

**WILLIAM B. STICKLE, JR.**  
**BIOGRAPHICAL SKETCH**  
**October 2010**

**Personal:**

Born: April 25, 1943 in New Castle, PA  
 Married: three (3) children  
 Address: 1335 Kenilworth Parkway  
 Baton Rouge, Louisiana 70808

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**Education:**

Marine Biological Laboratory, Woods Hole - Mariculture		
Culture of marine invertebrates for research purposes course		
	1981	
University of Saskatchewan, Regina	Ph.D. 1970	Biology
University of Washington, Friday Harbor Labs	1968-69	Research
University of Alaska, Summer Institute	1967	Oceanography
University of South Dakota	M.S. 1967	Zoology
Slippery Rock State College	B.S. 1965	Biology

**Research Interests**

ENVIRONMENTAL PHYSIOLOGY OF MARINE INVERTEBRATES

**Most Recent Financial Support:**

**Date:**

Developing indices of physiological and molecular effects of the Deepwater Horizon oil spill on Eastern Oysters and Blue crabs. P.I. with Patrick DiMario. LSU Gulf of Mexico Oil Spill Research Program funded by BP (\$149, 439 – not funded)	2010
The impact of PAH's from the Deepwater Horizon oil spill on the Eastern Oyster <i>Crassostrea virginica</i> . Louisiana Sea Grant Rapid Response (\$10,000) - not funded	2010
The physiological impact of natural variability of dissolved oxygen, salinity, and temperature on juvenile blue crab recruitment, growth, and sublethal stress in Barataria Bay. Louisiana Sea Grant College Program for the Undergraduate Research Opportunity Program (Matthew Berlinger; \$2500). Funded for March 1-December 31, 2009	2009
Seasonal changes in the freeze tolerance and physiological adaptations of three species of intertidal gastropods from southeastern Alaska. Louisiana Sea Grant College Program for the Undergraduate Research Opportunity Program (Kevin Vu; \$2500).	2008
Seasonal adaptations of intertidal gastropods from southeastern Alaska to freezing during aerial exposure. In kind match from Dr. Stanley Rice from NMFS Laboratory at Auke Bay, AK (TSMRL) (\$50,000)	2007-2008
Effects of environmental and physiological hypoxia on the tolerance and aerobic to anaerobic metabolic transition in the blue crab, <i>Callinectes sapidus</i> . Louisiana Sea Grant College Program for the Undergraduate Research Opportunity Program (Michele Salassi; \$2550)	2001
Tolerance and physiological adaptation of juvenile blue crabs <i>Callinectes sapidus</i> to seasonal changes in water temperature. Louisiana Sea Grant College Program for the Undergraduate Research Opportunity Program (Brennen Arden; \$2500).	2000
Parasitism of <i>Leptasterias spp.</i> by the ciliated protozoan <i>Orchitophrya stellarum</i> and <i>in vitro</i> effects of temperature and salinity on this facultative parasite. Louisiana Sea Grant College Program for the Undergraduate Research Opportunity Program (Shana Story; \$2,000)	1999
The effects of simultaneous exposure to petroleum hydrocarbons, hypoxia and prior exposure on the tolerance and sublethal responses of marine animals. Mineral Management Service, LSU/CMI (\$176,365)	1993-96

Development and Characterization of Sea Anemones as Bioindicators of Offshore Resource Exploitation and Environmental Impact. Mineral Management Service, \$179,156, Co-PI with Gary Winston (\$8,000)	1993-97
Effect of feeding, starvation and refeeding on the energetics and RNA and DNA composition of the Gulf killifish, <i>Fundulus grandis</i> . Louisiana Sea Grant College Program for the Undergraduate Research Opportunity Program (Mitou Lemaire) (\$3,000)	1995
Physiological and biochemical changes associated with diel variation in dissolved oxygen tension in the southern oyster drill, <i>Stramonita haemastoma</i> and the gulf killifish, <i>Fundulus grandis</i> . Louisiana Sea Grant College Program for the Undergraduate Research Opportunity Program (Audrea Ward) (\$2,500)	1994
Synergistic effects of the simultaneous exposure of the gulf killifish, <i>Fundulus grandis</i> , to diesel oil and hypoxia. Louisiana Sea Grant College Program for the Undergraduate Research Opportunity Program (Phillip Cory Jackson, \$2,600)	1994
Zoogeographical distribution in hybridizing species of the <i>Leptasterias hexactis</i> complex. National Geographic Society (4824-92; \$20,490)	1992-93
Enhancement of Experimental Biology. Louisiana Stimulus for Excellence in Research (LaSER), National Science Foundation, EPSCoR Program (\$5,000)	1990-91
Physiological differentiation of two species of sympatric sea stars, <i>Leptasterias hexactis</i> species complex. Louisiana Stimulus for Excellence in Research (LaSER), National Science Foundation EPSCoR Program (\$2,562)	1989-90
Enhancement of Experimental Biology. Louisiana Stimulus for Excellence in Research (LaSER), National Science Foundation EPSCoR Program (\$5,000)	1989-90
Chronobiology Aquatic Center. Louisiana Board of Regents Louisiana Education Quality Support Fund (LEQSF) Enhancement Component. One of several Co-P.I.'s (\$ Group = \$100,000)	1989-90
Sublethal responses of marine and estuarine animals to chronic pollution. LSU Mineral Research Institute (For Graduate Student Fellowships) (\$70,000)	1982-92
Petroleum Refineries Environmental Council of Louisiana Grant (\$219,564)	1974-86
Tolerance limits and adaptation of economically important shellfish to dead water (anoxia). LSU Fisheries Initiative Program (\$28,000)	1983-84
Oil pollution research funded by the Office for Marine Pollution Assessment and the Outer Continental Shelf Environmental Assessment Program (with S. Rice) (my funds \$215,000)	1978, 80-83
Effects of temperature and salinity on indices of stress in the Southern Oyster Drill, <i>Thais haemastoma</i> , National Science Foundation (DEB-7921825, \$94,000)	1980-82
Facilities and Equipment for Zoophysiology Research - NSF (Co-P.I.) (\$60,000)	1977
Institutional Grant for Biomedical Sciences Support (participant) (\$65,000)	1976
LSU Council of Research (\$9,000)	1973, 83, 92

### Professional Experience:

Chairman, Louisiana State University, May 1987-July 1991

Acting Chairman, Louisiana State University, July 1986-April 1987

Professor, Louisiana State University, 1983-present

Associate Professor, Louisiana State University, 1976-83

Assistant Professor, Louisiana State University, 1972-76

Visiting Investigator, Friday Harbor Laboratories, Univ. of Washington, 1968-69, 1974, 1983, 1986

Visiting Investigator Institute of Marine Environmental Research, Plymouth, England, sabbatical leave in Brian Bayne's laboratory, 1978-79

Physiologist, GS12, Oil Pollution Research with S. Rice, N.M.F.S. Lab., Auke Bay, Alaska, Summers, 1978, 1980-82  
 Visiting Investigator, N.M.F.S. Lab., Auke Bay, Alaska, 1974, 1976, 1983-present  
 Director, Petroleum Refiners Environmental Council of Louisiana Lab 1973-86  
 Assistant Professor, Pennsylvania Marine Science Consortium, Summer, 1970-72  
 Research Associate, University of North Dakota, 1971-72  
 Assistant Professor, Slippery Rock State College, 1969-71  
 Research Assistant, University of Saskatchewan, Regina, 1968-69  
 Teaching Assistant, University of Saskatchewan, Regina, 1967-68-Physiology  
 Fellow, University of Alaska, Summer 1967  
 N.D.E.A. Fellowship, University of South Dakota, 1965-67

### Teaching Experience:

Academic Programs Abroad Program: Marine Biology in Southeast Alaska 2008-2010 – LSU Courses

Graduate:	Marine Ecology - LSU	Undergraduate: Human Physiology - LSU
	Marine Communities - LSU	General Zoology - LSU
	Invertebrate Zoology - SRSC, LSU	Honors Zoology - LSU
	Environmental (Comparative)	General Biology - LSU
	Physiology - LSU	Marine Biology - PMSC
	Environmental Physiology of	Honors Biology - LSU
	Estuarine Animals - LSU	

### Theses and Dissertations Directed:

#### a. Dissertations Completed (11)

- Tamplin, J.W. 1999 Effects of fluctuating salinity, nutritional state, and temperature on *Leptasterias spp.* from Little Port Walter, Alaska.
- Guerin, J. L. 1995. Effects of environmental factor gradients on survival, growth and physiology of two species of crab within the genus *Callinectes*.
- Das, T. 1993. Physiological and biochemical responses to hypoxia in the blue crab *Callinectes sapidus* Rathbun the lesser blue crab, *C. similis* Williams, and the southern oyster drill, *Stramonita haemastoma* Linnaeus.
- Liu, Li-Lian. 1990. Genotypic and phenotypic adaptations of the southern oyster drills, *Stramonita canaliculata* and *S. haemastoma floridae* to salinity.
- Roller, R. 1987. Salinity Effects on the Development and Larval Tolerance of Five Species of Echinoderms.
- Wang, S. Y. 1986. Tolerance, Bioenergetics and Biochemical Composition of the blue crab, *Callinectes sapidus* Rathbun, Exposed to the Water-soluble Fraction of South Louisiana Crude Oil.
- Kapper, M. A. 1985. Metabolic Response of the Estuarine Gastropod *Thais haemastoma* to Hypoxia.
- Garton, D. 1983. The Relationship between Gene Allele Frequency and Physiological Fitness in the Southern Oyster Drill, *Thais haemastoma*.
- Shirley, T. C. 1982. Spatial and Temporal Variations in Community Structure of the Demersal Macrofauna of a Subtropical Estuary.
- Sabourin, T. D. 1981. Respiratory and Circulatory Responses of the Blue Crab, *Callinectes sapidus* (Rathbun) to Salinity and Naphthalene.
- Howey, T. W. 1976. Zooplankton of the Gulf of Mexico: Distribution of Displacement Volume, Occurrence of Systematic Groups, Abundance and Diversity among Copepods.

#### b. Theses Completed (15)

- Wyler, H.J., 2000. Effects of temperature and salinity on several physiological variables and agonistic behavior of juvenile blue crabs, *Callinectes sapidus* and *Callinectes similis*.
- Szeto, H., 1998. Ethoxyresorufin-O-deethylase induction and physiological indices in two populations of *Fundulus grandis* exposed to hydrocarbon pollutants and hypoxia.
- Kwast, K., 1989. Genetics and Systematics of the *Leptasterias hexactis* Species Complex (Echinodermata: Asteroidea).
- Guerin, J., 1988. Bioenergetics of the Juvenile Blue Crab, *Callinectes sapidus*, Exposed to Salinity Gradients, and Cadmium.
- Hurdle, W. 1985. Tolerance and Bioenergetics of the Southern Oyster Drill, *Thais haemastoma*, Exposed to Cadmium.
- Gillham, B. 1985. Resistance and capacity adaptations of the ophiuroid *Micropholis atra* to salinity gradients.
- Smith, D., 1983. Chemical Attraction and Prey Selection in the Southern Oyster Drill, *Thais haemastoma*, as a Function of Temperature and Salinity.
- Roller, R., 1983. Effects of Temperature and Salinity upon Embryonic Development in the Southern Oyster Drill, *Thais haemastoma*.
- Hildreth, J. E. 1979. Effects of Temperature and Salinity on the Osmotic Composition of the Southern Oyster Drill, *Thais haemastoma*.
- Garton, D. 1978. Effects of Salinity and Temperature on the Feeding Rate of the Southern Oyster Drill *Thais haemastoma*.
- Belisle, B. E. 1977. Seasonal Patterns in the Biochemical Constituents and Body Component Indexes of the Muricid Gastropod, *Thais haemastoma*.
- Findley, A. M. 1977. Effects of Tidal Fluctuations of Salinity on the Oxygen Consumption and Hemolymph Composition of the Blue Crab (*Callinectes sapidus*).
- Denoux, G. J. 1976. A Study of the Plankton Community of the Calcasieu Estuary, Louisiana.
- Bistransin, M. E. 1976. The Reproductive Physiology of the Prosobranch Snail *Littorina irrorata* (Say, 1822).
- Hand, S. C. 1975. The Effects of Tidal Fluctuation of Salinity on Pericardial Fluid Composition and Oxygen Consumption of the American Oyster, *Crassostrea virginica* (Gmelin).

#### **Undergraduate Honor's Thesis Completed**

- Mary Robichaux. 1996. Effects of bionutritional status on the rate of oxygen consumption and RNA:DNA and protein: DNA ratios of the lesser blue crab *Callinectes similis*.

#### **Undergraduate Research Advised (recent: since 2000)**

##### **2000**

Thomas Bourgeois

##### **2001**

Kalvin Kilcrease  
Phillip Corey Jackson  
Andrea Ward  
Melanie Morgan  
Charles Criscione

##### **2003**

##### **2007**

Loe Li  
Charles Leach  
Kevin Vu

##### **2008**

Kevin Vu  
Phuong Nguyen

##### **2009**

Dewin Chen (High School)  
 Morgan Trahant (REU; ULM)  
 Thai Nguyen (REU;ULM)

Katie Peterson  
 2010  
 Rachel Stevenson  
 Corey Bretz

**Advisory Committees:**

- a. **Doctoral Students**  
 Biology Department- 17  
 Zoology and Physiology Department - 11  
 Marine Sciences - 4  
 Poultry Science - 1, Graduate School Representative  
 Geology - 1, Graduate School Representative  
 Curriculum and Instruction - 2, Graduate School Representatives  
 Fisheries - 4, Graduate School Representative  
 Biochemistry - 1  
 Epidemiology and Community Health - 1, Graduate School Representative  
 Oceanography and Coastal Science - 2  
 Engineering Science - 1, Graduate School Representative
- b. **Masters Students**  
 Biology Department- 5  
 Zoology and Physiology Department - 18  
 Marine Science Department - 3  
 Forestry and Wildlife Management - 1  
 Statistics - 1

**Professional Recognition:**

- a. **Societies**  
 Benthic Ecology Meeting  
 Society of Integrative and Comparative Biology  
 American Society of Zoologists  
 Estuarine Research Federation  
 Gulf Estuarine Research Society  
 Society of Environmental Toxicology and Chemistry  
 Society of Sigma Xi  
 Western Society of Naturalists
- b. **Editorial Board**  
 Marine Ecology Progress Series- Editorial Advisor, 1994-1996  
 Contributing Editor- 1996- Dec. 2005
- c. **Grants, Books and Papers Refereed**  
 (1) **Grants**  
 Maryland Sea Grant Program  
 Mississippi - Alabama Sea Grant Program  
 National Academy of Sciences - National Research Council  
 National Geographic Society

National Research Council  
 New York Sea Grant Program  
 National Science Foundation  
 North Carolina Sea Grant Program

(2) **Journals**

American Malacological Bulletin  
 Biological Bulletin  
 Bulletin of Environmental Contamination and Toxicology  
 Bulletin of Marine Science  
 Canadian Journal of Zoology  
 Comparative Biochemistry and Physiology  
 Ecology  
 Fishery Bulletin  
 Gulf of Mexico Science  
 Invertebrate Biology  
 Italian Journal of Zoology  
 Journal of Aquatic Animal Health  
 Journal of Experimental Biology  
 Journal of Experimental Marine Biology and Ecology  
 Journal of the Marine Biological Association of the United Kingdom  
 Journal of Shellfish Research  
 Marine Biology  
 Marine Biology Text for Holt, Rinehart and Winston  
 Marine Ecology Progress Series  
 North American Journal of Fisheries Management  
 Physiological Zoology  
 Proceedings of the World Mariculture Society  
 Science

d. **Program Review Panels**

U. S. Mussel Watch Program, Funded by Environmental Protection Agency- Review held June 8-10, 1981 in Providence, Rhode Island.  
 U. S. Mussel Watch Component of NOAA's National Status and Trends Program-Advisor on sampling sites along the Louisiana Gulf Coast - Meeting held at LSU on July 30, 1984.  
 Gulf Hypoxia Research and Monitoring Planning Meeting: Oxygen depletion on the Inner Continental Shelf of the Northern Gulf of Mexico: Distribution Causes and Effects, January 8 and 9, 1985, Houma, La., November 11, 1985, Baton Rouge, La., Report prepared for NOAA's Ocean Assessment Division.  
 Bioaccumulation of Contaminants in Wetland and Upland animals; Funded by the Environmental Laboratory, U.S.A., Waterways Experiment Station, U.S. Army Corps of Engineers.  
 Reviews Held: April 13-15, 1983, in Vicksburg, MS  
 August 7-10, 1984 in Avery, CT  
 May 13-17, 1985 in Buffalo, NY  
 National Science Foundation, Office of Undergraduate Science Engineering and Mathematics Education, The Instrumentation and Laboratory Improvement Program (ILI) - panelist January 10-13 (1989) - Physiology; - panelist January 31-Feb. 3 (1990) - Ecology.

e. **Invited Lectures:**

Allegheny College  
 Association for Women in Science, Baton Rouge Chapter  
 Battelle Laboratories, Sequim, Washington  
 Edinboro State University  
 Friday Harbor Laboratories, University of Washington  
 Grove City College  
 Gulf Estuarine Research Society Symposium on "Natural and Man Induced Perturbations in Estuaries" held September 1980 in Pensacola, Florida.  
 Institute for Marine Environmental Research, Plymouth, England  
 Iowa State University  
 Lamar University  
 Loyola University, New Orleans  
 Millsaps College  
 Mississippi State University  
 National Environmental Research Council, Unit of Marine Invertebrate Biology, Menai Bridge, Gwynedd, Wales  
 National Marine Fisheries Service Laboratory, Auke Bay, Alaska  
 Oregon State University, Newport Marine Laboratory  
 Scripps Institute of Oceanography  
 Sheldon Jackson College - Sitka, Alaska  
 Slippery Rock State College  
 Southeastern Louisiana University  
 SUNY at Stony Brook  
 Texas A & M Marine Laboratory, Galveston  
 Texas A & M, Department of Oceanography  
 University of Alaska, Southeastern  
 University of British Columbia  
 University of South Carolina  
 University of South Dakota  
 University of South Florida  
 University of Southern Mississippi  
 University of Southwestern Louisiana  
 University of Texas at Arlington  
 University of Washington- Friday Harbor Laboratories, 1998, 2000  
 University of Wisconsin at Eau Claire  
 University of Wisconsin at Stevens Point  
 Westminster College, New Wilmington, PA

**Professional Service:**

**Department**

Department Chairman, (1986 - 1991)  
 Awards Committee, 2001 - Present (Chairman November 2003-present)  
 Graduate Committee (1975-76, 1982-84 - chairman both years, 1991-92; 1993-94; 1995-97 - chairman both years), 1998- 2001  
 Curriculum Committee (1976)  
 Physiology Search Committees (1975-76; 1983, 2003-04, 2006)  
 Pretenure Review Committees for six faculty members, 1976-present  
 Comparative Biochemistry Search Committee (Chairman, 1984)  
 Ecology Search Committee (1985, 1994, 1995, Chairman)  
 Undergraduate Recruitment Committee (1992-94)  
 Undergraduate Advisor (1993-94), 2000

## College

Life Sciences Centralized Services Committee (Chairman) 1981  
 Distinguished Dissertation Committee (1983, 1984, 2001-present) Chairman (1984), 2001-2003  
 College Tenure and Promotion Committee (1985).  
 Admissions, Standards and Honors Committee (1992-93)

## University

Faculty Senate 1980-83, 2010- present  
 Faculty Senate Grievance Committee – 2009- present  
 LSU member of the Advisory Committee to the LUMCON Director, Donald Boesch - 1980-1985  
 Marine Sciences Curriculum Committee at LSU - 1985-86  
 Oceans Development Committee at LSU - 1989  
 Honors Board - BASC Representative and Executive Committee - 1994- present  
 Committee on Curriculum Infusion of Alcohol, Tobacco and Other Drugs. - 1994, 1995

## Professional organizations

Nominating Committee Member for the Office of Secretary, Division of Comparative Biochemistry and Physiology, American Society of Zoologists  
 Contributed Paper Session Chairman - 1977, 1980, 1982, 1983  
 Estuarine Research Federation 1981  
 Gulf Estuarine Research Society, 1980  
 Co-organizer with Thomas Dietz, of the Second International Congress of Comparative Biochemistry and Physiology to be held at LSU in August, 1988  
 Best Student Paper Award Committee for the Divisions of Comparative Physiology and Biochemistry, Ecology and Invertebrate Zoology of the American Society of Zoologists meeting - 1985, 1986 and 1987.  
 Program Officer of the Division of Comparative Physiology and Biochemistry of the American Society of Zoologists (1993-94)  
 Benthic Ecology Meeting - Session Chair (2005)

## Research

- a. **Meetings Attended Where Papers Were Presented:**  
 American Society of Zoologists (1967, 1969-77, 1979-94)  
 Estuarine Research Federation (1975, 1981, 1987)  
 Pollution and Physiology of Marine Organisms (1981, 1983, 1985)  
 Gulf Estuarine Research Society (1976-77, 1980, 1982, 1986, 1988)  
 4th International Echinoderm Conference, Tampa, Florida (1984)  
 Louisiana Academy of Science (1973-75)  
 18th European Marine Biology Symposium, Oslo, Norway (1983)  
 19th European Marine Biology Symposium, Plymouth, England (1984)  
 1st International Congress of Comparative Physiology and Biochemistry in Liege, Belgium (1984)  
 5th International Echinoderm Conference, Galway, Ireland (1984)  
 6th International Echinoderm Conference, Victoria, British Columbia (1987)  
 8th International Echinoderm Conference, Dijon, France (1993)  
 9th International Echinoderm Conference, San Francisco, CA (1996)  
 2000 International Echinoderm Conference, Dunedin, New Zealand (2000)  
 2nd International Congress of Comparative Physiology and Biochemistry in Baton Rouge, Louisiana, Co-Organizer (1988)  
 National Blue Crab Conference, Virginia Beach, VA (1988)



North American Friends of Echinoderms (1988, 1992, 2001)  
 14<sup>th</sup> Information Transfer Meeting, Gulf of Mexico OCS Region Minerals Management Service, New Orleans (1994)  
 16<sup>th</sup> Information Transfer Meeting, Gulf of Mexico OCS Region Minerals Management Service, New Orleans (1996)  
 Recent Research in Coastal Louisiana: Natural System Function and Response to Human Influences. Lafayette, LA (1998)  
 Effects of Hypoxia on living resources in the Northern Gulf of Mexico. Baton Rouge, LA. (1998)  
 Benthic Ecology Meeting- 1999, 2000, 2001, 2003, 2005, 2007, 2008, 2009, 2010  
 International Echinoderm Conference 2000, Dunedin, New Zealand.  
 Blue Crab Symposium, Wilmington, North Carolina 2000  
 Western Society of Naturalists Meeting, Monterrey, California (2002)

b. Published Abstracts

117 Published Abstracts, 1966-2010

c. List of Publications (86 to date)

- Stickle, W.B., M. Lindeberg, and S.D. Rice 2010. Seasonal freezing adaptations of the mid- intertidal gastropod *Nucella lima* from southeast Alaska. *Journal of Experimental Marine Biology and Ecology* (in revision).
- Stickle, W.B. and H.J. Wyler. 2010. Seasonal effects of temperature on the tolerance and aerobic-anaerobic transitions in the juvenile blue crab *Callinectes sapidus*. *Gulf of Mexico Science* (submitted).
- Bates, A.E., W.B. Stickle, and C. Harley 2010. Impact of temperature on an emerging parasitic association between a sperm-feeding scuticociliate and Northeast Pacific sea stars. *Journal of Experimental Marine Biology and Ecology* 384:44- 50.
- Stickle, W.B. and S.D. Rice. 2009. Effects of seasonal variation in water and air temperature on the righting response of *Leptasterias* spp. from the West Coast of North America. Pp. 403-407 *in: Echinoderms: Durham* (Ed. L. G. Harris, S. A. Bottiger, C.W. Walker, and M.P. Lesser), University of New Hampshire Durham, New Hampshire, USA A.A. CRC Press, Boca Raton.
- Stickle, W.B., and E.N. Kozloff. 2008. On the association and distribution of the ciliate *Orchitophrya stellarum* with asteroiid sea stars on the west coast of North America. *Diseases of Aquatic Animals* 80:37-43.
- Stickle, W.B., H.J. Wyler, and T.H. Dietz. 2007. Effects of salinity on juvenile crab physiology and agonistic interactions between two species of juvenile blue crabs, *Callinectes sapidus* and *Callinectes similis*. *Journal of Experimental Marine Biology and Ecology* 352:361-370.
- Hulathduwa, Y.D., W.B. Stickle, and K.M. Brown. 2007. The effect of salinity on survival, bioenergetics, and predation risk in the mud crabs *Panopeus simpsoni* and *Eurypanopeus depressus*. *Mar. Biol.* 152:363-370.
- Stickle, W.B., E.N. Kozloff, and S. Story. 2007. Physiology of the ciliate *Orchitophrya stellarum* and its experimental infection of *Leptasterias* spp. *Canadian Journal of Zoology*. 85:200-206.
- Stickle, W.B., S. Story, E.N. Kozloff, and M.C. Henk. 2007. The ciliate *Orchitophrya stellarum*, viewed as a facultative parasite of asteroiid sea stars. *Cahiers de Biologie Marine*. 48: 9-16.
- Stickle, W.B. and Z. Zhang. 2003. Long term trends in imposex in six populations of *Stramonita haemastoma*. *Bull. Mar. Sci.* 72: 685 - 694.
- Brown, K.M and W. B. Stickle. 2002. Physical constraints on the foraging ecology of a predatory snail. *Mar. Fresh. Behav. Physiol.* 35: 157 - 166.

- Stickle, W.B., C. Rathbone, and S. Story. 2001. Parasitism of sea stars from Puget Sound, Washington by *Orchitophrya stellarum*. Pp. 221-226. In: Proceedings of Echinoderms 2000 Conference, Jan. 31 to Feb. 4, 2000, Mike Barker, ed. Dunedin, New Zealand, Balkema Press.
- Burnett, L.E. and W.B. Stickle. 2001. Physiological responses to hypoxia. Pp. 101-104. In: N. Rabalais and G. Turner (eds.), Coastal Hypoxia: Consequences for Living Resources and Ecosystems. Coastal and Estuarine Studies 58, American Geophysical Union, Washington, D.C.
- Stickle, W.B., E.H. Weidner, and E. N. Kozloff. 2000. Parasitism of *Leptasterias spp.* by the ciliated protozoan *Orchitophrya stellarum*. Invertebrate Biology (120:88-95)
- Stickle, W.B. 1999. Effects of estuarine environmental factor gradients on the tolerance and physiology of the southern oyster drill, *Stramonita (=Thais) haemastoma*; an important predator of the American oyster, *Crassostrea virginica*. Pp. 277- 286. In: Recent Research in Coastal Louisiana: Natural System Function and Responses to Human Influences, Lafayette, LA. Feb. 3-5, 1998. N. Rabalais and D. Reed, eds. Louisiana Sea Grant, Baton Rouge, LA
- Tamplin, J. W. and W. B. Stickle. 1998. Effects of temperature, feeding and starvation on *Leptasterias epichlora*. Pp. 299-304. In: Proceedings of the 9<sup>th</sup> International Echinoderm Conference. San Francisco, CA. August 5-9, 1996. R. Moi and M. Telford eds. Balkema Press, Rotterdam.
- Guerin, J. L. and W. B. Stickle. 1997. A comparative study of two sympatric species within the genus *Callinectes*: effects of salinity on growth and moulting. Journal of Experimental Marine Biology and Ecology. 218: 165-186.
- Guerin, J. L. and W. B. Stickle. 1997. The effect of salinity on survival, and bioenergetics of juvenile lesser blue crabs *Callinectes similis*. Marine Biology. 129: 63-69.
- Foltz, D. W., J. P. Breaux, E. L. Campagnaro, S. W. Herke, A. E. Himel, A. W. Hrinkevich, J. W. Tamplin and W. B. Stickle. 1996. Limited morphological differences between genetically identified cryptic species within the *Leptasterias* species complex (Echinodermata: Asteroidea). Can. J. Zool. 74: 1275-1283.
- Foltz, D. W., W. B. Stickle, E. L. Campagnaro and A. E. Himel. 1996. Mitochondrial DNA polymorphisms reveal additional genetic heterogeneity within the *Leptasterias hexactis* (Echinodermata: Asteroidea) species complex. Marine Biology 125: 569-578.
- Roller, R. A., J. D. Rickett and W. B. Stickle. 1995. The hypobranchial gland of the estuarine snail, *Stramonita haemastoma canaliculata* (gray) (Prosobranchia: Muricidae): A light and electron microscopical study. Amer. Malacol. Bull. 11: 177-190.
- Guerin, J. L. and W. B. Stickle. 1995. Effects of cadmium on survival, osmoregulatory ability and bioenergetics of juvenile *Callinectes sapidus* at different salinities. Marine Environmental Research 40: 227-246.
- Roller, R. A. and W. B. Stickle. 1994. Effects of adult salinity acclimation on larval survival and early development of *Strongylocentrotus droebachiensis* and *S. pallidus* (Echinodermata: Echinoidea). Canadian Journal of Zoology 72: 1931-1939.
- Stickle, W. B., Jr., and D. W. Foltz. 1994. Habitat affinities of species in the *Leptasterias hexactis* complex along the Pacific Coast of the Continental United States pp. 353-358. In: Echinoderms: Proceedings of the 8th International Echinoderm Conference, Dijon, France. September 6-10, 1993. B. David, A. Guille, J. P. Feral and M. Roux, ed. A. A. Balkema Publishers, Rotterdam, Netherlands.
- Foltz, D. W. and W. B. Stickle, Jr. 1994. Genetic structure of four species in the *Leptasterias hexactis* complex along the Pacific Coast of North America pp. 291-296. In: Echinoderms: Proceedings of the 8th International Echinoderm Conference,

- Dijon, France. September 6-10, 1993. B. David, ed. A. A. Balkema Publishers, Rotterdam, Netherlands.
- Das, T. and W. B. Stickle, Jr. 1994. Detection and avoidance of hypoxic water by juvenile *Callinectes sapidus* and *C. similis*. *Marine Biology* 120: 593-600.
- Das, T. and W. B. Stickle. 1993. Sensitivity of the gastropod, *Stramonita haemastoma*, and the crabs, *Callinectes sapidus* and *Callinectes similis* to hypoxia and anoxia. *Marine Ecology Progress Series* 98: 263-274.
- Das, T. and W. B. Stickle, Jr. 1993. Sensitivity of crabs *Callinectes sapidus* and *C. similis* and the gastropod *Stramonita haemastoma* to hypoxia and anoxia. *Mar. Biol. Prog. Ser.* 98:263-274.
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