

James E Brister

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OBJECTIVE

Career in an interdisciplinary field such as mariculture or the research and development of marine-derived pharmaceuticals.

EMPLOYMENT

SEAWATER RESEARCH LABORATORY DIRECTOR
Virginia Institute of Marine Science

YEARS EMPLOYED (JUNE 2007 - PRESENT)
Gloucester Point, Virginia

Duties include the overseeing the initial start-up and daily operations of a new multi-user seawater research laboratory. Troubleshooting life support equipment and the monitoring and control systems of the facility. Establishment of operational protocols for all laboratory areas including: large general purpose aquaculture lab, BSL-2 and BSL-3 aquatic pathogen labs, toxicology lab, carcinogen exposure lab, necropsy laboratory, and a radioisotope lab. Staff development, training, and supervision of lab support personnel. Consultation with VIMS/SMS faculty and visiting scientist regarding operational requirements of specific experimental systems. Coordination of public educational activities concerning the laboratory facilities and ongoing research.

RESEARCH & DEVELOPMENT MANAGER
Belize Aquaculture Limited

YEARS EMPLOYED (SEPT 2003 - MAY 2007)
Blair Atholl, Belize

Duties included the evaluation and implementation new technologies to increase yields, enhance stock health, improve the predictability of harvests, and increase the profitability of a vertically integrated near-zero discharge shrimp farm rearing *Penaeus vannamei*. Screening stocks for potential pathogens utilizing PCR and routine microscopic techniques. Identification of optimal water quality parameters with respect to hyperintensive stocking strategies. Coordinating with the Farm Manager and Hatchery Manager the implementation of the new methodologies as they are developed.

GRADUATE RESEARCH ASSISTANT
Texas A & M University Shrimp Mariculture Project

YEARS EMPLOYED (JUL 2002 - AUG 2003)
Port Aransas, Texas

Duties included developing a standardized methodology for evaluating the efficacy of feed attractants and feeding stimulants in prepared diets for penaeid shrimp. Maintenance of recirculating seawater systems in order to maintain optimal water quality parameters.

ASSISTANT RESEARCH SCIENTIST
University of Texas Marine Science Institute

YEARS EMPLOYED (JAN 2002 -MAY 2002)
Port Aransas, Texas

Duties included the overseeing the propagation of live food organisms and maintenance of water quality parameters for the culture of larval Atlantic Croaker *Micropogonias undulatus* and Red Drum *Sciaenops ocellatus* to be used in larval fish ecology and larval behavior studies.

ASSISTANT HATCHERY MANAGER
Belize Aquaculture Limited

YEARS EMPLOYED (APR 1999 - JUL 2001)
Blair Atholl, Belize

Duties included the overseeing the larval production schedule of a 36 tank commercial shrimp hatchery capable of rearing 50 million post-larval *Penaeus vannamei* and *Penaeus stylirostris* per month. Supervision of a crew of fifteen full-time hatchery personnel. Propagation of larval food organisms and maintenance and control of water quality parameters. Identification and control of parasites and diseases. Assisting the Hatchery Manager with stocking strategies and scheduling.

LABORATORY MANAGER
Flax Pond Marine Laboratory

YEARS EMPLOYED (MAY 1993 - FEB 1999)
Stony Brook, New York

Duties included the design, maintenance, and repair of flow through and recirculating seawater culture systems in support of marine research at the laboratory. Consultation with faculty researchers from SUNY Stony Brook's *Marine Science Research Center* on experimental design and supervision of graduate students. Propagation of larval food organisms and maintenance of water quality parameters. Coordination and supervision of public educational activities concerning coastal and marsh ecology and conducting public tours of the laboratory facilities and adjacent tidal wetlands.

HATCHERY MANAGER / AQUACULTURE BIOLOGIST
D.R.E.A.M. Inc.

YEARS EMPLOYED (SEPT 1990 - NOV 1991)
Galveston, Texas

Duties included the design and maintenance of culture systems for penaeid shrimp and several species of marine and estuarine fishes. Other responsibilities included culture of larval food organisms, calculation of feeding rates and food conversion efficiencies, identification and control of parasites and diseases, and the testing and maintenance of water quality parameters.

AQUACULTURE RESEARCH ASSISTANT
Texas Agricultural Experiment Station

YEARS EMPLOYED (JAN 1990 - SEPT 1990)
Bridge City, Texas

Duties included the design and maintenance of culture systems for red drum, hybrid striped bass, oysters, and penaeid shrimp. Other responsibilities included culture of larval food organisms, calculation of feeding rates and food conversion efficiencies, identification and control of parasites and diseases, and the testing and maintenance of water quality parameters.

FOREIGN FISHERIES OBSERVER
Oregon State University (under contract to NMFS)

YEARS EMPLOYED (APR 1985 - AUG 1987)
Seattle, Washington

Duties included the monitoring of the catch of prohibited species, determination of the species composition of the catches, and collection of other biological data aboard several large foreign trawlers off the coast of Alaska.

A/C SERVICE MECHANIC
Temp Trol Heating and Cooling

YEARS EMPLOYED (SUMMERS & HOLIDAYS 1973-79, 82-84, 88)
Houston, Texas

Duties included the installation and repair of residential and light commercial heating, air conditioning, and refrigeration equipment.

EDUCATION

M. S. MARICULTURE
Texas A & M University

(2005)
Corpus Christi, Texas

B. S. MARINE BIOLOGY & MARINE FISHERIES
Texas A & M University

(1989)
Galveston, Texas

HONORS AND ACTIVITIES

- Current memberships in the **World Aquaculture Society, Global Aquaculture Alliance, Aquacultural Engineering Society, National Shellfisheries Association, American Society for Microbiology, and the American Fisheries Society** (*Fish Culture, Fish Health, and Computer Users Sections*).
- Completed the **University of Arizona, Shrimp Pathology Short Course : Disease Diagnosis and Control in Marine Shrimp Culture**, June 2003.
- Received recognition as a **Certified Fisheries Scientist** from the *American Fisheries Society* Board of Professional Certification in June of 1998.
- **Taught the laboratory section of Dr. D. V. Aldrich's MARB 423 Mariculture Class in the fall semester of 1990 at Texas A & M University at Galveston.**
- Appeared on the **National Geographic Explorer** Series in the episode entitled "**Bering Sea Fishermen**" first aired in April of 1987 on **WTBS**.
- **Honorable Discharge U.S.M.C.** February 14, 1986.

RECENT PUBLICATIONS

- Brister, J. E. (2005) A quantitative method for evaluating feed consumption in feed attraction studies with *Litopenaeus vannamei*. Masters Thesis, Texas A&M University-Corpus Christi.
- Brister, J., Walker, S., Bray, W., Fox, J., Hicks, D., Lawrence, A., and Dunsford, B. (2004) A quantitative method of evaluating feed consumption by *Litopenaeus vannamei* in feed attraction studies. *Abstract World Aquaculture 2004* (World Aquaculture Society), pp 71, Honolulu, Hawaii.
- Walker, S., Brister, J., Bray, W., Fox, J., Hicks, D., Dunsford, B., and Lawrence, L. (2004) Evaluation and ranking of practical ingredients as chemoattractants in feeds for Pacific white shrimp *Litopenaeus vannamei*. *Abstract World Aquaculture 2004* (World Aquaculture Society), pp 617, Honolulu, Hawaii.
- Fox, J., Lawrence, L., Brister, J., and Walker, S. (2004) Low and reduced input aquaculture: The role of chemoattraction in aquatic feed management. *Abstract World Aquaculture 2004* (World Aquaculture Society), pp 201, Honolulu, Hawaii.
- Lawrence, L., Walker, S., Brister, J., Hicks, D., Bray, W., and Fox, J. (2003) Shrimp Chemoattraction and Feeding Stimulation: Methods, Progress, and Significance. *Advances in Aquaculture Nutrition VII*, pp 13. University of Sonora, Hermosillo, Mexico.