

BRIAN SZUSTER



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University of Hawai'i at Mānoa
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EDUCATION

- Ph.D.** Geography, University of Victoria (2001)
Dissertation: Cumulative Environmental Effects of Low Salinity Shrimp Farming in Thailand
- M.A.** Geography, Simon Fraser University (1992)
Thesis: Resident Perception of Place: The Case of Tsawwassen, B.C.
- B.Sc.** Geography, University of Alberta (1986)
Honors Thesis: Sedimentology of a Small Raised Delta: Ellesmere Island, NWT

PROFESSIONAL EMPLOYMENT

- 2004 to date** University of Hawai'i at Mānoa, Department of Geography (Assistant Professor)
Honolulu, Hawai'i
- 2000 - 2003** Thailand Aquaculture Management Project (UPCD Tier 2 Project Manager)
Burapha University, Bang Saen, Thailand
- 1995 - 2000** Terran Environmental Services (Principal, Consulting Environmental Planner)
Victoria, British Columbia
- 1997 - 1998** District of Saanich (Environmental Assessment Coordinator)
Victoria, British Columbia
- 1993 - 1995** Westland Resource Group (Senior Environmental Planner)
Victoria, British Columbia
- 1992 - 1993** Spencer Environmental Management Services (Environmental Assessment Specialist)
Edmonton, Alberta
- 1989 - 1991** Simon Fraser University, Department of Geography (Teaching Assistant)
Vancouver, British Columbia
- 1986 - 1988** Alberta Environment, Environmental Assessment Division (Public Consultation Technician)
Edmonton, Alberta

BOOKS AND EDITED VOLUMES

Needham, M., **B.W. Szuster**. eds. (approved for publication in 2012). Crowding, Use Levels, and Social Capacity Issues in Coastal and Marine Environments. Special Issue of *Tourism in Marine Environments*.

Hoanh, C.T., **B.W. Szuster**, K.S. Pheng, A. Noble & A. Ismail. eds. (2010). *Tropical Deltas and Coastal Zones: Community, Environment and Food Production at the Land-Water Interface*. Comprehensive Assessment of Water Management in Agriculture Series No. 9. July 2010. Oxfordshire, UK: CABI Publishing. 496 p.

REFEREED JOURNAL ARTICLES

In Preparation

Szuster, B.W., M. Needham & E. Anders. (in preparation). Interpersonal and Social Values Conflict Among Snorkelers and Scuba Divers in a Marine Protected Area.

Szuster, B.W. & J. Dietrich. (in preparation). Small Island Tourism Planning in Thailand: The Role of Center, Periphery and Target.

Published

Szuster, B.W., M. Needham & B. McClure. (2011). Scuba Diver Perceptions and Evaluations of Underwater Crowding. *Tourism in Marine Environments* 7 (3&4). pp. 153-165.

Needham, M.D., **Szuster, B.W.**, & Bell, C.M. (2011). Encounter norms, social carrying capacity indicators, and standards of quality at a marine protected area. *Ocean and Coastal Management*, 54(8), 633-641.

Bell, C.M., Needham, M.D., & **Szuster, B.W.** (2011). Congruence among encounters, norms, crowding, and management in a marine protected area. *Environmental Management*, 48(3), 499-513.

Szuster, B.W., Q. Chen & M. Borger. (2011). A Comparison of Classification Techniques to Support Coastal Land Cover Change Analysis. *Applied Geography* 31 (2), pp. 525-532.

Needham, M.D., & **Szuster, B.W.** (2011). Situational influences on normative evaluations of coastal tourism and recreation management strategies in Hawaii. *Tourism Management*, 32(4), 732-740.

Szuster, B.W. & H. Albasri. (2010). Mariculture and Marine Spatial Planning: Integrating Local Ecological Knowledge at Kaledupa Island, Indonesia. *Island Studies Journal* 5 (2), pp. 237-250.

Szuster, B.W. & H. Albasri. (2010). Site Selection for Grouper Mariculture in Indonesia. *International Journal of Fisheries and Aquaculture*, 2 (3), pp. 87-92.

McLeod, E., **B. Szuster**, & R. Salm. (2009). Sasi and Marine Conservation in Raja Ampat, Indonesia. *Coastal Management Journal* 37(6), p. 656-676.

Szuster, B.W., K. Chalermwat, M. Flaherty & P. Intacharoen. (2008). Peri-Urban Oyster Farming in the Upper Gulf of Thailand. *Aquaculture Economics and Management* 12 (4), pp. 268-288.

Szuster, B.W., Steckler, C. & B. Kullavanijaya. (2008). Detecting and Managing Coastal Fisheries and Aquaculture Gear Using Satellite Radar Imagery. *Coastal Management Journal* 36 (3), pp. 318-329.

Chalermwat, K., **B.W. Szuster**, & M. Flaherty (2003). Shellfish Aquaculture in Thailand. *Aquaculture Economics and Management* 7 (3/4), pp. 249 - 261.

Szuster, B.W., & M. Flaherty (2002). Cumulative Environmental Effects of Low Salinity Shrimp Farming in Thailand. *Impact Assessment and Project Appraisal* 20 (2), pp. 189-200.

Flaherty, M., **B.W. Szuster** & P. Miller. (2000). "Low Salinity Shrimp Farming in Thailand. *Ambio* 29 (3), pp. 174-179.

REFEREED BOOK CHAPTERS

Szuster, B.W., C.T. Hoanh, K.S. Pheng, A. Ismail, A. Noble, & M. Borger. (2010). Policy, Planning and Management at the Land-Water Interface. In: *Tropical Deltas and Coastal Zones: Community, Environment and Food Production at the Land-Water Interface*. Hoanh, C.T., B. Szuster, K.S. Pheng, A. Noble and A. Ismail (eds). Comprehensive Assessment of Water Management in Agriculture Series No. 9. July 2010. Oxfordshire, UK: CABI Publishing. pp. 1-12.

Szuster, B.W. (2006). Coastal Shrimp Farming in Thailand: Searching for Sustainability. In: *Environment and Livelihoods in Tropical Coastal Zones: Managing Agriculture - Fishery - Aquaculture Conflicts*. Hoanh, C.T., T.P. Tuong, J.W. Gowing and B. Hardy (eds.). Comprehensive Assessment of Water Management in Agriculture Series, No. 2. July 2006. Oxfordshire, UK: CABI Publishing. pp. 86-98.

Szuster, B.W. (2006). A Review of Shrimp Farming in Central Thailand and its Environmental Implications. In: *Shrimp Culture: Economics, Markets, and Trade*. P.S. Leung and C. Engle (eds.). Ames, Iowa: Blackwell Publishing. pp 155-164.

Szuster, B.W., F. Molle, M. Flaherty & T. Srijantr. (2003). Socio-Economic and Environmental Implications of Inland Shrimp Farming in the Chao Phraya Delta. In: *Perspectives on Social and Agricultural Change in the Chao Phraya Delta*. F. Molle and T. Srijantr (eds.). Bangkok: White Lotus Press. pp. 177-194.

REFEREED PROCEEDINGS

Szuster, B.W., B.P. McClure & M.D. Needham. (2009). Dimensionality of scuba diver perceptions of crowding. In A. Albers & P. B. Myles (eds.). *Proceedings of the Sixth International Congress on Coastal and Marine Tourism (CMT)*. Port Elizabeth, Nelson Mandela Bay, South Africa: Kyle Business Projects. pp. 285-289.

Needham, M.D., & **Szuster, B.W.** (2009). A conjoint analysis of situational influences on acceptance of coastal recreation management strategies in Hawaii. In A. Albers & P. B. Myles (eds.). *Proceedings of the Sixth International Congress on Coastal and Marine Tourism (CMT)*. Port Elizabeth, Nelson Mandela Bay, South Africa: Kyle Business Projects. pp. 152-164.

SELECTED NON-REFEREED PUBLICATIONS

Szuster, B.W. & M. Needham. (2010). *Recreation Planning and Management at Molokini Shoal MLCD*. Honolulu: State of Hawai'i Division of Aquatic Resources, Department of Land and Natural Resources. p. 126

Needham, M. & **B.W. Szuster**. (2010). Community Perceptions of Activities, Impacts, and Management at Kealakekua Bay, Hawai'i. Honolulu: State of Hawai'i Division of Aquatic Resources, Department of Land and Natural Resources. p. 49.

Albasri, H. & **B.W. Szuster**. (2010). Expert and Local Knowledge in Mariculture Suitability Analysis. *EnvironmentAsia* 3(2), pp. 109-114.

Szuster, B.W. & G. Ghen. (2006). *Hawai'i Coastal and Estuarine Land Conservation Plan*. Honolulu: State of Hawai'i Office of Planning, Department of Business, Economic Development, and Tourism, pp. 47.

Szuster, B.W., & M. Flaherty (2005). Women Oyster Vendors in Eastern Thailand. *Aquaculture Asia* 10(1), pp. 21-24.

Szuster, B.W. (2003). *Shrimp Farming in Thailand's Chao Phraya River Delta*. Comprehensive Assessment of Water Management in Agriculture. International Water Management Institute. Columbo, Sri Lanka. 57 p.

Szuster, B.W., & M. Flaherty (2002). A Regional Approach to Assessing Organic Waste Production by Low Salinity Shrimp Farms. *Aquaculture Asia* 7(2), pp. 48-52.

Miller, P., M. Flaherty, and **B.W. Szuster** (1999). Inland Shrimp Farming in Thailand. *Aquaculture Asia*. 4(1), pp. 27-32.

Szuster, B.W., Cross, S. & M. Fraker. (1996). *Perspectives on Issues, Policies, and Regulatory Processes Affecting Marine Salmon Aquaculture in British Columbia*. Report prepared by Terran Environmental Services for the British Columbia Ministry of Environment, Lands and Parks. Victoria, British Columbia. 76 p.

RESEARCH AWARDS

Social Carrying Capacity of Manta Ray Night Dive Sites in West Hawai'i.

Award Date: January 2012 – December 2012
Award Amount: \$10,200
Funding Agency: University of Hawaii College of Social Sciences
Researchers: Brian Szuster (Principal Investigator) and Camillo Mora (Co-Investigator)
Summary: Developing and testing procedures that assess social carrying capacity at priority manta ray night dives site off the west coast of the Island of Hawai'i.

Recreation Impacts to Reefs at Hawaii's Coral Program Priority Sites.

Award Date: August 2010 – July 2012
Award Amount: \$28,698
Funding Agency: NOAA and Hawai'i Division of Aquatic Resources
Researchers: Brian Szuster (Principal Investigator)
Summary: Developing and testing procedures that assess user group conflict at priority marine recreation sites on the Island of Hawai'i.

Recreation Planning and Management at Molokini Shoal MLCD.

Award Date: July 2008 – June 2010
Award Amount: \$134,000
Funding Agency: NOAA and Hawai'i Division of Aquatic Resources
Researchers: Brian Szuster (Principal Investigator) and Mark Needham (Co-Investigator)
Summary: Developed and tested procedures that assess carrying capacity and crowding at the Molokini Shoal Marine Life Conservation District in the State of Hawai'i.

Building Coastal Conservation Capacity in Hawaii

Award Date: September 2007 – August 2008
Award Amount: \$9962
Funding Agency: State of Hawai'i Office of Conservation and Coastal Lands
Researchers: Brian Szuster (Principal Investigator)
Summary: Enhanced cooperation among academic units at the University of Hawai'i that engage in beach conservation and restoration.

Building Integrated Coastal Management Capacity in Hawai'i

Award Date: January 2006 – December 2006
Award Amount: \$9960
Funding Agency: NOAA and Sea Grant College Program
Researchers: Brian Szuster (Principal Investigator)

Summary: Enhanced cooperation among academic units at the University of Hawaii engaged in research, education and outreach on topics such as: coastal development, habitat protection, and coastal hazards.

Hawai'i Coastal and Estuarine Land Conservation Plan

Award Date: June 2005 – September 2006
Award Amount: \$65,000
Funding Agency: NOAA and the Hawai'i Coastal Zone Management Program
Researchers: Brian Szuster (Principal Investigator)

Summary: Developed a coastal and estuarine land conservation plan for the State of Hawai'i that included a system for evaluating the conservation potential of coastal properties.

CONFERENCES AND OTHER PRESENTATIONS

Kaufman, C.R., Needham, M.D., & **Szuster, B. W.** (2011). *Pre-Trip Expectations and Post-Trip Satisfaction with Educational Information on Marine Tours*. Paper presented at Northeastern Recreation Research Symposium (NERR). April 10-12, Bolton Landing, Lake George, New York.

B.W. Szuster & M.D. Needham. (2011). *Encounters, Norms and Crowding in Marine Recreation: Applications at Molokini MLCD*. Presentation at UH Sea Grant Hanauma Bay Education Program. February 17, 2010, Honolulu, Hawaii.

B.W. Szuster & M.D. Needham. (2010). *Marine Recreation Management at Molokini and Kealakekua MLCD*. Presentation at Recreation Impacts to Reefs Local Action Strategy Forum. Honolulu, Hawaii. June 23, 2010.

Needham, M.D., & **Szuster, B.W.** (2010). Community perceptions of activities, impacts, and management at Kealakekua Bay, Hawaii. Paper presented at *Hawaii Recreational Impacts to Reefs Local Action Strategy Steering Committee Meeting*. June 23, Honolulu, Hawaii.

Needham, M.D., & **Szuster, B.W.** (2010). *Situational influences on acceptance of coastal recreation management strategies in Hawaii*. Paper presented at International Symposium of National Association of Recreation Resource Planners (NARRP) & River Management Society (RMS). May 18-20, Portland, Oregon.

Needham, M.D., & **Szuster, B.W.** (2010). *Validity of a Self-Classification Measure of Recreation Specialization Among Snorkelers and Scuba Divers*. Paper presented at Northeastern Recreation Research Symposium (NERR). April 11-13, Bolton Landing, Lake George, New York.

Bell, C.M., Needham, M.D., & **Szuster, B. W.** (2010). *Does Size or Number of Boats Matter? Dimensionality of Encounter Norms at Molokini, Hawaii*. Paper presented at Northeastern Recreation Research Symposium (NERR). April 11-13, Bolton Landing, Lake George, New York.

Needham, M.D., & **Szuster, B.W.** (2009). A conjoint analysis of situational influences on acceptance of coastal recreation management strategies in Hawaii. Paper presented at *Sixth International Congress on Coastal and Marine Tourism (CMT)*. June 23-26, Port Elizabeth, Nelson Mandela Bay, South Africa.

Szuster, B.W., McClure, B.P., & Needham, M.D. (2009). Dimensionality of scuba diver perceptions of crowding. Paper presented at *Sixth International Congress on Coastal and Marine Tourism (CMT)*. June 23-26, Port Elizabeth, Nelson Mandela Bay, South Africa.

H. Albasri & **B.W. Szuster**. (2009). *Capability Analysis of Waters Off Kaledupa Island for Supporting Grouper Net-Cage Aquaculture*. Indonesian Institute of Science Workshop for Young Researchers. Jakarta, Indonesia. March 19 - April 8, 2009.

Needham, M.D., & **Szuster, B.W.** (2008). Development of a recreation capacity assessment tool: Applications at Kealakekua Bay and Molokini, Hawaii. Paper presented at *Hawaii Recreational Impacts to Reefs Local Action Strategy Steering Committee Meeting*. January 9, Honolulu, Hawaii.

M. Diparos & **B.W. Szuster**. (2007). *The Effectiveness of Voluntary Codes of Conduct for Regulating Shrimp Farming: Evidence from Thailand*. DELTA 2007: Managing the Coastal Land-Water Interface in Tropical Delta Systems. Bang Saen, Thailand. November 7-9, 2007.

Wedding, L., & **B.W. Szuster**, A. Friedlander and B. Gibson. (2006). *Evaluating Coral Reef Fish Nursery Habitat in a Hawaiian Marine Protected Area*. Coastal Zone Asia Pacific 2006: Linking People and The Coasts. Batam, Indonesia. August 29 - September 2, 2006.

Szuster, B.W. (2005). *Strategic Environmental Assessment and Coastal Shrimp Farming in Thailand*. International Association for Impact Assessment IAIA: Special Conference on International Experience and Perspectives in SEA. Prague, Czech Republic. September 26-30, 2005.

Szuster, B.W. (2005). *Coastal Shrimp Farming in Thailand: Searching for Sustainability*. International Conference on Effective Land-Water Interface Management for Solving Agriculture-Fisheries-Aquaculture Conflicts in Coastal Zones. Bac Lieu, Vietnam. March 1-3, 2005.

Szuster, B.W., M. Flaherty & M. Diparos. (2004). *Marine Shrimp Farming in Thailand: An Industry In Transition*. World Aquaculture Society Annual Meeting. Honolulu, Hawaii. March 1-5, 2004.

TEACHING EXPERIENCE

Department of Geography, University of Hawai'i at Manoa

Geography 752 - Research Seminar: Resource Management. A graduate seminar that explores marine resource planning and management in Hawaii.

Geography 654 - Geography of Southeast Asia. A graduate course in regional geography that investigates human-environment linkages in Southeast Asia.

Geography 622 - Environmental Impact Assessment. A graduate seminar that focuses on the theory and practice of environmental impact assessment within the United States and other countries.

Geography 621 - Coastal Planning and Management. A graduate seminar that explores resource planning and management systems in the coastal zone.

Geography 412 Environmental Assessment. An undergraduate course that surveys environmental impact assessment as conducted under the US National Environmental Policy Act.

Geography 356 Geography of Southeast Asia. An undergraduate course in regional geography that surveys the landscape, resources, history, cultures and economy of Southeast Asia.

Geography 101 The Natural Environment. An undergraduate course in physical geography that introduces the study of meteorology, climatology, hydrology, geology, geomorphology and biogeography.

AWARDS AND HONORS

University of Hawai'i at Mānoa College of Social Sciences Award for Excellence in Teaching (2010)
Social Sciences and Humanities Research Council of Canada Doctoral Fellowship (2000-2001)
University of Victoria President's Research Scholarship (2000/2001, 1999/2000)
International Development Research Centre Doctoral Research Award (1999-2000)
Celanese Canada Internationalist Fellowship (1999-2000)
Centre for Asia-Pacific Initiatives Graduate Student Research Fellowship (1999-2000)
Asia Pacific Foundation of Canada Southeast Asia Business Research Grant (1998)
Edward Bassett Family Bursary for Environmental Research (1998)
Derrick Sewell Graduate Award for Natural Resource Management Research (1998)
National Science and Engineering Research Council of Canada Undergraduate Award (1984)

ACADEMIC AFFILIATIONS

Department of Urban and Regional Planning, University of Hawai'i (Affiliate Professor)
Department of Forest Ecosystems and Society, Oregon State University (Affiliate Professor)
Department of Aquatic Science, Burapha University, Thailand (Adjunct Professor)

CERTIFICATIONS

PADI Safety Diver and Nitrox Certifications
US FDA Seafood Hazard Analysis and Critical Control Point Certificate (#6047-070997-5220)