SALMONES ROJAS EN LAS MONTNAS DE SAWTOOTH, IDAHO, USA. W.A. Wurtsbaugh. Universidad Nacional de Salta, Argentina, (June, 2011, invited).
203. ECOLOGIA Y LA CONTAMINACION DEL GRAN LAGO SALADO (EEUU). W.A. Wurtsbaugh. Instituto de PROIMI, Tucuman, Argentina, (June, 2011; invited).
204. EL GRAN LAGO SALADO DE LOS ESTADOS UNIDOS: CONTAMINACION Y UN ANALISIS PALEOLIMNOLOGICO DE LOS CAMBIOS. W.A. Wurtsbaugh. Facultad de Geologia, Universidad de Cordoba, Argentina. (June, 2011; invited).
205. MERCURY IN THE PELAGIC AND BENTHIC FOOD WEBS OF THE GREAT SALT LAKE. W.A. Wurtsbaugh and E. Fleming. Great Salt Lake Technical Team, Salt Lake City. (June 2011; invited).
206. BIOTROME COMMUNITIES AND MERCURY AND SELENIUM BIOACCUMULATION IN THE GREAT SALT LAKE (UTAH, USA). Wayne A. Wurtsbaugh, Jodi Gardberg and Caleb Izdepski. Great Salt Lake Technical Team, Salt Lake City. (July 2011; invited).
207. NITROGEN AND PHOSPHORUS LIMITATION OF ALGAL GROWTH IN WESTERN LAKES. W.A. Wurtsbaugh and W.M. Lewis, Jr. EPA Region 8 Collaborative Workshop: Nutrients and Water Quality. Salt Lake City (Feb. 2011).
208. FISH DIVERSITY IN THE GREAT SALT LAKE. Hannah Moore and Wayne A. Wurtsbaugh. 2012 Great Salt Lake Issues Forum. Salt Lake City (June 2012).
209. MERCURY IN THE BRINE FLY FOOD WEB OF THE GREAT SALT LAKE. Great Salt Lake Issues Forum. Salt Lake City (June 2012; invited).
210. THE HISTORY OF METALS CONTAMINATION IN THE GREAT SALT LAKE, UTAH, REVEALED THROUGH A PALEOLIMNOLOGICAL ANALYSIS. Great Salt Lake Issues Forum. Salt Lake City (June 2012; invited).
209. NITROGEN CONTROL OF ALGAL PRODUC TION IN LINKED FRESHWATER-SALINE ECOSYSTEMS: IS IT WORTH IT? Wayne Wurtsbaugh, Hans. W. Paerl & William M. Lewis, Jr. Assoc. for Soc. Limnology and Oceanography, Otsu, Japan (July 2012; invited Tutorial Talk).

210. INFLUENCE OF DIKING AND CLIMATE ON SALINITIES IN GILBERT AND GUNNISON BAYS OF THE GREAT SALT LAKE. Sarah Null, W. Wurtsbaugh and C. Miller. Great Salt Lake Technical Team meeting, Salt Lake City (Jan 2013; invited).
211. HARMFUL ALGAL BLOOMS IN THE GREAT SALT LAKE (UTAH): SALINITY, NUTRIENT AND TOP-DOWN CONTROLS. Wayne Wurtsbaugh, Amy Marcarelli and Gregory Boyer. Association for the Sciences of Limnology and Oceanography (ASLO). New Orleans (Feb 2013).
212. COMPARATIVE ANALYSIS OF EUTROPHICATION IN THREE BAYS OF THE GREAT SALT LAKE. Wayne A. Wurtsbaugh and Amy Marcarelli. Runoff Conference, Utah State University, Logan, UT (April 2013).
213. CONTAMINACION POR METALES Y LA EUTROFICACION EN EL GRAN LAGO SALADO DE LOS ESTADOS UNIDOS. International Conference on Alto Andean Lakes. Trujillo, Peru. (Sept. 2013; invited).
214. APPROACHES FOR STUDYING FISH PRODUCTION: DO RIVER AND LAKE RESEARCHERS HAVE DIFFERENT PERSPECTIVES? B.G. Laub, K. Wheeler, C. Meredith, S. Null, B. Roper, R. Walker, W. Wurtsbaugh, N. Heredia, H. Mohn, D. Pluth, C. Saunders, and D. Stevens. Joint Aquatic Sciences Meeting, Portland, OR. (May 2014).
215. SALINITY-INDUCED CHANGES IN PLANKTONIC AND BENTHIC COMMUNITIES OF THE GREAT SALT LAKE: A MESOCOSM EXPERIMENT. B.D. Barnes and W.A. Wurtsbaugh. Joint Aquatic Sciences Meeting, Portland, OR. (May 2014).
216. A TOXIC AND DYNAMIC DEEP BRINE LAYER (MONIMOLIMNION) IN THE GREAT SALT LAKE. W.A. Wurtsbaugh. Joint Aquatic Sciences Meeting, Portland, OR. (May 2014).
217. SALINE LAKE PROBLEMS: MERCURY AND EUTROPHICATION IN UTAH'S GREAT SALT LAKE. E.F. Jones and W.A. Wurtsbaugh. Joint Aquatic Sciences Meeting, Portland, OR. (May 2014).
218. INLAND SEAS: OUR SALT LAKES ARE IMPORTANT AND IN TROUBLE. W.A. Wurtsbaugh. Joint Aquatic Sciences Meeting, Portland, OR. (May 2014).
219. MANAGEMENT OF THE GREAT SALT LAKE ECOSYSTEM: WATER, ECONOMIC VALUES AND COMPETING INTERESTS. Saving Lake Urmia Conference. Urmia, Iran, (February 2014; invited).
220. IRAN'S DYING LAKE URMIA: LESSONS FOR THE GREAT SALT LAKE. Great Salt Lake Issues Forum, Salt Lake City (May 2014; invited)
221. INVESTIGATING THE EFFECT OF SALINITY CHANGE ON THE PLANKTONIC AND BENTHIC COMMUNITIES OF THE GREAT SALT LAKE, UTAH: A MESOCOSM EXPERIMENT. Great Salt Lake Issues Forum, Salt Lake City (May 2014; poster)
222. GREAT SALT LAKE: STRANGER IN UTAH'S BACKYARD. Utah State University Science Unwrapped series, Logan, UT (Jan 2015; invited).
223. DO PHOSPHORUS AND NITROGEN ACT SYNERGISTICALLY TO EXACERBATE ALGAL GROWTH AND EUTROPHICATION? Utah State University Spring Runoff Conference, Logan, UT (March 2015).
224. HOW NOT TO DO SCIENCE - REVIEW OF FISH PRODUCTION STUDIES BY LAKE AND RIVER RESEARCHERS. Quinney College of Natural Resources, Logan, UT (April 2015; invited).
225. THE EFFECTS OF SALINITY ON PLANKTON AND BENTHIC COMMUNITIES IN THE GREAT SALT LAKE. W.A. Wurtsbaugh and Brian Barnes. Great Salt Lake Technical Team, Salt Lake City, UT (Dec. 2015; invited)
226. IMPACTS OF WATER DEVELOPMENT ON GREAT SALT LAKE AND THE WASATCH FRONT—ETHICAL QUESTIONS. W. Wurtsbaugh, S. Null, P. Wilcock, F. Howe, M. Hahnenberger and C.

- Miller. 27th Annual Environmental Ethics Symposium, Utah Valley University (March 2, 2016; invited).
227. BRINE SHRIMP GRAZING AND FECAL PRODUCTION INCREASE SEDIMENT EXPORT TO THE DEEP BRINE LAYER (MONIMOLIMION) OF THE GREAT SALT LAKE, UTAH. W.A. Wurtsbaugh and Piotr Maszczyk. Association for the Sciences of Limnology and Oceanography (ASLO). Santa Fe (June 2016).
228. IS CLIMATE CHANGE OR WATER DEVELOPMENT RESPONSIBLE FOR THE DESICCATION OF IRAN'S LAKE URMIA AND THE U.S.'S GREAT SALT LAKE? U.S.—Iran cooperation in addressing many dimensions of climate change. U.S. National Academy of Sciences, Trieste, Italy (24 December 2017, Invited).
228. DESICCATION OF GREAT SALT LAKE: IS IT UTAH'S ARAL SEA? Dept. of Civil and Environmental Engineering, Utah State Univ. (26 January 2018, Invited).
229. LESSONS FROM THE DESICCATION OF THE WORLD'S SALINE LAKES: IS IT TOO LATE FOR GREAT SALT LAKE? Friends of Great Salt Lake Forum. (10 May 2018, Invited).
230. GREAT SALT LAKE'S PEOPLE PROBLEM. Alta Club, Salt Lake City, Utah (19 June 2018, Invited).
231. CAN THE DESICCATION OF GREAT SALT LAKE BE STOPPED? W. Wurtsbaugh, C. Miller, S. Null, R.J. DeRose, P. Wilcock. Salt Lake Watershed Symposium, Salt Lake City, November 2018.
232. LIMNOLOGY OF GREAT SALT LAKE: A SYSTEM IN PERIL. Weber State University. January 18, 2019.
233. GREAT SALT LAKE: AN INTEGRATOR OF CLIMATE CHANGE AND WATER DEVELOPMENT. American Water Resources Association, Salt Lake City, May 13, 2019.
234. DAY 'N' NIGHTZ: THE EFFECTS OF HYPOXIA ON PELAGIC ZOOPLANKTON POPULATION ESTIMATES AND MIGRATION PATTERNS. S.K. Goldfarb, W. Wurtsbaugh and 42 other authors. GLEON 21 All Hands Meeting, Deerhurst Resort, Ontario, Canada, November 2019.
235. THE GREAT SALT LAKE WATERSHED: MULTIPLE USES AND MULTIPLE CONFLICTS. Utah Division of Wildlife Resources, Salt Lake City. (12 November, 2019; Invited).
236. IMPACTS OF EUTROPHICATION ON BENTHIC INVERTEBRATES & FISH PREY OF BIRDS IN FARMINGTON AND BEAR RIVER BAYS OF GREAT SALT LAKE. Division of Forestry, Fire and State Lands (13 Aug 2019; Invited). With Trip Armstrong.
237. THE GREAT SALT LAKE: STRANGER IN YOUR BACKYARD. Stokes Nature Center Canyon Conversations (22 Feb 2020; Invited)
238. GREAT SALT LAKE CAUSEWAY: RECENT MODIFICATIONS, LAKE LEVEL, AND SALINITY. USU-Lake Urmia Recovery workshop. (1 Dec 2020; Virtual; Invited). With Sarah Null.
239. GREAT SALT LAKE: GOING, GOING, GONE? League of Women Voters, Logan, UT. (4 May 2022; Invited).
240. GREAT SALT LAKE MORPHOLOGY, STREAMFLOW AND LAKE BED EXPOSURE (POSTER). Wayne Wurtsbaugh and David Tarboton. Friends of Great Salt Lake Issues Forum (19 May 2022; invited).
241. THE EFFECTS OF SALINITY ON PLANKTON AND BENTHIC COMMUNITIES IN THE DIFFERENT BAYS OF GREAT SALT LAKE. Friends of Great Salt Lake Issues Forum, Salt Lake City, UT (18 May 2022; invited).
242. GREAT SALT LAKE: A COMPLEX & DISAPPEARING ECOSYSTEM. Landscape and Environmental Planning class, Utah State University (1 Sept. 2022; invited).

243. CAN GREAT SALT LAKE BE SAVED? USU's Dept. of Civil and Environmental Engineering seminar (10 Nov. 2022; invited).

PUBLIC OUTREACH & MEDIA APPERENCES (not listed prior to 2015)

1. [Salt Lake Tribune newspaper interview](#) on mercury in the Great Salt Lake, February 2012.
2. [Salt Lake Tribune interview on Great Salt Lake desiccation](#), February, 2015.
3. Salt Lake Tribune interview on lake levels and pollution. May, 2015.
4. KVNU radio interview on the Great Salt Lake. 13 Jan 2015, 30 minutes.
5. Utah Public Radio interview on the Great Salt Lake. 15 Jan 2015, 15 minutes
6. Science Unwrapped public lecture, Utah State University. 16 Jan 2015
7. Le Grand Lac de Sale (The Great Salt Lake) Secrete Life of Lakes Series, NOVA Media, ARTE France (released 2015). Featured in four segments.
8. [Great Salt Lake's Iranian 'twin' is drying up](#). KSL Television, Salt Lake City. July 12, 2015.
9. [Is drought to blame for drop in Utah's Great Salt Lake? Not likely](#). Ogden Standard Examiner, October 01, 2015.
10. [Déjà vu: is Lake Urmia's demise a warning for Great Salt Lake?](#) Ogden Standard Examiner, October 8, 2015.
11. [Researchers: Don't blame the Great Salt Lake for bad smell](#). Associated Press. 18 Oct. 2015.
12. [Researchers Warn About Impacts of Shrinking Great Salt Lake](#). KUER Public Radio Station, Salt Lake City, Utah. February 24, 2016.
13. [Researchers: Don't blame drought for low Great Salt Lake](#). Salt Lake Tribune, February 24, 2016.
14. [Will the Great Salt Lake be reduced to dust?](#) Deseret News and KSL.COM, February 24, 2016.
15. [Study evaluates humans' impact in dropping Great Salt Lake](#) Ogden Standard Examiner, February 24, 2016.
16. [Dry Lake City: USU Ecologists say Great Salt Lake is Shrinking](#). Utah State Today. February 25, 2016.
17. [Utah researchers cite upstream diversions for decline in Great Salt Lake levels](#). Feb. 25, 2016. Mountain West News
18. [Utah: Great Salt Lake has shrunk 48% since 1847 and scientists fear it will disappear](#). International Business Times, February 29, 2016
19. [The Great Salt Lake, Better Off Without Us](#). UPR radio, February 29, 2016.
20. [Utah: Great Salt Lake has shrunk 48% since 1847 and scientists fear it will disappear](#). Yahoo News. February 29, 2016.
21. [Utah's Great Salt Lake is shrinking](#). Global Environmental Society. March 1, 2016.
22. [Shrinking Great Salt Lake](#). Lake Scientist. March 1, 2016.
23. [Thanks to Humans, the Great Salt Lake Is Drying Up: Diverting more water could pose serious health and economic threats to Utah](#). The Atlantic, Citylab. March 2, 2016.
24. [Thanks to humans the Great Salt Lake is drying up](#). MSN News. March 3, 2016.
25. ["Use it more wisely": USU professors warn of Great Salt Lake's lowering water levels](#). Herald Journal, Logan, UT. March 2, 2016.
26. [Researchers: Utah's Great Salt Lake is drying up](#). Huston Chronicle. March 4, 2016.
27. [Great Salt Lake, Utah's Defining Feature, Is Shrinking, Study](#). Counsel & Heal News, March 5, 2016.
28. [Great Salt Lake: Utah's Defining Feature Is Shrinking, Study Says](#). HNGN, March 5, 2016.
29. [The Great Vanishing Act of Utah's Great Salt Lake](#). Newser, March 8, 2016
30. [Human intervention has caused Utah's Great Salt Lake to shrink](#). Digital Journal, March 8, 2016.
31. [Utah's Great Salt Lake Is Shrinking, And Scientists Say We're To Blame](#). Huffington Post, March 9, 2016.
32. [Bolivia's Second-Largest Lake Dries Up: Is Utah's Great Salt Lake Next?](#) EcoWatch, March 10, 2016.

33. [Scientists are worried this US lake could disappear entirely](#). CanMua News, March 9, 2016.
34. [Utah's Great Salt Lake Rapidly Vanishing](#). MADMIKESAMERICA, March 13, 2016
35. [Utah's Great Salt Lake is shrinking, experts say](#). Accuweather, March 23, 2016.
36. [Taming Toxic Algae Blooms](#). Janet Pelly, ACS Central Science, 2016.
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