# **CURRICULUM VITAE**

### Victor S. Kennedy

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### Education

1962 B.Sc.	Concordia University, Montreal, Canada.	Zoology.
1964 M.Sc.	Memorial University, St. John's, Newfoundland, Canada.	Fisheries Biology.
1970 Ph.D.	University of Rhode Island, Kingston, RI, U.S.A.	Ecology.

# **Professional Background**

2016 (Fall)	Visiting Professor, Semester at Sea, Colorado State University
2014-	Professor Emeritus, Horn Point Laboratory
	Visiting Professor, Semester at Sea, University of Virginia
	Visiting Professor, Semester at Sea, University of Virginia
2006-2009	Director, Ecosystem Restoration Institute, UMCES
2002-2003	Director, Cooperative Oxford Laboratory, Oxford MD
1996-2003	Director, Multiscale Experimental Ecosystem Research Center, an EPA Exploratory
	Research Center
1993 (Fall)	Visiting Professor, Semester at Sea, University of Pittsburgh
1989-2001	Assistant Director, Horn Point Laboratory
1983-1984	W.F. James Fellow, St. Francis Xavier University, Nova Scotia, Canada
1976-2014	Assistant Professor (1976-1981), Associate Professor (1981-1986), Professor
	(1986-2014) Horn Point Laboratory
1974-1976	Post-doctoral Fellow, Environment Canada, Newfoundland Biological Station,
	St. John's, Newfoundland, Canada.
1973-1974	Post-doctoral Fellow, Department of Zoology, University of Canterbury,
	Christchurch, New Zealand.
1972-1973	Research Associate, University of Maryland, Chesapeake Biological Laboratory,
	Solomons, MD.
1970-1971	Visiting Assistant Professor, Biology Dept., Chapman College, Orange, CA.

# **Research areas**

Historical fisheries and ecology. Global climate change. Reproduction and larval behavior and ecology of bivalves. Crab and fish foraging behavior. Ecology of littoral and sublittoral benthic communities.

# **Google Scholar**

http://scholar.google.com/citations?hl=en&user=EjhUimIAAAAJ&view\_op=list\_works&pagesize=100 i10-index 61, h-index 33 (January 2017)

# **Publications in Refereed Journals**

Mayor, E.D., P. Chigbu, J. Pierson, and V.S. Kennedy. 2017. Composition, abundance and life history of mysids (Crustacea: Mysida) in the Coastal Lagoons of Maryland, USA. Estuaries and Coasts 40:224-234.

- Goodwin, J.D., E.W. North and V.S. Kennedy. 2016. Identification of *Crassostrea virginica* larvae using polarized light microscopy in a mesohaline region of Chesapeake Bay. Journal of Shellfish Research 35:157-168.
- Thompson, C.M., E.W. North, V.S. Kennedy, and S.N. White. 2015. Classifying bivalve larvae using pigments identified by Raman spectroscopy. Analytical and Bioanalytical Chemistry 407:3591-3604.
- Ishikawa, M. and V.S. Kennedy. 2014. Management of the oyster fisheries in Japan's Ariake Sea and Maryland's Chesapeake Bay: a comparison. Marine Fisheries Review 76:39-49.
- Kennedy, V. S. 2014. Technological constraints during the first 40 years of eastern oyster *Crassostrea virginica* aquaculture. Reviews in Fishery Science and Aquaculture 22:55-72.
- Kennedy, V.S. 2011. Biology of the uncommon dreissenid bivalve *Mytilopsis leucophaeata* (Conrad, 1831) in central Chesapeake Bay. Journal of Molluscan Studies 77: 154–164.
- Kennedy, V.S. 2011. The invasive dark falsemussel *Mytilopsis leucophaeata* (Bivalvia: Dreissenidae): a literature review. Aquatic Ecology 45:163–183.
- Kennedy, V.S., D.L. Breitburg, M.C. Christman, M.W. Luckenbach, K. Paynter, J. Kramer, K.G. Sellner, J.R. Dew-Baxter, C. Keller, and R. Mann. 2011. Lessons learned from efforts to restore oyster populations in Maryland and Virginia, 1990-2007. Journal of Shellfish Research 30:719-731.
- Kennedy, V.S., K.S. Shaw, and R.I.E. Newell. 2009. Discriminatory predation by three invertebrates on eastern oysters (*Crassostrea virginica*) compared with non-native Suminoe oysters (*C. ariakensis*). Invertebrate Biology 128:16-25.
- North, E.W., Z. Schlag, R.R. Hood, M. Li, L. Zhong, T. Gross and V.S. Kennedy. 2008. Vertical swimming behavior influences the dispersal of simulated oyster larvae in a coupled particle-tracking and hydrodynamic model of Chesapeake Bay. Marine Ecology Progress Series 359:99-115.
- Linton, C.M., S. Rebach and V.S. Kennedy. 2007. Notes on the behavior of blue crabs, *Callinectes sapidus* Rathbun, 1896 feeding on two morphologically dissimilar clams. Crustaceana 80:779-792.
- Newell, R.I.E., V.S. Kennedy and K.S. Shaw. 2007. Comparative vulnerability to predators, and induced defense responses, of eastern oysters *Crassostrea virginica* and non-native *Crassostrea ariakensis* oysters in Chesapeake Bay. Marine Biology 152:449-460.
- Milke, L. M. and V. S. Kennedy. 2001. Mud crabs (Xanthidae) in Chesapeake Bay: Claw characteristics and predation on epifaunal bivalves. Invertebrate Biology 120:67-77.
- Najjar, R. G. and 15 co-authors. 2000. The potential impacts of climate change on the mid-Atlantic coastal region. Climate Research 14:219-233.
- Newell, R. I. E., G. S. Alspach, Jr., V. S. Kennedy, and D. Jacobs. 2000. Mortality of newly metamorphosed eastern oysters (*Crassostrea virginica* Gmelin) in mesohaline Chesapeake Bay. Marine Biology 136:665-676.
- Derrick, P.A. and V.S. Kennedy. 1997. Prey selection by the hogchoker, *Trinectes maculatus* (Pisces: Soleidae), along summer salinity gradients in Chesapeake Bay USA. Marine Biology 129:699-711.
- Kennedy, V.S. 1996. The ecological role of the eastern oyster, *Crassostrea virginica*, with remarks on disease. Journal of Shellfish Research 15:177-183. (Invited peer-reviewed paper).
- Wright, D.A., E.M. Setzler-Hamilton, T. Magee, V.S. Kennedy and S.P. McIninch. 1996. Effect of salinity and temperature on survival and development of young zebra (*Dreissena polymorpha*) and quagga (*D. bugensis*) mussels. Estuaries 19:619-628.
- Ebersole, E.L. and V.S. Kennedy. 1995. Prey preferences of blue crabs (*Callinectes sapidus*) feeding on three bivalve species. Marine Ecology Progress Series 118:167-177.
- Kennedy, V.S., R.I.E. Newell, G. Krantz and S. Otto. 1995. Reproductive capacity of the eastern oyster *Crassostrea virginica* infected with the parasite *Perkinsus marinus*. Diseases of Aquatic Organisms 23:135-144.
- Ebersole, E.L. and V.S. Kennedy. 1994. Size selection of Atlantic rangia clams, *Rangia cuneata*, by blue crabs, *Callinectes sapidus*. Estuaries 17:668-673.
- Chintala, M.M. and V.S. Kennedy. 1993. Reproduction of *Stylochus ellipticus* (Platyhelminthes: Polycladida) in response to temperature, food, and presence or absence of a partner. Biological Bulletin 185:373-387.
- Sundberg, K. and V.S. Kennedy. 1993. Larval settlement of the Atlantic rangia, *Rangia cuneata* (Bivalvia: Mactridae). Estuaries 16:223-228.

- PAGE 3
- Brock, V. and V.S. Kennedy. 1992. Quantitative analysis of crystalline style carbohydrases in five suspension and deposit feeding bivalves. Journal of Experimental Marine Biology and Ecology 159:51-58.
- Sundberg, K. and V.S. Kennedy. 1992. Growth and development in larval and post-metamorphic *Rangia cuneata* (Bivalvia: Mactridae). Journal of Shellfish Research 11:9-12.
- Kennedy, V.S., S.C. Fuller and R.A. Lutz. 1991. Shell and hinge development of young *Corbicula fluminea* Müller (Bivalvia: Corbiculoidea). American Malacological Bulletin 8:107-111.
- Purcell, J.E., F. Cresswell, D.G. Cargo, and V.S. Kennedy. 1991. Differential ingestion and digestion of bivalve larvae by the scyphozoan *Chrysaora quinquecirrha* and the ctenophore *Mnemiopsis leidyi*. Biological Bulletin 180:103-111.
- Kennedy, V.S. 1990. Anticipated effects of climate change on estuarine and coastal fisheries. Fisheries (Bethesda) 15 (6):16-24 (Invited peer-reviewed paper).
- Messick, G.A. and V.S. Kennedy. 1990. Putative bacterial and viral infections in blue crabs *Callinectes sapidus* held in a flow-through or a recirculation shedding system. Journal of Shellfish Research 9:33-40.
- Kennedy, V.S., R.A. Lutz, and S.C. Fuller. 1989. Larval and early postlarval development of *Macoma mitchelli* Dall (Bivalvia: Tellinidae). The Veliger 32:29-38.
- Brock, V., V.S. Kennedy and A. Brock. 1986. Temperature dependency of carbohydrase activity in the hepatopancreas of thirteen estuarine and coastal bivalve species from the North American east coast. Journal of Experimental Marine Biology and Ecology 103:87-101.
- Kennedy, V.S. 1986. Expected seasonal presence of *Crassostrea virginica* (Gmelin) larval populations, emphasizing Chesapeake Bay. American Malacological Bulletin, Special Edition. 3:25-29. (Invited peer-reviewed review).
- Kennedy, V.S. 1985. A summer benthic survey in Conception Bay, Newfoundland, emphasizing zoogeography of annelids and amphipods. Canadian Journal of Zoology 63:1863-1869.
- Kennedy, V.S. and L. Van Heukelem. 1985. Gametogenesis and larval production in a population of the introduced Asiatic clam, *Corbicula* sp. (Bivalvia: Corbiculidae), in Maryland. Biological Bulletin 168:50-60.
- Kennedy, V.S. 1984. Crawling and clustering behavior of three species of intertidal mussels in New Zealand. New Zealand Journal of Marine and Freshwater Research 18:417-423.
- Kennedy, V.S. 1983. Sex ratios in oysters, emphasizing *Crassostrea virginica* from Chesapeake Bay, Maryland. Veliger 25:329-338.
- Kennedy, V.S. and J.A. Blundon. 1983. Shell strength in *Corbicula* sp. (Bivalvia: Corbiculidae) from the Potomac River, Maryland. Veliger 26:22-25.
- Kennedy, V.S. and L.L. Breisch. 1983. Sixteen decades of political management of the oyster fishery in Maryland's Chesapeake Bay. Journal of Environmental Management 16:153-171.
- Kennedy, V.S. and J. DiCosimo. 1983. Subtidal distribution of barnacles (Cirripedia: Balanidae) in Chesapeake Bay, Maryland. Estuaries 6:95-101.
- Wright, D.A., V.S. Kennedy, W.H. Roosenburg, M. Castagna and J.A. Mihursky. 1983. Temperature tolerance of embryos and larvae of five bivalve species under simulated power plant entrainment conditions: a synthesis. Marine Biology 77:271-278.
- Blundon, J.A. and V.S. Kennedy. 1982a. Mechanical and behavioral aspects of blue crab (*Callinectes sapidus* Rathbun) predation on Chesapeake Bay bivalves. Journal of Experimental Marine Biology and Ecology 65:47-65.
- Blundon, J.A. and V.S. Kennedy. 1982b. Refuges for infaunal bivalves from blue crab (*Callinectes sapidus* Rathbun) predation in Chesapeake Bay. Journal of Experimental Marine Biology and Ecology 65:67-81.
- Kennedy, V.S. and L.B. Krantz. 1982. Comparative gametogenic and spawning patterns of the oyster *Crassostrea virginica* Gmelin in central Chesapeake Bay. Journal of Shellfish Research 2:133-140.
- Lutz, R. (and 13 co-authors). 1982. Preliminary observations on the usefulness of hinge structures for identification of bivalve larvae. Journal of Shellfish Research 2:65-70.
- Roosenburg, W.H., J.C. Rhoderick, R.M. Block, V.S. Kennedy and S.M. Vreenegoor. 1980. Survival of *Mya arenaria* larvae (Mollusca: Bivalvia) exposed to chlorine-produced oxidants. Proceedings of the National Shellfisheries Association 70:105-111.

- Roosenburg, W.H., J.C. Rhoderick, R.M. Block, V.S. Kennedy, S.R. Gullans, S.M. Vreenegoor, A. Rosenkranz and C. Collette. 1980. Effects of chlorine-produced oxidants on survival of larvae of the oyster *Crassostrea virginica*. Marine Ecology Progress Series 3:93-96.
- Kennedy, V.S. 1980. Comparison of recent and past patterns of oyster settlement and seasonal fouling in Broad Creek and Tred Avon River, Maryland. Proceedings of the National Shellfisheries Association 70:36-46.
- Steinberg, P.D. and V.S. Kennedy. 1979. Predation upon *Crassostrea virginica* (Gmelin) larvae by two invertebrate species common to Chesapeake Bay oyster bars. Veliger 22:78-84.
- Kennedy, V.S. 1977. Reproduction in *Mytilus edulis aoteanus* and *Aulacomya maoriana* (Mollusca: Bivalvia) from Taylor's Mistake, New Zealand. New Zealand Journal of Marine and Freshwater Research 11:255-267.
- Kennedy, V.S. 1976. Desiccation, higher temperatures and upper tidal limits of three species of sea mussels (Mollusca: Bivalvia) in New Zealand. Marine Biology 35:127-137.
- Kennedy, V.S. 1976. Arsenic concentrations in some co-existing marine organisms from Newfoundland and Labrador. Journal of the Fisheries Research Board of Canada 33:1388-1393.
- Kennedy, V.S., W.H. Roosenburg, M. Castagna and J.A. Mihursky. 1974. Mercenaria mercenaria (Mollusca: Bivalvia): Temperature-time relationships for survival of embryos and larvae. Fishery Bulletin 72:1160-1166.
- Kennedy, V.S., W.H. Roosenburg, H.H. Zion and M. Castagna. 1974. Temperature-time relationships for survival of *Mulinia lateralis* embryos and larvae (Mollusca: Bivalvia). Marine Biology 24:137-145.
- Gatz, A.J., Jr., V.S. Kennedy and J.A. Mihursky. 1973. Effects of temperature on activity and mortality of the scyphozoan medusa, *Chrysaora quinquecirrha*. Chesapeake Science 14:171-180.
- Kennedy, V.S. and J.A. Mihursky. 1972. Effects of temperature on the respiratory metabolism of three Chesapeake Bay bivalves. Chesapeake Science 13:1-22.
- Kennedy, V.S. and J.A. Mihursky. 1971. Upper temperature tolerances of some estuarine bivalves. Chesapeake Science 12:193-204.
- Kennedy, V.S. and D.H. Steele. 1971. The winter flounder (*Pseudopleuronectes americanus*) in Long Pond, Conception Bay, Newfoundland. Journal of the Fisheries Research Board of Canada 28:1153-1165.
- Mihursky, J.A., A.J. McErlean and V.S. Kennedy. 1970. Thermal pollution, aquaculture and pathobiology in aquatic systems. Journal of Wildlife Diseases 6:347-355.
- McErlean, A.J. and V.S. Kennedy. 1968. Comparison of some anaesthetic properties of Benzocaine and MS-222. Transactions of the American Fisheries Society 97:496-498.
- Powles, P.M. and V.S. Kennedy. 1967. Age determination of Nova Scotian greysole, *Glyptocephalus cynoglossus* L., from otoliths. Int. Comm. NW. Atlantic Fisheries Research Bulletin 4:91-100.
- Mihursky, J.A. and V.S. Kennedy. 1967. Water temperature criteria to protect aquatic life. American Fisheries Society, Special Publication No. 4:20-32. (Invited paper).

### **Chapters in Books and Proceedings**

- Kennedy, V.S. (in preparation). History of Commercial Fisheries and Artificial Propagation of Diamond-backed Terrapins. In W. M. Roosenburg and V.S. Kennedy (eds.). Ecology and Conservation of the Diamond-backed Terrapin *Malaclemys terrapin*. Johns Hopkins University Press.
- Petersen, J.P., W.M. Kemp, V.S. Kennedy, W.C. Dennison, and P. Kangas. 2009. Introduction. Pages 1A1-1A41 in J.P. Petersen, V.S. Kennedy, W.C. Dennison, and W.M. Kemp (eds). 2009. Enclosed Experimental Ecosystems and Scale: Tools for Understanding and Managing Coastal Ecosystems. Springer, New York.
- Kennedy, V.S. 2007. External anatomy of blue crab larvae. Pages 25-54 <u>in</u> V.S. Kennedy and L.E. Cronin (eds.). The Blue Crab *Callinectes sapidus*. Maryland Sea Grant, College Park MD. (Peer-reviewed chapter).
- Kennedy, V.S. and L.E. Cronin. 2007. General anatomy of the post-larval blue crab. Pages 55-132 in V.S. Kennedy and L.E. Cronin (eds.). The Blue Crab *Callinectes sapidus*. Maryland Sea Grant, College Park MD. (Peer-reviewed chapter).

- Kennedy, V.S., M. Oesterling and W. Van Engel. 2007. History of blue crab fisheries on the U.S. Atlantic and Gulf coasts. Pages 595-649 <u>in</u> V.S. Kennedy and L.E. Cronin (eds.). The Blue Crab *Callinectes sapidus*. Maryland Sea Grant, College Park MD. (Peer-reviewed chapter).
- Kennedy, V.S. 2004. Thermal Pollution. Pages 79-89 <u>in</u> C.J. Cleveland (ed.). Encyclopedia of Energy, Volume 6.Academic Press, New York. (Peer-reviewed invited article).
- Wood, R.J., D.F. Boesch and V.S. Kennedy. 2002. Future consequences of climate change for the Chesapeake Bay ecosystem and its fisheries. Pages 171-183 in N.A. McGinn (ed.). Fisheries in a Changing Climate. American Fisheries Society Symposium 32, Bethesda MD. (Peer-reviewed invited paper.)
- Kennedy, V.S. 2001. Fisheries: Molluskan Fisheries. Pages 1830-1841 in J.H. Steele, K.K. Turekian and S.A. Thorpe (eds.). Encyclopedia of Ocean Sciences. Academic Press, New York. (Peer-reviewed invited article). Available online.
- Kennedy, V.S. and K. Mountford. 2001. Human influences on aquatic resources in the Chesapeake Bay watershed. Pages 191-219 <u>in</u> P.D. Curtin, G. Brush, and G. W. Fisher (eds.). Discovering the Chesapeake. Johns Hopkins University Press, Baltimore MD. (Peer-reviewed invited chapter.)
- Kennedy, V.S. and L.P. Sanford. 1999. Characteristics of relatively unexploited beds of the eastern oyster, *Crassostrea virginica*, and early restoration programs. Pages 25-46 in M. Luckenbach, R. Mann and J.A. Wesson (eds.). Oyster Reef Habitat Restoration: A Synopsis and Synthesis of Approaches. Virginia Institute of Marine Science Press, Gloucester Point VA. (Peer-reviewed invited paper).
- Kennedy, V.S. 1996. Biology of larvae and spat. Pages 371-421 <u>in</u> V.S. Kennedy, R.I.E. Newell, and A. F. Eble (eds.). The Eastern Oyster, *Crassostrea virginica*. Maryland Sea Grant, College Park MD.
- Thompson, R.J., R.I.E. Newell, V.S. Kennedy, and R. Mann. 1996. Reproductive processes and early development. Pages 335-370 in V.S. Kennedy, R.I.E. Newell, and A.F. Eble (eds.). The Eastern Oyster, *Crassostrea virginica*. Maryland Sea Grant, College Park MD.
- Kennedy, V.S. 1994. Climate warming and estuarine and coastal ecosystems. Pages 538-547 in C.V. Mathai and G. Stensland (eds.). Global Climate Change: Science, Policy, and Mitigation Strategies. Air and Waste Management Association, Pittsburgh, PA. (Invited paper).
- Baldwin, B.S., A.S. Pooley, R.A. Lutz, Y.-P. Hu, D.B. Conn and V.S. Kennedy. 1994. Identification of larval and postlarval zebra mussels and co-occurring bivalves in freshwater and estuarine habitats using shell morphology. Pages 479-488 in Proceedings of The Fourth International Zebra Mussel Conference, Madison, Wisconsin.
- Kennedy, V.S. 1991. Eastern oyster *Crassostrea virginica*. Pages 3.1-3.20 in S.L. Funderburk, J.A. Mihursky, S.J. Jordan and D. Riley (eds.). Habitat Requirements for Chesapeake Bay Living Resources, 2nd edition. Living Resources Subcommittee, Chesapeake Bay Program, Annapolis MD.
- Kennedy, V.S. and D.C. Kennedy. 1990. Graphic and tabular display of fishery data. Pages 33-64 <u>in</u> J. Hunter (ed.). Writing for Fishery Journals. American Fisheries Society, Bethesda MD. (Peer-reviewed invited chapter).
- Kennedy, V.S. 1989. The Chesapeake Bay oyster fishery: Traditional management practices. Pages 455-477 <u>in</u> John F. Caddy (ed.). Marine Invertebrate Fisheries: Their Assessment and Management, John Wiley and Sons. (Invited chapter).
- Kennedy, V.S. 1989. Potential effects of climate change on Chesapeake Bay animals and fisheries. Pages 509-513 <u>in</u> J.C. Topping, Jr. (ed.). Proceedings, Second North American Conference on Preparing for Climate Change, Washington D.C. (Invited paper).
- Mann, R., B. Meehan, J.S. Rainer, V. S. Kennedy, R.I.E. Newell, and W.F. Van Heukelem. 1987. Influence of low oxygen tensions on larvae and post settlement stages of the oyster *Crassostrea virginica*. Pages 139-143 in G. B. Mackiernan (ed.). Dissolved Oxygen in the Chesapeake Bay: Processes and Effects. UM-SG-TS-87-03, Maryland Sea Grant, College Park MD.
- Schubel, J.R. and V.S. Kennedy. 1984. The estuary as a filter: An introduction. Pages 1-11 in V.S. Kennedy (ed.). The Estuary as a Filter. Academic Press, New York.
- Mihursky, J.A., A.J. McErlean, V.S. Kennedy and W.H. Roosenburg. 1970. Regional planning and the Chesapeake Bay environment - an ecological approach. Proceedings, New England Coastal-Zone Management Conference, U.N.H., April 1970. pp. 47-74.

### **Books Written or Edited**

- Kennedy, V. S. (Accepted for publication). Shifting Baselines in Chesapeake Bay. Johns Hopkins University Press. Roosenburg, W.M. and V.S. Kennedy (editors). (Accepted for publication). Ecology and Conservation of the
- Diamond-backed Terrapin *Malaclemys terrapin*. Johns Hopkins University Press.
- Petersen, J.P, V.S. Kennedy, W.M. Kemp, and W.C. Dennison (editors). 2009. Enclosed Experimental Ecosystems and Scale: Tools for Understanding and Managing Coastal Ecosystems. Springer, New York
- Kennedy, V.S. and L.E. Cronin (editors). 2007. The Blue Crab, *Callinectes sapidus*. Maryland Sea Grant, College Park MD. 797 pages.
- Gardner, R.H., W.M. Kemp, V.S. Kennedy, and J.E. Petersen (editors). 2001. Scaling Relations in Experimental Ecology. Columbia University Press. 373 pages.
- Kennedy, V.S., R.I.E. Newell, and A.F. Eble (editors). 1996. The Eastern Oyster, *Crassostrea virginica*. Maryland Sea Grant, College Park MD. 772 pages.
- Kennedy, V.S. (editor). 1984. The Estuary as A Filter. Proceedings of the 1983 biennial meeting of the Estuarine Research Federation. Academic Press, New York. 510 pages; 22 peer-reviewed papers.
- Kennedy, V.S., (editor). 1982. Estuarine Comparisons. Proceedings of the 1981 biennial meeting of the Estuarine Research Federation. Academic Press, New York. 709 pages; 43 peer-reviewed papers.
- Kennedy, V.S. and L.L. Breisch. 1981. Maryland's Oysters: Research and Management. 286 pages. [An extensive review of the literature on worldwide oyster biology, and on oyster management in general and Maryland management in particular.] Published by University of Maryland Sea Grant Program.
- Kennedy, V.S., (editor).1980. Estuarine Perspectives. Proceedings of the 1979 biennial meeting of the Estuarine Research Federation. Academic Press, New York. 533 pages. 41 peer-reviewed papers.

### **Contracts and Grants (Last 20 years)**

- 2012-2014 North, E., S. Gallager, V. Kennedy, C. Thompson, and S. White. EAGER Collaborative research: Can Raman spectroscopy be used as a high-accuracy method to identify bivalve larvae? NSF Biological Oceanography.
- 2005-08 Predation by polyhaline invertebrate predators on young non-native oysters, *C. ariakensis*, in Chesapeake Bay. NOAA Chesapeake Bay Office Lead-PI
- 2005-08 Quantifying the response of different strains of *C. ariakensis* larvae to environmental change under spatially realistic conditions. NOAA Chesapeake Bay Office Co-PI
- 2004-05 Behavioral responses of *Crassostrea ariakensis* and *Crassostrea virginica* larvae to environmental change under spatially realistic conditions. Maryland DNR. Co-PI
- 2004-05 Competitive interactions between eastern and suminoe oysters from diploid larval settlement through to development of reefs and the assessment of the habitat value of such reefs. MD DNR. Co-PI
- 2003-05 Assessing the potential for natural predators to control the spread of the Suminoe oyster, *Crassostrea ariakensis*. Maryland Sea Grant. Co-PI
- 1996-03 Administration of the MEERC Program, an EPA Exploratory Research Center

#### **Memberships in Professional Societies**

- Atlantic Estuarine Research Society. Member-at-Large, 1981-82; President-Elect, 1983-84; President, 1984-86; Past-President, 1986-87; Honorary Member 1997
- Estuarine Research Federation. Member, Governing Board, 1984-86; Chairman, Publication Committee 1985-1989; Co-Chair, Poster Committee for ERF 2005; Member, Program Committee for ERF 2005

Marine Biological Association of the United Kingdom (life member)

National Shellfisheries Association. Member-at-Large, 1983-86; Vice-President, 1988-1989; President-Elect, 1989-1990; President 1990-1991; Past President 1991-1992; Honored Life Member 1995

### **Editorial Activity**

Co-Editor of Ecology and Conservation of the Diamondback Terrapin Malaclemys terrapin. In preparation.
Co-Editor of Enclosed Experimental Ecosystems and Scale: Tools for Understanding and Managing Coastal Ecosystems. Springer, New York. 2009
Senior editor of The Blue Crab, Callinectes sapidus. Maryland Sea Grant. 2007
Co-Editor of Scaling Relations in Experimental Ecology, Columbia University Press. 2001
Senior editor of The Eastern Oyster, Crassostrea virginica. Maryland Sea Grant. 1996
Editorial Board of the American Malacological Bulletin (1993-2003)
Science Editor of the 1979 (Estuarine Perspectives; 41 peer-reviewed papers), 1981 (Estuarine Comparisons; 43 papers), and 1983 (The Estuary as A Filter; 22 papers) Biennial Meetings of the Estuarine Research Federation, all published by Academic Press.
Associate Editor of the journal Estuaries (1976-79).

### Awards

Excellence in Fisheries Education Award, Tidewater Chapter of the American Fisheries Society 2013

*Graduate Education Award for Excellence in Teaching and Dedicated Service*, MEES Graduate Student Organization 1999

Honorary Member, Atlantic Estuarine Research Society 1997

Honored Life Member Award, National Shellfisheries Association 1995

Distinguished Service Award, American Fisheries Society 1992

Selected in a competition as *W.F. James Fellow* by St. Francis Xavier University, Canada to support 1983-84 sabbatical leave

*Thurlow C. Nelson Award* from the National Shellfisheries Association for exceptional research on shellfish by a junior investigator 1968

### **University of Maryland Courses Taught**

MEES 621 Biological Oceanography. Taught the benthic ecology component yearly from 1987 to 2013 MEES 608D Scientific Writing and Communication. Taught 339 graduate students from 1987 to 2012.

Received the 1999 Graduate Education Award for Excellence in Teaching and Dedicated Service (MEES Graduate Student Organization) for teaching this course and others.

### External courses taught

- Colorado State University, Semester at Sea Program. Fall 2016. Oceanography (2 sections), Coastal Environmental Ecology.
- *University of Virginia, Semester at Sea Program. Spring 2011.* Three courses (Marine Biology, Introduction to World Biomes, Human Effects on Coastal Systems).
- *University of Virginia, Semester at Sea Program. Spring 2008.* Three courses (Biological Oceanography, Introduction to World Biomes, Human Effects on Coastal Systems).
- University of Pittsburgh, Semester at Sea Program. Fall 1993. Three courses (Global Environmental Issues, Marine Biology, Introductory Ecology).
- St. Francis Xavier University, Antigonish, Nova Scotia, Canada. 1983. Topics in Aquatic Ecology (for senior undergraduates.

- University of Canterbury, Christchurch, New Zealand. 1974. B.Sc. (Hon.)/M.Sc. Seminar in Marine and Estuarine Ecology.
- *Chapman University, Orange, CA. 1970-71.* Three undergraduate courses (Marine Biology, Life Science, Environmental Biology) during 2 semesters on World Campus Afloat (predecessor to Semester at Sea) and 1 on the land campus.

### Graduate Students Supervised as Major Advisor or Co-Advisor\*

Name	Degree	Date	Thesis topic
Momoko Ishikawa	M.S.	2012	Comparative oyster management in Japan and Maryland
Marina Carreiro-Silva*	Ph.D.	2007	Coral reef borers and pollution
William Walton*	Ph.D.	2003	Ecology of the introduced green crab Carcinus maenas
Peggy Derrick	M.S.	1994	Feeding behavior of the hogchoker (a sole)
Ann Barse	Ph.D.	1994	Ecology of fish gill parasites
Elizabeth Ebersole	M.S.	1992	Blue crab foraging behavior
Karen Sundberg	M.S.	1991	Bivalve larval settlement
Gretchen Roe Messick	M.S.	1988	Blue crab diseases
Marnita Chintala	M.S.	1987	Stylochus ellipticus reproduction
Steve Jordan*	Ph.D.	1987	Oyster biodeposition
Jay Blundon	M.S.	1981	Blue crab predation on bivalves
Judith Connor	M.S.	1979	Microalgae on oysters

# **International Experience**

Visited 48 countries around the world while teaching for six semesters in an innovative seagoing university program managed by Chapman University (voyages during 1970 and 1971), University of Pittsburgh (1993), University of Virginia (2008, 2011), and now by Colorado State University (2016).

- Presented an invited lecture in December 2007 at an International Symposium on the Rehabilitation of Ariake Bay organized by Kyushu University in Fukuoka, Japan.
- Presented invited lectures in 1993 at the University of Madras and the Centre of Advanced Study in Marine Biology, Annamali University, India.
- North American member of the organizing committee of an international conference on estuarine and coastline pollution held in Fukuoka, Japan in 1987. Lectured at National Taiwan University and to the Marine Biological Association of Hong Kong at Hong Kong University.

Spent 2 weeks in France in November 1978 visiting marine laboratories on behalf of the University of Maryland Sea Grant Program as part of an effort to establish liaison between French and Maryland scientists.

Have conducted research in Canada, New Zealand, and the United States