



# APPENDIX 6. PUBLICATIONS

## Regional Research

### CENTRAL AMERICA

#### Honduras

##### ASIAN INSTITUTE OF TECHNOLOGY

###### Publication

Munsiri, P. and B.F. Hajek, 1996. Texture and chemical composition of soils from shrimp ponds near Choluteca, Honduras. *Aquaculture International*, 4:157-168.

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###### Publications and Reports

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Boyd, C.E. and D.R. Teichert-Coddington, 1992. Relationship between wind speed and reaeration in small aquaculture ponds. *Aquacultural Engineering*, 11:121-131.

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Boyd, C.E. and D.R. Teichert-Coddington, 1995. Dry matter, ash, and elemental composition of pond-cultured *Penaeus vannamei* and *P. stylirostris*. *Journal of the World Aquaculture Society*, 26(1):88-92.

Green, B.W., 1985. Report on the induced spawning of the silver and grass carps. CRSP Technical Report (unpubl.), 8 pp. (In Spanish.)

Green, B.W., 1992. Substitution of organic manure for pelleted feed in tilapia production. *Aquaculture*, 101:213-222.

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Evaluación de dos dietas alimenticias con diferente porcentaje de proteína, bajo dos densidades de siembra época de invierno en Granjas Marinas San Bernardo. II Simposio Centralamericano Sobre Camarón Cultivado, Tegucigalpa, Honduras. Federación de Productores y Exportadores (FPX), San Pedro Sula, Honduras, 267 pp.

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- Teichert-Coddington, D.R., D. Martinez, E. Ramirez, J. Harvin, W. Toyofuku, R. Zelaya, and B.W. Green, 1997. Semi-intensive shrimp pond management and quality of effluents. In: D.E. Alston, B.W. Green, and H.C. Clifford (Editors), Asociación Nacional de Acuicultores de Honduras and the Latin American Chapter of the World Aquaculture Society. IV Symposium on aquaculture in Central America: focusing on shrimp and tilapia, 22-24 April 1997, at Tegucigalpa, Honduras, pp. 203-204.
- Presentations**
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- Green, B.W. and L. Lopez. Factibilidad de la producción masiva de alevines machos de *Tilapia nilotica* a través de la inversión hormonal de sexo en Honduras. Presented by L. Lopez to the Annual Regional Meeting of the Programa Cooperativo Centroamericano para el Mejoramiento de Cultivos Alimenticios (PCCMCA) at San Pedro Sula, Honduras, 1989.
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- Green, B.W., D.R. Teichert-Coddington, and L.A. Lopez. Production of *Oreochromis niloticus* fry in earthen ponds for hormonal sex inversion. Presented to the World Aquaculture Society Meeting at Orlando, Florida, May 1992.
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- Teichert-Coddington, D.R. Problemática detectada en la dinámica del Golfo de Fonseca Hondureño y su repercusión en el cultivo de camarones. Primera Gran Reunión Nacional Camaronera, Choluteca, Honduras, January 1994.
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### Theses

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- Cerna, C. In progress. Zooplankton dynamics in *Tilapia nilotica* production ponds fertilized with triple superphosphate. B.S. thesis, Tegucigalpa, Honduras: Dept. of Biology, Universidad Nacional Autonoma de Honduras. (In Spanish.)
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## Panama ~ Aguadulce

### AUBURN UNIVERSITY

#### Thesis

Van Wyk, P. 1986. The relationship of pump discharge and fuel efficiency to tidal height for a brackish water aquaculture pumping station. M.S. thesis, Auburn, Alabama: Auburn University.

#### Publication

Teichert-Coddington, D.R. and M. Arrue, 1988. Efectos de dietas de proteinas y densidades de siembra sobre la producción de *Penaeus vannamei* en estanques de tierra. (Effects of protein diets and stocking density on production of *Penaeus vannamei* cultured in earth ponds.) Rev. Latinoamericana de Acuicultura, 35:29-33.

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## UNIVERSITY OF PANAMA

### Theses

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- Chavez, H. 1984. Estudio trofodinamico de *Penaeus vannamei* cultivado en estanques experimentales de aguas salobres. B.S. thesis, University of Panama.
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- Quiroz, V. In preparation. Efectos de varios niveles de recambio de agua a la calidad de agua y en la produccion de *Penaeus vannamei* en estanques de tierra. B.S. thesis, University of Panama.

## Panama ~ Gualaca

### AUBURN UNIVERSITY

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- Lin, C.K., 1989. The problems of marine shrimp culture in Taiwan. Seminar at Royal Thai Government Department of Fisheries and Shrimp Farmers Association, Bangkok, Thailand, July 1989.
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- Lin, C.K., 1990. Effects of intensive shrimp culture on coastal environment in upper Gulf of Thailand. Seminar at Royal Thai Government Department of Fisheries and Shrimp Farmers Associations, 15-16 February 1990.

## **Global Activities**

### **AUBURN UNIVERSITY**

#### ***Thesis***

- Massaut, L. 1998. Planktonic trophic interactions in catfish and sportfish ponds in the presence of an omnivorous filter-feeding fish. Ph.D. dissertation, Auburn, Alabama: Auburn University.

#### ***Publications***

- Boyd, C.E. and J.R. Bowman, 1997. Pond bottom soils. In: H.S. Egna and C.E. Boyd (Editors), *Dynamics of Pond Aquaculture*. CRC Press LLC, Boca Raton, pp. 135-162.

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#### ***Presentations***

- Boyd, C.E. Food safety considerations related to chemical use for water and soil quality enhancement in ponds. FAO/NACA/WHO Study Group on Food Safety Issues Associated with Products of Aquaculture, Bangkok, Thailand, 1997.
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- Boyd, C.E. Phosphorus chemistry in pond soils. Presented to Aquaculture '98, WAS Annual Meeting at Las Vegas, Nevada, February 1998.
- Boyd, C.E., A Gross, and M. Rowan. Laboratory studies of sedimentation as a technique for treating pond effluents. Presented to Aquaculture '98, WAS Annual Meeting at Las Vegas, Nevada, February 1998.
- Massaut, L. and C.E. Boyd. Risks associated with use of chemicals in pond aquaculture. Poster presented at Aquaculture '98, WAS Annual Meeting at Las Vegas, Nevada, February 1998.
- Molnar, J. Doing development by growing fish: A cross-national analysis of the impacts of aquacultural research. Presented to the Annual Meeting of the Rural Sociological Society, Toronto, Canada, 1997.
- Molnar, J., T. Hanson, and L. Lovshin. Doing science, growing fish, teaching people: Human capital impacts of the pond dynamics aquaculture CRSP. Presented to WAS '97 at Seattle, Washington, February 1997.
- Queiroz, J.F. (presented by C.E. Boyd). Soil consideration in site selection, pond construction, and pond management. Aquaculture '98, WAS Annual Meeting at Las Vegas, Nevada, February 1998.
- Wood, C.W., Aquaculture pond soil development. Aquaculture '98, WAS Annual Meeting at Las Vegas, Nevada, February 1998.

#### ***Other***

- Boyd, C.E. Aquaculture pond soils with emphasis on shrimp culture. Soil Science Graduate Seminar, Texas A&M University, 1997.
- Boyd, C.E., Workshop on soil management in shrimp ponds (4 days), Guayaquil, Ecuador, (32 participants) August 1997.
- Boyd, C.E., Workshop on water quality and pond bottom soils (1/2 day), China, four locations (total of 385 participants) August 1997.
- Boyd, C.E., Workshop on water quality in shrimp ponds (3 days), Guayaquil, Ecuador (22 participants) Nov. 1997.
- Boyd, C.E., Workshop on water and soil quality in shrimp farming (2 days), Mazatlan, Mexico (41 participants) Jan. 1998.
- Boyd, C.E., Workshop on water quality (1/2 day), Pietersburg, South Africa (25 participants) March 1998.
- Boyd, C.E., Workshop on shrimp pond water quality (2 hr), Chantaburi and Surat Thani, Thailand (total 73 participants) May 1998.
- Molnar, J. (Organizer and Chair). Global Shrimp Farming, Mangroves, and People: Finding a Sustainable Path. 1998 Annual Meeting of the American Association for the Advancement of Science, Philadelphia, Pennsylvania. This three-hour symposium featured presentations by shrimp farmers from Ecuador and Honduras, PD/A CRSP researchers Claude Boyd and Kwei Lin, Rural Sociologist Conner Bailey, and representatives of several environmental organizations, 1998.

#### **OREGON STATE UNIVERSITY**

##### ***Thesis***

- Nath, S.S. 1996. Development of a decision support system for pond aquaculture. Ph.D. dissertation, Corvallis, Oregon: Oregon State University.

##### ***Publications and Reports***

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- Egna, H.S., 1997. History of the Pond Dynamics/Aquaculture Collaborative Research Support Program. In: H.S. Egna and C.E. Boyd (Editors), Dynamics of Pond Aquaculture. CRC Press LLC, Boca Raton, pp. 19-52.
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#### ***Presentations***

- Bolte, J. and S. Nath. POND®: A decision tool for warmwater aquaculture. Presented to WAS '97 at Seattle, Washington, February 1997.
- Bolte, J.P. and S.S. Nath. 1998. Geographic information system technologies for aquaculture decision support. Presented to Aquaculture '98, WAS Annual Meeting at Las Vegas, Nevada, February 1998.
- Bolte, J.P., S.S. Nath, P. Darakjian, and J.M. Kapetsky. Regional-scale analysis of aquaculture development potential. Poster presented to the World Aquaculture Society Meeting at Bangkok, Thailand, February 1996.
- Egna, H. International Aquaculture: Research. Presented to WAS '97 at Seattle, Washington, February 1997.
- Ernst, D.H. Computer tools for aquaculture management and design. Lecture presented to the Western Regional Aquaculture Expo at Sacramento, California, 1996.
- Ernst, D.H., J.P. Bolte, and S.S. Nath. Application of decision support software for aquaculture facility design. Presented to WAS '97 at Seattle, Washington, February 1997.
- Ernst, D.H., J.P. Bolte, and D. Lowes, 1997. PD/A CRSP Central Database: An information resource for pond-based aquaculture. In: K. Fitzsimmons (Editor), Tilapia Aquaculture: Proceedings from the Fourth International Symposium on Tilapia in Aquaculture. NRAES, Ithaca, New York, pp. 683-700.
- Kapetsky, J.M., S. Nath, and J.P. Bolte. A fish farming GIS for Latin America. Presented to WAS '97 at Seattle, Washington, February 1997.
- Nath, S. Planning, design, and management tools for aquaculture. Presented to National Aquaculture Extension Conference at Annapolis, Maryland, 9-10 April 1997.
- Nath, S., J.P. Bolte, and D.H. Ernst. A fish bioenergetics model for pond aquaculture. Presented to WAS '97 at Seattle, Washington, February 1997.
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#### SOUTHERN ILLINOIS UNIVERSITY, CARBONDALE

##### *Publication*

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#### UNIVERSITY OF ARKANSAS AT PINE BLUFF

##### *Publication*

Engle, C.R., R. Balakrishnan, T.R. Hanson, and J.J. Molnar, 1997. Economic considerations. In: H.S. Egna and C.E. Boyd (Editors), *Dynamics of Pond Aquaculture*. CRC Press LLC, Boca Raton, pp. 377-396.

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##### *Theses*

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##### *Publications and Reports*

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Fridley, R.B., R.H. Piedrahita, and T.M. Losordo, 1988. Challenges in aquacultural engineering. *Agricultural Engineering*, 69(4):12-15.

Giovannini, P. and R.H. Piedrahita, 1988. Analysis and modeling of dissolved oxygen in warm water aquaculture ponds. *American Society of Agricultural Engineers*, 88-5004, 30 pp.

Giovannini, P. and R.H. Piedrahita, 1989. Analysis and modeling of diel pond dynamics: measuring phytoplankton light adaptation and saturation. *American Society of Agricultural Engineers*, 89-7556, 29 pp.

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Piedrahita, R.H. and J.K. Wang, 1988. Engineering in aquaculture, an overview. *Proceedings of the Joint U.S. India International Symposium on Aquaculture Research Needs for the Year 2000 at New Delhi, India*.

Piedrahita, R.H., S.S. Nath, J. Bolte, S.D. Culberson, P. Giovannini, and D.H. Ernst, 1997. Computer applications in pond aquaculture—Modeling and decision support systems. In: H.S. Egna and C.E. Boyd (Editors), *Dynamics of Pond Aquaculture*. CRC Press LLC, Boca Raton, pp. 289-324.

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- Brune, D.E., C.M. Drcho, and R.H. Piedrahita. Pond oxygen dynamics: design and management strategies. Presented to Aquaculture '92 International Conference at Orlando, Florida, 21-25 May 1992.
- Culberson, S.D. and R.H. Piedrahita. Modification of stratified temperature and dissolved oxygen model to accommodate reduced data inputs: Identifying critical requirements. Presented to Aquaculture '92 International Conference at Orlando, Florida, 21-25 May 1992.
- Jamu, D.M. and R.H. Piedrahita. A nitrogen and organic matter cycling model for an integrated aquaculture-crop system. Presented to WAS '97 at Seattle, Washington, February 1997.
- Lu, Z. and R.H. Piedrahita. Modeling of temperature and dissolved oxygen in stratified aquaculture ponds using stochastic weather variables. Presented to WAS '97 at Seattle, Washington, February 1997.
- Piedrahita, R.H. Managing environmental impacts in aquaculture. Presented at the United States-Japan Natural Resources (UJRN) Aquaculture Panel at Kyoto, Japan, November 1992.
- Piedrahita, R.H. and G. Grace. Removal of carbon dioxide and intensive aquaculture systems. Presented to the World Aquaculture Society Meeting at Halifax, Nova Scotia, June 1990.
- Piedrahita, R.H. and G. Grace. Carbon dioxide removal for intensive aquaculture. Presented to the Workshop on Recirculating Aquaculture Systems at Baton Rouge, Louisiana, September 1991.
- Piedrahita, R.H., Z. Lu, and D. Jamu. Dissolved oxygen modeling in tropical aquaculture ponds under the Pond Dynamics/Aquaculture Collaborative Research Support Program. Presented at the World Aquaculture Society Meeting, Bangkok, Thailand, January 1996.
- Whitman, M.H. and R.H. Piedrahita. Water quality requirements of Pacific oysters (*Crassostrea gigas*) in holding systems. Presented to the World Aquaculture Society Meeting at Los Angeles, February 1989.

#### *Other*

Piedrahita, R.H. Aquacultural Engineering, a five-day course at the Universidad Autonoma de Baja California, Ensenada, Baja California, 23-28 November 1997.

#### UNIVERSITY OF HAWAII

##### *Presentation*

Szyper, J.P., R.H. Piedrahita, and P. Giovannini. Requirements for maximizing bloom stability and net oxygen production in earthen ponds. Poster presented to the World Aquaculture Society Meeting at Torremolinos, Spain, 26-28 May 1993.

#### UNIVERSITY OF MICHIGAN

##### *Publications and Reports*

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