

## *Curriculum Vitae* -- David Clayton Schneider

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**Degrees** Ph.D. State University of New York at Stony Brook, USA. (1978)  
B.Sc. Duke University, North Carolina, USA. (1969)

### **Positions Held**

2003-06	Associate Dean of Science	Memorial University, St. John's, Canada
1992	Professor	Memorial University, St. John's, Canada
1988	Associate Professor (Research)	Memorial University, St. John's, Canada
1987	Assistant Professor (Research)	Memorial University, St. John's, Canada
1984	University Research Fellow	Memorial University, St. John's, Canada
1984	Visiting Assistant Professor	University of Rhode Island, Kingston, RI, USA
1982	Assistant Research Biologist	University of California, Irvine, CA, USA
1980	Postdoctoral Fellow	University of California, Irvine, CA, USA
1979	Research advisor	Manomet Biological Observatory, Manomet, MA, USA
1978	Staff Biologist	Manomet Biological Observatory, Manomet, MA, USA

### **Awards and Fellowships**

2008	Distinguished Scholar Award	Faculty of Science, Memorial University
2005	Graduate Teaching Award	Northeastern Association of Graduate Schools (USA,Canada)
1994	Visiting Scientist (6 weeks)	National Institute of Water and Atmospheric Research Hamilton, New Zealand.
1991	Visiting Scholar (1 year)	Scripps Institute of Oceanography, La Jolla, USA.
1984	Sigma Xi Scholar (12 weeks)	University of Rhode Island Department of Zoology Kingston, RI, USA.
1982	Visiting Scholar (12 weeks)	FitzPatrick Institute, University of CapeTown, South Africa.
1978	Nobel Fellowship (16 weeks)	Smithsonian Tropical Research Institute, Balboa, Panama.

### **Editorial Boards**

1986-2000	Marine Ecology Progress Series
1989-1996	Journal of Marine Systems

## Refereed Publications

- 2011 Renkawitz, M.D., R.S. Gregory, D.C. Schneider. Habitat dependant growth of three species of bottom settling fish in a coastal fjord. *Journal of Experimental Marine Biology and Ecology* 409: 79-88. doi:10.1016/j.jembe.2011.08.004
- 2011 Currie, J.J., D.C. Schneider. Spatial scale up of vital rates: Size-specific fecundity of the American lobster *Homarus americanus*. *Marine Ecology–Progress Series* 439: 193–201. <http://www.int-res.com/abstracts/meps/v439/p193-201/>
- 2010 Currie, J.J., D.C. Schneider, K.M. Wilke. Validation of a noninvasive technique for estimating fecundity in the American lobster *Homarus americanus*. *Journal of Shellfish Research* 29: 1021-1024.
- 2010 Thistle, M.E., D.C. Schneider, R.S. Gregory, N.J. Wells. Fractal measures of habitat structure: maximum densities of juvenile cod occur at intermediate eelgrass complexity. *Marine Ecology–Progress Series* 405: 39-56.
- 2009 Carruthers, E.H., D.C. Schneider, J.D. Neilson. 2009. Estimating the odds of survival and identifying mitigation opportunities for common bycatch in pelagic longline fisheries. *Biological Conservation* 142: 2620-2630. <http://dx.doi.org/10.1016/j.biocon.2009.06.010>
- 2009 Johnson, K.E., L.D. Knopper, D.C. Schneider, C.A. Ollson, K.J. Reimer. Effects of local point source polychlorinated biphenyl (PCB) contamination on bone mineral density in deer mice (*Peromyscus maniculatus*). *Science of the Total Environment* 407: 5050–5055. <http://dx.doi.org/doi:10.1016/j.scitotenv.2009.06.004>
- 2009 Mayor, S.J., D.C. Schneider, J.A. Schaefer, S.P. Mahoney. Habitat selection at multiple scales. *Ecoscience* 16: 238-247. <http://www.bioone.org/doi/abs/10.2980/16-2-3238>
- 2009 Wroblewski, J.S., T.J. Bell, A.I. Copeland, E.N. Edinger, C.Y. Feng , J.D. Saxby, D.C. Schneider, J.M. Simms. Toward a sustainable Iceland scallop fishery in Gilbert Bay, a marine protected area in the eastern Canada coastal zone. *Journal of Cleaner Production* 17: 424-430. <http://dx.doi.org/doi:10.1016/j.jclepro.2008.08.004>
- 2009 Mayor, S.J., J.A. Schaefer, D.C. Schneider, S.P. Mahoney. The spatial structure of habitat selection: A caribou’s-eye-view. *Acta Oecologica* 35: 253:260. <http://dx.doi.org/doi:10.1016/j.actao.2008.11.004>
- 2009 Gorman, A.M., R.S. Gregory, D.C. Schneider. Eelgrass patch size and proximity to the patch edge affect predation risk of recently settled age 0 cod (*Gadus*). *Journal of Experimental Marine Biology and Ecology* 371:1-9. <http://dx.doi.org/10.1016/j.jembe.2008.12.008>
- 2008 Ellis, J., D.C. Schneider. Spatial and temporal scaling in benthic ecology. *Journal of Experimental Marine Biology and Ecology* 366:92-98 <http://dx.doi.org/doi:10.1016/j.jembe.2008.07.012>

- 2008 Ings, D.W., R.S. Gregory, D.C. Schneider. Episodic downwelling predicts recruitment of Atlantic cod, Greenland cod and white hake to Newfoundland coastal waters. *Journal of Marine Research* 66: 529-561.
- 2008 Schneider, D.C. M.J., Norris, R.S. Gregory. Predictive analysis of scale-dependent habitat association: Juvenile cod (*Gadus* spp.) in eastern Newfoundland. *Estuarine, Coastal, Shelf Science* 79: 71-78. <http://dx.doi.org/10.1016/j.ecss.2008.03.005>
- 2008 Murray, G., B. Neis, C.T. Palmer, D.C. Schneider. Mapping cod: fisheries science, fish harvesters' ecological knowledge and cod migrations in the North Gulf of St. Lawrence. *Human Ecology* 36: 581 - 598.
- 2008 Murray, G., B. Neis, D.C. Schneider. Lessons from a multi-scale historical reconstruction of Newfoundland and Labrador fisheries. *Coastal Management* 36: 81-108
- 2007 Keats, K.F., R.B. Rivkin, M.S. Hale, D.C. Schneider. Effects of long-term sample storage on the detection of bacterial cells using fluorescence in situ hybridization. *Limnology and Oceanography Methods* 5: 379-383.
- 2007 Mayor, S.J., J.A. Schaefer, D.C. Schneider, S.P. Mahoney. Spectrum of selection: new approaches to detecting the scale-dependent response to habitat. *Ecology* 88: 1634-1640.
- 2007 Wilhelm, S.I., G.J. Robertson, P.C. Ryan, D.C. Schneider. Comparing an estimate of seabirds at risk to a mortality estimate from the November 2004 Terra Nova FPSO oil spill. *Marine Pollution Bulletin* 54: 537-544.
- 2006 Li, X., D. Li, Z. Ma, D.C. Schneider. Nest site use by crested ibis: Dependence of a multifactor model on spatial scale. *Landscape Ecology* 21: 1207-1216.
- 2006 Sargent, P., R. Gregory, D.C. Schneider. Density responses of subarctic coastal marine fish and crab to artificial reefs. *Transactions American Fisheries Society* 135: 348-360.
- 2005 Dolan, A.H., S.M. Taylor, B. Neis, R.E. Ommer, J. Eyles, D. Schneider, and W.A. Montevecchi. 2005. Restructuring and health in Canadian coastal communities. *EcoHealth* 2: 1–14.
- 2004 Srivastava, D.S., J. Kolasa, J. Bengtsson, A. Gonzalez, S.P. Lawler, T.E. Miller, P. Munguia, T. Romanuk, D.C. Schneider, M.K. Trzcinski. Are natural microcosms useful model systems for ecology? *Trends in Ecology and Evolution*. 19:379-384.
- 2004 Laurel, B.J., R.S. Gregory, J.A. Brown, J.K. Hancock, D.C. Schneider. Behavioural consequences of density-dependent habitat use in juvenile cod *Gadus morhua* and *G. ogac*: the role of movement and aggregation. *Marine Ecology-Progress Series* 272: 257–270.
- 2004 Jiao, Y., Y. Chen, D.C. Schneider, J.S. Wroblewski. A simulation study of impacts of error structure on modeling stock-recruitment data using generalized linear models. *Canadian Journal of Fisheries and Aquatic Science* 61: 122-134.

- 2004 Jiao, Y., D.C. Schneider, Y. Chen, J.S. Wroblewski. An analysis of error structure in modeling the stock-recruitment data of gadoid stocks using generalized linear models. *Canadian Journal of Fisheries and Aquatic Science* 61: 134-146.
- 2003 Methven, D.A., D.C. Schneider, G.A. Rose. Spatial pattern and patchiness during ontogeny: post-settled *Gadus morhua* from coastal Newfoundland. *ICES Journal of Marine Science* 60: 38-51.
- 2002 Baumgartner, J., G. Gilioli, D.C. Schneider, M. Severini. The management of populations in hierarchically organized systems. *Notiziario sulla Protezione delle Piante* 15: 247-264.
- 2002 Schneider, D.C. Scaling theory: Application to marine ornithology. *Ecosystems* 5: 736-748.
- 2001 Smith, P.E., J.K. Horne, D.C. Schneider. Spatial dynamics of anchovy, sardine and hake pre-recruit stages in the California Current. *ICES Journal of Marine Science* 58: 1063-1071.
- 2001 Schneider, D.C. The rise of the concept of scale in ecology. *BioScience* 51: 545-553.
- 2001 Linehan, J.E., R.S. Gregory, D.C. Schneider. Predation risk of age 0 cod (*Gadus morhua*) relative to depth and substrate in coastal waters. *Journal of Experimental Marine Biology and Ecology* 263: 25-44.
- 2000 Ellis, J.I., D.C. Schneider. Detecting anthropogenic disturbance in an environment with multiple gradients of physical disturbance, Manukau Harbour, New Zealand. *Hydrobiologia* 404: 379-391.
- 2000 Brayton, A.F., D.C. Schneider. Shorebird abundance and invertebrate density during the boreal winter and spring at Peninsula Valdez, Argentina. *Waterbirds* 23: 277-282.
- 2000 O'Driscoll, R.L., D.C. Schneider, G.A. Rose, G.R. Lilly. Potential contact: An ecologically interpretable method for measuring scale-dependent spatial pattern and association. *Canadian Journal of Fisheries and Aquatic Sciences* 57: 1355-1368.
- 1999 Neis, B., D.C. Schneider, L. Felt, R.L. Haedrich, J. Fischer, J.A. Hutchings. Stock assessment: What can be learned from interviewing resource users? *Canadian Journal of Fisheries and Aquatic Sciences* 56: 1949-1963.
- 1999 Schneider, D.C., T. Bult, R.S. Gregory, D.A. Methven, D.W. Ings, V. Gotceitas. Mortality, movement, and body size: Critical scales for Atlantic cod *Gadus morhua* in the northwest Atlantic. *Canadian Journal of Fisheries and Aquatic Sciences* 46 (supplement): 180-187.
- 1999 Horne, J.K., P.E. Smith, D.C. Schneider. Comparative examination of scale-explicit biological and physical processes: Recruitment of Pacific hake. *Canadian Journal of Fisheries Aquatic Sciences* 46 (supplement): 188-197.
- 1999 French, K.J., D.A. Scruton, M.R. Anderson, D.C. Schneider. Influence of physical and chemical characteristics on mercury in aquatic sediments. *Water, Air, and Soil Pollution* 110: 347-362.
- 1998 Smedbol, R.K., D.C. Schneider, J.S. Wroblewski, D.A. Methven. Outcome of an inshore spawning event by northern Atlantic cod (*Gadus morhua*) at a low stock level. *Canadian Journal of Fisheries Aquatic Sciences* 55: 2283-2291.
- 1998 Lomond, T., D.C. Schneider, D.A. Methven. Transition from pelagic to benthic prey for age group 0-1 Atlantic cod, *Gadus morhua*. *Fishery Bulletin* 96: 908-911.

- 1998 Therriault, T.W., D.C. Schneider. Predicting change in fish mercury concentrations following reservoir impoundment. *Environmental Pollution* 101: 33-42.
- 1998 Methven, D.A., D.C. Schneider. Gear-independent patterns of variation in catch of juvenile Atlantic cod (*Gadus morhua*) in coastal habitats. *Canadian Journal of Fisheries and Aquatic Sciences* 55: 1430-1442.
- 1998 Bult, T.P., R.L. Haedrich, D.C. Schneider. New technique describing spatial scaling and habitat selection in riverine habitats. *Regulated Rivers: Research & Management* 14: 107-118.
- 1997 Schneider, D.C., R. Walters, S. Thrush, P.K. Dayton. Scale-up of ecological experiments: Density variation in the mobile bivalve *Macomona liliana*. *Journal of Experimental Marine Biology and Ecology* 216: 129-152.
- 1997 Legendre, P., S.F. Thrush, V.J. Cummings, P.K. Dayton, J. Grant, J.E. Hewitt, A.H. Hines, B.H. McArdle, R.D. Pridmore, D.C. Schneider, S.J. Turner, R.B. Whitlatch, M.R. Wilkinson. Spatial structure of bivalves in a sandflat: scale and generating processes. *Journal of Experimental Marine Biology and Ecology* 216: 99-128.
- 1997 Thrush, S.F., P.K. Dayton, A.H. Hines, J. Grant, P. Legendre, B.H. McArdle, R.D. Pridmore, D.C. Schneider, S.J. Turner, R.B. Whitlatch, V.J. Cummings, J.E. Hewitt, M.R. Wilkinson. The sandflat habitat: Scaling from experiments to conclusions. *Journal of Experimental Marine Biology and Ecology* 216: 1-9.
- 1997 Thrush, S.F., V.J. Cummings, P.K. Dayton, R. Ford, J. Grant, J.E. Hewitt, A.H. Hines, S.M. Lawrie, R.D. Pridmore, P. Legendre, B.H. McArdle, D.C. Schneider, S.J. Turner, R.B. Whitlatch, M.R. Wilkinson. Matching the outcome of small-scale density manipulation experiments with larger scale patterns: An example of adult-juvenile interactions. *Journal of Experimental Marine Biology and Ecology* 216: 153-169.
- 1997 Cummings, V.J., D.C. Schneider, M.R. Wilkinson. Multiscale experimental analysis of aggregative responses of mobile predators to infaunal prey. *Journal of Experimental Marine Biology and Ecology* 216: 211-227.
- 1997 Thrush, S.F., D.C. Schneider, P. Legendre, R.G. Bell, V.J. Cummings, P.K. Dayton, J. Grant, M.O. Green, J.E. Hewitt, A.H. Hines, T.M. Hume, S.M. Lawrie, B.H. McArdle, R.D. Pridmore, S.J. Turner, R.A. Walters, R.B. Whitlatch, M.R. Wilkinson. Scaling-up: Where to next? *Journal of Experimental Marine Biology and Ecology* 216: 243-254.
- 1997 Ellis, J.I., D.C. Schneider. Evaluation of a gradient sampling design for environmental impact assessment. *Environmental Monitoring and Assessment* 48: 157-172.
- 1997 Ings, D.W., J.K. Horne, D.C. Schneider. Influence of episodic upwelling on capelin (*Mallotus villosus*) and Atlantic cod (*Gadus morhua*) catches in Newfoundland coastal waters. *Fisheries Oceanography* 6: 41-48.
- 1997 Horne, J.K., D.C. Schneider. Spatial variance of mobile marine organisms: Capelin and cod in Newfoundland coastal waters. *Philosophical Transactions Royal Society of London* 352: 633-642.
- 1997 Ings, D.W., D.A. Methven, D.C. Schneider. Detection of a recruitment signal in juvenile Atlantic cod (*Gadus morhua*) in coastal nursery areas. *Canadian Journal Fisheries and Aquatic Sciences* 54(Supplement): 25-29.

- 1997 Schneider, D.C., E. Dalley, D.A. Methven. Geographic contraction in juvenile fish: A test with northern cod at low abundances. *Canadian Journal Fisheries and Aquatic Sciences* 54(Supplement): 187-199.
- 1997 Schneider, D.C. Habitat selection by marine birds in relation to water depth. *Ibis* 139: 175-178.
- 1996 Therriault, T.W., D.C. Schneider, D.A. Methven. The timing of spawning in capelin (*Mallotus villosus*) at a coastal location in eastern Newfoundland. *Polar Biology* 16: 201-207.
- 1995 Horne, J.K. and D.C. Schneider. Spatial variance in ecology. *Oikos* 74: 321-329.
- 1995 Langton, R.W., P.J. Auster, D.C. Schneider. A spatial and temporal perspective on research and management of marine fisheries. *Reviews in Fisheries Science* 3: 201-229.
- 1994 Horne, J.K., D.C. Schneider. Analysis of scale dependent processes with dimensionless ratios. *Oikos* 70: 201-211.
- 1994 Horne, J.K., D.C. Schneider. Lack of spatial coherence of predators with prey: A bioenergetic explanation for Atlantic cod *Gadus morhua* (L.) feeding on capelin *Mallotus villosus* (Muller). *Journal of Fish Biology* 45: 221-229.
- 1994 Schneider, D.C. Distribution of capelin (*Mallotus villosus*) in relation to coastal upwelling in the Avalon Channel. *Journal of the Northwest Atlantic Fisheries Organization* 17: 23-32.
- 1992 Schneider, D.C. The thinning and clearing of prey by predators. *American Naturalist* 139: 148-160.
- 1992 Schneider, D.C. Statistical evaluation of theoretical equations in oceanography: Analysis of Schaefer's trophic model, rather than a surrogate. *Limnology and Oceanography* 37: 1076-1080.
- 1992 Prasad, K.S., J.T. Hollibaugh, D.C. Schneider, R.L. Haedrich. A model for determining primary production on the Grand Banks. *Continental Shelf Research* 12: 563-575.
- 1992 Schneider, D.C., C.D. Bajdik. Decay of zooplankton patchiness generated at the sea surface. *Journal of Plankton Research* 14: 531-534.
- 1991 Schneider, D.C., R.L. Haedrich. Post-mortem erosion of fine-scale spatial structure of epibenthic megafauna on the outer Grand Bank of Newfoundland. *Continental Shelf Research* 11: 1223-1236.
- 1991 Bajdik, C.D., D.C. Schneider. Generalised models of fish yield: Does the random component matter? *Canadian Journal of Fisheries and Aquatic Sciences* 48: 619-622.
- 1990 Schneider, D.C., N.M. Harrison, G.L. Hunt. Seabird diet at a front near the Pribilof Islands, Alaska. *Avian Biology* 14: 61-66.
- 1990 Cairns, D.K., D.C. Schneider. Hot spots in cold water: Feeding habitat selection by Thick-billed Murres. *Avian Biology* 14: 52-60.
- 1990 Schneider, D.C., R. Pierotti, W. Threlfall. Alcid patchiness and flight direction near a colony in eastern Newfoundland. *Avian Biology* 14: 23-35.
- 1990 Schneider, D.C. Seabirds and fronts: A brief overview. *Polar Research* 8: 17-22.
- 1990 Schneider, D.C. Spatial autocorrelation in marine birds. *Polar Research* 8: 89-97.

- 1989 Schneider, D.C. Identifying the spatial scale of density dependent interaction of predators with schooling fish in the southern Labrador Current. *Journal of Fish Biology* 35: 109-115.
- 1989 Schneider, D.C., R.L. Haedrich. Prediction limits of allometric equations: A re-analysis of Ryder's morphoedaphic index. *Canadian Journal of Fisheries and Aquatic Science* 46: 503-508.
- 1988 Schneider, D.C., D.A. Methven. Response of capelin to wind-induced thermal events in the southern Labrador Current. *Journal of Marine Research* 46: 105-118.
- 1988 Schneider, D.C., D.C. Duffy. Historical variation in guano production from the Peruvian and Benguela upwelling ecosystems. *Climate Change* 13: 309-316.
- 1987 Schneider, D.C. Patch structure of benthic populations on an intertidal sandflat. *Oceanologica Acta*. 10: 469-473.
- 1987 Schneider, D.C., N.M. Harrison, G.L. Hunt. Variation in the occurrence of marine birds at fronts in the Bering Sea. *Estuarine, Coastal and Shelf Science* 25: 135-141.
- 1987 Schneider, D.C., J-M. Gagnon, K.D. Gilkinson. Patchiness of epibenthic megafauna on the outer Grand Banks of Newfoundland. *Marine Ecology-Progress Series* 39: 1-13.
- 1986 Schneider, D.C., G.L. Hunt, N.M. Harrison. Mass and energy transfer to pelagic birds in the southeastern Bering Sea. *Continental Shelf Research* 5: 241-257.
- 1986 Schneider, D.C., J.F. Piatt. Scale-dependent correlation of seabirds with schooling fish in a coastal ecosystem. *Marine Ecology--Progress Series* 32: 237-246.
- 1986 Hamner, W.M., D.C. Schneider. Regularly spaced rows of medusae in the Bering Sea: Role of Langmuir circulation. *Limnology and Oceanography* 31: 171-177.
- 1986 Hunt, G.L., Z.A. Eppley, D.C. Schneider. Reproductive performance of seabirds: The importance of population and colony size. *Auk* 103: 306-317.
- 1985 Schneider, D.C. Migratory shorebirds: resource depletion in the tropics? *American Ornithological Union Monographs* 36: 546-558.
- 1985 Schneider, D., D.C. Duffy. Scale-dependent variability in seabird abundance. *Marine Ecology-Progress Series* 25: 211-218.
- 1985 Schneider, D.C. Predation on the urchin *Echinometra lucunter* (Linnaeus) by migratory shorebirds on a tropical reef flat. *Journal of Experimental Marine Biology and Ecology* 91: 1-9.
- 1984 Duffy, D.C., D.C. Schneider, N. Atkins. Paracas rejoined--Do shorebirds compete in the tropics? *Auk* 101: 197-199.
- 1984 Payne, P.M., D.C. Schneider. Yearly changes in abundance of harbor seals at a winter haul-out site in Massachusetts. *Fishery Bulletin* 82: 440-442.
- 1983 Kinder, T.H., G.L. Hunt, D.C. Schneider, J.D. Schumacher. Oceanic fronts around the Pribilof Islands, Alaska: Correlations with seabirds. *Estuarine, Coastal and Shelf Science* 16: 309-319.
- 1983 Schneider, D.C., P.M. Payne. Factors affecting haul-out numbers of harbor seals (*Phoca vitulina*) at a site in southeastern Massachusetts. *Journal of Mammalogy* 64: 518-520.

- 1982 Schneider, D.C. Predation by Ruddy Turnstones (*Arenaria interpres*) on a polymorphic clam (*Donax variabilis*) at Sanibel Island, Florida. *Bulletin of Marine Science* 32: 341-344.
- 1982 Schneider, D.C., G.L. Hunt. Carbon flux to seabirds in waters with different mixing regimes in the southeastern Bering Sea. *Marine Biology* 67: 337-344.
- 1982 Schneider, D.C. Escape responses of an infaunal clam, *Ensis directus* Conrad 1843, to a predatory snail, *Polinices duplicatus* Say 1822. *Veliger* 24: 371-372.
- 1982 Schneider, D.C., E.P. Mallory. Spring migration of shorebirds in Panama. *Condor* 84: 344-345.
- 1982 Schneider, D.C. Fronts and seabird aggregations in the southeastern Bering Sea. *Marine Ecology-Progress Series* 10: 101-103.
- 1981 Duffy, D.C., N. Atkins, D.C. Schneider. Do shorebirds compete on their wintering grounds? *Auk* 98: 215-229.
- 1981 Schneider, D.C. Size-selective predation on mysids by birds (Plovers). *Marine Ecology-Progress Series* 5: 223-224.
- 1981 Schneider, D.C., B.A. Harrington. Timing of shorebird migration in relation to prey depletion. *Auk* 98: 801-811.
- 1979 Mallory, E.P., D.C. Schneider. Agonistic behavior of Short-billed Dowitchers feeding on a patchy resource. *Wilson Bulletin* 91: 271-278.
- 1978 Schneider, D. Equalisation of prey numbers by migratory shorebirds. *Nature* 271: 353-354.

### **Books and Encyclopedia Articles**

- 2009 Schneider, D.C. *Quantitative Ecology. Spatial and Temporal Scaling*. 2<sup>nd</sup> edition. Elsevier.
- 2006 Baumgartner, J., D.C. Schneider. Scale and hierarchy in integrated pest management. Pp: 1954-1958. In: J. Capinera. (ed.), *Encyclopedia of Entomology*. Vol. 3, Kluwer, Dordrecht, 2580 p.
- 2001 Schneider, D.C. Scale. Concept and effects. *Encyclopedia of Biodiversity*. 5: 245-254 S.A. Levin, ed. Academic Press, San Diego.
- 1994 Schneider, D.C. *Quantitative Ecology. Spatial and Temporal Scaling*. Academic Press, San Diego. 395 pp.

### **Refereed Review Articles**

- 2001 Schneider, D.C. Spatial allometry: Theory and application to mesocosm experiments. Pp. 113-153 In *Scaling Relations in Experimental Ecology*. R. Gardner, W.M. Kemp, V.S. Kennedy, J. Petersen, eds. Columbia University Press, New York.
- 2001 Scheurer, D.L., D.C. Schneider, L.P. Sanford. Scaling issues in marine experimental ecosystems. Pp. 331-360 In *Scaling Relations in Experimental Ecology*. R. Gardner, W.M. Kemp, V.S. Kennedy, J. Petersen, eds. Columbia University Press, New York.
- 1998 Schneider, D.C. Applied scaling theory. Pp. 253-269 In *Ecological Scale. Theory and Applications*. D. Peterson and T. Parker, eds. Columbia University Press, New York.

- 1998 Schneider, D.C. Spatially structured populations. Pp. 13-19 In *The Implications of Localized Fishery Stocks*. I. Hunt von Herbing, I. Kornfeld, M. Tupper, J. Wilson, eds. NRAES-118. Natural Resource, Agriculture, and Engineering Service, Ithaca, New York.
- 1996 Schneider, D.C., D. Heinemann. The state of marine bird populations from Cape Hatteras to the Gulf of Maine. Pp. 197-216 In *The Northeast Shelf Ecosystem: Stress, Mitigation, and Sustainability*. K. Sherman, N.A. Jaworski, T.J. Smayda, eds. Blackwell, London.
- 1994 Schneider, D.C. Scale-dependent patterns and species interactions in marine nekton. Pp. 441-467 In *Aquatic Ecology: Scale, Pattern, and Process*. P. Giller, D. Raffaelli, A. Hildrew, eds. Blackwell, London.
- 1994 Schneider, D.C. Scale-dependent spatial dynamics: Marine birds in the Bering Sea. *Biological Reviews* 68: 579-598.
- 1993 Schneider, D.C., V.P. Shuntov. The trophic organization of marine birds in the Bering sea. *Reviews in Fisheries Science* 1: 311-335.
- 1991 Schneider, D.C. The role of fluid dynamics in the ecology of marine birds. *Oceanography and Marine Biology Annual Review* 29: 487-521.
- 1987 Hunt, G.L., D.C. Schneider. Scale dependent processes in the physical and biological environment of marine birds. Pp. 7-41 In *Seabird Feeding Ecology*. J.P. Croxall, ed. Cambridge University Press, Cambridge.

### **Dissertations, Book Chapters**

- 2008 Schneider, D.C., E. Alcock, D. Ings. Evolving Use of Knowledge Sources in Fisheries Assessment. Pp 85-99 In *How Knowledge Moves*. B. Neis and J. Lutz, eds. Queen's University Press:
- 2008 Murray, G. D., Neis, B., Ings, D., Schneider, D., Whalen, J., Gosse, K., & C. T. Palmer. Opening the Black Box: Methods, Procedures, and Challenges in the Historical Reconstruction of Marine Socio-Ecological Systems. Pp 100-120 In *How Knowledge Moves*. J.Lutz & B.Neis, eds. McGill-Queens Press: Montreal.
- 2006 Vodden, K., D.C. Schneider, R.E. Ommer. A comparative analysis of three modes of collaborative learning in fisheries governance: Hierarchy, networks, and community. Pp 291-306 In *Participation in Fisheries Governance*. T. Gray, ed. Springer.
- 1999 Neis, B., L. Felt, R.L. Haedrich, D.C. Schneider. An interdisciplinary methodology for collecting and integrating fisher's ecological knowledge into resource management. Pp 217-238 In *Fishing Places, Fishing People: Traditions and Issues in Canadian Small-Scale Fisheries*. D. Newell, R. Ommer, eds. University of Toronto Press, Toronto.
- 1995 Schneider, D.C. Spatial and temporal scaling of energy flux through populations of marine nekton. Pp. 419-428 In *Ecology of Fjords and Coastal Waters*. H.R. Skjoldal, C. Hopkins, K.E. Erikstad, H.P. Leinaas, eds. Elsevier, Amsterdam.

- 1994 Duffy, D.C., D.C. Schneider. Seabird-fishery interactions: A manager's guide. Pp. 26-38 In *Seabirds on Islands. Threats, Case Studies and Action Plans*. D.N. Nettleship, J. Burger, M. Gochfeld, eds. BirdLife International, Cambridge (UK).
- 1987 Schneider, D.C., G.L. Hunt, K.D. Powers. Energy flux to pelagic birds: A comparison of Bristol Bay and Georges Bank. Pp. 259-277 In *Seabird Feeding Ecology*. J.P. Croxall, ed. Cambridge University Press, Cambridge.
- 1978 Schneider, D.C. Selective predation and the structure of marine benthic communities. Ph.D. Dissertation, SUNY, Stony Brook, NY. 118 pp. J.S. Levinton, Supervisor. Dissertation abstracts 39(1): 59060B (7810786).

### **Refereed Conference Proceedings**

- 1992 Schneider, D.C., D.C. Duffy, A.D. MacCall, D.W. Anderson. Seabird-fisheries interactions: Evaluation with dimensionless ratios. Pp. 602-615 In *Wildlife 2001: Populations*. D.R. McCullough, R.H. Barrett eds. Elsevier, London .
- 1991 Schneider, D.C., C. Bajdik. Autocorrelative spatial structure in marine birds in eastern Newfoundland. In *Ecological and Oceanographic Influences on the Feeding Relationships of Marine Birds*. W.A. Montevecchi, A.J. Gaston, eds. Canadian Wildlife Service Occasional Paper 68: 32-38.
- 1989 Schneider, D.C., R.G.B. Brown. Seabird patchiness in a turbulent marine environment. Conveners' introduction. *Proceedings XIX International Ornithological Congress* 974-975.
- 1989 Schneider, D.C., D.C. Duffy, G.L. Hunt. Cross-shelf gradients in the abundance of pelagic birds. *Proceedings XIX International Ornithological Congress* 976-981.
- 1988 Gilkinson, K.D., J-M. Gagnon, D.C. Schneider. The sea urchin *Strongylocentrotus pallidus* (G.O. Sars) on the Grand Bank of Newfoundland. Pp. 467-473 In *Echinoderm Biology*. Proceedings of the Sixth International Echinoderm Conference. R.D. Burke, P.V. Mladenov, P. Lambert, R.L. Parsley, eds. A. A. Balkema, Rotterdam.
- 1984 Schneider, D.C., G.L. Hunt. A comparison of seabird diets and foraging distribution around the Pribilof Islands. Pp. 86-95 In *Marine Birds: Their Feeding Ecology and Commercial Fisheries Interactions*. D.N. Nettleship, G.A. Sanger, P.F. Springer, eds. Canadian Wildlife Service Special Publication, Ottawa.

### **Translations**

- 1994 Shuntov, V.P. Biological and physical determinants of marine bird distribution in the Bering Sea (from Russian). pp 1-13 In: *Seabirds of the North Pacific*. K. Vermeer, K. Briggs, D. Siegel-Causey, eds. Canadian Wildlife Service Special Publication, Ottawa.

### **Manuscripts in review**

Whiffen, C. and D.C. Schneider. The egg production of V-notched American lobsters in Newfoundland: Does V-notching work? *North American Journal of Fisheries Management*

### **Manuscripts in preparation**

Collins, R.K., J.M. Janes, and D.C. Schneider. Are the effects of marine reserves cumulative? An eleven year study of lobsters in Bonavista Bay, northwest Atlantic. *Marine Ecology--Progress Series*.

Collins, R.K., and D.C. Schneider. Reproductive potential of the American lobster *Homarus americanus* in protected and unprotected populations in Bonavista Bay, Newfoundland. *Fisheries Research*.

### **Miscellaneous Publications**

2009 Schneider, D.C., R. Page. Why did the turtle cross the road? *Osprey* 39: 56-57.

2006 Wilhelm, S.I., G.J. Robertson, P.C. Ryan, D.C. Schneider. An Assessment of the number of seabirds at risk during the November 2004 Terra Nova FPSO oil spill. Canadian Wildlife Service Technical Report Series No. 461

2005 Gregory, R.S., C. Morris, G.L. Sheppard, M. Thistle, J. Linehan, D.C. Schneider. Relative strength of the 2003 and 2004 year-classes, from nearshore surveys of demersal age 0 & 1 Atlantic cod in Newman Sound, Bonavista Bay. *Canadian Stock Assessment Secretariat Research Document 2005*

2005 Gregory, R.S., B.J. Laurel J.E. Linehan, D.W. Ings, D.C. Schneider. Relative strength of the 2001 and 2002 year-classes, from nearshore surveys of demersal age 0 and 1 Atlantic cod in NAFO Dividsion 3KL and in Newman Sound, Bonavista Bay. *Canadian Stock Assessment Secretariat Research Document 2004/124*

2003 Alcock, E., D. Ings, D.C. Schneider. From Local knowledge to science and back: Evolving use of local ecological knowledge in fisheries science. In Heymans, J.J. (ed.) Ecosystem models of Newfoundland and Southeastern Labrador: Additional information and analyses for 'Back to the Future'. Fisheries Centre Research Reports 11(5): 20-39. Available at: [http://www.fisheries.ubc.ca/publications/reports/report11\\_5.php](http://www.fisheries.ubc.ca/publications/reports/report11_5.php)

2003 Methven, D.A., R.S.Gregory, D.C. Schneider. Results of a juvenile fish habitat survey in the coastal zone of eastern Newfoundland in 2001. *Canadian Stock Assessment Secretariat Research Document 2003/xxx*

2003 Gregory, R.S., B.J. Laurel, D.W. Ings, D.C. Schneider. Relative strength of the 2000 and 2001 year-classes, from nearshore surveys of demersal age 0 Atlantic cod in 3KL and in Newman Sound, Bonavista Bay. *Canadian Stock Assessment Secretariat Research Document 2002/52*.

- 2002 Gregory, R.S., B.J. Laurel, D.W. Ings, D.C. Schneider. Relative strength of the 1999 and 2000 year-classes, from nearshore surveys of demersal age 0 Atlantic cod in 3KL and in Newman Sound, Bonavista Bay. *Canadian Stock Assessment Secretariat Research Document* 2002/87: 1-20.
- 2000 Gregory, R.S., D.A. Methven, L.A. Wheeler, D.C. Schneider, J.A. Brown. Relative strength of the 1999 year-class, from nearshore surveys of demersal age 0 Atlantic cod in 3KL and in Newman Sound, Bonavista Bay. *Canadian Stock Assessment Secretariat Research Document* 2000/094: 1-17.
- 1999 Gregory, R.S., D.A. Methven, D.C. Schneider, D.W. Ings. Relative strength of the 1998 year-class, from nearshore surveys of demersal age 0 Atlantic cod in 3KL and in Newman Sound, Bonavista Bay. *Canadian Stock Assessment Secretariat Research Document* 1999/44: 1-13.
- 1998 Methven, D.A., D.C. Schneider, D.W. Ings, M.B. Davis, G. Bouzanne, W. Budgell, E. Butler, W. Caravan, D. Corrigan, K. Emberley, D. Ivany, C. Oxford, B. Power, G. Shaw, H. Strickland, L. Rideout, T. Toope, I. Whitt. Results of the 1997 Fleming survey of demersal juvenile cod in the coastal zone of eastern Newfoundland. *Canadian Stock Assessment Secretariat Research Document* 98/77: 1-17.
- 1997 Schneider, D.C., E.L. Dalley, J.T. Anderson. A combined recruitment index for demersal juvenile cod (0, 1, and 2 group) in NAFO Divisions 3K and 3L. *NAFO Scientific Council Studies* 29: 23-29.
- 1997 Schneider, D.C., P. Hennebury, D.A. Methven, D.W. Ings, D. Pinsent. Fleming survey of demersal juvenile cod in the coastal areas of eastern Newfoundland. *NAFO Scientific Council Studies* 29: 13-21.
- 1996 Schneider, D.C., P. Hennebury, D. Methven, D. Ings, J. Howell, S. White, D. Pinsent, W. Bailey. Results of the 1995 Fleming survey of demersal juvenile cod in the coastal zone of Newfoundland. *DFO Atlantic Fisheries Research Document* 96/46: 1-19.
- 1996 Neis, B., L. Felt, D.C. Schneider, R.L. Haedrich & J. Fischer. Northern Cod Stock Assessment: What Can be Learned From Interviewing Resource Users? *DFO Atlantic Fisheries Research Document*. 96/45
- 1986 Schneider, D.C. A gradient model of energy dissipation by pelagic birds. *Pacific Seabird Group Bulletin* 13: 109.
- 1984 Duffy, D.C., D.C. Schneider. A comparison of two transect methods of counting birds at sea. *Cormorant* 12: 95-98.
- 1983 Schneider, D.C. The food and feeding of migratory shorebirds. *Oceanus* 26: 38-43.
- 1982 LaCock, G., D.C. Schneider. Duration of ship following by Wandering Albatrosses, *Diomedea exulans*. *Cormorant* 10: 105-108.

- 1981 Schneider D.C. Food supplies and the phenology of shorebirds: a hypothesis. *Wader Study Group Bulletin* 33: 43-45.
- 1981 Schneider, D.C. Studies of the harbor seal (*Phoca vitulina*) at a winter haul-out site in Massachusetts. (abstract) *Marine Mammal Information Service*.
- 1981 Schneider, D.C., B.A. Harrington. A comparison of shorebird numbers and food density at two adjacent coastal locations. (abstract). *Estuaries* 4: 276.
- 1981 Schneider, D.C., G.L. Hunt, N.M. Harrison. Seabird numbers at three fronts in the southeastern Bering Sea. (abstract) *Eos* 63(3): 76.
- 1980 Schneider, D.C. Food enough for a marathon flight? *Aquasphere* 14: 8-15.

### **Technical and Administrative Reports**

- 2008 Jones, K.M., V. Burdett-Coutts, D.C. Schneider, P.V.R. Snelgrove. Lobster populations in Marine Protected Areas and adjacent areas: An examination of larval and adult life stages. Final report to Oceans and Habitat Management Branch, Department of Fisheries and Oceans. St. John's, NL.
- 2008 Snelgrove, P., P. Archambault, K. Juniper, P. Lawton, A. Metaxas, C. McKindsey, P. Pepin, D. Schneider, V. Tunnicliffe (2008). Scientific Criteria for Conservation and Sustainable Usage of Marine Biodiversity in Canada's Oceans. MTS/IEEE Oceans 08 Quebec. Technical Report.
- 2008 Jones, K.M., P.V.R. Snelgrove, D.C. Schneider. Newly-settled juvenile lobster in a Marine Protected Area and adjacent fished areas: Exploring recruitment to the benthos. Final report to Oceans and Habitat Management Branch, Department of Fisheries and Oceans. St. John's, NL.
- 2007 Jones, K.M., D.C. Schneider, P.V.R. Snelgrove. Capelin and Herring Egg Production Potential in the Leading Ticks Area of Interest in 2006. A report submitted to Oceans Branch, Department of Fisheries and Oceans, St. John's, NL.
- 2007 Schneider, D.C., L. Finity, R. Schneider. Biodiversity Benchmarks in Space and Time: Polychaetes at a Single Location in Central California.. A Report Prepared for the Bodega Marine Reserve. On file at Bodega Marine Lab library. <http://www.bml.ucdavis.edu/bmr/PolyReport.pdf>
- 2007 Jones, K.M., P.V.R. Snelgrove, D.C. Schneider, V. Burdett-Coutts. Lobster population dynamics in the Leading Ticks Area of Interest and the Eastport Marine Protected Area. Final Report to DFO Oceans.
- 2006 Ings, D.W., D.C. Schneider. Capelin Egg Production in the Ticks MPA during 2005: Total Egg Numbers, Beach Habitat Structure, and an Estimate of Annual Deposition on Beaches. Final report to Oceans and Habitat Management Branch, Department of Fisheries and Oceans, St. John's, NL.

- 1999 Ford, R.G., D.G. Ainley, D.C. Schneider. The Factors that Limit Seabird Recovery in the EVOS Study Area: A Modeling Approach. Exxon Valdez Oil Spill Restoration Project Annual Report (Restoration Project 99 163Q), Anchorage, Alaska.
- 1998 Ford, R.G., D.C. Schneider, D.G. Ainley. The Factors that Limit Seabird Recovery in the EVOS Study Area: A Modeling Approach. Exxon Valdez Oil Spill Restoration Project Annual Report (Restoration Project 98 163Q), Anchorage, Alaska.
- 1997 Ainley, D.G., R.G. Ford, D.C. Schneider. The Factors that Limit Seabird Recovery in the EVOS Study Area: A Modeling Approach. Exxon Valdez Oil Spill Restoration Project Annual Report (Restoration Project 97 163Q), Anchorage, Alaska.
- 1997 Neis, B., R.L. Haedrich, L. Felt, D.C. Schneider. Old challenges, new methods: The lumpfish roe fishery and fishers' ecological knowledge in the Bonavista region of Newfoundland. Occasional Paper, Eco-Research Project, Memorial University, St. John's, Nfld, Canada.
- 1997 Ings, D.W., D.C. Schneider. Use of acoustic imprinting in pond based cod aquaculture. Report to National Research Council and to Canadian Centre for Fisheries Innovation. St. John's, Nfld, Canada. Project AU 581. 23 pages.
- 1997 Ings, D.W., D.C. Schneider. Use of acoustic imprinting in pond based cod aquaculture. Appendix B. Inventory of Sites (bound separately). Report to National Research Council and to Canadian Centre for Fisheries Innovation. St. John's, Nfld, Canada. Project AU 581. 39 pages.
- 1997 Ings, D.W., D.C. Schneider. Development of rearing techniques for early juvenile cod, with preliminary estimate of population numbers along the coast in eastern Newfoundland (3KL) and southern Labrador (2J). Report to Canadian Centre for Fisheries Innovation. St. John's, Nfld, Canada. Project AU 547. 28 pages.
- 1997 Methven, D.A., D.C. Schneider, D.W. Ings, W. Budgell, G. Bouzane, E. Butler, W. Caravan, T. Chatman, D. Corrigan, P. Hennebury, D. Ivany, C. Oxford, B. Power, G. Shaw, H. Strickland, L. Rideout, T. Toope, I. Whitt. Fleming survey of demersal juvenile cod in the coastal zone of eastern Newfoundland, 1959-1996: Protocols and results. Report to Department of Fisheries and Oceans, St. John's, Nfld, Canada. 22 pages, 6 figures, 2 appendices.
- 1996 Neis, B., J. Hutchings, R.L. Haedrich, D.C. Schneider, L. Felt. Scientific debates, lumpy lumpfish and slubby nets: Fishers' vernacular knowledge and adaptive management. Occasional Paper, Eco-Research Project, Memorial University, St. John's, Nfld, Canada.
- 1996 Ings, D.W., D.C. Schneider, K. Smedbol. Evaluation of Newfoundland salt ponds for enhancement and aquaculture of Atlantic cod (*Gadus morhua*). Report to Canadian Centre for Fisheries Innovation. St. John's, Nfld, Canada. Project AU 524. 43 pages.
- 1994 Langton, R.W., P.J. Auster, D.C. Schneider. A spatial and temporal perspective on fish distributions: Improving our definition of fisheries habitat in the Gulf of Maine. Proceedings RARGOM Workshop, Hanover, New Hampshire, USA. 30 pp.

- 1992 Schneider, D.C.. Gear efficiency trials with Icelandic scallops on St. Pierre Bank. Report to Clearwater Fine Foods, Bedford, Nova Scotia. 20 pp.
- 1992 Schneider, D.C. D.M. Haedrich, R.L. Haedrich. An assessment of the Icelandic scallop stock on St. Pierre Bank. Report to Clearwater Fine Foods, Bedford, Nova Scotia. 38 pp.
- 1986 Schneider, D.C., R.L. Haedrich. Assessment of the fisheries enhancement potential of Cat Arm Reservoir, Newfoundland. Report to Department of Environment, Government of Newfoundland. 22 pp.
- 1983 Hunt, G.L., D.C. Schneider. The distribution, abundance and role of seabirds in the southeastern Bering Sea ecosystem. Final report to National Science Foundation, Washington, D.C. 42 pp.
- 1982 Hunt, G.L., J. Kaiwi, D.C. Schneider. Pelagic distribution of marine birds and analysis of encounter probability for the southeastern Bering Sea. Final report to Office of Marine Pollution Assessment, Washington, D.C. NOAA Outer Continental Shelf Biological Studies 16: 1-160.
- 1981 Schneider, D.C., M.B. Rosenfeld, C. Kesselheim, D. Twichell. Habitat usage and residence time of harbor seals at a winter haul-out site. Final report to National Marine Fisheries Service, Woods Hole, Massachusetts. 137 pp.
- 1981 Schneider, D.C. An analysis of 34 bird stomachs collected at Great Salt Lake Utah. Report to Aqueducts Division, Los Angeles Department of Power and Water, Los Angeles. 13 pp.
- 1980 Schneider, D.C., B.A. Harrington. A comparison of bird usage to the amount and quality of habitat at two coastal locations. Final report to U.S. Fish and Wildlife Service, Washington, D.C. 86 pp.
- 1979 Smith, K.G., D.C. Schneider. A computer analysis of fall migration banding data of North American *Catharus* thrushes. Final report to U.S. Fish and Wildlife Service, Washington D.C. 153 pp.
- 1978 Schneider, D.C. Food depletion by migratory shorebirds in the tropics. Research report to Smithsonian Tropical Research Institute, Balboa, Panama. 64 pp.
- 1978 Harrington, B.A., D.C. Schneider. Migration studies of shorebirds at an autumn stopover area. Final report to U.S. Fish and Wildlife Service, Washington, D.C. 366 pp.
- 1977 Harrington, B.A., D.C. Schneider. Habitat studies of migratory shorebirds. Annual Report to U.S. Fish and Wildlife Service, Washington, D.C. 80 pp.
- 1976 Harrington, B.A., D.C. Schneider, N. Houghton, N. Atkins. Habitat studies of migratory shorebirds. Annual report to U.S. Fish and Wildlife Service, Washington, D.C. 63 pp.

### **Advisory Panels**

- 2010 Statistical advice to Environment Canada on design of at sea disposal program. Ottawa, 2010-2011.

- 2010 Science Advisory Board, U.S. Environmental Protection Agency, Washington, D.C. 2010-2011.
- 2007 Science Advisory Group on Caribou Research, Newfoundland Department of Environment and Conservation 2007-present  
<http://www.releases.gov.nl.ca/releases/2008/env/0207n06.htm>
- 2005 U.S. National Park Service Inventory and Monitoring Program, Hawai'i 2005-present
- 2003 Research Advisory Council. Newfoundland and Labrador Centre for Applied Health Research, St. John's, Canada 2003-2006.
- 1999 Validation Monitoring Panel, University of Washington, Seattle WA, USA. 1999-2001.
- 1998 Scientific Review Committee, Institute for Environmental Monitoring and Assessment, Happy Valley Goose Bay, Labrador, Canada. 1998-present.
- 1997 Scientific Advisory Committee, U.S. Environmental Protection Agency. Multiscale Experimental Ecosystem Research Center, Horn Point, Maryland, USA. 1997-2002.
- 1997 Environmental Effects Monitoring Advisory Committee Newfoundland Transshipment Facility, Whiffen Head, Newfoundland. 1997-2002.
- 1997 Terra Nova Baseline Design Advisory. Petro-Canada, St. John's Newfoundland 1997-1998.
- 1994 Expert Panel. Hibernia Environmental Effects Monitoring Program. Mobil Consortium, St. John's, Newfoundland. 1994-1996.

#### **Research Administration.**

- Individual grants (\$1000-\$80,000/yr). 1980 to present
- Team grants. Investigator (29,000-\$50,000/yr). 1990 to present
- Team grants and contracts. Principal Investigator (\$100,000-\$250,000/yr). 1990 to present.
- Team grants. Management committee (\$1,500,000/yr). 1999 to 2007

#### **Invited presentations, Plenary or Keynote.**

- 2003 Ecological Society of America, 4 August, Savannah, GA, Symposium lead speaker.
- 2003 International Association of Landscape Ecologists, 2 April, Banff, Canada, Plenary speaker.
- 2001 Estuarine Research Federation, 5 November. St. Petersburg, FL. Keynote address.
- 1998 Pacific Seabird Group, 23 January. Monterey, CA, USA. Plenary speaker.
- 1997 Univ. Maryland Scaling Workshop, 7 December. Horn Point, MD, USA. Plenary speaker.  
 Univ. Maine Workshop on Local Stocks, 31 October. Portland, Maine. Keynote address.  
 University of Oslo, 14 November. Faculty of Science speaker.
- 1995 ICES (International Council for the Exploration of the Sea) Symposium on the Role of Marine Mammals in Ecosystems. 6 September, Halifax. Keynote address.
- 1992 British Ecology Society Symposium on Scale, 5-8 April, Cork, Ireland. Plenary Speaker.

#### **Invited presentations (external funding).**

- 2009 MITACS Research Workshop on Habitat Modelling and Landscape Ecology. 23 February, Dept. Oceanography, Dalhousie Univ., Nova Scotia, Canada
- 2006 Bodega Marine Lab, Univ. California at Davis, 1 November, Bodega Bay, CA, USA.
- 2003 Fisheries Centre, 19 September, Univ. British Columbia, Vancouver, Canada.
- 2003 Santa Fe Institute, 21 April, Sante Fe, New Mexico, USA.
- 2002 Bowdoin College. 14 February, Brunswick, Maine, USA.
- 2001 Simon Fraser University School of Resource Management. 14 September, Burnaby, BC, Canada.  
 Scripps Institute of Oceanography. 1 March, La Jolla, CA, USA.

- 2000 U.S. Geological Survey, 14 April, Kilauea Station, Hawai'i.  
Netherlands Institute for Water Research, 4 April, Middelburg, Netherlands.  
University of Hawai'i, Department of Zoology, 21 January, Honolulu, Hawai'i, USA.
- 1999 U.S. National Marine Fisheries Service, 29 November, Seattle, Washington, USA.
- 1998 NIWA, 12 March, Hamilton, New Zealand.  
International Association for Great Lakes Research. 21 May, Hamilton, Ontario, Canada.
- 1997 Am. Fisheries Society Symposium: Space, Time, and Scale. 24-28 August, Monterey, CA, USA.
- 1994 Research Council of Norway. Mare Nor Symposium. 5-9 December, Tromso, Norway.  
RARGOM (Regional Research in the Gulf of Maine) Habitat Workshop, 12-13 April  
West Booth Bay Harbor, Maine, USA.  
National Institute for Water and Atmospheric Research, 13 January, Hamilton, New Zealand.
- 1992 Department of Ecology and Evolutionary Biology, Univ. California, 6 January, Irvine, CA, USA.
- 1991 Scripps Oceanography, 30 October, La Jolla, California, USA.  
Wildlife 2001. Populations. 29-31 July, Oakland, California, USA.
- 1989 Department of Oceanography, Dalhousie University, 1 March, Halifax, Canada.
- 1988 University of Tromso Workshop on Seabird Distribution. 17-19 October, Tromso, Norway.  
U.S. National Academy of Sciences Workshop on Marine Birds and Mammals, 29 January-7  
February, La Jolla, California, USA.
- 1987 Woods Hole Oceanographic Institution, 29 January, Woods Hole, Mass., USA.
- 1986 Marine Science and Maritime Studies Center, Northeastern University, 10 October,  
Nahant, Mass., USA.  
Nuttall Ornithological Society, 6 October, Harvard University, Boston, Mass., USA.  
Biology Department, Boston University, 6 October, Boston, Mass., USA.  
XIX International Ornithological Congress, Symposium convenor, Ottawa, Canada  
U.S. Interagency Arctic Research Policy Committee Workshop on Marine Ecosystem Research,  
10-11 March, Boulder, Colorado, USA.  
Marine Environmental Sciences Consortium, Dauphin Island, Alabama, USA.
- 1984 Department of Zoology, University of Rhode Island, 10 February, Kingston, RI, USA.
- 1983 Department of Biology, University of Pennsylvania, 12 January, Philadelphia, USA.  
Bigelow Laboratory for Ocean Science, Boothbay Harbor, Maine USA.  
Newfoundland Institute for Cold Ocean Science, Memorial University, St. John's, NF, Canada.  
NORDA workshop on chemical variability in ocean frontal areas. Bay St. Louis, MS, USA.
- 1982 FitzPatrick Institute, University of Cape Town, South Africa.
- 1981 Museum of Vertebrate Zoology, University of California at Berkeley, California, USA.  
Bodega Marine Laboratory, California, USA.
- 1980 Princeton University Department of Biology.

**Presentations (Students).** Circa 2-3 each year in last 10 years by students at professional meetings.

**Presentations (Other).** At least one professional society meeting per year since 1980  
(*E.g.* Ecological Society of America in 2003-05)

**Reviewer. Broad audience**

Biology Letters (Royal Society)  
BioScience,  
Ecology;

Ecology Letters  
Oikos  
Philosophical Transactions of the Royal Society of London

**Reviewer. Subject area journals.**

Animal Behaviour;  
Auk;  
Australian Journal of Ecology;  
Avian Biology;  
Behaviour  
Biological Oceanography;  
Biology Letters;  
Biotropica;  
Canadian Journal of Fisheries and Aquatic Sciences;  
Canadian Journal of Zoology (in French and English);  
Canadian Wildlife Service Monograph Series;  
Condor;  
Continental Shelf Research;  
Ecological Applications;  
Ecosystems;  
Environmental Management;  
Estuarine, Coast and Shelf Science;  
Fisheries Oceanography;  
ICES Journal of Marine Science;  
International Review Hydrobiology;  
International Journal of Health Geography  
Journal Experimental Marine Biology and Ecology;  
Landscape Ecology;  
Limnology and Oceanography;  
Marine Biology;  
Marine Ecology;  
Marine Ecology--Progress Series;  
Miscellanea Zoologica (in Spanish);  
Natural Resource Modelling  
North American Journal of Fisheries Management;  
Ornithological Monographs;  
Polar Biology;  
Polar Research;  
Transactions American Fisheries Society;  
Waterbirds.

**Reviewer. Grant Proposals**

Canada	Natural Sciences and Engineering Research Council
Israel	Council for Scientific Research
New Zealand	Foundation for Research and Technology
Norway	Natural Resources Institute (NINA), Norwegian Research Council

UK	Natural Environment Research Council
USA	National Science Foundation
USA	National Undersea Research Center (NOAA)
USA	Hudson River Foundation
USA	Sea Grant (Alaska)

**Society Memberships**    Sigma Xi

**Funded Proposals (lead author)**

- 2009 Natural Sciences and Engineering Council, Ottawa, Canada. Lobsters in Newfoundland: Reproductive Relative to Economic Value (3 year strategic grant).
- 2007 Natural Sciences and Engineering Council, Ottawa, Canada. Applied Scaling Theory (5 year grant).
- 2002 Natural Sciences and Engineering Council, Ottawa, Canada. Applied Scaling Theory (5 year grant).
- 1999 Social Sciences and Humanities Research Council, Natural Sciences and Engineering Council, Ottawa, Canada. Coasts Under Stress. (Co-chair, 5 year grant, 60 investigators).
- 1998 Natural Sciences and Engineering Council, Ottawa, Canada. Applied Scaling Theory (4 year grant).
- 1998 Department of Fisheries and Oceans, St. John's, Nfld. Placentia Bay codfishery. (1 year contract).
- 1997 Natural Sciences and Engineering Council, Ottawa, Canada. Predictive Environmental Technology using Spatial Scaling Theory (4 year strategic grant, 3 investigators).
- 1997 Department of Fisheries and Oceans, St. John's, Nfld, Canada. Fleming survey of juvenile cod (1 year contract).
- 1997 Department of Fisheries and Oceans, St. John's, Nfld. Fogo Island codfishery (1 year contract).
- 1997 Canadian Centre for Fisheries Innovation, St. John's, Nfld. Acoustic imprinting in pond-based aquaculture, (1 year contract).
- 1996 Canadian Centre for Fisheries Innovation, St. John's, Nfld. Development of rearing techniques for early juvenile cod. (1 year contract).
- 1996 Natural Sciences and Engineering Council, Ottawa, Canada. Spatial scaling theory (1 year grant).
- 1995 Department of Fisheries and Oceans, St. John's, Nfld. Feeding relationships of Arctic cod (1 year collaborative research agreement).
- 1995 Department of Fisheries and Oceans, St. John's, Nfld. Mercury in fish in Newfoundland reservoirs (2 year contract).
- 1995 Canadian Centre for Fisheries Innovation, St. John's, Nfld. Distribution and enhancement potential for juvenile cod (1 year contract).
- 1994 Department of Fisheries and Oceans Northern Cod Science Program, St. John's, Nfld. Survey of Northern Cod in Coastal Locations in 1994 (1 year contract).
- 1993 Department of Fisheries and Oceans Northern Cod Science Program, St. John's Nfld. Survey of Northern Cod in Coastal Locations in 1993 (1 year contract).
- 1993 Natural Science and Engineering Council, Ottawa, Canada. Spatial dynamics of large marine organisms (4 year grant).
- 1991 Department of Fisheries and Oceans Northern Cod Science Program, St. John's Nfld.

- Early life history of Northern Cod (4 year contract).
- 1990 National Centres of Excellence, Ottawa, Canada. Ocean Production Enhancement Network. Small-scale distribution of cod in relation to capelin (2 year contract).
- 1990 Natural Science and Engineering Council, Ottawa, Canada. Tidal gauges (Equipment grant).
- 1990 Natural Science and Engineering Council, Ottawa, Canada. Spatial dynamics of large marine organisms (3 year grant).
- 1989 Natural Science and Engineering Council, Ottawa, Canada. COPE--Cold Ocean Productivity Experiment (3 year grant, 1 of 8 investigators).
- 1987 Natural Science and Engineering Council, Ottawa, Canada. COPE--Cold Ocean Productivity Experiment (1 year pilot grant, 1 of 6 investigators).
- 1987 Natural Science and Engineering Research Council, Ottawa, Canada. Spatial dynamics of large marine organisms (3 years grant).
- 1987 Department of Environment, Government of Newfoundland. Comprehensive assessment of fisheries enhancement potential of Cat Arm Reservoir (1 year contract).
- 1984 National Marine Fisheries Service, Woods Hole, Mass., USA. Monitoring cetaceans and seabirds in shelf waters of the northeastern United States (3 years contract).
- 1982 National Science Foundation, Washington, DC, USA. Trophic relationships of marine birds in the southeastern Bering Sea (1 year grant).
- 1980 National Marine Fisheries Service, Woods Hole, Mass., USA. Oceanic observer training program (1 year contract).
- 1980 National Marine Fisheries Service, Woods Hole, Mass., USA. Habitat usage and residence time of harbor seals (1 year contract).
- 1979 U.S. Fish and Wildlife Service, Washington, DC, USA. Habitat usage by shorebirds at two migratory stopover areas (1 year contract).

### **Teaching Experience**

- Memorial University of Newfoundland, St. John's, Nfld, Canada.  
 Advanced Methods in Quantitative Biology (Graduate 1989-90, 1992-98, 2000-05, 2007-08)  
 Quantitative Biology (Undergraduate 1989-90, 1992-93, 1995-98, 2000-05, 2007-08)  
 Applications of the Generalized Linear Model in Biology (Graduate 2005, 2007-08)  
 Fish Population Dynamics (Graduate, 1988, 1989).  
 Biological Oceanography (Graduate, 1986).
- State University of New York, Stony Brook, NY, USA.  
 Invertebrate zoology (1975, graduate assistant).  
 Ecology of famine (1977, graduate assistant).