



## RESUME OF PROFESSIONAL ACTIVITIES—BILL MANCI



**Bill Mancini**, president of FTA, Inc., created the company in 1982 after receiving his formal training in zoology and fisheries science at the University of Wisconsin-Madison, and after a six-year career in aquaculture research. Bill has been a consultant since 1980 and has worked on many types of aquaculture and fish farming projects throughout the U.S.A. and other nations. He also has published more than 300 technical and popular articles on the subjects of aquaculture and fish farming, and served as an expert witness in aquaculture and fisheries-related litigation.

### Professional Certifications

- Certified Fisheries Professional, American Fisheries Society, 1991-Present
- Vocational Teaching Credential (Post-Secondary/Adult), State of Colorado

### Professional Experience

1982-Present: Senior Biologist and President, Fisheries Technology Associates, Inc. Specialized in technical and economic feasibility analysis, finfish and shellfish production technology, production facility and systems design, pond and production systems management, and assessment; freshwater and marine fisheries management. Managed a team of 25 technical professionals within the fisheries consulting consortium of Fisheries Technology Associates, Inc.

### Past Project Examples

- Provided investment due diligence and assessed production at large tuna grow-out facilities in Baja California Norte, Mexico, and Croatia.
- Remodeled and upgraded 100,000 fish/year walleye and brook trout stock enhancement facility in Wisconsin.
- Developed hatchery, nursery, and grow-out facilities for 100 million seed/year oyster production facility in Vietnam.
- Analyzed technical and economic feasibility of 1.2 million pounds/year tilapia production facility in Wyoming.
- Analyzed technical and economic feasibility of 350,000 pounds/year aquaculture demonstration facility in Indiana.
- Designed 264,000 pounds/year indoor water reuse common carp production system and management plan for installation in Iraq.
- Analyzed technical and economic feasibility of 1.5 million pounds/year tilapia processing facility

in Indiana.

- ✚ Evaluated reconfiguration of 31.5-hectare threadfin production operation in Singapore.
- ✚ Analyzed technical and market feasibility of marine finfish production at a site in Baja California Sur, Mexico.
- ✚ Analyzed technical and economic feasibility of yellow perch and aquaponic tomato production at 480,000 pounds/year site in Michigan.
- ✚ Analyzed technical and economic feasibility and developed biological design for yellow perch production at 20 million pounds/year site in Indiana.
- ✚ Analyzed market and business prospects of a fish meal and fish oil replacement in shrimp feeds for product developer in Maryland.
- ✚ Assisted in the design of a new solids removal system for a 3 million fish/year salmonid production facility in Alberta.
- ✚ Evaluated and upgraded Eurasian perch production techniques at a 300 metric tons/year facility in Switzerland.
- ✚ Developed biological design and management plan for a 400,000 pounds/year indoor water reuse yellow perch, tilapia, and integrated plant production system in Pennsylvania.
- ✚ Designed water treatment systems for large, mobile fish-holding tanks and displays in Colorado.
- ✚ Designed dechlorination system for university fisheries research laboratory in Wisconsin.
- ✚ Assisted major insurance company in development of aquaculture insurance products.
- ✚ Remodeled and upgraded 550,000 pounds/year rainbow trout hatchery and rearing system in Kentucky.
- ✚ Assisted in reconfiguration of 600,000 pounds/year tilapia production system in Arizona.
- ✚ Analyzed technical feasibility of 2.45 million pounds/year indoor Atlantic salmon and yellow perch production system in Wisconsin.
- ✚ Analyzed technical and economic feasibility of yellow perch production at 3 million pounds/year site in Michigan.
- ✚ Analyzed technical and economic feasibility of yellow perch and hybrid striped bass production at 500,000 pounds/year power plant sites in Minnesota.
- ✚ Assisted in design of 1 million fish/year Atlantic salmon smolt production system in Maine.
- ✚ Assisted Turkish fish feed manufacturer in modifying and reformulating their inventory of feeds.
- ✚ Analyzed technical and economic feasibility of, and technology to produce, 3,100 metric tons/year of Atlantic salmon and rainbow trout in Guam.
- ✚ Upgraded many coldwater, coolwater, and warmwater fish production facilities. Surveyed many facilities and laboratories to evaluate potential and develop feasibility and management recommendations.
- ✚ Provided physical, chemical, and biological evaluations, designs, and management plans for many ponds, lakes, and reservoirs.
- ✚ Served as expert witness in aquaculture/fisheries litigations.

Please visit the [Projects](#) page for additional examples.

1995-2001: President (volunteer), Rocky Mountain Aquarium Foundation, a registered 501(c)(3) non-profit foundation dedicated to education in aquatic, terrestrial, and agricultural environments. Successfully attracted project funding through grant proposals and political support from government entities. Strong advocate for science education and demonstrated commitment to public outreach and education through regular public presentations. Developed unanimous support for aquarium project from Fort Collins City Council through public presentations at Council sessions and private meetings with City staff. Managed and coordinated team volunteer effort. Web site and curriculum: developed *River Explorations* as an interactive, Internet-based freshwater curriculum for grade-school students and their teachers. Wrote, designed, produced, and distributed periodic newsletter titled *Fresh Waters*.

1976-82: Project Specialist, University of Wisconsin Aquaculture Research Program. Involved in all laboratory research functions including grant writing, experimental design and implementation,

literature review, and publication writing and editing. Designed and conducted bioassay experiments on yellow perch. Evaluated physical and biological filtration in aquaculture systems.

## Additional Material

Bill is an accomplished author and editor. As the list of publications indicates, his work has appeared in popular and semi-technical publications and refereed technical journals. He works periodically as a writer/editor for public-sector agencies, private individuals, and companies. Bill has formally reviewed scientific research proposals and reports for:

- ✚ University of Wisconsin-Madison
- ✚ Western and North Central Regional Aquaculture Centers
- ✚ National Coastal Resources Research and Development Institute
- ✚ U.S. Congress, Office of Technology Assessment

## Other experience and capabilities include the following:

- ✚ Three summers of field work at Horicon National Wildlife Refuge (Horicon Marsh, Wisconsin) assisting in mark/recapture of waterbirds for the development of waterbird census techniques, characterization and mapping of wetland vegetation, and bird surveys from airboats
- ✚ Specific knowledge and application of criteria used in wetland delineation and mapping, as specified by U.S. Army Corps of Engineers
- ✚ General and specific knowledge of upland and riparian habitats and hydrology (i.e., aquifers) through analysis of ties between terrestrial and aquatic environments
- ✚ Functional and specific knowledge of Canada goose and migratory waterfowl ecology, raptors, prairie dogs and other mammals, reptiles, and other prairie inhabitants and their management
- ✚ Functional and specific knowledge of native prairie plants and animals and restoration in Larimer County, Colorado, and the Fort Collins Natural Areas Policy Plan and Program

## Computer Skills

- ✚ Word, Excel, Access, FrontPage, HTML, Powerpoint, Acrobat, TurboCAD
- ✚ Bill has independently designed, built, published, and promoted several Internet web sites (e.g., [www.ftai.com](http://www.ftai.com), [www.colaqua.org](http://www.colaqua.org), and [www.thepaleodiet.com](http://www.thepaleodiet.com)).

## Affiliations

World Aquaculture Society (WAS), U.S. Chapter of the WAS; American Fisheries Society (AFS), AFS Fish Culture Section, AFS Bio-Engineering Section, AFS Fish Health Section; Joint Sub-Committee on Aquaculture, National Aquatic Animal Health Management Program, Steering Committee Work Group on Extension Services and Information Transfer; National Aquaculture Association; Aquaculture Association of Canada; Colorado Aquaculture Association (member and Webmaster); Rocky Mountain Aquarium Foundation Board of Directors

## Teaching Experience

### Aquaculture, pond management, and fisheries training courses and workshops:

- ✚ Gerson Lehrman Group
- ✚ Indiana Soybean Alliance
- ✚ University of Wisconsin Northern Aquaculture Demonstration Facility
- ✚ Colorado State University, Division of Continuing Education

- ✚ Guest Lecturer, Colorado State University
- ✚ Front Range Community College/Larimer Center
- ✚ Maryland Department of Agriculture and University of Maryland Eastern Shore
- ✚ Maryland Aquaculture Association
- ✚ Biometrics, Inc.
- ✚ Wilfley Weber, Inc.
- ✚ City of Fort Collins, Colorado
- ✚ City of Loveland, Colorado

## Publications and Presentations

These samples are drawn from a list of more than 300 total items:

- ✚ Mancini, B. 2003-12. Contributing author and columnist. Fish Farming News, Deer Isle, Maine.
- ✚ Junius, J. H., J. T. Scott, T. B. Lawson, D. E. Owsley, and W. E. Mancini. 2004. Current application of water recirculation aquaculture filtration components, their integration, and economic implications. Presented at the aquaculture interchange program: biological filter workshop, 8-11 November, Honolulu, Hawaii.
- ✚ Mancini, B. 1994-2003. Contributing author and columnist. The Fish Line, Colorado Aquaculture Association, Boulder, Colorado.
- ✚ Mancini, B. 1992-2001. Contributing author and columnist. The Aquaculture News, Jonesville, Louisiana.
- ✚ Mancini, B. 2001. Is commercial yellow perch production in the U.S. feasible? Aquaculture Magazine 26(1):26-35.
- ✚ Mancini, B. 2000. Prospects for yellow perch aquaculture. Global Aquaculture Advocate 3(6):62-63.
- ✚ Mancini, B. 2000. Contributing author. Ag Journal, La Junta, Colorado.
- ✚ Mancini, B. 1999. Yellow perch. Wildlife Window 1(4):1, 9-10.
- ✚ Mancini, W. E. 1994. Book review: fish farming technology. Progressive Fish-Culturist 56:222-223.
- ✚ Mancini, W. E. 1993. A showcase for sustainable agriculture and water conservation: integrated fish and plant production at the Rocky Mountain Aquarium in Estes Park. Presented at the 1993 South Platte forum: seeking an integrated approach to watershed management in the South Platte basin. Fort Collins, Colorado.
- ✚ Mancini, W. E. 1993. Farming and the environment. Gareth Stevens, Milwaukee, Wisconsin. 32pp.
- ✚ Mancini, W. E. and D. S. Proebstel. 1993. Endangered fishes of the world. Pages 31-1,529 in Endangered wildlife of the world. Marshall Cavendish, North Bellmore, New York.
- ✚ Mancini, W. E. 1993. The marine world: too big to harm? Pages 1,421-1,424 in Endangered wildlife of the world. Marshall Cavendish, North Bellmore, New York.
- ✚ Mancini, W. E. 1993. Wetlands: the cradle of life. Pages 1,428-1,430 in Endangered wildlife of the world. Marshall Cavendish, North Bellmore, New York.
- ✚ Hopkins, T. A. and W. E. Mancini. 1993. Aquaculture: opportunity now, part 3-education and cooperation. Aquaculture Magazine 19(2):60-72.
- ✚ Hopkins, T. A. and W. E. Mancini. 1993. Aquaculture: opportunity now, part 2-the power of economics. Aquaculture Magazine 19(1):30-38.
- ✚ Hopkins, T. A. and W. E. Mancini. 1992. Aquaculture: opportunity now, part 1. Aquaculture Magazine 18(6):43-47.
- ✚ Mancini, W. E., K. G. Richardson, and J. A. Bauer. 1992. Design and performance of an electronic lighting-control circuit that simulates sunrise and sunset. Progressive Fish-Culturist 54:127-129.
- ✚ Mancini, B. 1989-91. Contributing author. Catfish and Aquaculture News, Ridgeland, Mississippi.
- ✚ Mancini, W. E. 1991. Canadian update: cultivating the future. Aquaculture Magazine 17(5):98-101.
- ✚ Mancini, W. E. 1990. Canada: ready for the '90s. Aquaculture Magazine 16(6):44-49.

- ✦ Manci, W. E. 1990. Private consultants in aquaculture and information transfer. *Fisheries* 15(4):6-10.
- ✦ Manci, W. E. 1989. Apogee Orbiter (Automatic Guided Vehicle system) owner's manual. Apogee Robotics, Inc., Fort Collins, Colorado.
- ✦ Manci, W. E. 1989. Master AGV control (MAC) software documentation. Apogee Robotics, Inc., Fort Collins, Colorado.
- ✦ Manci, W. E. 1989. I, the perch. *Wisconsin Outdoor Journal* 3(2):21-23.
- ✦ Hopkins, T. A. and W. E. Manci. 1989. Feed conversion, waste and sustainable aquaculture: the fate of the feed. *Aquaculture Magazine* 15(2):30-36.
- ✦ Manci, W. E. 1988-90. Contributing author. *Water Farming Journal*, Metairie, Louisiana.
- ✦ Manci, W. E. 1988-90. Contributing author. *AgBiotechnology News*, Cedar Falls, Iowa.
- ✦ Manci, W. E. 1988. Contributing author. *World Aquaculture News*, Arlington, Texas.
- ✦ Manci, W. E. 1988. Contributing author. *Fort Collins Coloradoan*, Fort Collins, Colorado.
- ✦ Manci, W. E. 1987. We have cultured fish! *Colorado Outdoors* 36(2):18-21.
- ✦ Manci, W. E. 1986. The world of the yellow perch. *Colorado Outdoors* 35(4):12-13.
- ✦ Manci, W. E. 1984. Passive aeration: part of the solution. *Aquaculture Magazine* 10(3):31-34, 10(4):44-46.
- ✦ Manci, W. E. 1984. Contributing author. *The Gooding County Leader*, Gooding, Idaho.
- ✦ Manci, W. E. 1983. Benefits of demand feeders. *Trout Growers Creel* 16(1):3
- ✦ Manci, W. E., J. A. Malison, T. B. Kayes, and T. E. Kuczynski. 1983. Harvesting photopositive juvenile fish from a pond using a lift net and light. *Aquaculture* 34:157-164.
- ✦ Yanzito, R. A. and W. E. Manci. 1982. Closed cycle aquaculture using solar energy. Presented at the second international seminar: energy conservation and use of renewable energies in the bio-industries. Oxford, England.
- ✦ Manci, W. E. and J. T. Quigley. 1981. Determination of operating parameter values for water reuse aquaculture. Pages 97-103 in L. J. Allen and E. C. Kinney, editors. *Proceedings of the bio-engineering symposium for fish culture*. American Fisheries Society, Fish Culture Section, Bethesda, Maryland.

## Major Editing Assignments

- ✦ National Park Service, Fort Collins, Colorado. Periodic editing assignments.
- ✦ U.S. Forest Service, Fort Collins, Colorado. Periodic editing assignments.
- ✦ Wisconsin Department of Natural Resources, Madison, Wisconsin. Numerous in-house research reports (fish and wildlife).
- ✦ Wisconsin Department of Natural Resources, Madison, Wisconsin. 1991 International Canada goose symposium proceedings.
- ✦ Wisconsin Department of Natural Resources, Madison, Wisconsin. Aquatic insects of the Bois Brule River system, Wisconsin.
- ✦ Kansas Department of Wildlife and Parks, Emporia, Kansas. Strategic plan for North American quail management and research. National quail symposium (Quail III).
- ✦ Information Transfer Center, National Biological Service, Fort Collins, Colorado. Periodic editing assignments.