

ACADEMIC

- Ph.D. DISSERTATION *Solute Transport in a Porous Medium: A Mass-Conserving Solution for the Convection-Dispersion Equation in a Finite Domain*, Louisiana State University, 2003. ^{LL/BR}
- M.S. THESIS *A Theoretical Model of Nitrification in Floating-Bead Filters*, Louisiana State University, 1997. ^{BR/SG/DA}

PEER-REVIEWED

- ACCEPTED IN ORIGINAL FORM W. J. Golz, J. R. Dorroh. 2001. The Convection-Diffusion Equation for a Finite Domain with Time Varying Boundaries. *Applied Mathematics Letters*, 14:983-988. ^{BR}
- ACCEPTED IN REVISED FORM W. J. Golz, K. A. Rusch, R. F. Malone. 1999. Modeling the Major Limitations on Nitrification in Floating-Bead Filters. *Aquacultural Engineering*, 20:43-62. ^{BR/SG/DA}
- IN PROCESS W. J. Golz, D. D. Adrian. On the Convection-Dispersion Equation for a Finite Domain: Third-Type Boundaries as a Necessary Condition of the Conservation Law.

CONFERENCE AND WORKSHOP

- W. J. Golz, K. A. Rusch, R. F. Malone. 1996. Developing Backwash Protocols for Floating-Bead Filters: A Model of Solids-Loading and Biofilm-Retention Effects on Nitrification. In *Aquacultural Engineering Society Proceedings II: Successes and Failures in Commercial Recirculating Aquaculture*, 196-205. ^{BR/SG}
- W. J. Golz, S. Chen, R. F. Malone. 1995. Reducing the Environmental Impact of High Density Fish Production: An Integrated Approach to Solids Treatment for Recirculating Aquaculture Systems using Expandable Granular Biofilters. In *Water Effluent and Quality, with Special Emphasis on Finfish and Shrimp Aquaculture: Proceedings of the Twenty-Fourth U.S.-Japan Aquaculture Panel Symposium*, 157-164. ^{BR/SG}
- W. J. Golz. 1995. Biological Treatment in Recirculating Aquaculture Systems. In *Recirculating Aquaculture in the Classroom: A Training Workshop for Agricultural Science Teachers, a Proceedings of a Workshop Sponsored by the Louisiana Sea Grant College Program, Louisiana State University, and the Louisiana Department of Education, 6-7 December 1995, Louisiana State University, Baton Rouge, Louisiana*. ^{BR/SG}
- D. G. Drennan, W. J. Golz, H. Ahmed, R. F. Malone. 1995. Clarification Abilities of Floating-Bead Filters used in Recirculating Aquaculture Systems. In *Aquacultural Expo VIII: Aquaculture in the Mid Atlantic: Proceedings of a Conference of the U.S. Aquaculture Suppliers*. ^{BR/SG}

PRESENTATIONS

- “Modeling the Effects of Solids Accumulation on Oxygen Demand and Transport in Floating-Bead Filters.” Presented at World Aquaculture 97, the Annual Conference and Exposition of the World Aquacultural Society, February 20-23, 1997, Seattle, Washington. ^{BR/SG}
- “Backwash Frequency and its Effect on Nitrification Efficiency in Floating-Bead Filters.” Presented at Aquaculture America 96, a Conference sponsored by South Carolina Sea Grant Consortium, February 14-17, 1996, Arlington, Texas. ^{BR/SG}
- “The Interaction of Aquatic Systems with a Microbial Rock Pant Filter at the Crowley, Louisiana Wastewater Treatment Plant.” A paper presented at the Louisiana Engineering Society and American Society of Civil Engineers Joint State Meeting, March 16-20, 1994, Baton Rouge, Louisiana. ^{JC/ES}

RESEARCH FUNDING

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- ^{BR} Louisiana Board of Regents
- ^{SG} Louisiana Sea Grant, an element of the National Oceanic & Atmospheric Administration
- ^{DA} U.S. Department of Agriculture
- ^{JC} John E. Chance & Associates, Inc.
- ^{ES} Louisiana Engineering Society and American Society of Civil Engineers