

Curriculum vitae of Thomas H. Chrzanowski

Professor
Department of Biology, P.O. Box 19498
University of Texas at Arlington
Arlington, Texas 76019
817.272.2404 voice
817.272.2855 fax
Chrzanowski@uta.edu

Education:

Doctor of Philosophy	1981. University of South Carolina. Emphasis in Microbiology, Microbial Ecology. Dissertation title: Material fluxes through the North Inlet marsh system.
Master of Science	1976. University of South Carolina. Emphasis in Mycology, Microbial Ecology. Thesis title: The nutritional value of the yeasts <i>Rhodotorula glutinis</i> var. <i>rubescens</i> and <i>Torulopsis ernobii</i> for the fiddler crab <i>Uca pugilator</i> .
Bachelor of Arts	1974. Bloomfield College, <i>cum laude</i> graduate. Recipient of the Bloomfield College Scholarship for Academic Achievement; Bloomfield College Scholarship Key; and the Bloomfield College Service Key.

Employment History:

University of Texas at Arlington:	Professor of Biology, 1994-present Associate Professor of Biology, 1987-1994 Assistant Professor of Biology, 1981-1987
University of South Carolina:	Instructor, General Microbiology, Summer 1977, Spring and Summer 1978.

Service to the University of Texas:

System	Faculty Advisory Council to the Board of Regents (with associated committees) Search Committee for the President of the University of Texas at Arlington
University	Member of the Graduate Faculty Radiation Safety Committee Faculty Advisor to Environmental Institute for Technology Transfer Long-Range Planning Committee Search Committee for the Vice Provost and Dean of the Graduate School Task Force on Computer Integration and Technology Planning Undergraduate Assembly Graduate Assembly (Secretary, Chair) Faculty Senate (Chair, Chair Presidential Advisory Committee, numerous committees requiring presentations and interactions with community leaders at social gatherings)
College	Search Committee for the Department Chair (Biology) Long Range Goals
Department	Search Committee (multiple appointments, Chairman often) Advisory Committee (multiple, elected) Safety (radiation and general) Undergraduate Curriculum Committee Graduate Curriculum (Ph.D. Program Development Committee) Tenure and Promotion (member, Chairman) Equipment Purchases

Professional activities:

Educational	Nominated for the Chancellor's Award for Excellence in Teaching, 1991 Recipient Chancellor's Award for Excellence in Teaching, 1992 Nominated for Science Teacher of the Year, 1995 Undergraduate Courses: General Microbiology, Environmental Microbiology, Microbial Diversity, Microbial Structure and Function Graduate Courses: Ethics, Graduate Research
Scholarly	Research Associate, Baruch Institute for Marine Science, 1981-current. Research Professor, Universidad Automona de Guadalajara, Mexico, 1988-1990 Member of the Editorial Board, Journal Experimental Mar. Biol. and Ecol., 1984-1992. Associate Editor, Estuaries, 1986-1989. ad hoc Reviewer for National Science Foundation ad hoc Reviewer for Hudson River Foundation National Science Foundation, Special Emphasis Panel, Division of Environmental Biology Doctoral Dissertation Improvement Grants, twice in 1993. National Science Foundation, panel consultant to Atmospheric Sciences Division, 1993. Elected to Fellowship in the American Academy of Microbiology, 1993 International Scientific Program Committee for the Fourth International Conference on Reservoir Limnology and Water Quality, 2002 Recipient of The University of Texas at Arlington Research Excellence Award, 2005, 2006 Reviewer for: Marine Ecology Progress Series Experimental Marine Biology and Ecology Microbial Ecology Limnology and Oceanography Applied and Environmental Microbiology Water Research Aquatic Ecology Aquatic Microbial Ecology
Associations	American Society for Microbiology (National) Convener, Metabolism/Aquatic Environments, Annual Meeting, New Orleans, LA., 1983 Chair, Symposium on Freshwater Microbial Ecology, Annual Meeting, St. Louis, MO., 1984 Nominations Committee of the Aquatic and Terrestrial Division, 1984 Nominated for Chairman-Elect, Aquatic and Terrestrial Division, 1989 Microbial Ecology Division Alternate Councilor 1991-1993, Councilor 1993-1995 Co-Chair, Nutrient acquisition - cycling in aquatic environments, Annual Meeting, Atlanta, GA, 1993 Nominations Committee (Chair) for Division N (Microbial Ecology), 1994 American Society for Microbiology (Texas Branch) Convener for General Microbiology Session for the Spring Meeting, 1982 Member of the O.B. Williams Award Committee, 1982-1989 Sigma Xi (Branch) Treasurer, 1990-1993 Admissions Committee, 1989-1993 American Society for Limnology and Oceanography

Research Publications:

1. Chrzanowski, T.H. and G.T. Cowley. 1977. Response of *Uca pugilator* to diets of two selected yeasts. *Mycologia* 69:1062-1068.
2. Stevenson, L.H., T.H. Chrzanowski and C.W. Erkenbrecher. 1979. ATP: Conceptions and misconceptions. pp. 99-116. In: J.W. Costerton and R.R. Colwell (eds.), *Native aquatic bacteria: Enumeration, activity and ecology*. Am. Soc. for Testing and Materials, Philadelphia, p. 214.
3. Chrzanowski, T.H., L.H. Stevenson and B. Kjerfve. 1979. Adenosine 5'-triphosphate flux through the North Inlet marsh system. *Appl. Environ. Microbiol.* 37:841-854.
4. Weiland, R.T., T.H. Chrzanowski and L.H. Stevenson. 1979. Influence of salinity on microbial biomass in salt-marsh creeks. *Estuaries* 2:126-128.
5. Chrzanowski, T.H. and L.H. Stevenson. 1979. Material fluxes through the North Inlet marsh system: Short term fluctuations of fungi and related parameters. *Mycol.* 71:958-967.
6. Chrzanowski, T.H. and L.H. Stevenson. 1980. Filamentous fungal propagules as potential indicators of sediment-detritus resuspension. *Bot. Mar.* 23:251-256.
7. Cowley, G.T. and T.H. Chrzanowski. 1980. Yeast in the habitat and nutrition of the fiddler crab *Uca pugilator*. *Bot Mar.* 23:397-403.
8. Stevenson, L.H., T.H. Chrzanowski and B. Kjerfve. 1980. Short-term fluxes through major outlets of the North Inlet marsh in terms of adenosine 5'-triphosphate. pp. 355-369. In: P. Hamilton (ed.) *Wetland and Estuarine Processes and Water Quality Modeling*. Plenum Publishing Corp., NY.

Research Publications continued:

9. Stevenson, L.H. and T.H. Chrzanowski. 1981. Marine bacteria. pp. 71-84. In: F. J. Vernberg (ed.), *Functional adaptations of marine organisms*. Academic Press, New York.
 10. Wilson, C.A., L.H. Stevenson and T.H. Chrzanowski. 1981. The contribution of bacteria to the total adenosine triphosphate measured in the water of a salt marsh creek. *J. Exp. Mar. Biol. Ecol.* 50:183-195.
 11. Stevenson, L.H., C.A. Wilson and T.H. Chrzanowski. 1981. The assay of adenosine 5'-triphosphate extracted from salt-marsh microbiota. *Can. J. Microbiol.* 27:633-635.
 12. Chrzanowski, T.H., L.H. Stevenson and B. Kjerfve. 1981. Microbial biomass variability in salt marsh-creek cross-sections. *Marine Geology* 40:155-170.
 13. Kjerfve, B., L.H. Stevenson, J.A. Proehl and T.H. Chrzanowski. 1981. Estimation of material fluxes in an estuarine cross-section: A critical analysis of spatial measurement density and errors. *Limnol. Oceanogr.* 26:325-335.
 14. Stevenson, L.H., T.H. Chrzanowski and C.W. Erkenbrecher. 1981. Temporal fluctuations in the density of filamentous fungal propagules in the water of a high-marsh creek. *Mycol.* 73:274-281.
 15. Chrzanowski, T.H., L.H. Stevenson and J.D. Spurrier. 1982. Seasonal variability and transport of microfungi in a southeastern salt marsh. *Appl. Environ. Microbiol.* 43:392-396.
 16. Chrzanowski, T.H., L.H. Stevenson and J.D. Spurrier. 1982. Transport of particulate organic carbon through the North Inlet ecosystem. *Mar. Ecol. Prog. Ser.* 7:231-235.
 17. Chrzanowski, T.H., L.H. Stevenson and J.D. Spurrier. 1982. Transport of microbial biomass through the North Inlet ecosystem. *Microbial Ecol.* 8:139-156.
 18. Lackland, D.T., E.H. Liu, D.E. Koehler and T.H. Chrzanowski. 1982. Cellulase activity as a measure of environmental perturbation in salt marsh ecosystems. *Bot. Mar.* 25:143-146.
 19. Chrzanowski, T.H., L.H. Stevenson and J.D. Spurrier. 1983. Dissolved organic carbon transport through the North Inlet ecosystem. *Mar. Ecol. Prog. Series* 13:167-174.
 20. Chrzanowski, T.H., R.D. Crotty, J.G. Hubbard and R. Welch. 1984. Applicability of the fluorescein diacetate method for detecting active bacteria in freshwater. *Microb. Ecol.* 10:179-185.
 21. Chrzanowski, T.H. 1985. Seasonality, abundance, and biomass of bacteria in a southwestern reservoir. *Hydrobiologia* 127:117-123.
 22. Wolaver, T.G., G. Whiting, B. Kjerfve, J.D. Spurrier, H. McKellar, R. Dame, T.H. Chrzanowski, R. Zingmark and T. Williams. 1985. The flume design – a methodology for evaluating material fluxes between a vegetated salt-marsh and the adjacent tidal creek. *J. Exp. Mar. Biol. Ecol.* 91:281-291.
 23. Chrzanowski, T.H. and R. Zingmark. 1986. Passive filtering of microbial biomass by *Spartina alterniflora*. *Estuar. Coastal and Shelf Sci.* 22:545-557.
 24. Hubbard, J.G. and T.H. Chrzanowski. 1986. Impact of storms on heterotrophic bacterial activities in a southwestern reservoir. *Appl. Environ. Microbiol.* 51:1259-1263.
 25. Chrzanowski, T.H., J.D. Spurrier, R.F. Dame and R. Zingmark. 1986. Processing of microbial biomass by an intertidal reef community. *Mar. Ecol. Prog. Ser.* 30:181-189.
 26. Dame, R.F., T.H. Chrzanowski, W. Kitchens, B. Kjerfve, H. McKellar, R. Moore, D. Nelson, J.D. Spurrier, S. Stancyk, L.H. Stevenson, F.J. Vernberg and R.G. Zingmark. 1986. The Outwelling Hypothesis and North Inlet, South Carolina. *Mar. Ecol. Prog. Ser.* 33:217-229.
 27. Chrzanowski, T.H. and J.D. Spurrier. 1987. Microbial biomass exchange between a *Spartina alterniflora* grass flat and the adjacent tidal creek. *Estuaries* 10:118-125.
 28. Chrzanowski, T.H. and J.G. Hubbard. 1988. Primary and bacterial secondary production in a southwestern reservoir. *Appl. Environ. Microbiol.* 54:661-669.
 29. Chrzanowski, T.H., R.D. Crotty and J.G. Hubbard. 1988. Seasonal variation in cell volume of epilimnetic bacteria. *Microb. Ecol.* 16:155-164.
 30. Chrzanowski, T.H. 1988. Consequences of accounting for isotopic dilution in thymidine incorporation assays. *Appl. Environ. Microbiol.* 54:1868-1870.
 31. Ellwood, B., T.H. Chrzanowski, F. Hrouda, G.L. Long and M.L. Buhl. 1988. Siderite formation in anoxic deep-sea sediments: A synergistic bacterially controlled process with important implications in paleomagnetism. *Geology* 16:980-982.
 32. Chrzanowski, T.H. and J.G. Hubbard. 1989. Bacterial utilization of algal extracellular products. *Hydrobiologia* 179:61-71.
 33. Chrzanowski, T.H. and R.G. Zingmark. 1989. Bacterial abundance, biomass, and secondary production along a forest to ocean landscape gradient. *J. Exp. Mar. Biol. Ecol.* 125:253-266.
 34. Chrzanowski, T.H. and K. Simek. 1990. Prey-size selection by freshwater flagellated protozoa. *Limnol. Oceanogr.* 37:1429-1436.
 35. Chrzanowski, T.H. 1991. Some aspects of the microbial ecology of north Texas reservoirs. pp. 63-75. In: R. Jensen (ed.). *How healthy is the upper Trinity River? Biological and water quality perspectives*. Texas Water Resources, Texas A&M University, College Station, TX. p.274.
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Research Publications continued:

36. Dame, R.F., J.D. Spurrier, T.M. Williams, B. Kjerfve, R.G. Zingmark, T.G. Wolaver, T.H. Chrzanowski, H.N. McKellar, and F.J. Vernberg. 1991. Annual material processing by a salt marsh-estuarine basin in South Carolina. *Mar. Ecol. Prog. Ser.* 72:153-166.
37. Simek, K. and T.H. Chrzanowski. 1992. Direct and indirect evidence of size selective grazing on pelagic bacteria by freshwater nanoflagellates. *App. Environ Microbiol.* 58:3715-3720.
38. Davalos-Lind, L., R.S. Sada, A. Guerra, G. Velarde, L. J. Orozco, T. H. Chrzanowski, and O. T. Lind. 1992. La producción bacteriana y su importancia en la cadena trófica en el lago de Chapala. *Ingeniería Hidráulica en México* 7:30-37.
39. Chrzanowski, T.H. and K. Simek. 1993. Bacterial growth and losses due to bacterivory in a mesotrophic lake. *J. Plankton Res.* 15:771-785.
40. Chrzanowski, T.H., K. Simek, R. Sada, and S. Williams. 1993. Estimates of bacterial growth rates from thymidine incorporation and variable conversion factors. *Microb. Ecol.* 25:121-130.
41. Lind, O.T., O. Davalos-Lind, T.H. Chrzanowski, and J. G. Limon. 1994. Inorganic turbidity and the failure of fishery models. *Internatl. Rev. gest. Hydrobiol.* 79:7-16.
42. Sterner, R.W., J.J. Elser, T.H. Chrzanowski, J.H. Schampel and N.B. George. 1995. Biogeochemistry and trophic Ecology: A new food web diagram. pp. 72-80. In: *Food Webs: Integration of Patterns and Dynamics*. Chapman and Hall.
43. Chrzanowski, T.H., R.W. Sterner and J.J. Elser. 1995. Nutrient enrichment and nutrient regeneration stimulate bacterioplankton growth. *Microb. Ecol.* 29:221-230.
44. Sterner, R.W., T. H. Chrzanowski and J.J. Elser. 1995. Sources of nitrogen and phosphorus supporting the growth of bacterio- and phytoplankton in an oligotrophic Canadian shield lake. *Limnol. Oceanogr.* 40:242-249.
45. Elser, J.J., T.H. Chrzanowski, R.W. Sterner, J.H. Shampel and D.K. Foster. 1995. Element ratios and the uptake and release of nutrients by phytoplankton and bacteria in three lakes of the Canadian Shield. *Microb. Ecol.* 29:145-162.
46. Chrzanowski, T.H. and M. Kyle. 1996. Ratios of carbon, nitrogen and phosphorus in *Pseudomonas fluorescens* as a model for bacterial element ratios and nutrient regeneration. *Aquat. Microb. Ecol.* 10:115-122.
47. Chrzanowski, T.H., M. Kyle, J.J. Elser and R.W. Sterner. 1996. Element ratios and growth dynamics of bacteria in an oligotrophic Canadian Shield lake. *Aquat. Microb. Ecol.* 11:119-125.
48. Sterner, R.W., J.J. Elser, E.J. Fee, S. J. Guildford and T.H. Chrzanowski. 1997. The Light:Nutrient ratio in Lakes: The balance of energy and materials affects ecosystem functioning. *Am. Nat.* 150:663-684.
49. Lind, O.T., T.H. Chrzanowski and L. Davalos-Lind. 1998. Clay-turbidity and relative production of bacterioplankton and phytoplankton. *Hydrobiologia.* 353:1-18.
50. Elser, J.J., T.H. Chrzanowski, R.W. Sterner and K.H. Mills. 1998. Stoichiometric constraints on food-web dynamics: A whole-lake experiment on the Canadian Shield. *Ecosystems.* 1:1-21.
51. Simek, K., J. Armengol, M. Comerma, J-C. Garcia, T.H. Chrzanowski, M. Macek, J. Nedoma and V. Straskrabova. 1998. Characteristics of protistan control of bacterial production in three reservoirs of different trophic. *Int. Revue ges Hydrobiol.* 83:485-494.
52. Simek, K., J. Armengol, M. Comerma, J.C. Garcia, T.H. Chrzanowski, P. Kojecka, M. Macek, J. Nedoma and V. Straskrabova. 1999. Impacts of protistan grazing on bacterial dynamics and composition in reservoirs of different trophic. pp. 267-282. In: Tundisi, M. and Straskraba, M. [eds.] *Theoretical reservoir ecology and its applications*. Internatl. Inst. Ecol., Brazilian Acad. Sci. Backhuys Publishers.
53. Elser, J., R.W. Sterner, A.E. Galford, T.H. Chrzanowski, D.L. Findlay, K.H. Mills, M.J. Paterson, M.P. Stainton and D.W. Schindler. 2000. Pelagic C:N:P stoichiometry in a eutrophied lake: Responses to a whole-lake food-web manipulation. *Ecosystems* 3:293-307.
54. Grover, J.P. and T.H. Chrzanowski. 2000. Seasonal patterns of substrate utilization by bacterioplankton: case studies in four temperate lakes of different latitudes. *Aquat. Microb. Ecol.* 23:85-95.
55. Chrzanowski, T.H. and J.P. Grover. 2001. Effects of mineral nutrients on the growth of bacterio- and phytoplankton in two southern reservoirs. *Limnol. Oceanogr.* 46:1319-1330.
56. Chrzanowski, T.H. and J.P. Grover. 2001. The Light:Nutrient ratio in lakes: The Light:Nutrient ratio in lakes: A test of hypothesized trends in bacterial nutrient limitation. *Ecol. Letters* 4:453-457
57. Grover, J.P. and T.H. Chrzanowski. 2004. Limiting resources, disturbance, and diversity in phytoplankton communities. *Ecol. Monogr.* 74:533-551.
58. Chrzanowski, T.H. and J.P. Grover. 2005. Temporal coherence in limnological features of two southwestern reservoirs. *Lakes and Reservoir Management.* 21:39-48.
59. Grover, J.P. and T.H. Chrzanowski. 2005. Seasonal dynamics of phytoplankton in two warm temperate reservoirs. *J. Plankt. Res.* 27:1-17.

Research Publications continued:

60. Grover, J.P. and T.H. Chrzanowski. 2006. Kinetics of growth and ingestion in the “smallest zooplankton” – phagotrophic flagellates. *Archiv fuer Hydrobiologie* 167:467-487.
 61. Shannon, S. P., T.H. Chrzanowski, and J.P. Grover. 2007. Prey food quality affects flagellate ingestion rate. *Microbial Ecology* 53:66-73.
 62. Malone, J.H., T.H. Chrzanowski, and P. Michalak. 2007. Sterility and gene expression in hybrid males of *Xenopus laevis* and *X. muelleri*. *PLoS One*. <http://www.plosone.org/article/lookup?articleURI=info:doi/10.1371/journal.pone.0000781>
 63. Chrzanowski, T.H. and J.P. Grover. 2008. Element content of *Pseudomonas fluorescens* varies with growth rate and temperature: A replicated chemostat study addressing Ecological Stoichiometry. *Limnol. Oceanogr.* 53:1242-1251.
 64. Rout, M.E. and T.H. Chrzanowski. 2008. Endophytic diazotrophs: The latest weapon of an exotic invasive grass. *Plant and Soil*, In Press.
 65. Grover, J.P. and T.H. Chrzanowski. 200X. Dynamics and nutritional ecology of a nanoflagellate preying upon bacteria. *Microb. Ecol.* In Review.
 66. Rout, M.E., L. Gough and T.H. Chrzanowski. 200X. Allelopathic displacement of a native prairie plant community by a broadly distributed invasive grass. *Ecology*, In Prep..
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Abstracts published:

1. Chrzanowski, T.H. and G.T. Cowley. 1977. Effects of feeding *Uca pugilator* common salt marsh yeast. Bull. S.C.Acad. Sci. 57.
 2. Lackland, D.T., T.H. Chrzanowski and E.H. Liu. 1977. Cellulase activity in salt marsh sediments. Bull. S.C. Acad. Sci. 57.
 3. Chrzanowski, T.H., L.H. Stevenson and B. Kjerfve. 1978. Tidal mixing in a salt marsh creek. Bacteriol. Proc. 174.
 4. Chrzanowski, T.H. and L.H. Stevenson. 1979. Material fluxes through the North Inlet Marsh system: Characterization of a large creek in terms of adenosine 5'-triphosphate. Bull. S.C. Acad. Sci. 43.
 5. Chrzanowski, T.H. and L.H. Stevenson. 1979. Material fluxes through the North Inlet marsh system: Short term fluctuations of fungi and related parameters. Bull. S.C. Acad. Sci. 43.
 6. Wilson, C.A., L.H. Stevenson and T.H. Chrzanowski. 1979. A comparison of bacterial counts and biomass estimates from size-fractionated estuarine water. Bull. S.C. Acad. Sci. 80.
 7. Cowley, G.T. and T.H. Chrzanowski. 1979. Yeast in the habitat and nutrition of the fiddler crab *Uca pugilator*. Bot. Mar. 22:405.
 8. Stevenson, L.H., T.H. Chrzanowski and C.A. Wilson. 1979. Microbial biomass movements through the North Inlet marsh system. Proc. of the Fifth Biennial Internatl. Estuarine Res. Conference.
 9. Wilson, C.A., L.H. Stevenson and T.H. Chrzanowski. 1979. The contribution of bacterial adenosine 5'-triphosphate to the total adenosine 5'-triphosphate measured in estuarine samples. Annual Meeting of the Southeastern and South Carolina Branches of the Am. Soc. Microbiol., Proc., pg. 32.
 10. Chrzanowski, T.H. and L.H. Stevenson. 1980. Microbial biomass transport: Comparison of transport computation methods. Proc. 80th Natl. Meeting of the Am. Soc. Microbiol., pg. 171.
 11. Wilson, C.A., L.H. Stevenson and T.H. Chrzanowski. 1980. Contribution of bacteria to the ATP measured in estuarine samples. Proc. 80th Natl. Meeting of the Am. Soc. Microbiol., pg. 173.
 12. Chrzanowski, T.H., L.H. Stevenson and J.D. Spurrier. 1981. Particulate organic carbon transport through a temperate salt marsh. Bull. S.C. Acad. Sci. 43:75-76.
 13. Chrzanowski, T.H. and L.H. Stevenson. 1982. Seasonal variability of suspended microfungi in a southeastern salt marsh. Proc. 82nd Natl. Meeting of the Am. Soc. Microbiol., pg. 179.
 14. Dame, R., T.H. Chrzanowski and R. Zingmark. 1982. Primary production and carbon export in the North Inlet marsh-estuarine ecosystem. Bull. Ecol. Soc. of Am. 63:77.
 15. Chrzanowski, T.H., R.G. Zingmark and J.D. Spurrier. 1985. Dynamics of microbial populations in salt marsh transport studies. Proc. of the 85th Annual Meeting of the Am. Soc. Microbiol., pg. 233.
 16. Crotty, R.D. and T.H. Chrzanowski. 1985. Applicability of batch culture incubations for establishing frequency of dividing cells - growth rate calibration curves. Proc. 85th Annual Meeting of the Am. Soc. Microbiol., pg. 233.
 17. Hubbard, J.G. and T.H. Chrzanowski. 1985. Significance of lake mixing on bacterial activities in a southwestern reservoir. Proc. 85th Annual Meeting of the Am. Soc. Microbiol., pg. 234.
 18. Chrzanowski, T.H. and R. Zingmark. 1987. Carbon synthesis by planktonic bacteria along a forest to ocean landscape gradient. EOS 68:1718
 19. Chrzanowski, T.H. and K. Simek. 1990. Prey-size selection by flagellated protozoa. Proc. 90th Annual Meeting of the Am. Soc. Microbiol., pg. 259.
 20. Ruiz de Velasco, L.E., T.H. Chrzanowski, O.T. Lind and L. Davalos. 1990. Unusual thymidine uptake kinetics in a very turbid tropical system. Proc. of the 90th Annual Meeting of the Am. Soc. Microbiol., pg. 259.
 21. Chrzanowski, T.H. and K. Simek. 1990. Prey-size selection by flagellated freshwater protozoa. Proc. of the 1990 Annual Meeting of the Am. Soc. Limnol. and Oceanogr., pg. 16.
 22. Lind, O.T., L.O. Davalos, T.H. Chrzanowski and R.H. Sada. 1990. The microbial ecology of turbid lakes: Clay-organic aggregates and the quantity and cell size of freshwater bacteria. Proc. of the 1990 Annual Meeting of the Am. Soc. Limnol. Oceanogr., pg. 54.
 23. Chrzanowski, T.H., R.H. Sada, O.T. Lind, and L. Davaols-Lind. 1991. Bacterial secondary production in a tropical Lake Chapala. Proc. of the 1991 Annual Meeting of the Am. Soc. Microbiol.. Dallas, Tx., pg. 247.
 24. Williams, S.B. and T.H. Chrzanowski. 1991. Heterotrophic bacterial metabolism and secondary production in a southeastern reservoir. Proc. of the 1991 Annual Meeting of the Am. Soc. Microbiol.. Dallas, Tx., pg. 252.
 25. Chrzanowski, T.H. and K. Simek. 1992. Bacterial growth and grazing losses in a mesotrophic lake. Proc. of the 1992 Annual Meeting of the Am. Soc. Limnol. Oceanogr., Santa Fe, New Mexico
 26. Chrzanowski, T.H. and S.B. Willilams. 1992. Growth rates of aquatic bacteria determined from empirical and theoretical thymidine conversion factors. Proc. of the 1992 Am. Soc. Microbiol. General Meeting, New Orleans, LA.
 27. Lind, O.T., O. Davalos-Lind, and T.H. Chrzanowski. 1992. Clay-Organic aggregates: A way out of the microbial loop? XXV SIL International Congress, Barcelona, Spain. Abst. No. 356.
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Abstracts published continued:

28. Chrzanowski, T.H., R.W. Sterner, J.J. Elser, N. George, and R. McClelland. 1993. Sources of nutrients supporting bacterial growth in a Canadian Shield lake. Proc. of the 1993 Annual Meeting of the Am. Soc. Limnol. Oceanogr., Edmonton, Alberta, Canada. Abstract No. 120.
 29. Lind, O.T., T.H. Chrzanowski, and L.O. Davalos-Lind. 1993. The relation of bacterioplankton production to phytoplankton production in a highly clay-turbid tropical lake. Proc. of the 1993 Annual Meeting of the Am. Soc. Limnol. Oceanogr., Edmonton, Alberta, Canada. Abstract No. 435.
 30. Chrzanowski, T.H., R.W. Sterner, J.J. Elser, N. George, and R. McClelland. 1993. Sources of nutrients supporting bacterial growth in a Canadian shield lake. Proc. of the 1993 General Meeting of the Am. Soc. Microbiol., Atlanta, Georgia.
 31. Kyle, M. and T.H. Chrzanowski. 1994. Stoichiometric ratios of nitrogen and phosphorus in bacteria. Proc. 1994 General Meeting of the Am. Soc. Microbiol., Las Vegas, Nevada. Pg. 316.
 32. Chrzanowski, T.H., R.W. Sterner, and J.J. Elser. 1994. Nutrient enrichment and nutrient regeneration stimulate bacterioplankton growth. Proc. of the 1994 General Meeting of the Am. Soc. Microbiol., Las Vegas, Nevada. Pg. 352.
 33. Chrzanowski, T.H. 1995. Stoichiometry of nitrogen and phosphorus in bacteria predicts nitrogen and phosphorus regeneration by flagellate bacterivores. Proc. of the 1995 General Meeting of the Am. Soc. Microbiol., Washington D.C. Pg. 343.
 34. Simek, K. J. Armengol, J-C Garcia, T.H. Chrzanowski, M. Macek, and V. Straskrabova. 1997. Protistan control on bacterial production in three reservoirs of different trophic. Abstracts of the 3rd International conference on Reservoir Limnology and Water Quality p. 177. Ceske Budejovice, Czech Republic.
 35. Pennebaker, K.M., T.H. Chrzanowski, R.L. Smith, and A.L. Worlock. 2004. Characterization of a phosphorus bioreporter. Proc. of the 2004 General Meeting of the Am. Soc. Microbiol., New Orleans, LA. Pg. 343.
 36. Molina, G., T.H. Chrzanowski, J.P. Grover, P.S. Priambodo, D. Wawro, and R. Magnusson. 2006. Influence of patterned silicone surfaces on *Staphylococcus aureus* biofilm formation. Proc. of the 2006 General Meeting of the Am. Soc. Microbiol., Orlando, FL.
 37. Hanna, N., T.H. Chrzanowski, and J.P. Grover. 2006. Nutrient dynamics influence outcomes in microbial predator-prey interactions. Proc. of the 2006 General Meeting of the Am. Soc. Microbiol., Orlando, FL.
 38. Chrzanowski, T.H., S.P. Shannon, and J.P. Grover. 2006. A comparison of the ingestion and digestion rates of *Ochromonas danica* grazing on *Pseudomonas fluorescens* of varying food quality. Proc. of the 2006 General Meeting of the Am. Soc. Microbiol., Orlando, FL.
 39. Chrzanowski, T.H., S.P. Shannon, and J.P. Grover. 2006. A comparison of the ingestion and digestion rates of *Ochromonas danica* grazing on *Pseudomonas fluorescens* of varying food quality. Proc. of the 2006 General Meeting of the Am. Soc. Microbiol., Orlando, FL.
 40. Chrzanowski, T.H., M.E. Rout, and R.L. Smith. 2008. Detection of viable bacteria and their growth in reagent grade water using the ScanRDI. Proc. of the 2008 General Meeting of the Am. Soc. Microbiol., Boston, MA.
 41. Rout, M.E., and T.H. Chrzanowski. 2008. *Sorghum halepense* and endophytic N-fixing bacteria: Ecosystem engineers altering soil biogeochemistry. Proc. of the 2008 General Meeting of the Am. Soc. Microbiol., Boston, MA.
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Technical, regional, or other reports/publications

Chrzanowski, T.H. 1980. Fungi: Indicators of material transport. Tidings 5:2.

Hellier, T.H., D.H. Whitmore and T.H. Chrzanowski. 1987. Final report on Squaw Creek Reservoir pre-operational monitoring program. 108 p. Submitted to Texas Utilities Generating Company.

Clarke, S. and T.H. Chrzanowski. 2004. The C:N:P stoichiometry of a mixotrophic protozoan grown at different rates. McNair Research Journal 8: 32-33

Ukpong, M. and T.H. Chrzanowski. 2005. Element homeostasis in bacteria. McNair Research Journal 9: 28-29

Chrzanowski, T.H. 2005. Dispersion of fungal spores and assessment of growth in ophthalmic preparations. Submitted to Alcon Research LTC>

Presentations:

Greater than 70 contributed or invited presentations at local, national, and international meetings or conferences. Complete list available upon request.

Approximately 20 invited research seminars. Complete list available upon request.

Funded research activity:

- Use of fungi as an indicator of the export of sediment microflora from a tidal marsh. 1981. \$3,350 from the South Carolina Sea Grant Consortium (NOAA). Approved, funds withdrawn during federal cutbacks (L.H. Stevenson, co-principal investigator).
- Metabolic studies on the bacterioneuston of a freshwater lake. 1981. \$8,000 from the University of Texas at Arlington Organized Research Fund.
- Mechanisms of coupling between the water column and intertidal regions in a southeastern estuarine ecosystem. 1982. \$714,062 from the National Science Foundation (with 10 other investigators).
- Fluorescein diacetate hydrolysis as an indicator of metabolically active bacteria in aquatic systems. 1982. \$3,800 from The University of Texas at Arlington Organized Research Fund.
- Bacterioplankton production and dynamics in a south temperate freshwater ecosystem. 1984. \$114,221 from the National Science Foundation. Approved but not funded.
- Development and application of the technology to measure rates of bacterial secondary production in a southwestern aquatic ecosystem. 1984. \$4,468 from the University of Texas at Arlington Organized Research Fund.
- Development and application of the technology to measure rates of bacterial secondary production in a southwestern aquatic ecosystem. 1984. \$4,500 salary stipend from the University of Texas at Arlington Organized Research Fund.
- Landscape ecology of a southeastern salt marsh: A nutrient cycling Approach. 1985. \$20,645 from the National Science Foundation.
- Biological monitoring program for Squaw Creek Reservoir, Texas prior to start-up of the Comanche Peak nuclear power plant. 1986. \$52,915 from TU Electric company (with 2 other investigators).
- In situ* analysis of thermal effects on bacterial productivity and trophic relationships with protozoa in a reservoir receiving thermal effluent. 1987. \$40,000 from TU Electric Company (with 1 other investigator).
- Microbial Processes in Reservoirs: Regulation of bacteria by grazers. 1988. \$109,612 from the Advanced Research Program of the Texas Higher Education Coordinating Board.
- The importance of clays and dissolved organic carbon to the trophic base of turbid tropical lake ecosystems. 1988. \$100,000 from the National Science Foundation (with 1 other investigator).
- Bacterial secondary production in a reservoir receiving thermal effluents. 1989. \$40,500 from TU Electric Company (with 1 other investigator).
- Trophic structure and the stoichiometry of nitrogen and phosphorus in the pelagic food web. 1992. \$400,000 from the National Science Foundation (with 2 other investigators).
- Research Experiences for Undergraduates: Supplement to: Trophic structure and the stoichiometry of nitrogen and phosphorus in the pelagic food web. 1992. \$4,750 from the National Science Foundation.
- Research Experiences for Undergraduates: Supplement to: Trophic structure and the stoichiometry of nitrogen and phosphorus in the pelagic food web. 1993. \$5,000 from the National Science Foundation.
- Microbial indicators of biological integrity and nutrient stress for aquatic ecosystems. 1997. \$750,000 from the Environmental Protection Agency (ORD-NCERQA)(with 1 other investigator).
- Water quality issues: Real-time assessment of nutrients in aquatic systems. 2001. \$104,550 from the Texas Advanced Research Program
- Kinetics of algal growth in metroplex reservoirs: Bioassay experiments on summertime populations. 2001. \$19,358 from the Trinity River Authority (with one other investigator)
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Funded research activity continued:

The impact of variable stoichiometry on predation and competition: Development of microbial experimental models. 2005. \$332,781 from the National Science Foundation (with 1 other investigator).

Dispersion of fungal spores and assessment of growth in ophthalmic preparations. 2005. \$40,000 from Alcon Research LTD.

Comparison of microbial enumeration of metabolically stressed microorganisms in aqueous samples by Scan RDI™ and Plate count methods. 2006. \$40,000 from Alcon Research LTD.

Numerous small travel grants (each <\$500)
