

CURRICULUM VITAE**Victor S. Kennedy**

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Education

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

Professional Background

1970-71 Visiting Assistant Professor, Biology Dept., Chapman College, Orange, CA.
 1972-73 Research Associate, University of Maryland, Chesapeake Biological Laboratory,
 Solomons, MD.
 1973-74 Post-doctoral Fellow, Department of Zoology, University of Canterbury,
 Christchurch, New Zealand.
 1974-76 Post-doctoral Fellow, Environment Canada, Newfoundland Biological Station,
 St. John's, Newfoundland, Canada.
 1976- Assistant Professor (1976-1981), Associate Professor (1981-1986), Professor (1986-present)
 Horn Point Laboratory
 1983-84 W.F. James Fellow, St. Francis Xavier University, Nova Scotia, Canada (sabbatical).
 1989-2001 Assistant Director, Horn Point Laboratory
 1993 Visiting Professor, University of Pittsburgh Semester at Sea (mini-sabbatical)
 1996-2003 Director, Multiscale Experimental Ecosystem Research Center, an EPA Exploratory Research
 Center
 2002-2003 Director, Cooperative Oxford Laboratory, Oxford MD
 2006- present Director, Ecosystem Restoration Institute, UMCES
 2008 (Spring) Visiting Professor, Semester at Sea, University of Virginia (mini-sabbatical)

Research**Areas of professional expertise**

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

Publications in Refereed Journals

Mihursky, J.A. and V.S. Kennedy. 1967. Water temperature criteria to protect aquatic life. American
 Fisheries Society, Spec. Publ. No. 4:20-32. (Invited paper).
 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.
 McErlean, A.J. and V.S. Kennedy. 1968. Comparison of some anaesthetic properties of Benzocaine and
 MS-222. Trans. Amer. Fish. Soc. 97:496-498.
 Mihursky, J.A., A.J. McErlean and V.S. Kennedy. 1970. Thermal pollution, aquaculture and pathobiology in
 aquatic systems. J. Wild. Diseases 6:347-355.
 Kennedy, V.S. and J.A. Mihursky. 1971. Upper temperature tolerances of some estuarine bivalves.
 Chesapeake Sci. 12:193-204.

- Kennedy, V.S. and D.H. Steele. 1971. The winter flounder (*Pseudopleuronectes americanus*) in Long Pond, Conception Bay, Newfoundland. J. Fish. Res. Bd. Canada 28:1153-1165.
- Kennedy, V.S. and J.A. Mihursky. 1972. Effects of temperature on the respiratory metabolism of three Chesapeake Bay bivalves. Chesapeake Sci. 13:1-22.
- 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 Sci. 14:171-180.
- 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). Mar. Biol. 24:137-145.
- 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. Fish. Bull. 72:1160-1166.
- Kennedy, V.S. 1976. Desiccation, higher temperatures and upper tidal limits of three species of sea mussels (Mollusca:Bivalvia) in New Zealand. Mar. Biol. 35:127-137.
- Kennedy, V.S. 1976. Arsenic concentrations in some co-existing marine organisms from Newfoundland and Labrador. J. Fish. Res. Bd. Canada 33:1388-1393.
- Kennedy, V.S. 1977. Reproduction in *Mytilus edulis aoteanus* and *Aulacomya maoriana* (Mollusca:Bivalvia) from Taylor's Mistake, New Zealand. N.Z. Journal Mar. Freshw. Res. 11:255-267.
- 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.
- Roosenburg, W.H., J.C. Rhoderick, R.M. Block, V.S. Kennedy and S.M. Vreenegeoor. 1980. Survival of *Mya arenaria* larvae (Mollusca:Bivalvia) exposed to chlorine-produced oxidants. Proc. Natl. Shellfish. Assoc. 70:105-111.
- Roosenburg, W.H., J.C. Rhoderick, R.M. Block, V.S. Kennedy, S.R. Gullans, S.M. Vreenegeoor, A. Rosenkranz and C. Collette. 1980. Effects of chlorine-produced oxidants on survival of larvae of the oyster *Crassostrea virginica*. Mar. Ecol. Prog. Ser. 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. Proc. Natl. Shellfish. Assoc. 70:36-46.
- Blundon, J.A. and V.S. Kennedy. 1982a. Mechanical and behavioral aspects of blue crab (*Callinectes sapidus* Rathbun) predation on Chesapeake Bay bivalves. J. Exp. Mar. Biol. Ecol. 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. J. Exp. Mar. Biol. Ecol. 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. J. Shellfish Res. 2:133-140.
- Kennedy, V.S. and L.L. Breisch. 1983. Sixteen decades of political management of the oyster fishery in Maryland's Chesapeake Bay. J. Environ. Mgmt. 16:153-171.
- Kennedy, V.S. 1983. Sex ratios in oysters, emphasizing *Crassostrea virginica* from Chesapeake Bay, Maryland. The Veliger 25:329-338.
- Kennedy, V.S. and J.A. Blundon. 1983. Shell strength in *Corbicula* sp. (Bivalvia:Corbiculidae) from the Potomac River, Maryland. The Veliger 26:22-25.
- Kennedy, V.S. and J. DiCosimo. 1983. Subtidal distribution of barnacles (Cirripedia:Balaniidae) in Chesapeake Bay, Maryland. Estuaries 6:95-101.
- Lutz, R. (and 13 co-authors of which I am 8th). 1983. Preliminary observations on the usefulness of hinge structures for identification of bivalve larvae. J. Shellfish Res. 2:65-70.
- 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. Mar. Biol. 77:271-278.
- Kennedy, V.S. 1984. Crawling and clustering behavior of three species of intertidal mussels in New Zealand. New Zealand Journal Mar. Freshw. Res. 18:417-423.
- 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. Biol. Bull. 168:50-60.

- Kennedy, V.S. 1985. A summer benthic survey in Conception Bay, Newfoundland, emphasizing zoogeography of annelids and amphipods. *Can. J. Zool.* 63:1863-1869.
- Kennedy, V.S. 1986. Expected seasonal presence of *Crassostrea virginica* (Gmelin) larval populations, emphasizing Chesapeake Bay. *Amer. Malacol. Bull., Spec. Ed.* 3:25-29. (Invited peer-reviewed review).
- 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. *J. Exp. Mar. Biol. Ecol.* 103:87-101.
- 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.
- 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. *J. Shellfish Res.* 9:33-40.
- Kennedy, V.S. 1990. Anticipated effects of climate change on estuarine and coastal fisheries. *Fisheries (Bethesda)* 15 (6):16-24 (Invited peer-reviewed paper).
- 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*. *Biol. Bull.* 180:103-111.
- Kennedy, V.S., S.C. Fuller and R.A. Lutz. 1991. Shell and hinge development of young *Corbicula fluminea* Müller (Bivalvia: Corbiculoidea). *Amer. Malacol. Bull.* 8:107-111.
- Sundberg, K. and V.S. Kennedy. 1992. Growth and development in larval and post-metamorphic *Rangia cuneata* (Bivalvia: Mactridae). *J. Shellfish Res.* 11:9-12.
- Brock, V. and V.S. Kennedy. 1992. Quantitative analysis of crystalline style carbohydrases in five suspension and deposit feeding bivalves. *J. Exp. Mar. Biol. Ecol.* 159:51-58.
- Sundberg, K. and V.S. Kennedy. 1993. Larval settlement of the Atlantic rangia, *Rangia cuneata* (Bivalvia: Mactridae). *Estuaries* 16:223-228.
- 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. *Biol. Bull.* 185:373-387.
- 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.
- Ebersole, E.L. and V.S. Kennedy. 1995. Prey preferences of blue crabs (*Callinectes sapidus*) feeding on three bivalve species. *Mar. Ecol. Prog. Ser.* 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*. *Dis. Aquat. Org.* 23:135-144.
- Kennedy, V.S. 1996. The ecological role of the eastern oyster, *Crassostrea virginica*, with remarks on disease. *J. Shellfish Res.* 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.
- 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. *Mar. Biol.* 129:699-711.
- 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. *Mar. Biol.* 136:665-676.
- 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.
- Milke, L. M. and V. S. Kennedy. 2001. Mud crabs (Xanthidae) in Chesapeake Bay: Claw characteristics and predation on epifaunal bivalves. *Invertebrate Biol.* 120:67-77.
- 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.

- 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.
- 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.

Chapters in Books and Proceedings

- Mihursky, J.A., A.J. McErlean, V.S. Kennedy and W.H. Roosenburg. 1970. Regional planning and the Chesapeake Bay environment - an ecological approach. *Proc. New England Coastal-Zone Mgmt. Conf., U.N.H., April 1970.* pp. 47-74.
- 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.
- 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.
- Kennedy, V.S. 1989. The Chesapeake Bay oyster fishery: Traditional management practices. Pages 455-477 in 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 in J.C. Topping, Jr. (ed.). *Proceedings Second North American Conference on Preparing for Climate Change,* Washington D.C. (Invited paper).
- Kennedy, V.S. and D.C. Kennedy. 1990. Graphic and tabular display of fishery data. Pages 33-64 in J.Hunter (ed.). *Writing for Fishery Journals.* American Fisheries Society, Bethesda MD. (Peer-reviewed invited chapter).
- 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.
- 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. 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).
- Kennedy, V.S. 1996. Biology of larvae and spat. Pages 371-421 in 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. 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. and K. Mountford. 2001. Human influences on aquatic resources in the Chesapeake Bay watershed. Pages 191-219 in 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. 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)

- 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. 2004. Thermal Pollution. Pages 79-89 in C.J. Cleveland (ed.). Encyclopedia of Energy, Volume 6. Academic Press, New York. (Peer-reviewed invited article).
- Kennedy, V.S. 2007. External anatomy of blue crab larvae. Pages 25-54 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. 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 in V.S. Kennedy and L.E. Cronin (eds.). The Blue Crab *Callinectes sapidus*. Maryland Sea Grant, College Park MD. (Peer-reviewed chapter).
- J.E. Petersen, 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.

Books Written or Edited

- Kennedy, V.S., (editor). 1980. Estuarine Perspectives. Proceedings of the 1979 biennial meeting of the Estuarine Research Federation. Academic Press, New York. 533 pp. 41 peer-reviewed papers.
- Kennedy, V.S. and L.L. Breisch. 1981. Maryland's Oysters: Research and Management. 286 pp. [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). 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. (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., R.I.E. Newell, and A.F. Eble (editors). 1996. The Eastern Oyster, *Crassostrea virginica*. Maryland Sea Grant, College Park MD. 772 p.
- Gardner, R.H., W.M. Kemp, V.S. Kennedy, and J.E. Petersen. 2001. Scaling Relations in Experimental Ecology. Columbia University Press. 373 p.
- Kennedy, V.S. and L.E. Cronin (editors). 2007. The Blue Crab, *Callinectes sapidus*. Maryland Sea Grant, College Park MD. 797 p.
- 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

Bibliographies

- Kennedy, V.S. and J.A. Mihursky. 1967. Bibliography of the effects of temperature in the aquatic environment. Univ. Maryland, Natural Res. Inst. Contrib. No. 326. 87 pp. [1220 references.]
- Kennedy, V.S. and J.A. Mihursky. 1969. Addendum to bibliography of the effects of temperature in the aquatic environment. Univ. Maryland, Natural Res. Inst. Ref. No. 69-9. 18 pp. [279 additional references.]
- Breisch, L.L. and V.S. Kennedy. 1980. A Selected Bibliography of Worldwide Oyster Literature. Maryland Sea Grant Program. 309 pp. [Over 3700 references].
- Kennedy, V.S. and L.L. Breisch. 1981. Maryland's Oysters: An Annotated Bibliography. Maryland Sea Grant Program. 53 pp.
- Kennedy, V.S. and J.A. Mihursky. 1998. A selected bibliography of the effects of temperature on aquatic animals. Maryland Sea Grant website (3453 references).

Book reviews

- Environment - Resources, Pollution and Society by W.W. Murdoch. 1973. Chesapeake Science 14:70.
- Ecology and the Quality of Our Environment by C.H. Southwick. 1973. Chesapeake Science 14:70-71.

- Tidal Wetland Plants of Virginia by G.M. Silberhorn. 1979. *Estuaries* 2:209.
- The Effects of Tropical Storm Agnes on the Chesapeake Bay Estuarine System by Chesapeake Research Consortium. 1979. *Estuaries* 2:209-210.
- An Annotated Checklist of the Biota of the Coastal Zone of South Carolina by R.G. Zingmark. 1979. *Estuaries* 2:210.
- Wetland Functions and Values: The State of Our Understanding by P.E. Greeson et al. 1981. *Estuaries* 4:388.
- Common Plants of the Mid-Atlantic Coast by G.M. Silberhorn. 1982. *Estuaries* 5:326.
- Intertidal and Littoral Ecosystems by A.C. Mathieson and A.H. Nienhus (eds.). 1994. *Transactions of the American Fisheries Society* 123:119-120.
- Practical Manual for Zebra Mussel Monitoring and Control by R. Claudi and G.L. Mackie. 1994. *National Shellfisheries Association Newsletter*.
- Biology of the Hard Clam by J.N. Kraeuter and M. Castagna. Elsevier, New York. 2001. *Transactions of the American Fisheries Society*.
- Bivalve Molluscs. Biology, Ecology and Culture. E. Gosling. Iowa State Press, Ames IA. 2004. *Maryland Aquafarmer Issue* 2004-01/02:18-19.

Fact sheet

- Crassostrea virginica* Gmelin, 1791 [Ostreidae]. 2005. Cultured Aquatic Species Information Programme. Inland Water Resources and Aquaculture Service of FAO. 9 p.

Contracts and Grants (Recent)

- 2005-08 Predation by polyhaline invertebrate predators on young non-native oysters, *C. ariakensis*, in Chesapeake Bay. NOAA Chesapeake Bay Office
- 2005-08 Quantifying the response of different strains of *C. ariakensis* larvae to environmental change under spatially realistic conditions. NOAA Chesapeake Bay Office
- 2002-05 Assessing the potential for natural predators to control the spread of the Suminoe oyster. Maryland Sea Grant
- 2004-05 Behavioral responses of *Crassostrea ariakensis* and *Crassostrea virginica* larvae to environmental change under spatially realistic conditions. Maryland DNR.
- 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.
- 2003-05 Assessing the potential for natural predators to control the spread of the Suminoe oyster, *Crassostrea ariakensis*. Maryland Sea Grant.
- 1996-03 Administration of the MEERC Program, an EPA Exploratory Research Center

Symposia or Workshops Organized

- Maryland Sea Grant College Oyster Ecology Workshop, October 28-30, 1991. Annapolis, MD
- National Shellfisheries Association
- Annual Meeting 1989 - As Program Chair, I prepared a program of 109 technical papers.
 - Annual Meeting 1982 - Shellfish as Predators and Prey - 11 speakers
 - Annual Meeting 1981 - Environmental Influences on Molluscan Reproduction - 8 speakers.

Memberships in Professional Societies

- American Malacological Society
- Atlantic Estuarine Research Society. Member-at-Large, 1981-82; President-Elect, 1983-84; President, 1984-86; Past-President, 1986-87; Honorary Member 1997
- Crustacean Society
- 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

Editor, Proceedings 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 (ERF), all published by Academic Press.

Editorial Board of the *American Malacological Bulletin* (1993-2003)

Associate Editor of the journal *Estuaries* (1976-79).

Science Editor of the *Transactions of the American Fisheries Society* (1986-91).

Senior editor of *The Eastern Oyster*, *Crassostrea virginica*. Maryland Sea Grant. 1996

Co-Editor of *Scaling Relations in Experimental Ecology*, Columbia University Press. 2001

Senior editor of *The Blue Crab*, *Callinectes sapidus*. Maryland Sea Grant. 2007

Co-Editor of *Enclosed Experimental Ecosystems and Scale: Tools for Understanding and Managing Coastal Ecosystems*. Springer, New York. 2009

Awards

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

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

Outstanding Service Award, American Fisheries Society 1992

Honored Life Member Award, National Shellfisheries Association 1995

Honorary Member, Atlantic Estuarine Research Society 1997

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

Teaching and training

Member, Inter-Institutional Graduate Faculty, University System of Maryland

Teaching interests include Environmental Science; Marine and Estuarine Ecology; Invertebrate Zoology; Scientific Writing.

University of Maryland Courses Taught

MEES 621 Biological Oceanography Teach the benthic ecology component yearly

MEES 608D Scientific Writing and Communication 294 graduate students since 1987. *Received the 1999 Graduate Education Award for Excellence in Teaching and Dedicated Service (MEES Graduate Student Organization) for teaching this course and others.*

MEES 608X Historical Development of Ecological Thought; Recent Topics in Invertebrate Research; Larval Ecology; Zoogeography; Introduction to Environmental Studies. Taught in various years since 1981.

External courses

Chapman University, Orange, CA. 1970-71. Three undergraduate courses (Marine Biology, Life Science, Environmental Biology) during 3 semesters.

University of Canterbury, Christchurch, New Zealand. 1974. B.Sc. (Hon.)/M.Sc. Seminar in Marine and Estuarine Ecology.

St. Francis Xavier University, Antigonish, Nova Scotia, Canada. 1983. Topics in Aquatic Ecology, 11 senior undergraduates.

University of Pittsburgh, Semester at Sea Program. Fall 1993. Three courses (Global Environmental Issues, Marine Biology, Introductory Ecology) with a total of 71 undergraduates.

University of Virginia, Semester at Sea Program. Spring 2008. Three courses (Biological Oceanography, Introduction to World Biomes, Human Effects on Coastal Systems) with a total of 95 undergraduates.

Graduate Students Supervised as Major Advisor

Name	Degree Date	Thesis topic
Judy Connor	M.S. 1979	Microalgae on oysters
Jay Blundon	M.S. 1981	Blue crab predation on bivalves
Steve Jordan	Ph.D. 1987	Oyster biodeposition
Marnita Chintala	M.S. 1987	<i>Stylochus ellipticus</i> reproduction
Gretchen Roe	M.S. 1988	Blue crab diseases
Karen Sundberg	M.S. 1991	Bivalve larval settlement
Beth Ebersole	M.S. 1992	Blue crab foraging behavior
Ann Barse	Ph.D. 1994	Ecology of fish gill parasites
Peggy Derrick	M.S. 1994	Feeding behavior of the hogchoker (a sole)
William Walton	Ph.D. 2003	Ecology of the introduced green crab
Marina Silva	Ph.D. 2007	Coral reef borers and pollution
Current student		
Momoko Ishikawa	M.S. 2010	Oyster management

Service Outside University of Maryland

Institutional Trustee, and Secretary: Chesapeake Research Consortium 1988-1993

Chairman, Aquaculture '92 Steering Committee, 1989-1992 - oversaw triennial meeting in 1992 with over 2000 attendees.

Estuarine Research Federation, Publications Committee: Chairman, 1985-89; Member 1980-83; Co-Chair, Poster Committee for ERF 2005

National Shellfisheries Association: Chairman, Constitution Committee, 1985-86; Member-at-Large (Elected), 1983-86; Chairman, Site and Registration Committee, 1980-1983

Atlantic Estuarine Research Society: Chairman, Constitution Committee, 1988-89; Member-at-Large, 1981-82; Chairman, Ad-hoc Committee Regarding Support for the journal *Estuaries*, 1978-79.

Marsh Ecology Research Program, Science Advisory Council 1996-2001

Member, Publications Overview Committee, American Fisheries Society 1999-2000

Member, Oyster Roundtable Scientific Advisory Committee 1994-; Chair 2002-2003

Service within Horn Point Laboratory/UMCES

Assistant Director, 1989 – 2001

Director, Summer Program, 1978 to 1988 - Recruited 180 students; raised \$59,351 for program

HPL Elected Representative on UMCES Graduate Faculty Council 1992-2002

HPL Elected Senator, 2000-2002

International Experience

Visited over 43 countries around the world while teaching for four semesters in an innovative seagoing university program managed by Chapman University (voyages during 1970 and 1971), then by University of Pittsburgh (1993), and now by University of Virginia (2008).

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 performed research in Canada, New Zealand, and the United States.