

# SCIENTIFIC AND TECHNICAL PUBLICATIONS

**Biological Station  
St. Andrews New Brunswick, Canada**

**Compiled and edited by  
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The citations in this document are listed alphabetically by author in reverse chronology. To facilitate the location of information, the citations are presented in two categories: major *subject areas* (Section I); and major *species groups* (Section II). Following is a listing of topics within these categories. To access the topic or species-group of choice, click on the appropriate term.

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## SECTION I

### Subject Categories

#### AQUACULTURE

**Aiken DE** (Editor), 2003. Early rearing of haddock: State of the art. *Aquacult. Assoc. Can. Spec. Pub.* 7: 136 p.

**Aiken DE**, 1995. Research is an investment, not an expense. *World Aquaculture* 26(4):2-3.

**Aiken DE**, 1993. Aquaculture in Canada. Pages 411-446 in *Perspectives on Canadian Marine Fisheries Management* (LS Parsons and WH Lear, eds). *Can. Bull. Fish. Aquat. Sci.* 226: 446 p.

**Aiken DE**, 1993. Cada vez hay mas y mas ostiones! *World Aquaculture* 24(4):6-19.

**Aiken DE**, 1993. The perfect clam. *World Aquaculture* 24(2):6-15.

**Aiken DE**, 1991. Aquaculture and the influenza virus. *World Aquaculture* 22(1):2.

**Aiken DE**, 1991. Will the problem go away if we ignore it? *World Aquaculture* 22(2):2

**Aiken DE**, 1990. Global warming. *World Aquaculture* 21(3):4-5

**Aiken DE**, 1990. Commercial aquaculture in Canada, and a glance at some prospects for the future. *World Aquaculture* 21(2):66-75.

**Aiken DE**, 1990. Shrimp farming in Ecuador: an aquaculture success story. *World Aquaculture* 7-16.

**Aiken DE**, 1990. Shrimp farming in Ecuador: as you sow, so shall you reap. *World Aquaculture* 21(3):48-55.

**Aiken DE**, 1990. Shrimp farming in Ecuador: whither the future? *World Aquaculture* 21(4):26-30.

**Aiken DE**, 1990. Is aquaculture a "non-flier"? *World Aquaculture* 22(2):2.

**Aiken DE**, 1990. The Otter's roar. *World Aquaculture* 21(4):6-10.

**Aiken DE**, 1990. Commercial aquaculture in Canada, and a glance at some prospects for the future. *World Aquaculture* 21(2):66-75.

**Aiken DE**, 1990. Mariculture in Ontario? *World Aquaculture* 21(2):98-100.

**Aiken DE**, 1989. The economics of salmon farming in the Bay of Fundy. *World Aquaculture* 20(3):11-19.

**Aiken DE**, 1989. Salmon farming in Canada. The Pacific Coast. *World Aquaculture* 20(2):11-18.

**Aiken DE**, 1988. Lobster farming: Fantasy or opportunity? Proceedings of the Aquaculture International Congress & Exposition, p. 575-582. Aquaculture International, Vancouver.

**Aiken DE**, 1988. Marron farming: a real industry or just great promotion? *World Aquaculture* 19(4):14-17.

**Aiken DE**, 1988. Asia, an aquaculture giant. *World Aquaculture* 19(2):1,10-12.

**Aiken DE**, 1987. Mussel culture in Sweden. *Bull. Aquacul. Assoc. Canada* 87-4:16.

**Aiken DE**, 1987. Controlling maturity in salmon: a primer. *Bull. Aquacul. Assoc. Canada* 87-4:18-19.

**Aiken DE**, 1987. Farming the Fundy scallop. *Canadian Aquaculture magazine*, Winter 1987, p. 23-24.

**Aiken DE**, 1986. Chill waters test mettle of Fundy salmon farmers. *Canadian Aquaculture magazine*, Fall 1986, p. 27-29.

**Aiken DE**, 1984. Aquaculture in Atlantic Canada. Pages 6-15 in Proceedings of the National Aquaculture Conference-strategies for aquaculture development in Canada (GI Pritchard, ed.). *Can. Spec. Publ. Fish. Aquat. Sci.* 75: 131 p.

**Aiken DE**, Martin DJ, Meisner JD, Sochasky JB, 1981. Influence of

photoperiod on survival and growth of larval American lobsters (*Homarus americanus*). J. World Maricult. Soc. 12:225-230.

**Aiken DE**, Rowe WJ, Martin-Robichaud DJ, Waddy SL, 1983. Seasonal differences in the effect of photoperiod on survival and development of larval American lobsters (*Homarus americanus*). J. World Maricult. Soc. 13: 287-293.

**Aiken DE**, Sinclair MD, 1995. From capture to culture: exploring the limits of marine productivity. World Aquaculture 26(3):21--34.

**Aiken DE**, Waddy SL, 1995. Aquaculture. Pages 153-175 in Biology of the Lobster *Homarus americanus* (JR Factor, ed). Academic Press, 528 p.

**Aiken DE**, Waddy SL, 1989. Culture of the American lobster, *Homarus americanus*. Pages 79-122 in Cold Water Aquaculture in Atlantic Canada (AD Boghen, ed.). The Canadian Institute for Research on Regional Development, 410 p

**Aiken DE**, Waddy SL, 1988. Strategies for maximizing growth of communally reared juvenile American lobsters. World Aquaculture 19(3):61-63.

**Aiken DE**, Waddy SL, 1985. Photoperiodic control of vitellogenesis in the American lobster (*Homarus americanus*): comment on a recent report. Can. J. Fish. Aquat. Sci. 42: 198-199.

**Aiken DE**, Waddy SL, 1985. Production of seed stock for lobster culture. Aquaculture 44:103-114.

**Aiken DE**, Waddy SL, 1978. Space, density and growth of the lobster (*Homarus americanus*). Pages 461-467 in Proc. Ninth Ann. Meet. World Mariculture Society. LSU, Baton Rouge LA, USA.

**Aiken DE**, Waddy SL, 1976. Controlling growth and reproduction in the American lobster. Proc. World Maricult. Soc. 7: 415-430.

**Aiken DE**, Waddy SL, 1975. Temperature increase can cause hyperecdysionism in American lobsters (*Homarus americanus*) injected with ecdysterone. J. Fish. Res. Board Can. 32:1843-1845.

**Aiken DE**, Waddy SL, Mercer SM, 2004. Confirmation of external fertilization in the American lobster, *Homarus americanus*. J. Crustac. Biol. 24: 474-480.

**Aiken DE**, Waddy SL, Moreland K, Polar SM, 1984. Electrically induced ejaculation and artificial insemination of the American lobster *Homarus americanus*. J. Crust. Biol. 4:519-527.

**Aiken DE**, Young-Lai WW, 1981. Dactylotomy, chelotomy and dactylostasis: Methods for enhancing survival and growth of small lobsters (*Homarus americanus*) in communal conditions. Aquaculture 22: 45-52.

**Aiken DE**, Young-Lai WW, 1981. Cheliped ablation and immobilization: methods for improving survival and growth of juvenile lobsters in communal culture tanks. Proc. World Maricul. Soc. 10:159-161.

**Baisre JA**, Castell JD, 1991. Aquaculture in Cuba. World Aquaculture. 22(4): 28-41

**Benfey TJ**, Martin-Robichaud DJ, Hendry CI, Sacobie C, Tvedt H, Reith M, 2001. Production of all-female populations of fish for aquaculture. Bull. Aquacult. Assoc. Can. 100-3: 13-15.

**Bjerknes V**, Duston J, Know D, Harmon P, 1992. Importance of body size for acclimation of underyearling Atlantic salmon parr (*Salmo salar* L.) to seawater. Aquaculture 104:357-366.

**Blair T**, 2003. Microdiet technology: potential for use in haddock culture. Pages 71-78 in Early rearing of haddock: state of the art (DE Aiken, ed.). Aquacult. Assoc. Can. Spec. Pub. 7.

**Blair T**, Batt J, Melanson R, Kirk S, Castell J, 1998. Evaluation of several commercial enrichment media for enhancing nutritional value of rotifers for winter flounder (*Pleuronectes americanus*). Bull. Aquacult. Assoc. Can. 98-4: 35-37.

**Blair TJ**, Castell JD, Mercer S, Powell F, 1999. The effect of different dietary protein and lipid levels on juvenile halibut (*Hippoglossus hippoglossus* L.). Bull. Aquacult. Assoc. Can. 99-4: 16-18.

**Blair T**, Powell F, Brooking P, Castell J, 1998. Evaluation of commercial enrichment media for enhancing the nutritional value of Artemia for larval halibut (*Hippoglossus hippoglossus*) culture. Bull. Aquacult. Assoc. Can. 98-4: 21-24.

**Boghen AD**, Castell JD, 1981. Nutritional value of different dietary proteins to

juvenile lobsters, *Homarus americanus*. *Aquaculture* 22: 343-351

**Boghen AD**, Castell JD, 1979. A recirculating system for small scale experimental work on juvenile lobsters *Homarus americanus*. *Aquaculture* 18: 383-387.

**Boghen AD**, Castell JD, Conklin DE, 1982. In search of a reference protein to replace "vitamin-free casein" in lobster nutrition studies. *Can. J. Zool.* 60: 2033-2038.

**Bremner AA**, Trippel EA, Terhune JM, 2002. Sound production by adult haddock, *Melanogrammus aeglefinus*, in isolation, pairs and trios. *Environ. Biol. Fishes* 65: 359-362.

**Burridge LE**, 2003, Chemical use in marine finfish aquaculture in Canada: a review of current practices and possible environmental effects. Pages 97-131 in *A scientific review of the potential environmental effects of aquaculture in aquatic ecosystems*. *Can. Tech. Rep. Fish. Aquat. Sci.* 2450.

**Castell JD**, 2000. Farming the waters: Bringing aquatic plant and animal species to agriculture. *Can. J. Animal Sci.* 80: 235-243.

**Castell JD**, 1990. Reference diets for Crustaceans: principles of experimentation. In: Barret, J. (Ed.), *Advances in Tropical Aquaculture*. Workshop held in Tahiti, French Polynesia, Feb. 20-Mar. 4, 1989. *Actes Colloq. IFREMER* 9: 339-354.

**Castell JD**, 1977. Production of juvenile lobsters (*Homarus americanus*) for Nutrition Research. *Actes de Colloques du C.N.E.X.O.* 4: 277-281.

**Castell JD**, Bell JG, Tocher DR, Sargent JR, 1994. Effects of purified diets containing different combinations of arachidonic and docosahexaenoic acid on survival, growth and fatty acid composition of juvenile turbot (*Scophthalmus maximus*), *Aquaculture* 128:315-333.

**Castell JD**, Boghen A, 1979. Fatty acid metabolism in juvenile lobsters (*Homarus americanus*) fed a diet low in methionine and histidine. *Proc. 10th Ann. Workshop. World Maricult. Soc.* 10: 720-727.

**Castell JD**, Budson SD, 1974. Lobster nutrition: the effect on *Homarus americanus* of dietary protein levels. *J. Fish. Res. Board Can.* 31: 1363-1370.

- Castell JD**, Covey JF, 1976. Dietary lipid requirements of adult lobsters (*Homarus americanus*). J. Nutrit. 106: 1159-1165.
- Castell JD**, Covey JF, Aiken DE, Waddy SL, 1977. The potential for eyestalk ablation as a technique for accelerating growth of lobsters (*Homarus americanus*) for commercial culture. Proc. World Maricul. Soc. 9:885-914.
- Castell JD**, Lee DJ, Sinnhuber RO, 1972. Essential fatty acids in the diet of rainbow trout (*Salmo gairdneri*): Lipid metabolism and fatty acid composition. J. Nutrit. 102: 93-100.
- Castell JD**, Sinnhuber RO, Lee DJ, Wales SH, 1972. Essential fatty acids in the diet of rainbow trout (*Salmo gairdneri*): Physiological symptoms of EFA deficiency. J. Nutrit. 102: 87-92.
- Castell JD**, Trider DJ, 1974. Oyster nutrition. I. Preliminary feeding trails. J. Fish. Res. Board Can. 31: 95-99.
- Chang BD**, 2003. The salmon aquaculture industry in New Brunswick: why go offshore. Pages 229-232 In: Open ocean aquaculture: from research to commercial reality (CJ Bridger, BA Costa-Pierce Eds). World Aquaculture Society, Baton Rouge, LA.
- Chang BD**, Thonney J-P, 1992. Overview and environmental status of the New Brunswick salmon culture industry. Bull. Aquacul. Assoc. Can. 92-3: 61-63.
- Chang BD**, Watson-Wright WM, 1997. Aquaculture research at the St. Andrews Biological Station: past, present and future. Aquacul. Assoc. Canada, Special Publ. No. 2: 105-108.
- Charmantier G**, Charmantier-Daures M, Aiken DE, 1989. Accelerating lobster growth with human growth hormone. World Aquaculture 20(2): 52-53.
- Charmantier G**, Charmantier-Daures M, Aiken DE, 1989. Human somatotropin enhances the growth of young American lobsters *Homarus americanus* (Crustacea, Decapoda). C.R. Acad. Sci. Paris 308 (Ser III): 21-26.
- Charmantier G**, Charmantier-Daures M, Aiken DE, 1988. Larval development and metamorphosis of the American lobster *Homarus americanus* (Crustacea: Decapoda): Effect of eyestalk ablation and juvenile hormone injection. Gen. Comp. Endocrinol. 70: 319-333.

**Chislett P**, Glebe B, 2003. Fish maturity assessed with high definition ultrasound. *Hatchery Int.* September/October 2003: p. 30.

**Chou CL**, Haya K, Paon LA, Moffatt JD, 2003. Metals in green sea urchin (*Strongylocentrotus droebrachiensis*) as an indicator for the near-field effect of chemical wastes from salmon aquaculture sites in New Brunswick, Canada. *Bull. Environm. Contam. Toxicol.* 70: 948-956.

**Cook RH**, 1990. Salmon farming in the Bay of Fundy-the challenge of the future. *World Aquaculture* 21(2):46-53.

**Cook RH**, 1988. Salmon aquaculture in the Bay of Fundy: a quiet success. *Bull. Aquacul. Assoc. Canada* 88-2:28-40.

**Coutteau P**, Castell JD, Ackman RG, Sorgeloos P, 1996. The use of lipid emulsions as carriers for essential fatty acids in bivalves: A test case with juvenile *Placopecten magellanicus*. *J. Shellfish Res.* 15(2): 259-264

**Couturier C**, 1990. Scallop aquaculture in Canada: fact or fantasy? *World Aquaculture* 21(2):54-62.

**Couturier C**, 1988. Shellfish toxins aplenty. *Bull. Aqua. Assoc. Canada* 88-2:11-27.

**Couturier C**, Aiken DE, 1989. Possible role of photoperiod in sea scallop reproduction. *Bull. Aquacul. Assoc. Canada* 89-3:65-68.

**D'Abramo LR**, Castell JD, 1997. Research Methods. Pages 3-25 In: *Crustacean Nutrition; Advances in World Aquaculture Volume 6* (LR D'Abramo, DE Conklin, DM Akiyama Eds). World Aquaculture Society, Baton Rouge.

**Dowd M**, 2000. Oceanography and shellfish production: a biophysical synthesis using a simple model. *Bull. Aquacul. Assoc. Canada* 100-2:3-9.

**Dowd, M.** 1997. On predicting the growth of cultured bivalves. *Ecol. Model.* 104:113-131.

**Duston J**, Knox JDE, 1992. Acclimation of Atlantic salmon (*Salmo salar*) parr to seawater in autumn: stimulatory effect of a long photoperiod. *Aquaculture* 103:341-358.



- Duston J**, Saunders RL, 1999. Effect of winter food deprivation on growth and sexual maturity of Atlantic salmon (*Salmo salar*) in seawater. *Can. J. Fish. Aquat. Sci.* 56:201-207.
- Duston J**, Saunders RL, 1997. Life histories of Atlantic salmon altered by winter temperature and summer rearing in fresh- and sea-water. *Environ. Biol. Fish.* 50:149-166.
- Duston J**, Saunders RL, 1992. Effect of 6-, 12- and 18-month photoperiod cycles on smolting and sexual maturation in juvenile Atlantic salmon (*Salmo salar*). *Can. J. Fish. Aquat. Sci.* 49:2273-2280.
- Duston J**, Saunders RL, 1990. The entrainment role of photoperiod on hypoosmoregulatory and growth-related aspects of smolting in Atlantic salmon (*Salmo salar*). *Can. J. Zool.* 68:707-715.
- Enright CT**, Newkirk GF, Craigie JS, Castell JD, 1986. Growth of juvenile *Ostrea edulis* L. fed *Chaetoceros gracilis* Schutt of varied chemical composition. *J. Exp. Mar. Biol. Ecol.* 96: 15-26.
- Eagles MD**, Aiken DE, Waddy SL, 1984. Effect of food quality and feeding schedule on survival, growth and development of larval American lobsters fed frozen adult brine shrimp. *J. World Maricul. Soc.* 15: 142-143.
- Enright CT**, Newkirk GF, Craigie JS, Castell JD, 1986. Evaluation of phytoplankton as diets for juvenile *Ostrea edulis* L. *J. Exp. Mar. Biol. Ecol.* 96: 1-13.
- Ewart KV**, Blanchard B, Johnson SC, Bailey WL, Martin-Robichaud DJ, Buzeta M-I, 2000. Freeze susceptibility of haddock (*Melanogrammus aeglefinus*). *Aquaculture* 188: 91-101.
- Faithfull RW**, Haley LE, Castell JD. 1981. The early growth of artificially reared American lobsters. Part 1. Genetic parameters within environments. *Theor. Appl. Genet.* 60: 269-273.
- Fredette M**, Batt J, Castell JD, 2000. Feeding stimulants for juvenile winter flounder. *N. Amer. J. Aquacult.* 62: 157-160.
- Glebe BD**, Harmon PR, Quinton C, 2003. Early and ongoing studies on maturation of cage-reared salmon in the Bay of Fundy. *Bull. Aquacult. Assoc. Can.* 103-1: 13-18.

**Glebe BD**, Saunders RL, 1986. Genetic factors in sexual maturity of cultured Atlantic salmon (*Salmo salar*) parr and adults reared in sea cages. Can. Spec. Publ. Fish. Aquat. Sci. 89:24-29.

**Harmon PR**, 2003. Early rearing of haddock - state of the art, 2002. Pages 7-16 in Early rearing of haddock: state of the art (DE Aiken, ed.). Aquacult. Assoc. Can. Spec. Pub. 7.

**Harmon P**, Glebe B, 2001. The seawater performance of out-of-season (0+) Atlantic salmon (*Salmo salar*) smolts. Aqua. Assoc. Canada Spec. Publ. 4: 28-30.

**Harmon PR**, Glebe B, Peterson R, 2003. The effect of photoperiod on maturation of cultured salmon in the Bay of Fundy. Bull. Aquacult. Assoc. Can. 103-1:19-22.

**Harmon PR**, Glebe B, Peterson R, 2003. The effect of photoperiod on growth and maturation of Atlantic salmon (*Salmo salar*) in the Bay of Fundy. Can. Tech. Rep. Fish. Aquat. Sci. 2458: iv + 16 p.

**Harmon PR**, Knox DE, Cornick JW, Zwicker BM, Olivier G, 1991. Atypical furunculosis in Atlantic salmon. Bull. Aquacul. Assoc. Canada 91-3:67-68.

**Harmon P**, Peterson R, 1994. The effect of temperature and salinity on the growth of striped bass (*Morone saxatilis*). Bull. Aquacul. Assoc. Canada 94-2:45-47.

**Hawkins CM**, Castell JD, Leroyer V, 1986. Patterns and rates of ammonia excretion by juvenile American lobsters, *Homarus americanus*, fed casein- and crab protein-based diets. Can. J. Fish. Aquat. Sci. 43: 1290-1294.

**Haya K**, 2003. Country report for Canada, report of the Working Group on Environmental Interactions of Mariculture. Int. Counc. Explor. Sea C.M. 2003/F-04: 13-18.

**Hebb CD**, Castell JD, Anderson DM, Batt J, 2003. Growth and feed conversion of juvenile winter flounder (*Pleuronectes americanus*) in relation to different protein-to-lipid levels in isocaloric diets. Aquaculture 221: 439-449.

**Hebb CD**, Castell JD, Anderson DM, Batt J, 1997. Nutritional studies on growth and protein utilization during the juvenile stage of winter flounder

(*Pleuronectes americanus*). Bull. Aquacult. Assoc. Canada 97: 45-47.

**Henderson EB**, 1988. Salmon rearing trials at the Salmonid Demonstration and Development Farm. Bull. Aquacul. Assoc. Canada 88-3:49-54.

**Hendry CI**, Martin-Robichaud DJ, Benfey TJ, 2003. Hormonal sex reversal of Atlantic halibut (*Hippoglossus hippoglossus* L.). Aquaculture 219: 769-781.

**Hendry CI**, Martin-Robichaud DJ, Benfey TJ, 2002. Gonadal sex differentiation in Atlantic halibut. J. Fish Biol. 60: 1431-1442.

**Hendry CI**, Martin-Robichaud DJ, Benfey TJ, 2001. Hormonal sex reversal of Atlantic halibut. Aquacult. Assoc. Can. Spec. Publ. 4: 41-44.

**Hendry CI**, Martin-Robichaud DJ, Benfey TJ, 1999. Hormonal production of all-female Atlantic halibut (*Hippoglossus hippoglossus*): The timing of sexual differentiation. Bull. Aquacult. Assoc. Can. 99-4: 13-15.

**Jackson TR**, Martin-Robichaud DJ, Reith ME, 2003. Application of DNA markers to the management of Atlantic halibut (*Hippoglossus hippoglossus*) broodstock. Aquaculture 220: 245-259.

**Jamieson GS**, 1975. Quantitative lobster genetics and culture applications. In, Recent Advances in Lobster Aquaculture (JS Cobb, ed). p. 15. Sea Grant Lobster Aquaculture Workshop, University of Rhode Island, Kingston.

**Kean JC**, Castell JD, Bogen AG, D'Abramo LR, Conklin DE, 1985. A re-evaluation of the lecithin and cholesterol requirements of juvenile lobster (*Homarus americanus*) using crab protein-based diets. Aquaculture 47: 143-149.

**Kean JC**, Castell JD, Trider DJ, 1985. Juvenile lobsters (*Homarus americanus*) do not require dietary ascorbic acid. Can. J. Fish. Aquat. Sci. 42: 368-370.

**Kennedy E**, Robinson SMC, Parsons GJ, Castell JD, 2002. Importance of dietary minerals and pigments in enhancing somatic growth of juvenile green sea urchins. Aquacult. Assoc. Can. Spec. Publ. 5: 31-34.

**Koshio S**, Castell JD, O'Dor RK, 1992. The effect of different dietary energy levels in crab-protein-based diets on digestibility, oxygen consumption, and ammonia excretion of bilaterally eyestalk-ablated and intact juvenile lobsters, *Homarus americanus*. Aquaculture 108: 285-297.

**Koshio S**, Haley LE, Castell JD, 1989. The Effect of Two Temperatures and Salinities on Growth and Survival of Bilaterally Eyestalk Ablated and Intact Juvenile American Lobsters, *Homarus americanus*, Fed Brine Shrimp. *Aquaculture* 76: 378-382.

**Koshio S**, Kanazawa A, Teshima S-I, Castell JD, 1989. Nutritional evaluation of crab protein for larval *Penaeus japonicus* fed microparticulate diets. *Aquaculture* 81: 145-154.

**Koshio S**, O'Dor RK, Castell JD, 1990. The effect of different dietary energy levels on growth and survival of eyestalk ablated and intact juvenile lobsters *Homarus americanus*. *J. World Aquacult. Soc.* 21(3): 160-169.

**Litvak MK**, Trippel EA, 1999. Sperm motility patterns of Atlantic cod (*Gadus morhua*) in relation to salinity: effects of ovarian fluid and egg presence. *Can. J. Fish. Aqua. Sci.* 55: 1871-1877.

**McCormick SD**, Hansen LP, Quinn TP, Saunders RL, 1998. Movement, migration, and smolting of Atlantic salmon (*Salmo salar*). *Can. J. Fish. Aquat. Sci.* 55(Suppl):77-92.

**McCormick SD**, Saunders RL, MacIntyre AD, 1989. The effect of salinity and ration level on growth rate and conversion efficiency of Atlantic salmon (*Salmo salar*) smolts. *Aquaculture* 82-173-180.

**McLeese DW**, 1972. Effects of several factors on the growth of the American lobster in captivity. *J. Fish. Res. Board Can.* 29: 1725-1730.

**Martin JL**, LeGresley MM, 1998. Does aquaculture impact harmful algal blooms in the southwest Bay of Fundy? Pages 24-27 in *Coastal Monitoring and the Bay of Fundy* (MDB Burt & PG Wells, Eds.). Proceedings of the Maritime Atlantic Ecozone Science Workshop, held in St. Andrews, New Brunswick, Nov. 11-15, 1997.

**Martin JL**, Wildish DJ, 1990. Algal blooms in the Bay of Fundy salmon aquaculture region. *Bull. Aquacul. Assoc. Canada* 90-4:19-21.

**Martin-Robichaud DJ**, 2003. Haddock broodstock management. Pages 17-22 in *Early rearing of haddock: state of the art* (DE Aiken, ed.). *Aquacult. Assoc. Can. Spec. Pub.* 7.

**Martin-Robichaud DJ**, Berlinsky DL, 2004. The effects of photothermal

manipulation on reproductive development in female haddock *Melanogrammus aeglefinus* L. *Aquacult. Res.* 35: 465-472.

**Martin-Robichaud DJ**, Peterson RH, 1998. Effects of light intensity, photoperiod and tank colour on swimbladder inflation success in larval striped bass (*Morone saxatilis*). *Aquacult. Res.* 29: 539-547.

**Martin-Robichaud DJ**, Peterson RH, Benfey TJ, Crim LW, 1994. Direct feminization of lumpfish (*Cyclopterus lumpus* L.) using 17 $\alpha$ -oestradiol-enriched Artemia as food. *Aquaculture* 123: 137-151.

**Martin-Robichaud DJ**, Powell J, Wade J, 2001. Gonadotropin- releasing hormone affects sperm production of Atlantic halibut. *Aquacult. Assoc. Can. Spec. Publ.* 4: 45-48.

**Martin-Robichaud DJ**, Rommens M, 2001. Assessment of sex and evaluation of ovarian maturation of fish using ultrasonography. *Aquacult. Res.* 32: 113-120.

**Mason EG**, Castell JD, 1980. The effects of supplementing purified proteins with limiting essential amino acids in growth and survival of juvenile lobsters (*Homarus americanus*). *Proc. World Maricult. Soc.* 11:346-354.

**Mauviot JC**, Castell JD, 1976. Molt and growth enhancing effects of bilateral eyestalk ablation on juvenile and adult American lobsters (*Homarus americanus*). *J. Fish. Res. Board Can.* 33: 1922-1929.

**Millar C**, Aiken DE, 1995. Conflict resolution in aquaculture: a matter of trust. Pages 617-645 in *Cold Water Aquaculture in Atlantic Canada* (AD Boghen, ed.), Second Edition. *Can. Inst. Res. Regional Devel.*, Moncton, 672 p.

**Milligan T**, Robinson S, Yeats P, 2003. Particle aggregation and tracers for particulate dispersion from finfish aquaculture in southwestern New Brunswick. Appendix D, Pages 50-54 in Department of Fisheries and Oceans, Science Branch Maritimes Region. 2003. *Salmon holding capacity in southwestern New Brunswick*. *Can. Tech. Rep. Fish. Aquat. Sci.* 2489: iv + 60 p.

**Morrison C**, Bird C, O'Neil D, Leggiadro C, Martin-Robichaud D, Rommens M, Waiwood K, 1999. Ultrastructure of the egg membrane of the haddock, *Melanogrammus aeglefinus*, and its colonization by microorganisms during incubation. *Can. J. Zool.* 77: 890-901.

- Nanton DA**, Castell JD, 1999. The effects of temperature and dietary fatty acids on the fatty acid composition of the harpacticoid copepod for use as a live food for marine fish larvae. *Aquaculture* 175: 167-181.
- Nanton DA**, Castell JD, 1998. The effects of dietary fatty acids on the fatty acid composition of the harpacticoid copepod, *Tisbe* sp., for use as a live food for marine fish larvae. *Aquaculture* 163: 251-261.
- Nanton DA**, Castell JD, McLaren IA, 1996. Fatty acid composition and nutritional value of a marine harpacticoid fed various algal diets. *Bull. Aquacult. Assoc. Canada* 96-1: 38-40.
- Neil SRE**, 2003. Nursery technology for haddock (*Melanogrammus aeglefinus*) at the St. Andrews Biological Station. Pages 43-52 in *Early rearing of haddock: state of the art* (DE Aiken, ed.). *Aquacult. Assoc. Can. Spec. Pub.* 7.
- Page FH**, Chang BD, 2002. Fish Health and Oceanography Project of the Aquaculture Collaborative Research and Development Program: report of the initial meeting, 18 December 2001. *Can. Tech. Rep. Fish. Aquat. Sci.* 2409: vii + 47 p.
- Page FH**, Robinson SMC, 1992. Salmon farming in the Bay of Fundy: a chilling reminder. *World Aquaculture* 23(4): 31-34.
- Parish CC**, Castell JD, Brown JA, Boston LD, Strickland JS, Somerton DC, 1994. Fatty acid composition of Atlantic halibut eggs in relation to fertilization., *Bull. Aquacult. Assoc.* 94-2: 1-3.
- Peterson RH**, Harmon P, 2001. Swimming ability of pre-feeding striped bass larvae. *Aqua. International* 9: 361-366.
- Peterson RH**, Harmon P, McGrattan S, 2003. Historical perspective of Atlantic salmon maturation in the Bay of Fundy aquaculture industry. *Bull. Aquacult. Assoc. Can.* 103-1: 10-12.
- Peterson RH**, Martin-Robichaud DJ, 1994. First feeding and growth of elvers of the American eel (*Anguilla rostrata* (Lesueur)) at several temperature regimes. *Can. Tech. Rep. Fish. Aquat. Sci.* 2013: 1-11.
- Peterson RH**, Martin-Robichaud DJ, Harmon P, 2004. Influence of incubation temperature on body movements of Atlantic cod (*Gadus morhua* L.) embryos and on size at hatch. *Aquacult. Res.* 35: 453-457.

- Peterson RH**, Martin-Robichaud DJ, Harmon P, Berge A, 1997. The striped bass as an aquaculture species: a review. *Aquacult. Assoc. Can. Spec. Publ.* 2: 22-24.
- Peterson RH**, Page F, Steeves GD, Wildish DJ, Harmon P, Losier R, 2001. A survey of 20 Atlantic salmon farms in the Bay of Fundy: influence of environmental and husbandry variables on performance. *Can. Tech. Rep. Fish. Aquat. Sci.* 2337: 117 p.
- Peterson RH**, Spinney HCE, Sreedharan A, 1989. First-feeding of Atlantic salmon (*Salmo salar*) fry as influenced by temperature regime. *Aquaculture* 78:35-53.
- Pettigrew T**, Henderson EB, Saunders RL, Sochasky JB, 1978. A review of water reconditioning re-use technology for fish culture, with a selected bibliography. *Fish. Mar. Service Tech. Rep. No.* 801, 19 p.
- Peutz AVH**, Waddy SL, Aiken DE, Young-Lai WW, 1987. Accelerated growth of juvenile American lobsters induced by unilateral eyestalk ablation. *Bull. Aquacul. Assoc. Canada* 87-2:28-29.
- Rakitin A**, Ferguson MM, Trippel EA, 2001. Male reproductive success and body size in Atlantic cod *Gadus morhua* L. *Mar. Biol.* 138: 1077-1085.
- Rakitin A**, Ferguson MM, Trippel EA, 1999. Spermatocrit, spermatozoa density and size in Atlantic cod (*Gadus morhua*): correlation and variation during the spawning season. *Aquaculture* 170: 349-358.
- Ramsay JM**, Castell J D, Andwerson DM, Hebb CD, 2000. Effects of fecal collection methods on estimation of digestibility of protein feedstuffs by winter flounder. *N. Amer. J. Aquacult.* 62: 168-173.
- Rideout RM**, Litvak MK, Trippel EA, 2003. The development of sperm cryopreservation protocol for winter flounder, *Pseudopleuronectes americanus* (Walbaum): evaluation of cryoprotectants and dilutants. *Aquacult. Res.* 34: 653-659.
- Robinson SMC**, 2003. A roundtable discussion of the future of aquaculture for sea urchins. Pages 387-393 in *Sea urchins - fisheries and ecology: Proceedings of the International Conference on Sea Urchin Fisheries and Aquaculture*, Puerto Varas, Chile, March 25-27, 2003 (JD Lawrence, ed.). DEStech Publications Inc./Lancaster, PA, USA.

**Robinson SMC**, 2003. The evolving role of aquaculture in the global production of sea urchins. Pages 343-358 in Sea urchins - fisheries and ecology: Proceedings of the International Conference on Sea Urchin Fisheries and Aquaculture, Puerto Varas, Chile, March 25-27, 2003 (JD Lawrence, ed.). DEStech Publications Inc./Lancaster, PA, USA.

**Robinson SMC**, 1997. Shellfish culture in the Bay of Fundy. Aquaculture Association of Canada Spec. Publ. 2:85-93.

**Robinson SMC**, Castell JD, Kennedy EJ, 2002. Developing suitable colour in the gonads of cultured green sea urchins (*Strongylocentrotus droebachiensis*) Aquaculture 206: 289-303.

**Robinson SMC**, Castell J, Kennedy E, Peters L, 2000. A summary of sea urchin culture at the St. Andrews Biological Station. Available at: <http://crdpm.cus.ca/oursin/> 6p.

**Robinson SMC**, Colborne L, 1997. Roe enhancement trials on the green sea urchin using an artificial food source. urchin Bull. Aqua. Assoc. Canada. 97-1:14-20.

**Robinson SMC**, Lawrence JM, Burridge L, Haya K, Martin JD, Castell JD, Lawrence A, 2003. The effectiveness of different pigment sources in colouring the gonads of the green sea urchin (*Strongylocentrotus droebachiensis*). Pages 215-221 in Sea Urchins - Fisheries and Ecology: Proceedings of the International Conference on Sea Urchin Fisheries and Aquaculture. Puerto Varas, Chile, March 25-27, 2003 (JD Lawrence, ed.). DEStech Publications Inc., Lancaster, PA, USA.

**Saunders RL**, 1996. Salmon aquaculture - a bright but uncertain future? Env. Biol. Fish. 45:103-107.

**Saunders RL**, 1995. Salmonid aquaculture: present status and prospects for the future. Pages 35-81 in Cold-Water Aquaculture in Atlantic Canada, 2nd Edition (AD Boghen, ed). Can. Inst. Res. Region. Develop., Moncton. 672 p.

**Saunders RL**, 1992. Enhancing smolt production: by manipulating light and temperature, a farmer can increase the numbers of 1+ Atlantic salmon smolts. World Aqua. 23(2):37-39.

**Saunders RL**, 1991. Potential interaction between cultured and wild Atlantic salmon. Aquaculture 98:51-60.



**Saunders RL**, 1989. Salmonid aquaculture: present status and prospects for the future. Pages 31-75 in *Cold-Water Aquaculture in Atlantic Canada* (AD Boghen, ed). Can. Inst. Res. Region. Develop., Moncton. 410 p.

**Saunders RL**, 1988. Algal catastrophe in Norway. *World Aquaculture* 19(3):11-12.

**Saunders RL**, 1987. Winterkill! The reality of lethal winter sea temperature in East Coast salmon farming. *Bull. Aquacul. Assoc. Canada* 87-1:36-40.

**Saunders RL**, 1986. The thermal biology of Atlantic salmon: influence of temperature on salmon culture with particular reference to constraints imposed by low temperature. *Institute Freshwater Res., Drottningholm* 63:77-90.

**Saunders RL**, Duston J, 1992. Increasing production of Atlantic salmon smolts by manipulating photoperiod and temperature. *World Aquacul.* 23:43-46

**Saunders RL**, Duston J, Benfey TJ, 1994. Environmental and biological factors affecting growth dynamics in relation to smolting of Atlantic salmon, *Salmo salar* L. *Aqua. Fish. Manage.* 25:9-20.

**Saunders RL**, Duston J, Harmon PR, 1990. Production of underyearling Atlantic salmon smolts. *Bull. Aquacul. Assoc. Canada* 90-4:61-63.

**Saunders RL**, Henderson EB, 1988. Effects of constant day length on sexual maturation and growth of Atlantic salmon (*Salmo salar*) parr. *Can. J. Fish. Aquat. Sci.* 45:60-64.

**Saunders RL**, Henderson EB, Glebe BD, Loudenslager EJ, 1983. Evidence of a major environmental component in determination of the grilse: larger salmon ratio in Atlantic salmon (*Salmo salar*). *Aquaculture* 33:107-118.

**Saunders RL**, Henderson EB, Glebe BD, 1982. Precocious sexual maturation and smoltification in male Atlantic salmon (*Salmo salar*). *Aquaculture* 28:211-229.

**Saunders RL**, Henderson EB, Harmon PR, 1987. Extended daylength during autumn enhances growth of juvenile Atlantic salmon. Pages 32-33 in *Proceedings of the Fourth Annual Meeting, Aquaculture Assoc. Canada* (SL Waddy, ed).

**Saunders RL**, Henderson EB, Harmon PR, 1985. Effects of photoperiod on

juvenile growth and smolting of Atlantic salmon and subsequent survival and growth in sea cages. *Aquaculture* 45:55-66.

**Saunders RL**, Muise BC, Henderson EB, 1975. Mortality of salmonids cultured at low temperature in seawater. *Aquaculture* 5:243-252.

**Saunders RL**, Schom CB, 1985. Importance of the variation in life history parameters of Atlantic salmon (*Salmo salar*). *Can. J. Fish. Aquat. Sci.* 42:615-618.

**Silvert W**, Haya K, 2003. Preliminary report on the evaluation of existing decision support systems (DSS) tools, GIS, and other expert systems in order to derive strategic advice on the content of DSS for mariculture. *Int. Counc. Explor. Sea* 2003/F-04: 4-6.

**Sinnhuber RO**, Castell JD, Lee DJ, 1972. Essential fatty acid requirements of the rainbow trout (*Salmo gairdneri*). *Federation Proc.* 31(5): 1436-1441.

**Sochasky JB**, Aiken DE, McLeese DW, 1973. Does eyestalk ablation accelerate molting in the lobster *Homarus americanus*? *J. Fish. Res. Board Can.* 30:1600-1603.

**Stefansson SO**, Berg AE, Hansen T, Saunders RL. 1992. The potential for development of salinity tolerance in underyearling Atlantic salmon (*Salmo salar*). *World Aqua.* 23(2):52-55.

**Stephenson RL**, 1990. Multiuse conflict: aquaculture collides with traditional fisheries in Canada's Bay of Fundy. *World Aquaculture* 21(2):34-45.

**Stewart JE**, Castell JD, 1976. Various aspects of culturing the American lobster (*Homarus americanus*). *Proc. FAO. Conference on Aquaculture, Kyoto, Japan.* FIR: AQ/Cont/76/E: 11.

**Sutterlin AM**, Henderson EB, Merrill SP, Saunders RL, MacKay AA, 1981. Salmon-rearing trials at Deer Island, New Brunswick, with some projections on economic viability. *Can. Tech. Rep. Fish. Aquat. Sci.* 1011.

**Stewart MW**, Saunders RL, Wiggs AJ, 1990. Effects of extended daylength on autumn growth dynamics of juvenile Atlantic salmon, *Salmo salar*. *Can. J. Fish. Aquat. Sci.* 47:755-759.

**Thorsen A**, Trippel EA, Lambert Y, 2003. Experimental methods to monitor

the production and quality of eggs of marine fish species. *J. Northwest Atl. Fish. Sci.* 33: 55-70.

**Tocher DE**, Castell JD, Dick JR, Sargent JR, 1994. Effects of salinity on the growth and lipid composition of Atlantic salmon (*Salmo salar*) and turbot (*Scophthalmus maximus*) cells in culture. *Fish Physiol. Biochem.* 13: 451-461.

**Trider DJ**, Castell JD, 1980. Effects of Dietary Lipids on Growth, Tissue Composition and Metabolism in the Oyster *Crassostrea virginica*). *J. Nutrit.* 110: 1303-1309.

**Trider DJ**, Mason EG, Castell JD, 1979. Survival and Growth of Juvenile American Lobsters (*Homarus americanus*) after Eystalk Ablation. *J. Fish. Res. Board Canada* 36(1): 93-97.

**Trippel EA**, 2003. Experimental methods to estimate male reproductive success of marine fishes. *J. Northwest Atl. Fish. Sci.* 33: 81-113.

**Trippel EA**, 2003. Paired mating as an alternative management strategy for haddock. Pages 23-34 in *Early rearing of haddock: state of the art* (DE Aiken, ed.). *Aquacult. Assoc. Can. Spec. Publ.* 7.

**Trippel EA**, Neil SRE, 2003. Effects of photoperiod and light intensity on growth and activity of juvenile haddock (*Melanogrammus aeglefinus*). *Aquaculture* 217: 633-645.

**Trippel EA**, Neil SRE, 2002. Juvenile growth and locomotory activity of haddock in relation to photoperiod and light intensity. *Int. Council. Explor. Sea C.M.* 2002/S:05.

**Trippel EA**, Castell JD, Neil SRE, Blair TJ, 2000. Assessment of egg quality of haddock (*Melanogrammus aeglefinus*) in paired matings. Pages 405-407 in *Reproductive Physiology of Fish* (B Norberg, OS Kjesbu, GL Taranger, E Anderson, SO Stefansson, eds.). *Proceedings of the 6th International Symposium on the Reproductive Physiology of Fishes*, 4-9 July, 1999, Bergen, Norway.

**Trippel EA**, Doherty CM, Wade J, Harmon PR, 1998. Controlled breeding technology for haddock (*Melanogrammus aeglefinus*) in mated pairs. *Bull. Aquacul. Assoc. Canada* 98-3: 30-35.

**Tvedt H**, Benfey TJ, Martin-Robichaud DJ, Power J, 2001. The relationship between sperm density, spermatocrit, sperm motility and fertilization success in

Atlantic halibut, *Hippoglossus hippoglossus*. Aquaculture 194: 191-200.

**Waddy SL** (Editor), 2003. Proceedings of Aquaculture Symposium held at the 133rd Annual Meeting of the American Fisheries Society. Bull. Aquacult. Assoc. Can. 103-2: 68 p.

**Waddy SL** (Editor), 2003. Proceedings of the 2nd St. Andrews Biological Station Aquaculture Workshop - Early maturation of Atlantic salmon. Bull. Aquacult. Assoc. Can. 103-1: 40 p.

**Waddy SL** (Editor), 2002. Proceedings of the First International Mussel Forum. Bull. Aquacult. Assoc. Can. 102-3: 128 p.

**Waddy SL** (Editor), 2002. Proceedings of a wolffish workshop. Bull. Aquacult. Assoc. Can. 102-2: 48 p.

**Waddy SL**(Editor), 2002. Progress in cod farming research to commercialization. Bull. Aquacult. Assoc. Can. 102-1: 40 p.

**Waddy SL**, 1994. Challenges of an imperfect world. World Aquaculture 25(2):50-51.

**Waddy SL**, 1988. Farming the homarid lobsters: State of the art. World Aquaculture 19(4):63-71.

**Waddy SL**, Aiken DE, 2000. Endocrinology and the culture of homarid lobsters. Pages 195-247 in Recent Advances in Marine Biotechnology, Vol. IV Aquaculture (M Fingerman and R Nagabhushanam, eds.). Science Publishers Inc.

**Waddy SL**, Aiken DE, 1998. Lobster (*Homarus americanus*) culture and resource enhancement: The Canadian experience. Can. Ind. Rep. Fish. Aquat. Sci. 244: 9-18.

**Waddy SL**, Aiken DE, 1995. Culture of the American lobster, *Homarus americanus*. Pages 145-188 in Cold Water Aquaculture in Atlantic Canada (AD Boghen, ed.). The Canadian Institute for Research on Regional Development, Moncton. 672 p.

**Waddy SL**, Aiken DE, 1992. Environmental intervention in reproduction of the American lobster, *Homarus americanus*. J. Invert. Reprod. Develop. 22: 245-252.

**Waddy SL**, Aiken DE, 1992. Seasonal variation in spawning response of preovigerous lobster (*Homarus americanus*) to manipulation of photoperiod and temperature. *Can. J. Fish. Aquat. Sci.* 49: 1114-1117.

**Waddy SL**, Aiken DE, 1991. Mating and insemination in the American lobster, *Homarus americanus*. Pages 126-144 in *Crustacean Sexual Biology* (RT Bauer, JW Martin, eds.). Columbia University Press, New York, 355 p.

**Waddy SL**, Aiken DE, 1990. Intermolt insemination, an alternative mating strategy for the American lobster (*Homarus americanus*). *Can. J. Fish. Aquat. Sci.* 47: 2402-2406.

**Waddy SL**, Aiken DE, 1989. Control of spawning in the American lobster: winter temperature and spring photoperiod requirements. *Bull. Aquacul. Assoc. Canada* 89-3:65-68.

**Waddy SL**, Aiken DE, 1988. Growth rates of male and female cultured lobsters and effect of culling on growth rates. *Bull. Aquacul. Assoc. Canada* 88-3:42-45.

**Waddy SL**, Aiken DE, 1987. Potential of intermolt mating in broodstock management for lobster culture. *Bull. Aquacul. Assoc. Canada* 87-2:30-31.

**Waddy SL**, Aiken DE, 1985. Fertilization and egg retention in artificially-inseminated female American lobsters, *Homarus americanus*. *Can. J. Fish. Aquat. Sci.* 42:1954-1956.

**Waddy SL**, Aiken DE, 1984. Seed stock for lobster culture: the role of temperature in synchronizing the molt and reproductive cycle of cultured American lobsters. *J. World. Maricul. Soc.* 15:132-137.

**Waddy SL**, Aiken DE, 1984. Broodstock management for year-round production of larvae for culture of the American lobster. *Can. Tech. Rep. Fish. Aquat. Sci.* 1272:1-14.

**Waddy SL**, Burr ridge LE, Hamilton MN, Mercer SM, 2002. Preliminary results on the response of the American lobster to emamectin benzoate, the active ingredient in Slice. *Aquacult. Assoc. Can. Spec. Publ.* 5: 56-59.

**Waddy SL**, Burr ridge LE, Hamilton MN, Mercer SM, Aiken DE, Haya K, 2002. Emamectin benzoate induces molting in American lobster, *Homarus americanus* *Can. J. Fish. Aquat. Sci.* 59: 1096-1099.

**Waddy, SL**, Burridge LE, Haya K, Hamilton MN, Mercer SM, 2002. Response of preovigerous American lobster to azamethiphos varies with concentration, number of exposures and time of year. *Aquacult. Assoc. Can. Spec. Publ.* 5: 60-63.

**Waddy SL**, Hamilton MN, Burridge LE, Mercer SM, Aiken DE, Haya K, 2003. Molting response of female lobsters (*Homarus americanus*) to emamectin benzoate varies with reproductive stage. Pages 75-77 in *Aquaculture Canada 2002, Proceedings of the contributed papers of the 19th Annual Meeting of the Aquaculture Association of Canada, Charlottetown, PEI* (CI Hendry, ed.). *Aquacult. Assoc. Can. Spec. Pub.* 6.

**Warrington SJ**, 2003. Hatchery technology for haddock at the St. Andrews Biological Station. Pages 35-42 in *Early rearing of haddock: state of the art* (DE Aiken, ed.). *Aquacult. Assoc. Can. Spec. Publ.* 7.

**Watson-Wright WW**, Jellett J, Dorey M, 1993. Working together. *World Aquaculture* 24(4):26-30.

**White AW**, 1988. PSP: poison for Fundy shellfish culture. *World Aquaculture* 19(4):23-26.

**Wildish DJ**, 1971. Some research problems in aquaculture. *Fish Res. Board Can. MS Rep.* 1136: 8 p.

**Wildish DJ**, Martin JL, Wilson AJ, Ringuette M, 1990. Environmental monitoring of the Bay of Fundy salmonid mariculture industry during 1988-89. *Can. Tech. Rept. Fish. Aquat. Sci.* 1760. 123p.

**Wildish DJ**, Wilson AJ, Young-Lai WW, DeCoste AM, Aiken DE, Martin JM, 1988. Biological and economic feasibility of four growout methods for the culture of giant scallops in the Bay of Fundy. *Can. Tech. Rep. Fish. Aquat. Sci.* 1658, 21 pp.

**Xu XL**, Ji WJ, Castell JD, O'Dor R K, 1994. Influence of dietary lipid sources on fecundity, egg hatchability and fatty acid composition of Chinese prawn (*Penaeus chinensis*) broodstock. *Aquaculture* 119: 359-370.

**Xu XL**, Ji WJ, Castell JD, O'Dor RK, 1994. Essential fatty acid requirement of the Chinese prawn, *Penaeus chinensis*. *Aquaculture* 127: 29-40.

**Xu XL, Ji WJ, Castell JD, O' Dor R K, 1994.** Influence of dietary lipid sources on fecundity, egg hatchability and fatty acid composition of Chinese prawn (*Penaeus chinensis*) broodstock. *Aquaculture* 119: 359-370.

**Young-Lai WW, 1989.** Quebec: impending success in scallop culture? *Bull. Aqua. Assoc. Canada* 89-1:29-33.

**Young-Lai WW, Aiken DE, 1986.** Biology and culture of the giant scallop, *Placopecten magellanicus*: a review. *Can. Tech. Rep. Fish. Aquat. Sci.* 1478, 21 pp.

## **BIOTECHNOLOGY**

**Jackson TR, Martin-Robichaud DJ, Reith ME, 2003.** Application of DNA markers to the management of Atlantic halibut (*Hippoglossus hippoglossus* L.). *Aquaculture* 220: 245-259.

**Reith M, Jackson T, Martin-Robichaud DJ, 2004.** Avoiding genetic bottlenecks in broodstock selection. *Global Aquaculture Alliance Advocate*, February 2004.

## **CAPTURE FISHERIES**

**Aiken DE, 1985.** Crab. Page 435 in *The Canadian Encyclopedia*, Vol. 1. Hurtig, Edmonton.

**Aiken DE, 1985.** Lobster. Page 1027 in *The Canadian Encyclopedia*, Vol. II. Hurtig, Edmonton.

**Aiken DE, 1985.** Crayfish. Page 437 in *The Canadian Encyclopedia*, Vol. 1. Hurtig, Edmonton.

**Aiken DE, 1985.** Shrimp. Page 1694 in *The Canadian Encyclopedia*, Vol. III. Hurtig, Edmonton.

**Aiken DE, 1985.** Crustacean resources. Page 453 in *The Canadian Encyclopedia*, Vol. 1. Hurtig, Edmonton.

**Aiken DE, 1980.** Molting and Growth. Pages 91-163 in *The Biology and Management of Lobsters* (JS Cobb and BF Phillips, eds). Vol. 1, Academic Press, 463 p.

**Aiken DE**, 1978. Importance of lobster culture research to fisheries management. ICES C.M. 1978/F:18, 9 pp.

**Aiken DE**, 1977. Molting and growth in decapod crustaceans with particular reference to the lobster *Homarus americanus*. Pages 41-73 in Workshop on Lobster and Rock Lobster, Ecology and Physiology. (BF Phillips, JS Cobb, ed). CSIRO Circ. No. 7.

**Aiken DE**, 1973. Proecdysis, setal development and molt prediction in the American lobster (*Homarus americanus*). J. Fish. Res. Board Can. 30: 1337-1344.

**Aiken DE**, 1971. "School Lobsters" from southern Nova Scotia. Fish. Res. Board Canada Manuscript Report No. 1141, 19 pp.

**Aiken DE**, 1969. Photoperiod, endocrinology and the crustacean molt cycle. Science 164: 149-155.

**Aiken D**, 1969. Ovarian maturation and egg laying in the crayfish *Orconectes virilis*: influence of temperature and photoperiod. Can. J. Zool. 47: 931-935.

**Aiken DE**, 1968. Subdivisions of Stage E (ecdysis) in the crayfish *Orconectes virilis*. Can. J. Zool. 46: 153-155.

**Aiken DE**, 1968. The crayfish *Orconectes virilis*: survival in a region with severe winter conditions. Can. J. Zool. 46:207-211.

**Aiken DE**, Rowe WJ, Martin-Robichaud DJ, Waddy SL, 1982. Seasonal differences in the effect of photoperiod on survival and development of larval American lobsters (*Homarus americanus*). J. World Maricul. Soc. 13: 287-293.

**Aiken DE**, Sochasky JB, Wells PG, 1973. Ciliate infestation of the blood of the lobster *Homarus americanus*. ICES C.M.1973/K:46.

**Aiken DE**, Waddy SL, 1992. The growth process in crayfish. Reviews in Aquatic Sciences 6:335-381.

**Aiken DE**, Waddy SL, 1990. Winter temperature and spring photoperiod requirements for spawning in the American lobster (*Homarus americanus*). J. Shellfish Res. 9: 41-43.



- Aiken DE**, Waddy SL, 1990. Interaction of temperature and photoperiod in the regulation of spawning by American lobsters *Homarus americanus*. Can. J. Fish. Aquat. Sci. 46: 145-148.
- Aiken DE**, Waddy SL, 1989. Allometric growth and onset of maturity in male lobsters: the crusher propodite index. J. Shellfish Res. 8: 7-11
- Aiken DE**, Waddy SL, 1987. Molting and growth in crayfish: a review. Can. Tech. Rep. Fish. Aquat. Sci. 1587, 34 pp.
- Aiken DE**, Waddy SL, 1986. Growth of the vasa deferentia of mature male *Homarus americanus*: conflicting results from field and laboratory results. Can. J. Fish. Aquat. Sci. 43: 1453-1457.
- Aiken DE**, Waddy SL, 1986. Environmental influence on recruitment of the American lobster, *Homarus americanus*: a perspective. Can. J. Fish. Aquat. Sci. 43: 2258-2270.
- Aiken DE**, Waddy SL, 1986. Oocyte maturation and spawning in wild American lobsters: lack of evidence for significant regulation by photoperiod. Can. J. Fish. Aquat. Sci. 43:1451-1453.
- Aiken DE**, Waddy SL, 1985. The uncertain influence of spring photoperiod on spawning in the American lobster (*Homarus americanus*). Can. J. Fish. Aquat. Sci. 42: 194-197.
- Aiken DE**, Waddy SL, 1982. Cement gland development, ovary maturation and reproductive cycles in the American lobster. J. Crust. Biol. 2: 315-327.
- Aiken DE**, Waddy SL, 1980. Reproductive Biology. Pages 215-276 in The Biology and Management of Lobsters (JS Cobb and BF Phillips, eds.), Vol. 1, Academic Press, 463 p.
- Aiken DE**, Waddy SL, 1980. Prospects for the development of color phases for lobster population studies. CAFSAC Res. Doc. 80/66.
- Aiken DE**, Waddy SL, Uhazy LS, 1985. Aspects of the biology of *Pseudocarcinonemertes homari*, and its association with the American lobster. Can. J. Fish. Aquat. Sci. 42: 351-356.
- Arsenault AL**, Castell JD, Ottenensmeyer FP, 1984. The dynamics of exoskeletal-epidermal structure during molt in juvenile lobster by electron

microscopic imaging. *Tissue and Cell* 16: 93-106.

**Arsenault AL**, Clattenburg RE, Aiken DE, 1979. The morphology and secretory-transport mechanism of the tegumental glands of the lobster (*Homarus americanus*) as related to the molt cycle. *J. Submicr. Cytol.* 11: 193-207.

**Aiken DE**, 1985. Shrimp. Page 1694 in *The Canadian Encyclopedia*, Vol. III. Hurtig, Edmonton.

**Balch T**, Scheibling RE, Harris LG, Chester CM, Robinson SMC, 1998. Variation in settlement of the green sea urchin (*Strongylocentrotus droebachiensis*) in the northwest Atlantic: Effects of spatial scale and sampling method. Pages 100-104 in *Proceedings of the 9th International Echinoderms Conference* (R Mooi, M Telford, eds). San Francisco, August 1996. A.A. Balkema, Rotterdam 960 pp.

**Barrett BE**, 1968. First occurrence of Greenland halibut (*Reinhardtius hippoglossoides*) in the Bay of Fundy. *J. Fish. Res. Bd. Canada* 25:2721-2722.

**Beckett JS**, Tibbo SN, 1968. Recent changes in size composition of Canadian Atlantic swordfish catches. *ICNAF Redbook*, Part 3: 62-66.

**Beckett JS**, 1968. Longline lures for swordfish. *Fish. Canada* 21:26-27.

**Beckett JS**, Lenarz WH, 1973. Estimation of rates of tag shedding by northwest Atlantic bluefin tuna. *Fish. Bull.* 71:1103-1105.

**Burbanck MP**, Burbanck WD, Dadswell MJ, Gillis GF, 1979. Occurrence and biology of *Cyathura polita* (Stimpson) (Isopoda, Anthuridae) in Canada. *Crustaceana* 37: 31-38.

**Buerkle U**, 1987. Estimation of fish length from acoustic target strengths. *Can. J. Fish. Aquat. Sci.* 44:1782-1785.

**Buerkle U**, 1977. Detection of trawling noise by Atlantic cod (*Gadus morhua* L.). *Mar. Behav. Physiol.* 4:233-242.

**Buerkle U**, 1974. Gill-net catches of cod (*Gadus morhua* L.) in relation to trawling noise. *Mar. Behav. Physiol.* 2:277-281.

**Byard EH**, Aiken DE, 1984. The relationship between molting, reproduction

and a hemolymph female-specific protein in the lobster, *Homarus americanus*. *Comp. Biochem. Physiol.* 77A:749-757.

**Byard EH**, Shivers RR, Aiken DE, 1975. The mandibular organ of the lobster, *Homarus americanus*. *Cell Tiss. Res.* 162:13-22.

**Caddy JF**, 1977. Some approaches to elucidation of the dynamics of swordfish (*Xiphias gladius*) populations. Canada Dept. Fish. Environ. MS Report 1439, 10 p.

**Caddy JF**, 1967. Maturation of gametes and spawning in *Macoma balthica* (L.). *Can. J. Zool.* 45:955-965.

**Caddy JF**, Iles TD, 1973. Underwater observations on herring spawning grounds on Georges Bank. Pages 131-139 in ICNAF Res. Bull. No. 10.

**Caddy JF**, 1973. Underwater observations on tracks of dredges and trawls and some effects of dredging on scallop ground. *J. Fish. Res. Bd. Canada* 30:173-180.

**Caddy JF**, 1972. Progressive loss of byssus attachment with size in the sea scallop, *Placopecten magellanicus* (Gmelin). *J. Exp. Mar. Biol. Ecol.* 9:179-190.

**Caddy JF**, 1970. A method of surveying scallop populations from a submersible. *J. Fish. Res. Bd. Canada* 27:535-549.

**Cadrin SX**, Neilson JD, Gavaris S, Perley P, 2000. Assessment of the Georges Bank yellowtail flounder stock for 2000. Northeast Fish. Sci. Centre Ref. Doc. 00-10: 71 p.

**Cadrin SX**, Overholtz WJ, Neilson JD, Gavaris S, Wigley SE, 1997. Stock Assessment of Georges Bank Yellowtail Flounder. Northeast Fish. Sci. Center Ref. Doc. 97-xx.

**Calcutt M**, Paul S, Neilson J, Murphy O, 2003. National report of Canada. *Int. Comm. Conserv. Atl. Tunas NAT-005*: 9 p.

**Campana SE**, Neilson JD, 1985. Microstructure of fish otoliths. *Can. J. Fish. Aquat. Sci.* 42: 1014-1032

**Campbell A**, 1989. Dispersal of American lobsters, *Homarus americanus*,

tagged off southern Nova Scotia. *Can. J. Fish. Aquat. Sci.* 46: 1824-1844

**Campbell A**, 1986. Implications of size and sex regulations for the lobster fishery of the Bay of Fundy and southwestern Nova Scotia. *Can Spec Publ Fish Aquat Sci* 92: 126-135.

**Campbell A**, 1983. Growth of tagged American lobsters, *Homarus americanus*, in the Bay of Fundy. *Can. J. Fish. Aquat. Sci.* 40, 1667-1675.

**Campbell A**, Mohn R, 1983. Definition of American lobster stocks for the Canadian Maritimes by analysis of fishery-landing trends. *Trans. Amer. Fish. Soc.* 112: 744-759.

**Campbell A**, Robinson DG, 1983. Reproductive potential of three American lobster (*Homarus americanus*) stocks in the Canadian Maritimes. *Can. J. Fish. Aquat. Sci.* 40: 1958-1967

**Campbell A**, Stasko AB, 1986. Movements of lobsters (*Homarus americanus*) tagged in the Bay of Fundy, Canada. *Mar. Biol.* 92: 393-404.

**Campbell A**, Stasko AB, 1985. Movements of tagged American lobsters, *Homarus Americanus*, off southwestern Nova Scotia. *Can. J. Fish. Aquat. Sci.* 42: 229-238.

**Carruthers EH**, Neilson JD, Perley P, Clark D, Smith S, 2003. Evaluation of research vessel and ITQ survey data as abundance indices for pollock. *Can. Sci. Advis. Sec. Res. Doc.* 2003/110: 40 p.

**Castell JD**, Kean JC, 1986. Evaluation of the role of nutrition in lobster recruitment. *Can. J. Fish. Aquat. Sci.* 43: 2320-2327.

**Charmantier G**, Aiken DE, 1987. Osmotic regulation in late embryos and prelarvae of the American lobster *Homarus americanus* H. Milne-Edwards, 1837 (Crustacea, Decapoda). *J. Exp. Mar. Biol. Ecol.* 109:-101-108.

**Charmantier G**, Aiken DE, 1987. Intermediate larval and postlarval stages of *Homarus americanus* H. Milne Edwards, 1837 (Crustacea, Decapoda). *J. Crust. Biol.* 7: 525-535.

**Charmantier G**, Charmantier-Daures M, Aiken DE, 1991. Metamorphosis in the lobster *Homarus* (Decapoda): A review. *J. Crust. Biol.* 11: 481B495.

**Charmantier G**, Charmantier-Daures M, Aiken DE, 1985. Intervention des p, doncles oculaires dans le contr le de la metamorphose chez *Homarus americanus* H. Milne Edwards, 1837 (Crustacea, Decapoda). C.R. Acad. Sci. Paris (Ser. III) 300:271-276.

**Charmantier G**, Charmantier-Daures M, Aiken DE, 1984. Variation des capacit, s osmor, gularices des larves et postlarves de *Homarus americanus* H. Milne-Edwards, 1837 (Crustacea, Decapoda). C.R. Acad. Sci. Paris (Ser. III) 299:863-866.

**Charmantier G**, Charmantier-Daures M, Aiken DE, 1984. Neuroendocrine control of hydromineral regulation in the American lobster *Homarus americanus* H. Milne-Edwards, 1837 (Crustacea, Decapoda). 2-Larval and postlarval stages. Gen. Comp. Endocrinol. 54: 20-24.

**Charmantier G**, Charmantier-Daures M, Aiken DE, 1984. Neuroendocrine control of hydromoneral regulation in the American lobster *Homarus americanus* H. Milne-Edwards, 1837 (Crustacea, Decapoda). 1-Juveniles. Gen. Comp. Endocrinol. 54: 8-19.

**Charmantier G**, Charmantier-Daures M, Aiken DE, 1982. Controle neuroendocrine de la regulation osmotique et ionique chez les juveniles et les larves de *Homarus americanus*. C.R. Acad. Sci. Paris Ser. III, 293:831-834.

**Charmantier G**, Charmantier-Daures M, Bouaricha N, Thuet P, Aiken DE, Trilles J-P, 1988. Ontogeny of osmoregulation and salinity tolerance in two decapod crustaceans: *Homarus americanus* and *Penaeus japonicus*. Biol. Bull. 175: 102-110.

**Charmantier G**, Charmantier-Daures M, Waddy SL, Aiken DE, 1991. Salinity tolerance and osmoregulation in the nemertean *Pseudocarcinonemertes homari*. Can. J. Fish. Aquat. Sci. 48: 209-214.

**Charmantier-Daures M**, Charmantier G, Janssen KPC, Aiken DE, Van Herp F, 1994. Involvement of eyestalk factors in the neuroendocrine control of osmoregulation in adult American lobster *Homarus americanus*. Gen. Comp. Endocrin. 94: 281-293.

**Charmantier-Daures M**, Charmantier G, Van Deijnen JE, Van Herp F, Thuet P, Trilles J-P, Aiken DE, 1988. Isolement d'un facteur p, donculaire intervenant dans le control neuroendocrine du m, tabolisme hydromin, ral de *Homarus americanus* (Crustacea, Decapoda). Premiers r, sultats. C.R. Acad. Sci. Paris 307 (s, r. III): 439-44.

**Chou CL**, Uthe JF, Castell JD, Kean JC, 1987. Effect of dietary cadmium on growth, survival and tissue concentrations of cadmium, zinc, copper and silver in juvenile American lobster (*Homarus americanus*), Can. J. Fish. Aquat. Sci., 44, 1443-1450.

**Chambers RC**, Trippel EA (eds.), 1997. Early life history and recruitment in fish populations. Chapman & Hall, New York. 565 p.

**Clark DS**, Gavaris S, Hinze JM, 2002. Assessment of cod in Division 4X in 2002. Can. Sci. Advis. Sec. Res. Doc. 2002/105: 50 p.

**Clark DS**, Hinze J, Gavaris S, 2003. Assessment of cod in Division 4X in 2003. Can. Sci. Advis. Sec. Res. Doc. 2003/115.

**Clark D**, Neilson JD, Hurley P, Perley P, Fowler M, 1998. Shifts in fishing effort, commercial landings and resource distribution for cod, haddock, pollock and white hake in NAFO Division 4X. Can. Stock Assess. Secretar. Res. Doc. 98/58: 16 p.

**Cochrane NA**, Sameoto D, Herman AW, Neilson JD, 1991. Multiple-frequency acoustic backscattering and zooplankton aggregations in the inner Scotian Shelf Basins. Can. J. Fish. Aquat. Sci. 48: 340-355.

**Dadswell MJ**, 1984. Status of the shortnose sturgeon, *Acipenser brevirostrum*, in Canada. Can. Field Natur. 98:75-79.

**Dadswell MJ**, 1979. Biology and population characteristics of the shortnose sturgeon, *Acipenser brevirostrum* LeSueur 1818 (Osteichthyes:Acipenseridae), in the Saint John River Estuary, New Brunswick, Canada. Can. J. Zool. 57:2186-2210.

**Dadswell MJ**, 1979. Biology and population characteristics of the shortnose sturgeon, *Acipenser brevirostrum* LeSueur 1818 (Osteichthyes: Acipenseridae), in the Saint John River Estuary, New Brunswick, Canada. Can. J. Zool. 11: 2186-2210.

**Dadswell MJ**, 1979. A review of the decline in lobster (*Homarus americanus*) landings in Chedabucto Bay between 1956 and 1977 with an hypothesis for a possible effect by the Canso Causeway on the recruitment mechanism of eastern Nova Scotia lobster stocks. Pages 113-144 in Canso Marine Environment Workshop. Fishery Impacts (FD McCracken, ed). Fish. Mar.

Serv. Tech. Rep. 834 (Part 3).

**Dehn PF**, Haya K, Aiken DE, 1985. Adenylate energy charge, arginine phosphate and ATPase activity in juvenile *Homarus americanus* during the molt cycle. *Comp. Biochem. Physiol.* 81B:629-633.

**Dadswell MJ**, 1976. The biology of the shortnose sturgeon, *Acipenser brevirostrum* Lesueur, in the Saint John River estuary, New Brunswick. *Trans. Can. Soc. Environ. Biol.*: 20-72.

**Dadswell MJ**, 1975. Some notes on shoaling behavior and growth of *Mysis gaspensis* (Mysidacea) in a small Newfoundland estuary. *Can. J. Zool.* 53: 374-377.

**Dadswell MJ**, Bousfield EL, 1970. The opossum shrimp of the Ottawa region. *Trail and Landscape* 4: 6-11.

**Dadswell MJ**, 1968. Atlantic salmon (*Salmo salar*) investigation in the Point Wolfe and Upper Salmon Rivers, Fundy National Park. MS Rep., Limnology Section, Canadian Wildlife Service.

**da Silva J**, Neilson JD, 1985. Limitations of using otoliths recovered in scats to estimate prey consumption in seals. *Can. J. Fish. Aquat. Sci.* 42: 1439-1442.

**Dehn PF**, Aiken DE, Waddy SL, 1983. Aspects of vitellogenesis in the lobster *Homarus americanus*. *Can. Tech. Rep. Fish. Aquat. Sci.* 1161:1-24.

**Desjardins JD**, Castell JD, Kean JC. 1985. Synthesis of dehydroascorbic acid by subadult lobsters (*Homarus americanus*). *Can. J. Fish. Aquat. Sci.* 42: 370-373.

**Daye PG**, 1980. Attempts to acclimate embryos and alevins of Atlantic salmon, *Salmo salar*, and rainbow trout, *S. gairdneri*, to low pH. *Can. J. Fish. Aquat. Sci.* 37: 1035-1038.

**Doubleday WG**, 1975. Harvesting in matrix population models. *Biometrics* 31:189-200.

**Dowd M**, 1997. On predicting the growth of cultured bivalves. *Ecol. Model.* 104:113-131.

**Eagles MD**, Aiken DE, Waddy SL, 1986. Influence of light and food on larval

American lobsters. *Can. J. Fish. Aquat. Sci.* 43: 2303-2310.

**Elnor R**, 1981. Diet of green crab *Carcinus maenas* (L.) from Port Hebert, southwestern Nova Scotia. *J. Shellfish Res.* 1: 89-94.

**Elnor RW**, 1980. The influence of temperature, sex and chela size in the foraging strategy of the shore crab, *Carcinus maenas* (L.). *Mar. Behav. Physiol.* 7: 15-24.

**Elnor RW**, Campbell A, 1981. Force, function and mechanical advantage in the chelae of the American lobster *Homarus americanus* (Decapoda: Crustacea). *J. Zool. Lond.* 193: 269-286.

**Elnor RW**, Elnor JK, 1980. Observations on a simultaneous mating embrace between a male and two female rock crabs *Cancer irroratus* (Decapoda, Brachyura). *Crustaceana* 38: 96-98.

**Elnor R**, Jamieson G, 1979. Predation of sea scallops, *Placopecten magellanicus*, by the rock crab, *Cancer irroratus*, and the American lobster, *Homarus americanus*. *J. Fish. Res. Bd. Canada* 36: 537-543.

**Elnor RW**, Stasko AB, 1978. Mating behavior of the rock crab, *Cancer irroratus*. *J. Fish. Res. Bd. Canada* 35: 1385-1388.

**Elnor PF**, 1974. Impact of recent economic growth and industrial development on the ecology of Northwest Miramichi Atlantic salmon (*Salmo salar*). *J. Fish. Res. Bd. Canada* 31:521-544.

**Elnor PF**, 1942. Effect of temperature on activity of *Salvelinus fontinalis*. *J. Fish. Res. Bd. Canada* 5:461-470.

**Elnor PF**, 1940. Effects of current on the movement of speckled trout. *J. Fish. Res. Bd. Canada* 4:491-499.

**Fordham SE**, Trippel EA, 1999. Feeding behaviour of cod (*Gadus morhua*) in relation to spawning. *J. Appl. Ichthyol.* 15: 1-9.

**Funk F**, Blackburn J, Hay D, Paul AJ, Stephenson R, Toresen R, Witherell D (Editors), 2001. Herring: expectations for a new millennium. Univ. Alaska Sea Grant, AK-SG-01-04, Fairbanks. ISBN 1-56612-070-5.

**Gavaris S**, 2003. Eastern Georges Bank haddock. DFO Sci. Stock Assess.



Rep. 203/41: 6 p.

**Gavaris S**, Hunt JJ, Neilson JD, Page F, 1996. Assessment of Georges Bank yellowtail flounder. DFO Atl. Fish. Res. Doc. 96/22.

**Gavaris S**, Ianelli JN, 2002. Statistical issues in fisheries' stock assessments. Scand. J. Stat. 29: 245-271.

**Gavaris S**, VanEeckhaute L, 2002. Assessment of haddock on eastern Georges Bank. DFO Can. Sci. Advis. Sec. Res. Doc. 2002/066: 59 p.

**Gendron L**, Robinson SMC (eds), 1994. The development of underutilized invertebrate fisheries in eastern Canada. Can. MS Rep. Fish. Aquat. Sci. 2247:vii+129p.

**Godbout L**, Robinson SMC, 1996. Exploitation de l'oursin. In: Proceedings from Atelier Sur le Developpement Durable de l'Oursin Vert. March 27-28 1996. Grande-Riviere, Quebec. 8 p.

**Halliday RG**, 1971. Recent events in the haddock fishery of the eastern Scotian Shelf. ICNAF Res. Bull 8:49-58.

**Halliday RG**, 1970. Growth and vertical distribution of the glacier lanternfish, *Benthoosema glaciale*, in the northwestern Atlantic. J. Fish. Res. Bd. Canada 27:105-116.

**Halliday RG**, 1969. Occurrence and morphometrics of *Chlorophthalmus agassizi* (Iniomi: Chlorophthalmidae) off southwestern Nova Scotia. J. Fish. Res. Bd. Canada 26:469-472.

**Hanke AR**, Page FH, Neilson J, 2000. Distribution of Atlantic cod (*Gadus morhua*) eggs and larvae on the Scotian Shelf. Can. Tech. Rep. Fish. Aquat. Sci. 2308. 140 p.

**Harris LE**, Comeau PA, Clark DS, 2002. Evaluation of cusk (*Brosme brosme*) in Canadian waters. DFO Can. Sci. Advis. Sec. Res. Doc. 2002/104.

**Hay DE**, Toresen R, Stephenson R, Thompson M, Claytor R, Funk F, Ivshina E, Jakobsson J, Kobayashi T, McQuinn I, Melvin G, Molloy J, Naumenko N, Oda KT, Parmanne R, Power M, Radchenko V, Schweigert J, Simmonds J, Sjöstrand B, Stevenson DK, Tanasichuk R, Tang Q, Watters DL, Wheeler J, 2001. Taking stock: an inventory and review of world herring stocks in 2000.

Pages 281-454 in Herring: expectations for a new millennium (F Funk, J Blackburn, D Hay, AJ Paul, R Stephenson, R. Toresen, D Witherell, eds.). Univ. Alaska Sea Grant, AK-SG-01-04, Fairbanks.

**Haya K**, Martin JL, Waiwood BA, Burrige LE, Hungerford JM, Zitko V, 1990. Identification of paralytic shellfish toxins in mackerel from southwest Bay of Fundy, Canada. Pages 350-355 in Toxic marine phytoplankton (E Graneli, B Sundstrom, L Edler, DM Anderson, eds.). Elsevier, New York, NY.

**Hellou J**, Zitko V, Friel J, Alkanani T, 1996. Distribution of elements in tissues of yellowtail flounder *Pleuronectes ferruginea*. Sci. Total Environ. 181: 137-146.

**Hunt JJ**, Buzeta M-I, Neilson JD, 1991. Assessment of 5Zc Atlantic Cod. CAFSAC Res. Doc. 91/41: 21 p.

**Hunt JJ**, Hatt B, 2002. Population status of the eastern Georges Bank cod (Unit Areas 5Zj,m) for 1978-2002. DFO Can. Sci. Advis. Sec. Res. Doc. 2002/072.

**Hunt JJ**, Neilson JD, 1993. Is there a separate stock of Atlantic cod in the western side of the Bay of Fundy? N. Am. J. Fish. Manag. 13: 421-436.

**Iles TD**, 1993. The management of the Canadian Atlantic herring fisheries. Canadian Bull. Fish. Aquat. Sci. 226:123-150.

**Iles TD**, Caddy JF, 1972. Submersible study on Georges Bank reveals vulnerability of Atlantic herring stocks. World Fishing 21:14-16.

**Iles TD**, 1964. The duration of maturation stages in herring. J. Cons. Expl. Mer. 29:166-188.

**Jamieson GS**, Campbell A, 1985. Sea scallop fishing impact on American lobsters in the Gulf of St. Lawrence. Fish. Bull. 83: 575-586.

**Jamieson G**, Stone H, Etter M, 1982. Predation of sea scallops (*Placopecten magellanicus*) by lobsters (*Homarus americanus*) and rock crabs (*Cancer irroratus*) in underwater cage enclosures. Can. J. Fish. Aquat. Sci. 39: 499-505.

**Koeller PA**, Coates-Markle L, Neilson JD, 1989. Feeding ecology of juvenile (0-group) silver hake (*Merluccius bilinearis*) on the Scotian Shelf. Can. J. Fish.

Aquat. Sci. 46: 1762-1768.

**Koeller P**, Coates-Markle L, Perley P, Neilson JD, 1985. Juvenile fish surveys on the Scotian Shelf: implications for year-class size assessments. NAFO Res. Doc. 85/83: 31 p.

**Koeller PA**, Hurley PCF, Perley P, Neilson JD, 1986. Juvenile fish surveys on the Scotian Shelf: implications for year-class size assessments. J. Cons. Int. Explor. Mer. 43: 59-76.

**Koeller PA**, Neilson JD, Waldron DE, 1984. The Canada-USSR surveys of juvenile silver hake (*Merluccius bilinearis*) on the Scotian Shelf: abundance indices, distribution and comparison with independent estimates of juvenile abundance, 1978-83. NAFO SCR Doc. 84/VI/87: 10 p.

**Koeller PA**, Perley P, Neilson JD, 1986. Canadian juvenile silver hake abundance estimates from joint Canada-USSR Surveys on the Scotian Shelf. NAFO SCR Doc. 86/54: 11 p.

**Kohler AC**, 1964. Movements of halibut on the Nova Scotian and Grand Banks. J. Fish. Res. Bd. Canada 21:837-840.

**Kohler AC**, 1964. Variations in the growth of Atlantic cod (*Gadus morhua* L.). J. Fish. Res. Bd. Canada 21:57-100.

**Kohler AC**, 1960. The growth, length-weight relationship, and maturity of haddock (*Melanogrammus aeglefinus* L.) from the region of Lockeport, N.S. J. Fish. Res. Bd. Canada 17:41-60.

**Kohler AC**, 1958. The validity of otolith age determinations for haddock (*Melanogrammus aeglefinus* L.) from the Lockeport, N.S. area. J. Fish. Res. Bd. Canada 15:1229-1238.

**Kohler AC**, Clark JR, 1958. Haddock scale-otolith comparisons. J. Fish. Res. Bd. Canada 15:1239-1246.

**Kohler AC**, Fitzgerald DN, 1969. Comparisons of food of cod and haddock in the Gulf of St. Lawrence and on the Nova Scotia Banks. J. Fish. Res. Bd. Canada 26:1273-1287.

**Lane DE**, Stephenson RL, 1999. Fisheries-management science: a framework for the implementation of fisheries-management systems. Int. Counc. Explor.

Sea. J. Mar. Sci. 56:1059-1066.

**Lawton P**, Robichaud DA, Rangeley RW, Strong MB, 2001. American lobster, *Homarus americanus*, population characteristics in the lower Bay of Fundy (Lobster Fishing Areas 36 and 38) based on fishery independent sampling. DFO Can. Sci. Advis. Sec. Res. Doc. 2001/093: 28 p.

**Lawton P**, Robichaud DA, Strong MB, Pezzack DS, Frail CF, 2001. Spatial and temporal trends in the American lobster, *Homarus americanus*, fishery in the Bay of Fundy (Lobster Fishing Areas 35, 36 and 38). DFO Can. Sci. Advis. Sec. Res. Doc. 2001/094: 70 p.

**Lett PF**, Kohler AC, 1976. Recruitment: a problem of multispecies interaction and environmental perturbations, with special reference to Gulf of St. Lawrence Atlantic herring (*Clupea harengus harengus*). J. Fish. Res. Bd. Canada 33:1353-1371.

**Lett PF**, Kohler AC, Fitzgerald DN, 1975. Role of stock biomass and temperature in recruitment of southern Gulf of St. Lawrence Atlantic cod, *Gadus morhua*. J. Fish. Res. Bd. Canada 32:1613-1627.

**McCracken FD**, 1958. On the biology and fishery of the Canadian Atlantic halibut, *Hippoglossus hippoglossus* L. J. Fish. Res. Bd. Canada 15:1269-1311.

**McLeese DW**, 1974. Olfactory responses of lobsters (*Homarus americanus*) to solutions for prey species and to seawater extracts and chemical fractions of fish muscle and effects of antennule ablation. J. Mar. Behav. Physiol. 2: 237-249.

**McLeese DW**, 1973. Response of lobsters, *Homarus americanus*, to odor solution in the presence of bleached kraft mill effluent. J. Fish. Res. Board Can. 30: 279-282.

**McLeese DW**, 1973. Chemical communication among lobsters (*Homarus americanus*). J. Fish. Res. Board Can. 30: 775-778.

**McLeese DW**, 1973. Orientation of lobsters (*Homarus americanus*) to odor. J. Fish. Res. Board Can. 30: 838-540.

**McLeese DW**, 1970. Behaviour of lobsters exposed to bleached kraft mill effluent. J. Fish. Res. Board Can. 27: 731-736.

- McLeese DW**, 1970. Detection of dissolved substances by the American lobster (*Homarus americanus*) and olfactory attraction between lobsters. J. Fish. Res. Board Can. 27: 1371-1378.
- McLeese DW**, 1965. Lesions on the abdominal membrane of lobsters. J. Fish. Res. Board Can. 22: 639-640.
- McLeese DW**, 1964. Oxygen consumption of the lobster, *Homarus americanus* Milne-Edwards. Helgol. wiss. Meeresunters. 10(1-4): 7-18.
- McLeese DW**, 1958. Air shipment of lobsters. Dept. Fish. Canada, Trade News 10(9): 5-6.
- McLeese DW**, 1956. Effects of temperature, salinity and oxygen on the survival of the American lobster. J. Fish. Res. Bd. Canada 13:247-272.
- McLeese DW**, Spraggins RL, Bose AK, Pramanik BN. Chemical and behavioural studies of the sex attractant of the lobster (*Homarus americanus*). Mar. Behav. Physiol. 4: 219-232.
- McLeese DW**, Watson J, 1968. Oxygen consumption of the spider crab (*Chionoecetes opilio*) and the American lobster (*Homarus americanus*) at a low temperature. J. Fish. Res. Board Can. 25: 1729-1732.
- McLeese DW**, Wilder DG, 1967. Le homard: entreposage et expedition. Bull. Fish. Res. Board Can. 147 (French edition), 75 p.
- McLeese DW**, Wilder DG, 1964. Lobster storage and shipment. Bull. Fish. Res. Board Can. 147: 69 p.
- McLeese DW**, Wilder DG, 1958. The activity and catchability of the lobster (*Homarus americanus*) in relation to temperature. J. Fish. Res. Bd. Canada 15:1345-1354.
- McLeese DW**, Wilder DG, 1955. Suitable holding conditions for live lobsters. Fish. Res. Bd. Canada, Atlantic Prog. Rept. 62:24-30.
- McLeese DW**, 1968. Temperature resistance of the spider crab, *Chionoecetes opilio*. J. Fish. Res. Board Can. 25: 1733-1736.
- McLeese DW**, Watson J, 1968. Oxygen consumption of the spider crab (*Chionoecetes opilio*) and the American lobster (*Homarus americanus*) at a low

temperature. J. Fish. Res. Board Can. 25: 1729-1732.

**McPherson AA**, Stephenson RL, O'Reilly PT, Jones MW, Taggart CT, 2001. Genetic diversity of coastal Northwest Atlantic herring populations: implications for management. J. Fish Biol. 59: 356-370.

**McPherson AA**, Stephenson RL, Taggart CT, 2003. A genetic basis for Atlantic herring *Clupea hargneus* spawning waves. Mar. Ecol. Prog. Ser. 247: 303-309.

**Martell DJ**, McClelland G, 1994. Diets of sympatric flatfishes, *Hippoglossoides platessoides*, *Pleuronectes ferrugineus*, *Pleuronectes americanus*, from Sable Island Bank, Canada. Journal of Fish Biology, 44:821-848.

**Mahon R**, Neilson JD, 1987. Diet changes in Scotian Shelf haddock during the pelagic and demersal phases of the first year of life. Mar. Ecol. Prog. Ser. 37: 123-130.

**Marshall EA**, Quinn TP, Roff DA, Hutchings JA, Metcalfe NB, Bakke TA, Saunders RL, LeRoy Poff, N, 1998. A framework for understanding Atlantic salmon (*Salmo salar*) life history. Can. J. Fish. Aquat. Sci. 55 (Suppl.): 45-58.

**Martin-Robichaud DJ**, Peterson RH, 1998. Effects of light intensity, photoperiod and tank colour on swimbladder inflation success in larval striped bass (*Morone saxatilis*) Aquacult. Res. 29: 539-547.

**Martin-Robichaud DJ**, Rommens MA, 1998. Effects of temperature and salinity on fertilization of halibut eggs. Bull. Aquacult. Assoc. Can. 98-2: 27-29.

**Mayer LA**, Li Y, Melvin GD, 2002. 3-D visualization for pelagic fisheries assessment and research. Int. Counc. Explor. Sea J. Mar. Sci. 59: 216-225.

**Medcof JC**, 1966. Incidental records on behaviour of eels in Lake Ainslie, Nova Scotia. J. Fish. Res. Bd. Canada 23:1101-1105.

**Medcof JC**, 1962. Effect of hydraulic escalator harvester on under-size soft-shell clams. Proc. Natl. Shellfish. Assoc., 50:151-161.

**Medcof JC**, 1955. Day and night characteristics of spatfall and of behaviour of oyster larvae. J. Fish. Res. Bd. Canada 12:270-286.

**Medcof JC**, 1946. Effect of relaying and transferring on fatness of oysters. *J. Fish. Res. Bd. Canada* 6:449-455.

**Medcof JC**, Clarke AK Jr, Erskine JS, 1965. Ancient Canadian east-coast oyster and quahaug shells. *J. Fish. Res. Bd. Canada* 22:631-634.

**Medcof JC**, MacPhail JS, 1967. Fishing efficiency of clam hacks and mortalities incidental to fishing. *Proc. Nat. Shellfish. Assoc.* 55:53-72.

**Melvin GD**, Annis LM, Power MJ, Clark KJ, Fife FJ, Stephenson RL, 2003. Herring acoustic surveys for 2002 in NAFO Divisions 4WX. *DFO Can. Sci. Advis. Sec. Res. Doc.* 2003/034: 46 p.

**Melvin GD**, Annis LM, Power MJ, Fife FJ, Clark KJ, Stephenson RL, 2002. Herring acoustic surveys for 2001 in NAFO Divisions 4WX. *Can. Stock Assess. Sec. Res. Doc.* 2002/044: 51 p.

**Melvin GD**, Dadswell MJ, Martin JD, 1986. Fidelity of American shad, *Alosa sapidissima* (Clupeidae), to its river of previous spawning. *Can. J. Fish. Aquat. Sci.* 43:640-646.

**Melvin GD**, Li Y, Mayer LA, Clay A, 2002. Commercial fishing vessels, automatic acoustic logging systems and 3-D data visualization. *Int. Council. Explor. Sea J. Mar. Sci.* 59: 179-190.

**Melvin GD**, Stephenson RL, Power MJ, Fife FJ, Clark KJ, 2001. Industry acoustic surveys as the basis for in-season decisions in a co-management regime. Pages 678-688 in *Herring: expectations for a new millennium* (F Funk, J Blackburn, D Hay, AJ Paul, R Stephenson, R. Toresen, D Witherell, eds.). Univ. Alaska Sea Grant, AK-SG-01-04, Fairbanks.

**Moghim M**, Neilson JD., 1999. Imminent collapse of the Caspian Sea Stellate Sturgeon (*Acipenser stellatus*). *Ambio* 28: 372-373.

**Morgan MJ**, Trippel EA, 1996. Skewed sex ratios in spawning shoals of Atlantic cod (*Gadus morhua*). *ICES J. Mar. Sci.* 53: 820-826.

**Moriyasu M**, Benhalima K, Duggan D, Lawton P, Robichaud D, 2002. Reproductive biology of male Jonah crab, *Cancer borealis* Stimpson, 1859 (DECAPODA: Cancridae) on the Scotian Shelf, northwestern Atlantic. *Crustaceana* 75: 891-913.

**Morrison CM**, Leggiadro CT, Martell DJ, 1996. Visualization of viruses in tumors of rainbow smelt *Osmerus mordax*. *Diseases of Aquatic Organisms*, 26:19-23.

**Morrison CM**; Martell DJ; Leggiadro C, 1997. Ciliated epithelium in the developing digestive tract of the larva of the Atlantic halibut, and comparison with that of the cod. *Journal of Fish Biology (London)* 50:120-126

**Morrison CM**, Martell DJ, Leggiadro C; O'Neil D, 1996. *Ceratomyxa drepanopsettae* in the gallbladder of Atlantic halibut, *Hippoglossus hippoglossus*, from the northwest Atlantic Ocean. *Folia Parasitologica*, 43:20-36.

**Murawski SA**, Rago PJ, Trippel EA, 2001. Impacts of demographic variation in spawning characteristics on reference points for fishery management. *ICES J. Mar. Sci.* 58: 1002-1014.

**Neilson JD**, 2003. Potential indicators of pollock productivity. *DFO Can. Sci. Advis. Sec. Res. Doc.* 2003/111: 14 p.

**Neilson JD**, 1992. Sources of error in otolith microstructure examination. *Can. J. Fish. Aquat. Sci. Spec. Publ.* 117: 115-126.

**Neilson JD**, Aiken KA, Mahon RM, 1999. Potential yield estimates for reef fisheries: a review of approaches and their limitations with special reference to the Caribbean. *Proc. Gulf Caribb. Fish. Inst.* 46: 360-376.

**Neilson JD**, Annis L, Perley P, Clay A, Croft C, O'Connor M, 2002. Seasonal aggregations of Canadian east coast pollock as inferred from the commercial fishery and hydroacoustic observations. *J. Fish Biol.* 61: 1067-1084.

**Neilson JD**, Bowering WR, 1989. Minimum size regulations and the implication for yield and value in the Canadian Atlantic halibut fishery. *CAFSAC Res.Doc.* 89/5.

**Neilson JD**, Bowering WR, 1989. Minimum size regulations and the implications for yield and value in the Canadian Atlantic halibut (*Hippoglossus hippoglossus*) fishery. *Can. J. Fish. Aquat. Sci.* 46: 1899-1903.

**Neilson JD**, Bowering WR, Frechet A, 1987. Management concerns for Atlantic halibut (*Hippoglossus hippoglossus*) in the Canadian North Atlantic. *CAFSAC Res. Doc.* 87/73: 22 p.



**Neilson JD**, Buzeta M-I, Hunt J, 1991. Comparison of the catch at age matrices used by Canada and the United States in the assessment of Georges Bank cod. CAFSAC Res. Doc. 91/51.

**Neilson JD**, Cadrin SX, 1998. The 1998 assessment of Georges Bank (5Zjmnh) yellowtail flounder. Can. Stock Assess. Secretar. Res. Doc. 98/67: 90 p.

**Neilson JD**, Campana SE, 1990. Comment on: larval fish age, growth and body shrinkage: information available from otoliths. Can. J. Fish. Aquat. Sci. 47: 2461-2463.

**Neilson JD**, Clark S, 1997. Proceedings of the 13th Canada/USA Fisheries Discussions. Can. Stock Assess. Ser. 97/13: 28 p.

**Neilson JD**, Clark D, Trippel E, Annand C, Branton B, Fanning P, Hurley P, McRuer J, Zwanenburg K, 1995. Survey update for selected Scotia-Fundy groundfish stocks. Survey update for selected Scotia-Fundy Stocks. DFO Atl. Fish. Res. Doc. 95/113.

**Neilson JD**, Clark D, Melvin GD, Perley P, Stevens C, 2003. The diel-vertical distribution and characteristics of pre-spawning aggregations of pollock (*Pollachius virens*) as inferred from hydroacoustic observations: the implications of survey design. ICES J. Mar. Sci. 60: 1-12.

**Neilson JD**, Dale CE, 1984. A review of the 4VWX flatfish stocks. CAFSAC Res. Doc. 84/127: 36 p.

**Neilson JD**, DeBlois EM, Hurley PCF, 1988. The stock structure of Scotian shelf flatfish as inferred from examination of ichthyoplankton survey data and distribution mature females. Can. J. Fish. Aquat. Sci. 45: 1674-1685.

**Neilson JD**, Hurley P, 1986. Stock structure of American plaice, witch and winter flounder in the Gulf of Maine area: implications for management. CAFSAC Res. Doc. 86/63: 35 p.

**Neilson JD**, Gavaris S, Hunt JJ, 1997. 1997 Assessment of Georges Bank (5Zjmnh) Yellowtail Flounder (*Limanda ferruginea*). Can. Stock Assess. Secretar. Res. Doc. 97/55: 74 p.

**Neilson JD**, Gavaris S, Perley P, 1999. 1999 Update of stock status of Georges Bank (5Zjmnh) yellowtail flounder. Can. Stock Assess. Secretar. Res. Doc. 99/73: 73 p.

**Neilson JD**, Heileman S, Singh-Renton S, 1994. Comparison of hard parts of blackfin tuna (*Thunnus atlanticus*) for age determination purposes. ICCAT Selected Papers.

**Neilson JD**, Hurley P, Perry RI, 1986. Stock structure of yellowtail flounder in the Gulf of Maine area: implications for management. CAFSAC Res. Doc. 86/64: 28 p.

**Neilson JD**, Kearney JF, Perley P, Sampson H, 1993. Reproductive biology of Atlantic halibut (*Hippoglossus hippoglossus*) in Canadian waters. Can. J. Fish. Aquat. Sci. 50: 551-563.

**Neilson JD**, Moksness E, 1995. Otolith applications to population biology: overview. Pages 399-401 in Recent Developments in Fish Otolith Research (DH Secor, JM Dean and SE Campana, eds). University of Carolina Press, Columbia, South Carolina.

**Neilson JD**, Murray PA, 1999. Wahoo (*Acanthocybium solandri*) landings in the Lesser Antilles: biased samples cause problems for stock assessment. Proc. Gulf Caribb. Fish. Inst. 46: 346-359.

**Neilson JD**, Nelson C, Perley, P, 1996. Development, evaluation and monitoring of new age readers for 4VWX5Zc pollock. DFO Atl. Fish. Res. Doc. 96/85.

**Neilson JD**, Perley P, 1995. The 1994 Assessment of Pollock (*Pollachius virens*) in NAFO Divisions 4VWX and Subdivision 5Zc. DFO Atl. Fish. Res. Doc. 95/30.

**Neilson JD**, Perley P, 1995. Can ichthyoplankton data be used to describe spawning areas of marine fish? Can. Tech. Rep. Fish. Aquat. Sci. 2100:129-146.

**Neilson JD**, Perley P, 1988. An update on the status of the 4VWX flatfish stocks. CAFSAC Res.Doc. 88/57: 33 p.

**Neilson JD**, Perley P, 1987. A brief biological update on the 1986 Scotian Shelf flatfish fisheries. CAFSAC Res. Doc. 87/69: 15 p.

**Neilson JD**, Perley P, 1986. A review of the status of the 4VWX flatfish stocks (exclusive of the halibuts). CAFSAC Res. Doc. 86/48: 31 p.

**Neilson JD**, Perley P, 1985. A review of the status of the 4VWX flatfish stocks (exclusive of the halibuts). CAFSAC Res. Doc. 85/42: 32 p.

**Neilson JD**, Perley P, Carruthers EH, Stobo W, Clark D, 2003. Stock structure of pollock in NAFO Divs. 4VWX5Zc. DFO Can. Sci. Advis. Sec. Res. Doc. 2003/045: 56 p.

**Neilson JD**, Perley P, Clark DS, Gavaris S, 2002. Condition of Atlantic cod in NAFO Div. 4X. DFO Can. Sci. Advis. Sec. Res. Doc. 2002/080: 14 p.

**Neilson JD**, Perley P, Fowler M, Clark D, 2003. An evaluation of commercial fishery catch rates as an index of abundance of pollock in NAFO Divs. 4X5. DFO Can. Sci. Advis. Sec. Res. Doc. 2003/109: 50 p.

**Neilson JD**, Perley P, Nelson C, 1998. The 1998 assessment of pollock (*Pollachius virens*) in NAFO Divisions 4VWX and Subdivision 5Zc. Can. Stock Assess. Secretar. Res. Doc. 98/144: 75 p.

**Neilson JD**, Perley P, Nelson C, 1997. 1997 Assessment of Pollock (*Pollachius virens*) in NAFO Divisions 4VWX and Subdivision 5Zc. Can. Stock Assess. Secretar. Res. Doc. 97/109: 97 p.

**Neilson JD**, Perley P, Nelson C, Johnston T, Zwanenburg K, 1999. The 1999 assessment of pollock (*Pollachius virens*) in NAFO Divisions 4VWX and Subdivision 5Zc. Can. Stock Assess. Secretar. Res. Doc. 98/144: 77 p.

**Neilson JD**, Perley P, Stevens C, Clark D, Melvin G, 2003. Can hydroacoustic survey approaches yield abundance indices of pollock on the Scotian Shelf? DFO Can. Sci. Advis. Sec. Res. Doc. 2003/075: 33 p.

**Neilson JD**, Perry RI, 1990. Diel vertical migrations of juvenile fish: an obligate or facultative process? Adv. Mar. Biol. 26: 115-168.

**Neilson JD**, Perry RI, Valerio P, Waiwood KG, 1986. Condition of Atlantic cod (*Gadus morhus*) larvae after the transition to exogenous feeding: morphometrics, buoyancy and predator avoidance. Mar. Ecol. Prog. Ser. 32: 229-235.

**Neilson JD**, Stobo WT, Perley P, 2003. Age and growth of Canadian East Coast pollock: comparison of results from otolith examination and mark-recapture studies. Trans. Am. Fish. Soc. 132: 536-545.

- Neilson JD**, Waiwood KG, Smith SJ, 1989. Survival of Atlantic halibut (*Hippoglossus hippoglossus*) caught in longline and otter trawl gear. *Can. J. Fish. Aquat. Sci.* 46: 887-897.
- O'Boyle RN**, Annand C, Branton B, Hurley P, Mohn R, Zwanenburg K, Clark D, Neilson J, Trippel E, 1994. Survey update for selected Scotia-Fundy Stocks. DFO Atl. Fish. Res. Doc. 94/76.
- Page FH**, Sinclair M, Naimie CE, Loder JW, Losier RJ, Berrien PL, Lough RG, 1999. Cod and haddock spawning on Georges Bank in relation to water residence times. *Fish. Oceanogr.* 8: 212-226.
- Parazo MPM**, Lall SP, Castell JD, Ackman RG, 1998. Distribution of alpha- and gamma-tocopherols in Atlantic salmon (*Salmo salar*) tissues. *Lipids* 33: 697-704.
- Perley P**, Neilson JD, Zwanenburg Z, 1985. A review of the status of the 4VWX halibut stocks. CAFSAC Res. Doc. 84/43: 23 p.
- Perry RI**, Neilson JD, 1988. Vertical distributions and trophic interactions of age-0 cod and haddock in mixed and stratified waters. *Mar. Ecol. Prog. Ser.* 49: 199-214.
- Peterson RH**, 1978. Physical characteristics of Atlantic salmon spawning gravel in some New Brunswick streams. *Fish. Mar. Serv. Tech. Rep.* 785: 28 p.
- Peterson RH**, 1975. Pectoral fin and opercular movements of Atlantic salmon (*Salmo salar*) alevins. *J. Fish. Res. Board Can.* 32: 643-647.
- Peterson RH**, 1973. Temperature selection of Atlantic salmon (*Salmo salar*) and brook trout (*Salvelinus fontinalis*) as influenced by various chlorinated hydrocarbons. *J. Fish. Res. Board Can.* 30: 1091-1097.
- Peterson RH**, 1972. Tactile responses of the goldfish (*Carassius auratus*) facial lobe. *Copeia* 4: 816-819.
- Peterson RH**, Prosser CL, 1972. The effects of cooling on electrical responses of goldfish (*Carassius auratus*) central nervous system. *Comp. Biochem. Physiol.* 42: 1019-1038.
- Peterson RH**, 1971. Responses of brook trout (*Salvelinus fontinalis*) cerebellum to electrical stimulation of the posterior lateral line. *Fish. Res.*

Board Can. MS Rep. 1158: 18 p.

**Peterson RH**, Anderson JM, 1969. Influence of change in acclimation temperature on spontaneous locomotor activity and oxygen consumption in Atlantic salmon, *Salmo salar* Linn. J. Fish. Res. Board Can. 26: 93-109.

**Peterson RH**, Bourbonniere RA, Lacroix GL, Martin-Robichaud DJ, Takats P, Brun G, 1989. Responses of Atlantic salmon (*Salmo salar*) alevins to dissolved organic carbon and dissolved aluminum at low pH. Water Air Soil Pollut. 46: 399-413.

**Peterson RH**, Martin-Robichaud DJ, 1995. Yolk utilization by Atlantic salmon (*Salmo salar* L.) alevins in response to temperature and substrate. Aquacult. Eng. 14: 85-99.

**Peterson RH**, Martin-Robichaud DJ, 1993. Rates of ionic diffusion across the egg chorion of Atlantic salmon (*Salmo salar*). Physiol. Zool. 66: 289-306.

**Peterson RH**, Martin-Robichaud DJ, 1989. First feeding of Atlantic salmon (*Salmo salar* L.) fry as influenced by temperature regime. Aquaculture 78: 35-53.

**Peterson RH**, Martin-Robichaud DJ, 1987. Permeability of the isolated Atlantic salmon (*Salmo salar*) chorion ions as estimated by diffusion potentials. Can. J. Fish. Aquat. Sci. 44: 1635-1639.

**Peterson RH**, Martin-Robichaud DJ, 1986. Aquatic insect histories and Atlantic salmon fry diets in the St. Croix River, New Brunswick, Canada. Can. Tech. Rep. Fish. Aquat. Sci. 1485.

**Peterson RH**, Martin-Robichaud DJ, 1986. Perivitelline and vitelline potentials in teleost eggs as influenced by ambient ionic strength, natal salinity and electrode electrolytes: and the influence of these potentials on cadmium dynamics with the egg. Can. J. Fish. Aquat. Sci. 43: 1445-1450.

**Peterson RH**, Martin-Robichaud DJ, 1986. Growth and major inorganic cation budgets of Atlantic salmon alevins at three ambient acidities. Trans. Am. Fish. Soc. 115: 220-226.

**Peterson RH**, Martin-Robichaud DJ, 1983. Embryo movements of Atlantic salmon (*Salmo salar*) as influenced by pH, temperature and state of development. Can. J. Fish. Aquat. Sci. 40: 777-782.

- Peterson RH**, Martin-Robichaud DJ, 1982. Water uptake by Atlantic salmon ova as affected by low pH. *Trans. Am. Fish. Soc.* 111: 772-774.
- Peterson RH**, Martin-Robichaud DJ, Berge A, 1996. Influence of temperature and salinity on length and yolk utilization of striped bass larvae. *Aquacult. Int.* 4, 89-103.
- Peterson RH**, Metcalfe JL, 1979. Responses of Atlantic salmon alevins to temperature gradients. *Can. J. Zool.* 57: 1424-1430.
- Peterson RH**, Metcalfe JL, 1977. Changes in specific gravity of Atlantic salmon (*Salmo salar*) alevins. *J. Fish. Res. Board Can.* 34: 2388-2395.
- Peterson RH**, Power J, Martin-Robichaud DJ, 1991. Morphological basis of the pectoral fin flutter in embryonic Atlantic salmon (*Salmo salar*). *Can. J. Fish. Aquat. Sci.* 48: 2223-2227.
- Peterson RH**, Spinny HCE, Sreedharan A, 1977. Development of Atlantic salmon (*Salmo salar*) eggs and alevins under varied temperature regimes. *J. Fish. Res. Board Can.* 34: 31-43.
- Peterson RH**, Sutterlin AM, Metcalfe JL, 1979. Temperature preference of several species of *Salmo* and *Salvelinus* and some of their hybrids. *J. Fish. Res. Board Can.* 36: 1137-1140.
- Pezzack DS**, Frail CM, Lawton P, Robichaud DA, Strong MB, 2001. Update on stock status of American lobster, *Homarus americanus*, Lobster Fishing Area 34. *DFO Can. Sci. Advis. Sec. Res. Doc.* 2001/156: 66 p.
- Potter DC**, Lough RG, Perry RI, Neilson JD, 1990. Comparison of the MOCNESS and IYGPT pelagic samplers for the capture of 0-group cod (*Gadus morhua*) on Georges Bank. *J. Cons. Cons. Int. Explor. Mer* 46: 121-128.
- Pottle R**, Elnor R, 1982. Substrate preference behavior of juvenile American lobsters, *Homarus americanus*, in gravel and silt-clay sediments. *Can. J. Fish. Aquat. Sci.* 39: 928-932.
- Power MJ**, Stephenson RL, Annis LM, Fife FJ, Clark KJ, Melvin GD, 2003. 2003 evaluation of 4VWX herring. *DFO Can. Sci. Advis. Sec. Res. Doc.* 2003/035: 104 p.
- Power MJ**, Stephenson RL, Annis LM, Fife FJ, Clark KJ, Melvin GD, 2002.

2002 evaluation of 4VWX herring. DFO Can. Sci. Advis. Sec. Res. Doc. 2002/045: 104 p.

**Powles PM**, Kohler AC, 1970. Depth distributions of various stages of witch flounder (*Glyptocephalus cynoglossus*) off Nova Scotia and in the Gulf of St. Lawrence. J. Fish. Res. Bd. Canada 27:2053-2062.

**Rakitin A**, Ferguson MM, Trippel EA, 1999. Sperm competition and fertilization success in Atlantic cod (*Gadus morhua*): effects of sire size and condition factor on gamete quality. Can. J. Fish. Aquat. Sci. 56:2315-2323.

**Ringo E**, Olsen RE, Castell JD, 1994. Effect of dietary lactate on growth and chemical composition of Arctic charr, *Salvelinus alpinus*. J. World Aquacult. Soc. 25: 483

**Robinson DG**, 1979. Consideration of the lobster (*Homarus americanus*) recruitment overfishing hypothesis; with special reference to the Canso Causeway. Environ. Canada Fish. Mar. Ser. Tech. Rep. 834: 77-99.

**Robinson SMC**, 1996. The shellfish industry in the Gulf of Maine, status and possible future directions. Gulf of Maine NEWS. Summer 1996:7-9.

**Robinson SMC**, Chandler RA, 1992. An effective and safe method for sorting small molluscs from sediment. Limnol. Oceanogr. 38(5):1088-1091.

**Robinson SMC**, Rowell TW, 1990. A re-examination of the incidental fishing mortality of the traditional clam hack on the soft-shell clam, *Mya arenaria* Linnaeus, 1758. J. Shellfish Res. 9:283-289.

**Robinson SMC**, 2000. Southwestern New Brunswick (LFA 36-38) green sea urchins. DFO Science Stock Status Report C3-49 (2000) 8 p.

**Robinson SMC**, 2000. The future of the sea urchin industry: A case study from New Brunswick. Aquaculture Ireland Aug/Sept 2000: 13-15

**Robinson SMC**, 1996. South-western New Brunswick green sea urchins. DFO Atlantic Fisheries Stock Status Rep. 96/131E, 5p.

**Robinson SMC**, MacIntyre AM, 1997. Ageing and growth of the green sea urchin Bull. Aqua. Assoc. Canada. 97-1:56-60.

**Robinson SMC**, MacIntyre A, 1995. Biological fishery information for the

rational development of the green sea urchin industry. Final Report for the New Brunswick Dept. Fisheries and Aquaculture and the Canada-New Brunswick Co-operation Agreement on Economic Diversification. 90 p (available from Librarian, Biological Station, St Andrews NB).

**Saunders JW**, 1976. Fate of Atlantic salmon parr and smelts after descending from a small stream, tributary to the Northwest Miramichi River. ICES. C.M.1976/M:13.

**Saunders JW**, 1966. Estuarine spawning of Atlantic salmon. J. Fish. Res. Board Can. 23: 1803-1804.

**Saunders JW**, Smith MW, 1965. Changes in a stream population of trout associated with increased silt. J. Fish. Res. Board Can. 22: 395-404.

**Saunders JW**, Smith MW, 1964. Planting brook trout (*Salvelinus fontinalis* (Mitchill) in estuarial waters. Can. Fish Cult. 32: 25-30.

**Saunders JW**, Smith MW, 1962. Transplantation of brook trout (*Salvelinus fontinalis* (Mitchill)) within a small stream system. Trans. Am. Fish. Soc. 91:388-394.

**Saunders RL**, 1969. Contributions of salmon from the Northwest Miramichi River, New Brunswick, to various fisheries. J. Fish. Res. Bd. Canada 26:269-278.

**Saunders RL**, 1963. Respiration of the Atlantic cod. J. Fish. Res. Bd. Canada 20:373-386.

**Saunders RL**, 1961. The irrigation of the gills in fishes. I. Studies of the mechanism of branchial irrigation. Can. J. Zool. 39:637-653.

**Scarratt DJ**, 1975. Observations on lobsters and scallops near Pictou, N. S. Fish. Mar. Serv. Res. Dev. Tech. Rep. 532: 15 p.

**Scarratt DJ**, 1973. The effects of raking Irish moss (*Chondrus crispus*) on lobsters in Prince Edward Island. Helgol. Wiss. Meeresunters. 24: 415-424.

**Scarratt DJ**, 1973. Claw loss and other wounds in commercially caught lobsters (*Homarus americanus*). J. Fish. Res. Board Canada 30: 1370-1373.

**Scarratt DJ**, 1973. Abundance, survival, and vertical and diurnal distribution



of lobster larvae in Northumberland Strait, 1962-63, and their relationships with commercial stocks. *J. Fish. Res. Board Can.* 30: 1819-1824.

**Scarratt DJ**, 1972. Investigations into the effects on lobsters of raking Irish moss 1970-71. *Fish. Res. Board Can. Tech. Rep.* 329: 34 p.

**Scarratt DJ**, 1971. Investigation into the effects of Irish moss raking on lobsters. *Fish. Res. Board Can. MS Rep.* 1105: 36 p.

**Scarratt DJ**, 1969. Lobster larvae off Pictou, Nova Scotia, not affected by kraft mill effluent. *J. Fish. Res. Board Can.* 26: 1931-1934.

**Scarratt DJ**, 1969. Bleached kraft mill effluent near Pictou, N. S., and its effect on the marine flora and fauna with a note on the Pictou Co. lobster landings. *Fish. Res. Board Can. MS Rep.* 1037: 24 p.

**Scarratt DJ**, 1968. Distribution of lobster larvae (*Homarus americanus*) off Pictou, Nova Scotia. *J. Fish. Res. Board Can.* 25: 427-430.

**Scarratt DJ**, 1968. An artificial reef for lobsters (*Homarus americanus*) off Pictou, Nova Scotia. *J. Fish. Res. Board Can.* 25: 2683-2690.

**Scarratt DJ**, 1965. Predation of lobsters (*Homarus americanus*) by *Anonyx* sp. (Crustacea, Amphipoda). *J. Fish. Res. Ed. Canada* 22: 1103-1104.

**Scarratt DJ**, 1964. Abundance and distribution of lobster larvae (*Homarus americanus*) in Northumberland Strait. *J. Fish. Res. Board Can.* 21: 661-680.

**Scarratt DJ**, Elson PF, 1965. Preliminary trials of a tag for salmon and lobsters. *J. Fish. Res. Board Can.* 22: 421-423.

**Scarratt DJ**, Lowe R, 1972. Biology of rock crab (*Cancer irroratus*) in Northumberland Strait. *J. Fish. Res. Board Can.* 29: 161-166.

**Scarratt DJ**, Raine GE, 1967. Avoidance of low salinity by newly hatched lobster larvae. *J. Fish. Res. Board Can.* 24: 1403-1406.

**Simon JE**, Harris LE, Johnston TL, 2003. Distribution and abundance of winter skate, *Leucoraja ocellata*, in the Canadian Atlantic. *Can. Sci. Advis. Sec. Res. Doc.* 2003/028: 67 p.

**Singh R**, MacDonald BA, Thomas MLH, Lawton P, 1999. Patterns of seasonal

and tidal feeding activity in the dendrochirote sea cucumber *Cucumaria frondosa* (Echinodermata: Holothuroidea) in the Bay of Fundy. Mar. Ecol. Prog. Ser. 187:133-145.

**Smedbol RK**, McPherson A, Hansen MM, Kenchington E, 2002. Myths and moderation in marine metapopulations. Fish Fish. 3: 1-15.

**Smedbol RK**, Shelton PA, Swain DP, Fréchet A, Chouinard GA, 2002. Review of population structure, distribution and abundance of cod (*Gadus morhua*) in Atlantic Canada in a species-at-risk context. DFO Can. Sci. Advis. Sec. Res. Doc. 2002/082.

**Smedbol RK**, Wroblewski JS, 2002. Metapopulation theory and northern cod population structure: interdependency of subpopulations in rebuilding of a groundfish population. Fish. Res. 55: 161-174.

**Smith NW**, Saunders JW, 1967. Movements of brook trout in relation to an artificial pond on a small stream. J. Fish. Res. Board Can. 24: 1743-1761.

**Smith SJ**, Waiwood KG, Neilson JD, 1994. Survival analysis for size regulation of Atlantic halibut. Pages 125-144 in Case Studies in Biometry (N Lange, L Ryan, L Billard, D Brillinger, L Conquest and J Greenhouse, eds). John Wiley Intersciences, New York.

**Sochasky JB**, Aiken DE, 1974. The Y organ-molting gland problem in decapod Crustacea: the "organ of Madhyastha" and "organ of Carlisle," two putative Y organs. Can. J. Zool. 52:1251-1257.

**Sochasky JB**, Aiken DE, Watson NHF, Byard EH, 1973. Continuing analysis of the molting gland (Y organ) problem in crustaceans. Fish. Res. Bd. Canada MS Rep. 1282.

**Stasko AB**, 1975. Modified lobster traps for catching crabs and keeping lobsters out. J. Fish. Res. Bd. Canada 32: 2515-2520.

**Stasko AB**, 1975. Modified lobster traps for catching crabs and keeping lobsters out. J. Fish. Res. Bd. Canada 32: 2515-2520.

**Stasko A**, Gordon D, 1983. Distribution and relative abundance of lobster larvae off southwestern Nova Scotia. Can. Tech. Rep. Fish. Aquat. Sci. 175: 1-23.

**Stephenson RL**, 2002. Stock structure and management structure: an ongoing challenge for ICES. *Int. Counc. Explor. Sea Mar. Sci. Symp.* 215: 305-314.

**Stephenson RL**, 2001. The role of herring investigations in shaping fisheries science. Pages 1-20 in *Herring: expectations for a new millennium* (F Funk, J Blackburn, D Hay, AJ Paul, R Stephenson, R. Toresen, D Witherell, eds.). Univ. Alaska Sea Grant, AK-SG-01-04, Fairbanks.

**Stephenson RL**, 1999. Stock complexity in fisheries management: A perspective of emerging issues related to population subunits. *Fish. Res.* 43: 247-249.

**Stephenson RL**, Clark KJ, 2002. The role of ICES herring investigations in shaping fisheries science and management. *Int. Counc. Explor. Sea Mar. Sci. Symp.* 215: 504-514.

**Stephenson RL**, Clark KJ, Power MJ, Fife FJ, Melvin GD, 2001. Herring stock structure, stock discreteness and biodiversity. Pages 559-571 in *Herring: expectations for a new millennium* (F Funk, J Blackburn, D Hay, AJ Paul, R Stephenson, R. Toresen, D Witherell, eds.). Univ. Alaska Sea Grant, AK-SG-01-04, Fairbanks.

**Stephenson RL**, Peltonen H, Kuikka S, Pönni J, Rahikainen M, Aro E, Setälä J, 2001. Linking biological and industrial aspects of the Finnish commercial herring fishery in the northern Baltic Sea. Pages 741-760 in *Herring: expectations for a new millennium* (F Funk, J Blackburn, D Hay, AJ Paul, R Stephenson, R. Toresen, D Witherell, eds.). Univ. Alaska Sea Grant, AK-SG-01-04, Fairbanks.

**Stephenson RL**, Rodman K, Aldous DG, Lane DE, 1999. An in-season approach to management under uncertainty: the case of the SW Nova Scotia herring fishery. *Int. Counc. Explor. Sea, J. Mar. Sci.* 56: 1005-1013.

**Stephenson RL**, Smedbol RK, 2001. Small pelagic fisheries. Pages 2814-2820 in *Encyclopedia of Ocean Sciences*, Vol. 5 (JH Steele, SA Thorpe, KK Turkian, eds.). Academic Press.

**Stobo WT**, Neilson JD, Simpson PG, 1988. Movements of Atlantic halibut (*Hippoglossus hippoglossus*) in the Canadian North Atlantic: inferences regarding life history. *Can. J. Fish. Aquat. Sci.* 45: 484-491.

**Stone HH**, 2002. Stock assessment of Georges Bank (5Zjmnh) yellowtail flounder for 2002. *DFO Can. Sci. Advis. Sec. Res. Doc.* 2002/057: 78 p.

- Stone HH**, Gavaris S, Legault CM, Neilson JD, Cadrin SX, 2004. Collapse and recovery of the yellowtail flounder (*Limanda ferruginea*) fishery on Georges Bank. *J. Sea Res.* 51: 261-270.
- Stone HH**, Legault CM, 2003. Stock assessment of Georges Bank (5Zjmnh) yellowtail flounder for 2003. *Can. Sci. Advis. Sec. Res. Doc.* 2003/055: 78 p.
- Stone HH**, Legault CM, Cadrin SX, Gavaris S, Neilson JD, Perley P, 2001. Stock assessment of Georges Bank yellowtail flounder for 2000. *DFO Can. Sci. Advis. Sec. Res. Doc.* 2001/068: 87 p.
- Stone HH**, Nelson C, 2003. Tagging studies on eastern Georges Bank yellowtail flounder. *Can. Sci. Advis. Sec. Res. Doc.* 2003/056: 20 p.
- Stone HH**, Perley P, 2002. An evaluation of Georges Bank yellowtail flounder age determination based on otolith thin-sections. *DFO Can. Sci. Advis. Sec. Res. Doc.* 2002/076: 32 p.
- Strong MB**, Neilson JD, Hunt JJ, 1986. Aberrant crystallization of pollock (*Pollachius virens*) otoliths. *Can. J. Fish. Aquat. Sci.* 43: 1457-1463.
- Sutterlin AM**, Saunders RL, Henderson EB, Harmon PR, 1982. *Can. Dep. Fish. Oceans, Tech. Rep. Fish. Aquat. Sci.* 1058, 6 p.
- Sutterlin AM**, Waddy S, 1976. Tentacle movement patterns involved in feeding behaviour of the sea cucumber, *Cucumaria frondosa*. *Mar. Behav. Physiol.* 4:17-24.
- Sutterlin AM**, Waddy S, 1975. Possible role of the posterior lateral line in obstacle entrainment by brook trout (*Salvelinus fontinalis*). *J. Fish. Res. Board Canada* 32: 2441-2446.
- Thorpe BE**, Robinson SMC, 1995. Recruitment levels of the soft-shell clam (*Mya arenaria*) in the Annapolis Basin, Nova Scotia. Final Report for the Canada-Nova Scotia Co-operation Agreement on Economic Diversification. 61 p (Available from the Librarian, Biological Station, St Andrews NB).
- Thorsen A**, Trippel EA, Lambert Y, 2003. Experimental methods to monitor the production and quality of eggs of marine fish species. *J. Northwest Atl. Fish. Sci.* 33: 55-70.
- Tibbo SN**, Day LR, Doucet WF, 1962. The swordfish (*Xiphias gladius* L.), its

life-history and economic importance in the northwest Atlantic. Bull. Fish. Res. Bd. Canada 130, 47p.

**Tibbo SN**, Messieh SN, 1970. A critique on the use of otoliths for ageing Gulf of St. Lawrence herring (*Clupea harengus* L.). J. Conseil 33:181-191.

**Tibbo SN**, Scarratt DJ, McMullon PWG, 1963. An investigation of herring (*Clupea harengus* L) spawning using free-diving techniques. J. Fish. Res. Bd. Canada 20:1067-1079.

**Trider DJ**, Castell JD, 1980. Influence of neutral lipids on seasonal variation of total lipids in oysters (*Crassostrea virginica*). Proc. Natl. Shellfish Assoc. Vol. 70: 112-118.

**Trippel EA**, 2003. Experimental methods to estimate male reproductive success of marine fishes. J. Northwest Atl. Fish. Sci. 33: 81-113.

**Trippel EA** (Editor), 2003. Reproductive potential of fish populations of the North Atlantic. J. Northwest Atl. Fish. Sci. 33: 205 p.

**Trippel EA**, 2003. Paired mating as an alternative management strategy for haddock. Pages 23-34 in Early rearing of haddock: state of the art (DE Aiken, ed.). Aquacult. Assoc. Can. Spec. Publ. 7.

**Trippel EA**, 1999. Estimation of stock reproductive potential: history and challenges for Canadian Atlantic gadoid stock assessments. Northw. Atl. Fish. Sci. 25: 61-81.

**Trippel EA**, 1998. Egg size and viability and seasonal offspring production of young Atlantic cod. Trans. Am. Fish. Soc. 127: 339-359.

**Trippel EA**, Holy NL, Palka DL, Shepherd TD, Melvin GD, Terhune JM, 2003. Nylon barium sulphate gillnet reduces porpoise and seabird mortality. Mar. Mammal Sci. 19: 240-243.

**Trippel EA**, Kjesbu OS, Solemdal P, 1997. Effects of adult age and size structure on reproductive output in marine fishes. Pages 31-62 in R.C. Chambers and E.A. Trippel (eds.). Early Life History and Recruitment in Fish Populations. Chapman & Hall, New York. 565 p.

**Trippel EA**, Neil SRE, 2003. Effects of photoperiod and light intensity on growth and activity of juvenile haddock (*Melanogrammus aeglefinus*).

Aquaculture 217: 633-645.

**Trippel EA**, Neil SRE, 2002. Juvenile growth and locomotory activity of haddock in relation to photoperiod and light intensity. Int. Coun. Explor. Sea C.M. 2002/S:05.

**Trippel EA**, Neilson JD, 1992. Fertility and sperm quality of virgin and repeat-spawning Atlantic cod (*Gadus morhua*) and associated hatching success. Can. J. Fish. Aquat. Sci. 49: 2118-2127.

**Trumble R**, Neilson JD, Bowering WR, McCaughran DA, 1993. Atlantic halibut (*Hippoglossus hippoglossus*) and Pacific halibut (*H. stenolepis*) and their North American fisheries. Can. Bull. Fish. Aquat. Sci. 227: 84 p.

**Tvedt H**, Benfey TJ, Martin-Robichaud DJ, Power J, 2000. The relationship between sperm density, spermatocrit, sperm motility and fertilization success in Atlantic halibut, *Hippoglossus hippoglossus*. Aquaculture 194: 191-200.

**Van Eeckhaute L**, Gavaris S, Brodziak J, 2003. Assessment of haddock on eastern Georges Bank. Can. Sci. Advis. Sec. Res. Doc. 2003/076: 67 p.

**Van Eeckhaute LAM**, Gavaris S, Trippel EA, 1999. Movements of haddock (*Melanogrammus aeglefinus*) on eastern Georges Bank determined from a population model incorporating temporal and spatial detail. U.S. Fish. Bull. 97: 662-679.

**Waddy SL**, Aiken DE, 2000. Problems with the terminology proposed by Lavalli & Lawton for certain life history phases of the American lobster *Homarus americanus*. Mar. Ecol. Prog. Ser. 197: 309-310.

**Waddy SL**, Aiken DE, 1999. The timing of the metamorphic molt of the American lobster, *Homarus americanus*, is governed by a population-based, photoperiodically-entrained daily rhythm. Can. J. Fish. Aquat. Sci. 56: 2324-2330.

**Waddy SL**, Aiken DE, 1998. Lobster (*Homarus americanus*) culture and resource enhancement: the Canadian experience. Can. Ind. Rep. Fish. Aquat. Sci. 244: 9-18

**Waddy SL**, Aiken DE, 1995. Temperature regulation of reproduction in the American lobster. ICES Mar. Sci. Symp. 199: 54-60.

**Waddy SL**, Aiken DE, 1991. Mating and insemination in the American lobster,

*Homarus americanus*. Pages 126-144 in Crustacean Sexual Biology (RT Bauer, JW Martin, eds.). Columbia University Press, New York, 355 p.

**Waddy SL**, Aiken DE, 1991. Egg Production in the American lobster, *Homarus americanus*. Pages 267-290 in Crustacean Issues 4, Crustacean Egg Production (A Wenner & A Kuris eds.), Balkema Press, Amsterdam.

**Waddy SL**, Aiken DE, 1990. Intermolt insemination, an alternative mating strategy for the American lobster (*Homarus americanus*). Can. J. Fish. Aquat. Sci. 47: 2402-2406.

**Waddy SL**, Aiken DE, 1986. Multiple fertilization and consecutive spawning in large American lobsters. Can. J. Fish. Aquat. Sci. 43: 2292-2294.

**Waddy SL**, Aiken DE, 1985. Immunofluorescent localization of American lobster egg yolk protein in the alimentary tract of the nemertean *Pseudocarcinonemertes homari*. Can. J. Fish. Aquat. Sci. 42: 357-359.

**Waddy SL**, Aiken DE, de Kleijn DPV, 1995. Control of growth and reproduction. Pages 216-266 in Biology of the Lobster *Homarus americanus* (JR Factor, ed.). Academic Press, 528 p.

**Waiwood BA**, Haya K, Martin JL, 1995. Depuration of shellfish toxins by giant scallops from the Bay of Fundy, Canada. Pages 525-530 in Harmful algal blooms (P Lassus, G Arzul, E. Erard-Le Denn, P Gentien and C Marcaillou-Le Baut, eds). Lavoisier, Paris.

**Waiwood BA**, Haya K, Van Eeckhaute L, 1992. Energy metabolism of hatchery-reared juvenile salmon exposed to low pH. Comp. Biochem. Physiol. 101: 49-56.

**Young-Lai WW**, Aiken DE, 1986. Biology and culture of the giant scallop, *Placopecten magellanicus*: a review. Can. Tech. Rep. Fish. Aquat. Sci. 1478, 21 pp.

**Waiwood KG**, Neilson JD, 1985. The 1985 assessment of 5Ze haddock. CAFSAC Res. Doc. 85/95: 30 p.

**Waiwood KG**, Neilson JD, 1984. The 5Ze haddock stock assessment. CAFSAC Res. Doc. 84/132: 54 p.

**Watson J**, 1972. Mating behavior in the spider crab, *Chionoecetes opilio*.J.

Fish. Res. Bd. Canada 29:447-449.

**Watson J**, 1971. Ecdysis of the snow crab, *Chionoecetes opilio*. Canadian J. Zool 49:1025-1027.

**Watson J**, 1970. Maturity, mating and egg laying in the spider crab, *Chionoecetes opilio*. J. Fish. Res. Bd. Canada 27:1607-1616. Wildish DJ, 1972. Post embryonic growth and age in some littoral Orchestia (Amphipoda, Talitridae). Crustaceana, Suppl. 3: 267-274.

**Wilder DG**, 1966. Canadian Atlantic crab resources. Fish. Res. Board Can. Atl. Biol. Sta. Circ. 50, 6 pp (Gen. Ser.).

**Wilder DG**, 1972. Cultivation possibilities for lobster conservation and management. Oceanol. Int. 8.

**Wilder DG**, 1965. Lobster conservation in Canada. Rapp. P.-V. R.un. Cons. Perm. Int. Explor. Mer 156.

**Wilder DG**, 1963. Movements, growth and survival of marked and tagged lobsters liberated in Egmont Bay, Prince Edward Island. J. Fish. Res. Board Can. 20:305-318.

**Wilder DG**, 1963. Lobsters are local. Dep. Fish., Ottawa, Trade News 15 (Sept.).

**Wilder DG**, 1961. Banding lobster claws-a better way to inactivate them. Dept. Fish. Canada, Trade News 14(3):8-9.

**Wilder DG**, 1960. Possible effects of Passamaquoddy tidal power structures on the Canadian lobster industry. J. Fish. Res. Board Canada, 17:553-563.

**Wilder DG**, 1958. Regulation of the lobster fishery. Canadian Fish Culturist 22 (May).

**Wilder DG**, 1957. Canada's lobster fishery. Dep. Fish. Ottawa, Can. (Reprinted from Can. Geogr. J., Sept).

**Wilder DG**, 1956. Experiments to improve lobster traps. Fish. Res. Board Can. Biol. Sta. St. Andrews NB.

**Wilder DG**, 1954. The lobster fishery of the southern Gulf of St. Lawrence.



Fish. Res. Board Can. Circ. 24:16 pp (Gen. Ser.).

**Wilder DG**, 1953. The growth rate of the American lobster (*Homarus americanus*). J. Fish. Res. Board Can. 10:371-412.

**Wilder DG**, 1953. Holding live lobsters in aerated artificial sea water. Fish. Res. Board Canada, Atl. Biol. Sta. Circ. 21, 4 pp (Gen. Ser.).

**Wilder DG**, 1952. The relative toxicity of certain metals to lobsters. J. Fish. Res. Bd. Canada, 8:486-487.

**Wilder DG**, 1949. Protect short lobsters by widening lath spaces. Fish. Res. Board Can. Atl. Biol. Sta., Circ 14, 1 p (Gen. Ser.).

**Wilder DG**, 1948. The protection of short lobsters in the market lobster area. Fish. Res. Board Can. Atl. Biol. Sta. Circ. 11, 1 p (Gen. Ser.).

**Wilder DG**, 1943. The effect of lath spacing and size of fishing ring on the catch of lobster traps. Fish. Res. Bd. Can. Atl. Coast Sta. Progr. Rep. 34.

**Wilder DG**, McLeese DW, 1961. A comparison of three methods of inactivating lobster claws. J. Fish. Res. Board Canada 18:367-375.

**Wilder DG**, McLeese DW, 1947. How temperature and crowding affect the holding of lobsters in artificial sea water. Fish. Res. Board Canada, Atlantic Prog. Rept. 66:24

**Wildish DJ**, 1971. Adaptive significance of a biased sex ratio in *Orchestia*. Nature 233: 54-55.

**Wildish DJ**, 1970. A new subspecies of *Orchestia* Leach (Amphipoda, Talitridae from Britain. Crustaceana 16: 288-290.

**Wildish DJ**, 1970. Locomotory activity rhythms in some littoral *Orchestia* Crustacea: Amphipoda). J. Mar. Biol. Assoc. U. K. 50: 241-252.

**Wildish DJ**, Lincoln RJ, 1979. Occurrence of *Orchestia platensis* Kroyer 1845 in Britain. Crustaceana 36(2): 199-200.

**Wildish DJ**, Poole NJ, 1970. Cellulase activity in *Orchestia gammarella* (Pallas). Comp. Biochem. Phys. 33: 713-716.

**Wildish DJ**, Wentzell C, 1970. The histopathology of PCB treated *Gammarus oceanicus*. Fish. Res. Board Can. MS Rep. 1103: 19 p.

**Willoughby S**, Neilson JD, Taylor C, 1999. The depth distributions of exploited reef fish populations off the south and west coasts of Barbados. Proc. Gulf Caribb. Fish. Inst. 45: 57-68.

## CHEMISTRY

**Ackman RG**, Castell JD, 1967. A generalized study of the effect of structure and other factors in open tubular gas chromatography of fatty acids on a polyester liquid phase with particular reference to monoethylenic fatty acid isomers. J. of Gas Chromatog. October 1967, 489-496.

**Ackman RG**, Castell JD, 1966. Isomeric monoethylenic fatty acids in herring oil. Lipids 1(2): 341-348.

**Boudreau PR**, Gordon DC, Harding GC, Loder JW, Black J, Bowen WD, Campana S, Cranford PJ, Drinkwater KF, Van Eeckhaute L, Gavaris S, Hannah CG, Harrison G, Hunt JJ, McMillan J, Melvin GD, Milligan TG, Muschenheim DK, Neilson JD, Page FH, Pezzack DS, Robert G, Sameoto D, Stone H, 1999. The possible environmental impacts of petroleum exploration activities on the Georges Bank ecosystem. Can. Tech. Rep. Fish. Aquat. Sci. 2259: 106 p.

**Carson WV**, 1973. Interference of ferric iron in the spectrophotometric and spectrofluorimetric determination of humic acid. Fish. Res. Board Can. MS Rep. 1241: 4 p

**Castell JD**, Ackman RG, 1967. Ozonolysis of unsaturated fatty acids. II. Esterification of the total products from the oxidative decomposition of ozonides with 2,2-dimethoxypropane. Can. J. Chem. 45: 1405-1407.

**Chittim B**, Safe S, Ruzo LO, Hutzinger O, Zitko V, 1977. Synthesis and spectroscopic and gas chromatographic behaviour of isomeric chlorinated terphenyls. J. Agric. Food Chem. 25: 323-326.

**Fairchild W**, Kaya K, Burrige L, Arsenault J, Eales G, Sherry J, Bennie D, Burnison K, Maclatchy D, Evans R, Brown S, 2003. Effects of endocrine disruptors on parr-smolt transformation in Atlantic salmon (*Salmo salar* L.). Pages 130-136 in Marine mortality of Atlantic salmon, *Salmo salar* L: methods and measures (ECE Potter, N O'Maoileidigh, G Chaput, eds.). DFO Can. Sci. Advis. Sec. Res. Doc. 2003/101.

**Forrest TP**, Hooper DL, Ray S, 1974. Conformational analysis by Lanthanide induced shifts. N-nitrosopiperidines. J. Amer. Chem. Soc. 96: 42-86.

**Forrest TP**, Ray S, 1972. 3, 4-dimethoxy-trans-cinnamic acid from *Nuphar variegatum*. Phytochemistry 11: 855.

**Forrest TP**, Ray S, 1971. Nuphar alkaloids: 3-epinupharamine. Can. J. Chem. 49: 174.

**Hutzinger O**, Safe S, Wentzell BR, Zitko V, 1973. Photochemical degradation of di- and octachlorodibenzofuran. Environ. Health Perspect. 1973: 267.

**Hutzinger O**, Safe S, Zitko V, 1974. Preparation, gas chromatographic behavior, and spectroscopic properties of hydroxylated chlorobiphenyls, J. Assoc. Off. Anal. Chem. 57: 1061-1067.

**Hutzinger O**, Safe S, Zitko V, 1974. The chemistry of PCB's. CRC Press Inc., Cleveland, Ohio, 269 p.

**Hutzinger O**, Safe S, Zitko V, 1972. Polychlorinated biphenyls. Analabs Research Notes 12: 1-11.

**Hutzinger O**, Safe S, Zitko V, 1972. Photochemical degradation of chlorobiphenyls (PCBs). Environ. Health Perspect. Experimental Issue 1: 15-20.

**Jamieson WD**, Hutzinger O, Safe S, Crocker JFS, Zitko V, 1974. The use of high resolution photoplate techniques in the identification of organochlorine compounds and their metabolites in biological samples. 21st Ann. Conference on Mass Spectrometry and Allied Topics, May 20-25, San Francisco. p. 486-491.

**Johnson HE**, Zitko V, Matsumura F, 1980. Synopsis of discussion session: Case studies. Pages 136-139 in Biotransformation and Fate of Chemicals in the Aquatic Environment (AW Maki, KL Dickson, and J Cairns Jr, eds). Proc. of a Workshop, University of Michigan, Biological Station, Pellston, Mich., August 14-18, 1979.

**Musial CJ**, Uthe JF, Sirota GR, Gilgan M, Zitko V, Matheson RA, 1981. Isolation and characterization of di-n-hexyl phthalate (DHP) as a new contaminant in Atlantic herring (*Clupea harengus harengus*) and mackerel (*Scomber scombrus*). Can. J. Fish. Aquat. Sci. 38: 856-859.

- Ray S**, Frei RW, 1972. Chemically bonded stationary phases (Brushes) in high-speed liquid chromatography. Presented at the 55th CIC Conference.
- Ray S**, 1978. Direct gas chromatographic analysis of cyclic N-nitrosamines. *J. Chromatogr.* 153: 173.
- Ray S**, Frei RW, 1972. Separation of polynuclear aza-heterocyclics by high-speed liquid chromatography on a chemically bonded stationary phase. *J. Chromatogr.* 71: 451.
- Sundstrom G**, Hutzinger O, Safe S, Zitko V, 1976. The synthesis and gas chromatographic properties of bromobiphenyls. *Sci. Total Environ.* 6: 15.
- Waddy SL**, Hamilton MN, Burrige LE, Mercer SM, Aiken DE, Haya K, 2003. Molting response of female lobsters (*Homarus americanus*) to emamectin benzoate varies with reproductive stage. Pages 75-77 in *Aquaculture Canada 2002, Proceedings of the contributed papers of the 19th Annual Meeting of the Aquaculture Association of Canada, Charlottetown, PEI (CI Hendry, ed.). Aquacult. Assoc. Can. Spec. Pub. 6.*
- Zitko V**, 2001. Alkylating potency of azamethiphos. *Bull. Environ. Contam. Toxicol.* 66: 283-286.
- Zitko V**, 2001. Analytical chemistry in monitoring the effects of aquaculture: one laboratory's perspective. *ICES J. Mar. Res.* 58: 486-491.
- Zitko V**, 2001. First derivative UV spectra of surface water as a monitor of chlorination in drinking water treatment. *Sci. World* 1: 39-48.
- Zitko V**, 1985. "Shorthand" numbering of chlorinated dibenzodioxins (CDD) and dibenzofurans (CDF). *Chemosphere* 14: 165.
- Zitko V**, 1983. "Shorthand" numbering of chlorobiphenyls. *Chemosphere* 12: 835-836.
- Zitko V**, 1983. Symmetric matrices in one-dimensional arrays. *Tekniques* 7: 33.
- Zitko V**, 1981. Computer programs for the evaluation of low resolution mass spectrometry data. *Can. Tech. Rep. Fish. Aquat. Sci.* 1025: 28 p.

**Zitko V**, 1980. Chlorinated alkylbenzenes in C12 chlorinated paraffins. *Chemosphere* 9: 139-142.

**Zitko V**, 1979. Rationale for amending Annex I of the London Dumping Convention to include "Organohalogen compounds, organic pesticides and their by-products," LDC/SG.II/3/1, Annex I: 9 p.

**Zitko V**, 1976. Freon as a solvent for determining fat content of fish. *J. Fish. Res. Board Can.* 33: 2864.

## **ECOLOGY & ENVIRONMENT**

**Arias-Gonzales JE**, Galzin R, Neilson JD, Mahon R, Aiken K, 1994. Reference area as a factor affecting potential yield estimates of coral reef fishes. *Naga* 17: 37-40.

**Carter JC**, Dadswell MJ, Roff JC, Sprules WG, 1980. Distribution and zoogeography of planktonic crustaceans and dipterans in glaciated eastern North America. *Can. J. Zool.* 58: 1355-1387.

**Chang BD**, Stephenson RL, Wildish DJ, Watson-Wright WM, 1995. Protecting regionally significant marine habitats in the Gulf of Maine: a Canadian perspective. Pages 121-146 in *Improving interactions between coastal science and policy. Proceedings of the Gulf of Maine Symposium, Kennebunkport ME, 1-3 November 1994.* National Academy Press, Washington DC.

**Cuerrier JP**, Dadswell MJ, 1969. Limnology and experimental fisheries management studies in Gatineau Park, during 1968. MS Rep. Limnology Section, Canadian Wildlife Service.

**Dadswell MJ**, 1979. The Canso Causeway and its possible effects on the regional inshore fisheries - an overview. Pages 1-13 in *Canso Marine Environment Workshop (FD McCracken, ed).* Fish. Mar. Serv. Tech. Rep. 834 (Part 2).

**Dadswell MJ**, 1979. A bibliography of the environment and fisheries of St. Georges Bay-Chedabucto Bay-Canso Strait region. Pages 30-55 in *Canso Marine Environment Workshop - an overview (FD McCracken, ed).* Fish. Mar. Serv. Tech. Rep. 834 (Part 2).

**Dadswell MJ**, 1974. A physical and biological survey of La Grand River estuary, James Bay, Quebec. *Can. Field-Nat.* 88: 479-480.

**Dadswell MJ**, 1974. Distribution, ecology and postglacial dispersal of certain crustaceans and fishes in eastern North America. *Nat. Mus. Can. Publ. Zool.* 11:110 p.

**Dadswell MJ**, 1972. Preliminary limnological survey of La Maurice National Park. MS Rep., Limnology Section, Canadian Wildlife Service.

**Dadswell MJ**, 1970. A physical and biological survey of the aquatic environment (freshwater) of the proposed Gros Morne National Park, Newfoundland. MS Rep., Limnology Section, Canadian Wildlife Service.

**Daye PG**, 1980. Effects of ambient pH on fish: an annotated bibliography. *Can. Tech. Rep. Fish. Aquat. Sci.* 950: 28 p.

**Gascoine IS**, Wildish DJ, 1971. A chemical and biological study of the Medway estuary. *Water Pollut. Control* 70: 11-25.

**Grant J**, Dowd M, Thompson KR, Emerson C, Hatcher A, 1993. Perspectives on field studies and related biological models of bivalve growth and carrying capacity. In: *Bivalve Filter Feeders and Marine Ecosystem Processes*, p. 371-420 (R. Dame, ed.) Springer Verlag.

**Haya K**, 2003. Country report for Canada, report of the Working Group on Environmental Interactions of Mariculture. *Int. Counc. Explor. Sea C.M.* 2003/F-04: 13-18.

**Hutzinger O**, Zitko V, 1973. Contamination of Atlantic coastal areas with polychlorinated biphenyls (PCB), polychlorinated terphenyls (PCT), and related compounds. *Schriftenr. Versterkd. Wass-Boden-Lufthyg. Berlin-Dahlem*, H.37: 121-128.

**Lough RG**, Valentine PC, Potter DC, Auditore PJ, Bloz GR, Neilson JD, Perry RI, 1989. Ecology and distribution of juvenile cod and haddock in relation to sediment type and bottom currents on eastern Georges Bank. *Mar. Ecol. Prog. Ser.* 56: 1-12.

**Markle DF**, Scott WB, Kohler AC, 1980. New and rare records of Canadian fishes and the influence of hydrography on resident and nonresident Scotian Shelf ichthyofauna. *Can. J. Fish. Aquat. Sci.* 37:49-65.

**Martin-Robichaud DJ**, Peterson RH, 1990. Water chemistry and fish population status of ten lakes in Southern New Brunswick: 1988 Survey. *Can.*

Tech. Rep. Fish. Aquat. Sci. 1727: 1-23.

**Metcalf CD**, Dadswell MJ, Gillis GF, Thomas NLH, 1976. Physical, chemical and biological parameters of the Saint John River Estuary, New Brunswick, Canada. Fish. Mar. Serv. Res. Dev. Tech. Rep. 686: 42 p.

**Peterson RH**, 1980. Water chemistry of ten lakes in southern New Brunswick. Can. Tech. Rep. Fish. Aquat. Sci. 962: 25 p.

**Peterson RH**, 1979. The vulnerability of Charlotte County, N. B. lakes to acid precipitation. Pages 17-18 in Evaluating of Recent Data Related to Potential Oil Spills in the Passamaquoddy Area (DJ Scarratt, ed). Fish. Mar. Serv. Tech. Rep. 901.

**Peterson RH**, Martin-Robichaud DJ, 1984. Water chemistry of ten lakes in southern New Brunswick: 1983 survey. Can. Tech. Rep. Fish. Aquat. Sci. 1299.

**Peterson RH**, Martin-Robichaud DJ, 1988. Community analysis of fish populations in headwater lakes of New Brunswick and Nova Scotia. Proc. N.S. Inst. Sci. 38(2): 55-72.

**Peterson RH**, Townsend D, Martin-Robichaud DJ, 1986. Water chemistry of 145 New Brunswick and Nova Scotia headwater lakes. Can. Tech. Rep. Fish. Aquat. Sci. 1493.

**Peterson RH**, Zitko V, McCarroll K, Harmon P, 1997. Aquatic insects in the Tomogonops and adjacent Miramichi Rivers: 1996 Sampling. Can. Tech. Rep. Fish. Aquat. Sci. 2182: iii + 10 p.

**Poole NJ**, Wildish DJ, 1979. Polysaccharide degradation in estuaries. In Microbial polysaccharides and their degradation (RC Berkley, DC Ellwood and GW Gooday, eds). Academic Press, London.

**Robinson SMC**, Martin JD, Page FH, Losier R, 1996. Temperature and salinity characteristics of Passamaquoddy Bay and approaches between 1990 and 1995 Can. Tech. Rep. Fish. Aquat. Sci 2139:59 pp

**Robinson SMC**, Wildish DJ, Page FH, Landry T, Sephton TW, 1999. Carrying capacity research in the nearshore environment: Planned shellfish work for the Canadian Department of Fisheries and Oceans Strategic Research Program on Coastal Oceanography for sustainable aquaculture development (COSAD).

Bull. Aqua. Assoc. Canada 99-2: 17-22.

**Sameoto D**, Neilson JD Waldron D, 1994. Zooplankton prey selection by juvenile fish in Nova Scotian Shelf basins. *J. Plank. Res.* 16: 1003-1019.

**Scarratt DJ**, 1975. Environmental problems - impact on fisheries. Proc. Annual Meeting Can. Soc. Zool. 1974: 117-121.

**Sergeant DB**, Zitko V, 1978. pH and sulfate data of rainwater July to August 1977 at the Biological Station, St. Andrews, N. B. Fish. Mar. Serv. MS Rep. 1468: 6 p.

**Singh R**, Buzeta M-I, Dowd M, Martin JL, LeGresley M, 2000. Ecological Overview of Musquash Estuary: A Proposed Marine Protected Area. Canadian Manuscript Report of Fisheries and Aquatic Sciences. 2538: 39p.

**Watt WD**, Scott D, Ray S, 1979. Acidification and other chemical changes in Halifax County lake waters after 21 years. *Limnol. Oceanogr.* 24: 1154-1161.

**Wildish DJ**, 1979. Reproductive consequences of the terrestrial habit in *Orchestia* (Crustacea, Amphipoda). *Int. J. Invertebr. Reprod.* 1: 9-20.

**Wildish DJ**, 1977. Factors controlling marine and estuarine sublittoral macrofauna. *Helgol. wiss. Meeresunters.* 30: 445-454.

**Wildish DJ**, 1976. Determination of adenosine 5'-triphosphate in estuarine water and sediments by firefly bioluminescence assay. *Fish. Mar. Serv. Res. Dev. Tech. Rep.* 649: 45 p.

**Wildish DJ**, 1971. A preliminary account of the ecology of the Medway estuary. *Trans. Kent Fd. Club* 3: 237-246.

**Wildish DJ**, Carson WG, 1970. On possible causes of a mass mortality of freshwater fish in Loch Lomond Lake. *Fish. Res. Board Can. MS Rep.* 1111: 19 p.

**Wildish DJ**, Kristmanson DD, 1979. Tidal energy and sublittoral macrobenthic animals in estuaries. *J. Fish. Res. Board Can.* 36: 1197-1206.

**Wildish DJ**, Poole NJ, Joles SJ, 1979. Rapid determination of microbial batch culture stage. *Bull. Environm. Contam. Toxicol.* 23: 186-191.



**Wildish DJ**, Poole NJ, Joles SJ, 1979. Problems in determining soil ATP. Bull. Environm. Contam. Toxicol. 23: 192-195.

**Zitko V**, 1988. Graphical display of environmental quality criteria. Sci. Total Environ. 72: 217-220.

**Zitko V**, 1981. Monitoring program for major Atlantic Coast fisheries. Can. MS Rep. Fish. Aquat. Sci. 1615: 15 p.

**Zitko V**, 1979. Fifteen years of environmental research. Mar. Pollut. Bull. 10: 100-103.

**Zitko V**, 1977. Aquatic Environmental Quality: Problems and Proposals. Comments. J. Fish. Res. Board Can. 34: 2222-2273.

**Zitko V**, 1977. Comments on the status and direction of environmental research. Pages 191-207 in Biological Effects of Pollutants on Marine Organisms (CS Clam, ed) (Proc. Workshop). Lexington Books.

**Zitko V**, Hutzinger O, 1972. Contamination of Canadian Atlantic coastal areas with polychlorinated biphenyls (PCB), polychlorinated terphenyls (PCT), and related compounds. Schriftenr. Versterkd. Wass-Boden-Lufthyg. Berlin-Dahlem, H.37: 121-128.

**Zitko V**, Robinson S, 1996. The origin of black 'sludge' from a Deer Island (New Brunswick) beach. Can. Manuscr. Rep. Fish. Aquat. Sci. 2365: iii + 14 p.

## **ENGINEERING**

**Carrothers PJG**, 1980. Estimation of trawl door spread from wing spread. J. Northwest Atl. Fish. Sci. 1:81-90.

**Carrothers PJG**, 1971. Fluid mechanics of netting and low solidity screens. I. Apparatus, experimental method and basic data. Fish. Res. Board Canada Tech. Rep. 264, 93 p.

**Carrothers PJG**, 1968. Instrumentation for the engineering study of otter trawls. Bull. Fish. Res. Bd. Canada 163, 45 p.

**Carrothers PJG**, 1966. New speed calibration curves for the Braincon Type 316 histogram current meter. J. Fish. Res. Bd. Canada 23:1805-1806.

**Dadswell MJ**, 1975. A small-boat otter trawl for limnological studies. *J. Fish. Res. Board Can.* 32: 2535-2538.

## **GENERAL & MISCELLANEOUS**

**Aiken DE**, 1992. The perils of accountability in science. *World Aqua.* 23(3):2.

**Aiken DE**, 1985. Malacostraca. Pages 452-453 in *The Canadian Encyclopedia*, Vol. 1. Hurtig, Edmonton.

**Aiken DE**, Symons PEK, Tyler AV, 1970. Canadian science policy: future for fisheries research. *Fish. Res. Board Can. Manuscript Rep.* 1079, 22 p.

**Appy TD**, Linkletter LE, Dadswell MJ, 1980. A guide to the marine flora and fauna of the Bay of Fundy: Annelida: Polychaeta. *Fish. Mar. Serv. Tech. Rep.* 920: 124 p.

**Bourne N**, Robinson SMC, 1999. In memory of John Carl Medcof, a man of science. *J. Shellfish Res.* 19:1-5.

**Bremner AA**, Trippel EA, Terhune JM. 2002. Sound production by adult haddock, *Melanogrammus aeglefinus*, in isolation, pairs and trios. *Environ. Biol. Fishes* 65: 359-362.

**Caddy JF**, Watson J, 1969. Submersibles for fisheries research. *Hydrospace* 2:12-16.

**Carson WG**, 1973. The levels of nitrogen, oxygen and humic acid in the dechlorinated freshwater system at the Biological Station, determined and monitored over a period of one year. *Fish. Res. Board Can. MS Rep.* 1257: 8 p.

**Chang BD**, 1999. 100 years of marine research in St. Andrews. 8 p. [100 ans de recherche marine ... St. Andrews. 8 p.]. Fisheries and Oceans Canada, Communications Branch, St. Andrews, NB.

**Chang BD** (editor), 1994. St. Andrews Biological Station activity report 1990-1993. *Can. Manusc. Rep. Fish. Aquat. Sci.* 2269: iv +55 p.

**Chang BD** (editor), 1990. Scientific research activities at the St. Andrews Biological Station. *Can. MS Rep. Fish. Aquat. Sci.* 2054: v + 47 p.

**Chang BD**, Stephenson RL, Sephton TW, Lawton P, Page FH, Aiken DE,

Haya K [Editors]. 2003. Report of the Applied Coastal Ecosystem Science (ACES) Workshop, 28-30 January 2003, St. Andrews, New Brunswick. Can. Tech. Rep. Fish. Aquat. Sci. 2492: iv + 41 p.

**Dadswell MJ**, 1975. Further new locality records of deepwater fishes in eastern Ontario and western Quebec. Can. Field-Nat. 89: 447-450.

**Dadswell MJ**, 1974. Postglacial geological history. Pages 12-16 in The Fishes of Canada's National Capital Region by DE McAllister and BW Goad. Environ. Can. Misc. Spec. Publ. 24.

**Dadswell MJ**, 1972. Postglacial dispersal of four deepwater fishes on the basis of new distribution records in eastern Ontario and western Quebec. J. Fish. Res. Board Can. 29: 545-553.

**Dadswell MJ**, 1972. Some new distribution records of freshwater fishes from northwestern insular Newfoundland. Can. Field-Nat. 86: 289-291.

**Melvin GD**, Li Y, Mayer LA, Clay A, 2002. Commercial fishing vessels, automatic acoustic logging systems and 3-D data visualization. Int. Council. Explor. Sea J. Mar. Sci. 59: 179-190.

**Scarratt DJ**, 1972. Canadian participation in New England Man in the sea program. Phase I, May 21-June 13, 1972, Boothbay Harbor, Maine. Fish. Res. Board Can. MS Rep. 1191: 14 p.

**Trippel EA**, 1999. The first marine biological station in Canada: 100 years of scientific research at St. Andrews. Can. J. Fish. Aquat. Sci. 56: 2495-2507.

**Trippel EA**, Holy NL, Palka DL, Shepherd TD, Melvin GD, Terhune JM, 2003. Nylon barium sulphate gillnet reduces porpoise and seabird mortality. Mar. Mammal Sci. 19: 240-243.

**Tsukimura B**, Waddy SL, Vogel JM, Linder CJ, Bauer DK, Borst DW, 2002. Characterization and quantification of yolk proteins in the lobster, *Homarus americanus*. J. Exp. Zool. 292: 367-375.

**Wildish DJ**, Polar SM, 1972. An actograph for laterally or ventrally compressed aquatic organisms of medium size. Fish. Res. Board Can. Tech. Rep. 341: 14 p. + appendices.

**Zitko V**, Wildish DJ, 2000. The first marine biological station in Canada:

Highlights of environmental research at St Andrews. *Water Qual. Res. J. Can.* 35: 809-817.

## GENETICS

**Jackson TR**, Martin-Robichaud DJ, Reith ME, 2003. Application of DNA markers to the management of Atlantic halibut (*Hippoglossus hippoglossus* L.). *Aquaculture* 220: 245-259.

**McPherson AA**, Stephenson RL, Taggart CT, 2003. A genetic basis for Atlantic herring *Clupea hargneus* spawning waves. *Mar. Ecol. Prog. Ser.* 247: 303-309.

**Reith M**, Jackson T, Martin-Robichaud DJ, 2004. Avoiding genetic bottlenecks in broodstock selection. *Global Aquaculture Alliance Advocate*, February 2004.

## NUTRITION

**Ackefors H**, Castell JD, Boston LD, R.,ty P, Svensson M, 1992. Standard experimental diets for crustacean nutrition research. II. Growth and survival of juvenile crayfish *Astacus astacus* (Linn,) fed diets containing various amounts of protein, carbohydrate and lipid. *Aquaculture* 104: 341-356.

**Ackefors H**, Castell JD, Orde-Ostrom I-L, 1997. Preliminary results on the fatty acid composition of freshwater crayfish, *Astacus astacus* and *Pacifastacus leniusculus*, held in captivity. *J. World Aquacult. Soc.* 28(1): 97-105.

**Ackman RG**, Eaton CA, Sipos JC, Hooper SN, Castell JD, 1970. Lipids and fatty acids of two species of North Atlantic krill (*Meganyctiphanes norvegica* and *Thysanoessa inermis*) and their role in the aquatic food web. *J. Fish. Res. Board Can.* 17: 513-533.

**Aiken DE**, 1989. The fiber factor. *World Aquacul.* 20(4):32.

**Aiken DE**, 1989. The allure of omega-3. *World Aquacul.* 20(1):39.

**Bell JG**, Castell JD, Tocher DR, MacDonald F, Sargent JR, 1995. Effects of different dietary arachidonic acid:docosahexaenoic acid ratios on phospholipid fatty acid compositions and prostaglandin production in juvenile turbot (*Scophthalmus maximus*)., *Fish Physiol. Biochem.*, 14: 139-151.

- Blair T**, 2003. Microdiet technology: potential for use in haddock culture. Pages 71-78 in Early rearing of haddock: state of the art (DE Aiken, ed.). Aquacult. Assoc. Can. Spec. Pub. 7.
- Blair T**, Batt J, Melanson R, Kirk S, Castell J, 1998. Evaluation of several commercial enrichment media for enhancing nutritional value of rotifers for winter flounder (*Pleuronectes americanus*). Bull. Aquacult. Assoc. Can. 98-4: 35-37.
- Blair TJ**, Castell JD, Mercer S, Powell F, 1999. The effect of different dietary protein and lipid levels on juvenile halibut (*Hippoglossus hippoglossus* L.). Bull. Aquacult. Assoc. Can. 99-4: 16-18.
- Blair T**, Castell JD, Neil S, D'Abramo L, Cahu C, Harmon P, Ogunmoye K, 2003. Evaluation of microdiets versus live feeds on growth, survival and fatty acid composition of larval haddock (*Melanogrammus aeglefinus*). Aquaculture 225: 451-461.
- Blair T**, Powell F, Brooking P, Castell J, 1998. Evaluation of commercial enrichment media for enhancing the nutritional value of Artemia for larval halibut (*Hippoglossus hippoglossus*) culture. Bull. Aquacult. Assoc. Can. 98-4: 21-24.
- Castell JD**, Blair T, Neil S, Howes K, Mercer S, Reid J, Young-Lai W, Gullison B, Dhert P, Sorgeloos P, 2003. The effect of different HUFA enrichment emulsions on the nutritional value of rotifers (*Brachionus plicatilis*). Aquacult. Int. 11: 109-117.
- Castell JD**, Kean JC, D'Abramo LR, Conklin DE, 1989. A standard reference diet for crustacean nutrition research. I. Evaluation of two formulations, J. World Aquacult. Soc. 20, 93-99.
- Castell JD**, Kean JC, McCann DGC, Boghen AD, Conklin DE, D'Abramo LR, 1989. A standard reference diet for crustacean nutrition research. II. Selection of a purification procedure for production of the rock crab *Cancer irroratus* protein ingredient, J. World Aquacult. Soc. 20, 100-106.
- Castell JD**, Sinnhuber RO, Wales JH, Lee DJ, 1972. Essential fatty acids in the diet of rainbow trout (*Meganyctiphanes norvegica* and *Thysanoessa inermis*) and their role in the aquatic food web. J. Fish. Res. Board Can. 27: 513-533.
- D'Abramo LR**, Castell JD, 1997. Metodología para la investigación nutricional. Segundo Simposium Internacional de Nutrición Acuicola 7-9 de

Novembre de 1994 Monterrey, N. S. R. Mendoza, L. E. Cruz-Suarez and D. Ricque (Editors). p. 103- 121. (Translated by Denis Ricque Marie).

**Fredette M**, Batt J, Castell JD, 2000. Feeding stimulants for juvenile winter flounder. North Amer. J. Aquacul. 62: 157-160.

**Kennedy E**, Robinson SMC, Parsons GJ, Castell JD, 2002. Importance of dietary minerals and pigments in enhancing somatic growth of juvenile green sea urchins. Aquacult. Assoc. Can. Spec. Publ. 5: 31-34.

**Pearce CM**, Daggett TL, Robinson SMC, 2003. Effects of starch type, macroalgal meal source and beta-carotene on gonad yield and quality of the green sea urchin *Strongylocentrotus droebachiensis* (Muller) fed prepared diets. J. Shellfish Res. 22: 505-520.

**Pearce CM**, Daggett TL, Robinson SM, 2002. Optimizing prepared feed ration for gonad production of the green sea urchin *Strongylocentrotus droebachiensis*. J. World Aqua. Assoc. 33: 268-277.

**Pearce CM**, Daggett TL, Robinson SM, 2002. Effect of protein source ratio and protein concentration in prepared diets on gonad yield and quality of the green sea urchin, *Strongylocentrotus droebachiensis*. Aquaculture 214: 307-332.

**Pearce CM**, Daggett TL, Robinson SMC, 2001. Effect of binder type and concentration on prepared feed stability and gonad yield and quality of the green sea urchin, *Strongylocentrotus droebachiensis*. Aquaculture 205: 301-323.

**Privett OS**, Dougherty KA, Castell JD, 1971. Quantitative analysis of lipid classes. Amer. J. Clin. Nutr. 24: 1265-1275.

**Ramsay JM**, Castell JD, Anderson DM, Hebb CD, 2000. Effects of fecal collection methods on estimation of digestibility of protein feedstuffs by winter flounder. North Amer. J. Aquacul. 62: 168-173.

**Robinson SMC**, Lawrence JM, Burrige L, Haya K, Martin JD, Castell JD, Lawrence A, 2003. The effectiveness of different pigment sources in colouring the gonads of the green sea urchin (*Strongylocentrotus droebachiensis*). Pages 215-221 in Sea Urchins - Fisheries and Ecology: Proceedings of the International Conference on Sea Urchin Fisheries and Aquaculture. Puerto Varas, Chile, March 25-27, 2003 (JD Lawrence, ed.). DEStech Publications Inc., Lancaster, PA, USA.

**Tocher DE**, Castell JD, Dick JR, Sargent JR, 1995. Effects of salinity on the fatty acid composition of total lipid and individual glycerophospholipid classes of Atlantic salmon (*Salmo salar*) and turbot (*Scophthalmus maximus*) cells in culture. *Fish physiol. Biochem.*, 14: 125-137.

**Xu XL**, Ji WJ, Castell JD, O'Dor RK, 1993. The Nutritional Value of Dietary n-3 and n-6 Fatty Acids for Chinese Prawn (*Penaeus chinensis*). *Aquaculture* 118: 277-285.

## OCEANOGRAPHY

**Dowd M**, 2000. Oceanography and shellfish production: A bio-physical synthesis using a simple model. *Bull. Aquacul. Assoc. Canada.* 100-2: 3-9.

**Dowd M**. 1998. On the estimation of circulation from density observations in coastal and continental shelf regions. *Continental Shelf Research.* 18:991-1014.

**Dowd, M.**, Page F, Losier R, McCurdy P, and Budgen G. 2001. Physical oceanography of Tracadie Bay, P.E.I.: Analysis of sea level, current, wind and drifter data. *Can. Tech. Rep. Fish. Aquat. Sci.* 2347, 80 pp.

**Dowd M**, and Thompson KR, 1999. "Errata for Forecasting coastal circulation using an approximate Kalman filter based on dynamical modes". *Continental Shelf Research.* 19:573-574.

**Dowd M**, and Thompson KR, 1998. Forecasting coastal circulation using an approximate Kalman filter based on dynamical modes. *Continental Shelf Research* 17: 1715-1735.

**Dowd M**, Thompson KR. 1996. Extraction of tidal streams from a ship-borne acoustic Doppler current profiler using a statistical-dynamical model. *J. Geophys. Res.* 101: 8943-8956.

**Dowd M**, Vachon PW, Dobson FW, and Olsen RB, 2001. Ocean wave extraction from RADARSAT synthetic aperture radar inter-look image cross-spectra. *IEEE Transactions on Geoscience and Remote Sensing.* 39:21-37.

**Lauzier LM**, 1967. Bottom residual drift on the continental shelf area of the Canadian Atlantic coast. *J. Fish. Res. Bd. Canada* 24:1845-1859.

**Lauzier LM**, 1965. Drift bottle observations in Northumberland Strait, Gulf of St. Lawrence. *J. Fish. Res. Bd. Canada* 22:353-368.

**Lauzier LM**, 1957. Variation of surface water temperatures at St. Andrews, N.B. Numerical forecasting of temperatures. *Fish. Res. Bd. Canada MS Report Series (Oceanographic & Limnological) No. 1*, 20 p.

**Lauzier LM**, Campbell NJ, 1960. Ice studies of the Atlantic Oceanographic Group. *Fish. Res. Bd. Canada MS Report Series, No. 60*.

**Lauzier LM**, Clark JG, Brown AW, 1964. *Fish. Res. Bd. Canada, MS Report No. 178*, 24 p.

**Page F**, Greenberg D, Bugden G, Losier R, Shore J, Horne E, Robinson S, Chang B, Sephton T, 1999. Oceanographic component of the Canadian Department of Fisheries and Oceans Science Strategic Research Program on Coastal Oceanography for sustainable aquaculture development (COSAD). *Bull. Aqua. Assoc. Canada* 99-2: 14-16.

**Thompson KR**, Dowd M, Lu Y, and Smith B, 2000. Oceanographic data assimilation and regression analysis. *Environmetrics*. 11:183-196.

**White AW**, Akagi HM, 1974. A compilation of total releases and recoveries of drift bottles and sea-bed drifters in continental shelf waters of the Canadian Atlantic coast from 1960 through 1973. *Fish. Res. Board Can. MS Rep. 1281*: 49 p.

## **PATHOLOGY & PARASITOLOGY**

**Aiken DE**, Waddy SL, Uhazy LS, 1985. Aspects of the biology of *Pseudocarcinonemertes homari*, and its association with the American lobster. *Can. J. Fish. Aquat. Sci.* 42: 351-356.

**Aiken DE**, Waddy SL, Uhazy LS, Campbell A. 1983. A nemertean destructive to the eggs of the lobster, *Homarus americanus*. *Rapp. P-v. Reun. Const. Int. Explor. Mer* 182:130-133.

**Appy RP**, Dadswell MJ, 1978. Parasites of *Acipenser brevirostrum* Lesueur and *Acipenser oxyrinchus* Mitchill (Osteichthyes:Acipenseridae) in the Saint John River estuary, N. B. with a description of *Caballeronema pseudoargumentosus* sp. n. (Nematoda:Spiruroidea). *Can. J. Zool.* 56: 1382-1391.



- Bratley J**, Campbell A, 1986. A survey of parasites of the American lobster, *Homarus americanus* (Crustacea: Decapoda), from the Canadian Maritimes. *Can. J. Zool.* 64: 1998-2003.
- Bratley J**, Campbell A, 1985. Occurrence of *Histriobdella homari* (Annilida: Polychaeta) on the American lobster in the Canadian Maritimes. *Can. J. Zool.* 63: 392-395.
- Bratley J**, Campbell A, Bagnall A, Uhazy L, 1985. Geographic distribution and seasonal occurrence of the nemertean *Pseudocarcinonemertes homari* on the American lobster, *Homarus americanus*. *Can. J. Fish. Aquat. Sci.* 42: 360-367
- Charmantier G**, Charmantier-Daures M, Waddy SL, Aiken DE, 1991. Salinity tolerance and osmoregulation in the nemertean *Pseudocarcinonemertes homari*. *Can. J. Fish. Aquat. Sci.* 48: 209-214.
- Harmon PR**, MacKinnon A-M, Neil SRE, Boston L, 2003. First report of nodavirus in haddock. Pages 115-120 in *Early rearing of haddock: state of the art* (DE Aiken, ed.). *Aquacult. Assoc. Can. Spec. Pub.* 7.
- Leslie HA**, Campbell A, Daborn GR, 1981. *Nectonema* (Nematomorpha: Nectonematoidea) a parasite of decapod Crustacea in the Bay of Fundy. *Can. J. Zool.* 59: 1193-1196.
- McClelland G**, Misra RK, Martell DJ, 2000. Spatial and temporal distributions of larval sealworm (*Pseudoterranova decipiens*, Nematoda: Anisakinae), in *Hippoglossoides platessoides* (Pleuronectidae) in eastern Canada from 1980 to 1990. *ICES J. Mar. Sci.* 57:69-88
- Martell DJ**; McClelland G, 1995. Transmission of *Pseudoterranova decipiens* (Nematoda: Asaridoidea) via benthic macrofauna to sympatric flatfishes (*Hippoglossoides platessoides*, *Pleuronectes ferrugineus*, *P. americanus*) on Sable Island Bank, Canada. *Marine Biology* (Berlin) 122:129-135
- Neilson JD**, Perry RI, Valerio P, Scott JS, 1987. Interactions of a caligid ectoparasite and juvenile gadids on Georges Bank. *Mar. Ecol. Prog. Ser.* 39: 221-232.
- Scott JS**, 1988. Helminth parasites of redfish (*Sebastes fasciatus*) from the Scotian Shelf, Bay of Fundy, and eastern Gulf of Maine. *Can. J. Zool.* 66:617-621.

**Scott JS**, 1985. Digenean (Trematoda) populations in winter flounder (*Pseudopleuronectes americanus*) from Passamaquoddy Bay, New Brunswick, Canada. *Can. J. Zool.* 63:1699-1705.

**Scott JS**, 1981. Alimentary tract parasites of haddock (*Melanogrammus aeglefinus* L.) on the Scotian Shelf. *Can. J. Zool.* 59:2244-2252.

**Scott JS**, 1975. Geographic variation in incidence of trematode parasites of American plaice (*Hippoglossoides platessoides*) in the Northwest Atlantic. *J. Fish. Res. Bd. Canada* 32:547-550.

**Scott JS**, 1973. Intestinal helminth parasites of northern sand lance (*Ammodytes dubius*). *J. Fish. Res. Bd. Canada* 30:291-292.

**Uhazy LS**, Aiken DE, Campbell A, 1985. Aspects of the biology of *Pseudocarcinonemertes homari*, and its association with the American lobster. *Can. J. Fish. Aquat. Sci.* 42:342-350.

**Waddy SL**, Aiken DE, 1985. Immunofluorescent localization of American lobster egg yolk protein in the alimentary tract of the nemertean *Pseudocarcinonemertes homari*. *Can. J. Fish. Aquat. Sci.* 42: 357-359.

## **PHYTOPLANKTON**

**Abbott BC**, White AW, 1979. Toxigenesis in dinoflagellates: a workshop summary. Pages 494-496 in *Toxic Dinoflagellate Blooms* (DL Taylor and HH Seliger, eds). Elsevier North Holland, N. Y.

**Dowd M**, Martin JL, LeGresley MM, Hanke A, Page FH, 2004. A statistical method for the robust detection of interannual changes in plankton abundance: analysis of monitoring data from the Bay of Fundy, Canada. *J. Plankton Res.* 26: 509-523.

**Dowd M**, Martin JL, LeGresley MM, Hanke A, Page FH, 2003. Interannual variability in a plankton time series. *Environmetrics* 14: 73-86.

**Haya K**, Martin JL, Burrige LE, Waiwood BA, Wildish DJ, 1991. Domoic acid in shellfish from the Bay of Fundy, New Brunswick, Canada. *Journal of Shellfish Research* 10(1): 113-118.

**Garcia A**, Fernandez MT, Reyero ML, Franco JM, Haya K, Martin J, Zitko V, Novelli A, 1998. Detection of PSP toxins by neuronal bioassay: intercalibration

with HPLC and mouse bioassay. Pages 554-557 in Harmful Algae (B Reguera, J Blance, ML Fernandez and T. Wyatt, eds). Xunta de Galicia and Intergovernmental Oceanographic Commission of UNESCO 1998.

**Haya K**, Martin JL, Burrige LE, Waiwood BA, Wildish DJ, 1991. Domoic acid in shellfish and plankton from the Bay of Fundy, New Brunswick, Canada. *J. Shellfish Res.* 10: 113-118.

**Haya K**, Martin JL, Robinson SMC, Martin JD, Khots A, 2003. Does uptake of *Alexandrium fundyense* cysts contribute to the levels of PSP toxin in the sea scallop *Placopecten magellanicus*? *Harmful Algae* 34: 1-7.

**Haya K**, Martin JL, Waiwood BA, Burrige LE, Hungerford JM, Zitko V, 1990. Identification of paralytic shellfish toxins in mackerel from Southwest Bay of Fundy. Pages 350-355 in Toxic marine phytoplankton (E Graneli, B Sundstrom, L Edler and DM Anderson, eds). Elsevier Science Publishing Co., Inc., NY.

**Kaczmarska I**, Pederson TD, Schaefer HL, Martin JL, 1998. Sporulation of *Chaetoceros furcillatus* in Passamaquoddy Region, N.B., Canada Pages 15-20 in Coastal Monitoring and the Bay of Fundy (MDB Burt & PG Wells, Eds). Proceedings of the Maritime Atlantic Ecozone Science Workshop, held in St. Andrews, New Brunswick, Nov. 11-15, 1997. Huntsman Marine Science Centre, St. Andrews.

**Martin JL**, 1990. Red Tides. In Underwater World. published by Communications Directorate, Dept. Fisheries and Oceans, Ottawa, Ont. 12p.

**Martin JL**, Haya K. (Eds.) 1999. Proceedings of the 6th Canadian Workshop on Harmful Marine Algae. *Can. Tech. Rep. Fish. Aquat. Sci.* 2261: x + 159 p.

**Martin J**, Haya LK, Burrige LE, Wildish DJ, 1990. *Nitzschia pseudodelicatissima* - a source of domoic acid in the Bay of Fundy, eastern Canada. *Mar. Ecol. Prog. Series.* 67: 177-182.

**Martin JL**, Haya K, Wildish DJ, 1993. Distribution and domoic acid content of *Nitzschia pseudodelicatissima* in the Bay of Fundy. Pages 613 - 618 in Toxic Phytoplankton Blooms in the Sea - proceedings of the fifth International Conference on Toxic Marine Phytoplankton, Newport, Rhode Island, U.S.A. 28 October - 1 November 1991. (T Smayda & Y. Shimizu Eds). Elsevier Science Publishing Co. Amsterdam. 952 pp.

**Martin JL**, LeGresley MM, Strain PM, Clement PM, 1999. Phytoplankton

Monitoring in the Southwest Bay of Fundy during 1993-96. Can. Tech. Rep. Fish. Aquat. Sci. 2265: iv + 132 p.

**Martin JL**, LeGresley MM, Richard DJA, 1998. Toxic Phytoplankton, PSP and ASP toxicity data during the years 1988-1996 from the southwest Bay of Fundy, Eastern Canada. Pages 233-234 in Harmful Algae (B Reguera, J Blance, MaL Fernandez, T Wyatt, Eds.). Xunta de Galicia and Intergovernmental Oceanographic Commission of UNESCO 1998.

**Martin JL**, Richard D, 1996. Shellfish toxicity from the Bay of Fundy, eastern Canada, 50 years in retrospect. Pages 3-6 in: Harmful and Toxic Algal blooms. Proceedings of the seventh international conference on toxic phytoplankton (T. Yasumoto, Y. Oshima, and Y. Fukuyo Eds.), Sendai, Japan, 12-16, 1995. Intergovernmental Oceanographic Commission of UNESCO.

**Martin JL**, White AW, 1988. Distribution and abundance of the toxic dinoflagellate *Gonyaulax excavata* in the Bay of Fundy. Can. J. Fish. Aquat. Sci. 45: 1968 - 1975.

**Martin JL**, White AW, Sullivan JJ, 1990. Anatomical distribution of paralytic shellfish toxins in soft-shell clams. Pages 379-384 in Toxic Marine Phytoplankton (E Graneli, B Sundstrom, L Edler, & DM Anderson, eds). Elsevier, New York, NY.

**Martin JL**, Wildish DJ, 1994. Temporal and spatial dynamics of Alexandrium cysts during 1981-84 and 1992 in the Bay of Fundy. In Proceedings of the fourth Canadian Workshop on Harmful Marine Algae (ed. Rod Forbes) Can Tech. Rept. Fish Aquat Sci. 2016.

**Martin JL**, Wildish DJ, 1990. Algal blooms in the Bay of Fundy salmon aquaculture region. Bull. Aquacul. Assoc. Canada 90-4:19-21.

**Martin JL**, Wildish DJ, LeGresley MM, Ringuette MM, 1995. Phytoplankton monitoring in the southwestern Bay of Fundy during 1990-92. Can. Man. Rept. Fish. Aquat. Sci. 2277. 155 pp.

**Peterson TD**, Schaefer HL, Martin JL, Kaczmarek I, 1999. *Chaetoceros furcillatus* Bailey in the Canadian Maritimes. Pages 253-263 in Botanical Marina. Walter de Gruyter. Berlin. New York. Vol. 42.

**Subba Rao DV**, Pan Y, Zitko V, Bugden G, McKeigan K, 1993. Diarrhetic shellfish poisoning (DSP) associated with a subsurface bloom of Dinophysis

norvegica in Bedford Basin, eastern Canada. Mar. Ecol. Prog. Ser. 97: 117-126.

**Waiwood BA**, Haya K, Martin JL, 1995. Depuration of paralytic shellfish toxins by giant scallops from the Bay of Fundy, Canada. Pages 525-530 in proceedings of the Sixth International Conference on Toxic Marine Phytoplankton. (P Lassus, G Arzul, E Erard-Le Denn, C Marcaillou, eds) - Le Baut. Lavoisier, Paris.

**Watson-Wright WW**, Jellett J, Dorey M, 1993. Working together. World Aquaculture 24(4):26-30.

**White AW**, 1988. PSP: poison for Fundy shellfish culture. World Aquaculture 19(4):23-26.

**White AW**, 1979. Dinoflagellate toxins in phytoplankton and zooplankton fractions during a bloom of *Gonyaulax excavata*. In Toxic Dinoflagellate Blooms (Taylor and Seliger, eds). Elsevier North-Holland, N.Y.

**White AW**, 1979. Relation of toxic dinoflagellate blooms to finfish in the southern Bay of Fundy and northwestern Gulf of St. Lawrence: a summary of recent studies and a rationale for investigations of fish larvae. Can. Atl. Fish. Sci. Advis. Comm. Res. Doc. 79/2: 10 p.

**White AW**, 1978. Salinity effects of growth and toxin content of *Gonyaulax excavata*, a marine dinoflagellate causing paralytic shellfish poisoning. J. Phycol. 14: 475-479.

**White AW**, 1977. Dinoflagellate toxins as probable cause of an Atlantic herring (*Clupea harengus harengus*) kill, and pteropods as apparent vector. J. Fish. Res. Board Can. 34: 2421-2424.

**White AW**, 1976. Growth inhibition caused by turbulence in the toxic marine dinoflagellate *Gonyaulax excavata*. J. Fish. Res. Board Can. 33: 2598-2602.

**White AW**, 1974. Growth of two facultatively heterotrophic marine centric diatoms. J. Phycol. 10: 292-300.

**White AW**, Maranda L, 1978. Paralytic toxins in the dinoflagellate *Gonyaulax excavata* and in shellfish. J. Fish. Res. Board Can. 35: 397-402.

**White AW**, Sheath RG, Hellebust JA, 1977. A red tide caused by marine

ciliate *Mesodinium rubrum* in Passamaquoddy Bay, including pigment and ultrastructure studies of the endosymbiont. *J. Fish. Res. Board Can.* 34: 413-416.

**White AW**, Shilo M, 1975. Heterotrophic growth of the filamentous blue-green alga *Plectonema boryanum*. *Arch. Microbiol.* 102: 123-127.

## **POLLUTION & TOXICOLOGY**

**Abbott BC**, White AW, 1979. Toxigenesis in dinoflagellates: a workshop summary. Pages 494-496 in *Toxic Dinoflagellate Blooms* (DL Taylor and HH Seliger, eds). Elsevier North Holland, N. Y.

**Abgrall P**, RW Rangeley, LE Burrige, and P Lawton. 2000. Sublethal effects of azamethiphos on shelter use by juvenile lobsters (*Homarus americanus*). *Aquaculture* 181: 1-10.

**Aiken DE**, Byard EH, 1972. Histological changes in lobsters (*Homarus americanus*) exposed to yellow phosphorus. *Science* 176:1434-1435.

**Aiken DE**, Zitko V, 1977. Effect of Iranian crude oil on lobsters (*Homarus americanus*) held in floating crates. *ICES C.M.* 1977/E:45, 13 p.

**Akagi H**, Wildish DJ, 1975. Determination of the sorting characteristics and organic carbon content of estuarine sediments. *Fish. Res. Board Can. MS Rep.* 1370: 15 p.

**Ali N**, Humphrey S, Cloutier I, Niimi A, Parker R, Wood C, Zitko V, 1997. Exposed or not exposed: The effectiveness of using tracers to verify exposure of fish to pulp and paper mill effluent. *Can. Tech. Rep. Fish. Aquat. Sci.* 2162: v + 51 p.

**Brown SB**, Haya K, Burrige LE, Swansburg EO, Arsenault JT, Sherry J, Bennie D, Eales JG, Fairchild WL, 2000. Link between past chemical use and declines in wild salmon populations. Pages 21-33 in *Effects of gender-bending chemicals in humans and wildlife: Workshop Proceedings* (C Williston, ed). Conservation Council of New Brunswick, Fredericton, NB. 91 pp.

**Burrige LE**, 2003. Chemical use in marine finfish aquaculture in Canada: a review of current practices and possible environmental effects. Pages 97-131 in *A scientific review of the potential environmental effects of aquaculture in aquatic ecosystems.* *Can. Tech. Rep. Fish. Aquat. Sci.* 2450.

**Burridge LE**, Doe K, Haya K, Jackman PM, Lindsay G, Zitko V, 1999. Chemical analyses and toxicity tests on sediments under salmon net pens in the Bay of Fundy. Can. Tech. Rep. Fish. Aquat. Sci. 2291: iii + 39 p.

**Burridge LE** and K Haya. 1997. The lethality of pyrethrins to larvae and post-larvae of the American lobster (*Homarus americanus*). Ecotox. Environ. Safety 38 (2): 150-154.

**Burridge LE** and K Haya. 1995. A review of Di-n-butylphthalate in the aquatic environment: concerns regarding its use in salmonid aquaculture. J. World Aquacul. Soc. 26 (1): 1-13.

**Burridge LE** and K Haya. 1993. The lethality of ivermectin, a potential agent for treatment of salmonids against sea lice, to the shrimp *Crangon septemspinosa*. Aquaculture 117 (1-2): 9-14.

**Burridge LE**, Haya K, 1990. Seasonal lethality of pentachlorophenol to juvenile Atlantic salmon. Bull. Environ. Contam. Toxicol. 45: 888-892.

**Burridge LE**, Haya K, 1989. The use of fugacity model to assess the risk of pesticides to the aquatic environment on Prince Edward Island. Pages 193-203 in Aquatic Toxicology and Water Quality Management (JO Nriagu and JSS Lakshminarayana, eds). John Wiley and Sons, Inc., NY.

**Burridge LE**, Haya K, Page F, Waddy SL, Zitko V, Wade J, 2000. The lethality of the cypermethrin formulation Excis to larval and post-larval stages of the American lobster (*Homarus americanus*). Aquaculture 182 (1-2): 37-47.

**Burridge LE**, Haya K, Waddy SL, 2000. The effects of azamethophos on survival and spawning success in female American lobsters. Pages 1-139 in Proceedings of the 27th Annual Toxicity Workshop, October 1-4, 2000 (KC Penny, KA Coady, MH Murdoch, WR Parker, AJ Nimim, eds.). Can. Tech. Rep. Fish. Aquat. Sci. 2331.

**Burridge LE**, Haya K, Waddy SL, Wade J, 2000. The lethality of anti-sea lice formulations Salmosan (azamethiphos) and Excis (cypermethrin) to stage IV and adult lobsters (*Homarus americanus*) during repeated short-term exposures. Aquaculture 182 (1-2): 27-35.

**Burridge LE**, Haya K, Zitko V, 1991. Assessment and perception of the hazards of pesticide use in the aquatic environment. Int. J. Environ. Pollut. 1:51-54.

**Burridge LE**, Haya K, Zitko V, Waddy S, 1999. The lethality of Salmosan (azamethiphos) to American lobster (*Homarus americanus*) larvae, post-larvae and adults. *Ecotoxicol. Environ. Safety* 43: 165-169.

**Burridge LE**, Woodside M, Zitko V, Haya K, 1985. Lethality of mexacarbate and its formulation UCZF-19 to juvenile Atlantic salmon. *Chemosphere* 14: 1821-1827.

**Burridge LE**, Zitko V, 2002. Lethality of copper sulfate and copper-treated nets for juvenile haddock, *Melanogrammus aeglefinus* L. *Bull. Environ. Contam. Toxicol.* 69: 378-383.

**Carson WV**, 1974. Chemical conditions in the Northwest Miramichi River during 1973. *Fish. Res. Board Can. MS Rep.* 1323: 26 p.

**Carson WV**, 1973. Chemical conditions in the Northwest Miramichi River during 1972. *Fish. Res. Board Can. MS Rep.* 1254: 6 p.

**Carson WV**, 1972. Chemical conditions in the Northwest Miramichi River during 1971. *Fish. Res. Board Can. MS Rep.* 1180: 28 p.

**Carson WV**, 1966. Geochemical survey of streams around Mt. Pleasant, Charlotte Co., N. B. *MS Rep. Oceanogr. Limnol.* 212: 24 p.

**Carson WG**, Carson WV, 1973. Avoidance of copper in the presence of humic acid by juvenile Atlantic salmon. *Fish. Res. Board Can. MS Rep.* 1237: 9 p

**Carson WG**, Carson WV, 1972. Toxicity of copper and zinc to juvenile Atlantic salmon in the presence of humic acid and lignosulfonates. *Fish. Res. Board Can. MS Rep.* 1181: 13 p.

**Charmantier G**, Charmantier-Daures M, Young-Lai WW, 1985. Lethal and sublethal effects of potash brine on different stages of the lobster, *Homarus americanus*. *Can. Tech. Rep. Fish. Aquat. Sci.* 1344.

**Chou CL**, Haya K, Paon LA, Moffatt JD, 2003. Metals in green sea urchin (*Strongylocentrotus droebrachiensis*) as an indicator for the near-field effect of chemical wastes from salmon aquaculture sites in New Brunswick, Canada. *Bull. Environm. Contam. Toxicol.* 70: 948-956.

**Dadswell MJ**, 1976. Mercury, DDT and PCB's content of certain fishes from the Saint John estuary, New Brunswick. *Trans. Can. Soc. Environ. Biol.*: 133-



146.

**Dadswell MJ**, 1971. *Pontoporeia affinis* - fish food or pollution indicator. *Trail and Landscape* 5: 87-92.

**Eaten P**, Zitko V, 1978. Polycyclic aromatic hydrocarbons in marine sediments and shellfish near creosoted wharf structures in eastern Canada. ICES, C.M. 1978/E:25, Marine Environmental Quality Committee.

**Elson PF**, Lauzier LM, Zitko V, 1972. A preliminary study of salmon movements in a polluted estuary. Pages 325-330 in *Marine Pollution and Sea Life* (M Ruivo, ed). FAO Technical Conference on Marine Pollution and its effects on living resources and fishing, Rome, Italy. Fishing News (Books) Ltd.

**Elson PF**, Meister AL, Saunders JW, Saunders RL, Sprague JB, Zitko V, 1973. Impact of chemical pollution on Atlantic salmon in North America. *Int. Atl. Salmon Symp.* 1972, *Int. Atl. Salmon Found. Spec. Publ.* 4: 83-110.

**Fernandez MT**, Zitko V, Gascon S, Torreblanca A, Novelli A, 1993. Neurotoxic effect of okadaic acid, a seafood-related toxin, on cultured cerebellar neurons. *Annals N.Y. Acad. Sci.* 679: 260-269.

**Fernandez MT**, Zitko V, Gascon S, Novelli A, 1991. The marine toxin okadaic acid is a potent neurotoxin for cultured cerebellar neurons. *Life Sci.* 49: PL-157 - PL-162.

**Fletcher GL**, Haya K, King MJ, ReismanyHM, 1985. Annual antifreeze cycles in Newfoundland, New Brunswick and Long Island winter flounder, *Pseudopleuronectes americanus*. *Mar. Ecol. Prog. Ser.* 21: 205-212.

**Fletcher GL**, Hew CL, Li XM, HayaK, Kao MH, 1985. Year round presence of high levels of plasma antifreeze peptides in a temperate fish: ocean pout, *Mactrozoarces americanus*. *Can. J. Zool.* 63: 488-493.

**Fletcher GL**, Kao MH, Haya K, 1984. Seasonal and phenotypic variations in plasma antifreeze levels in a population of marine fish sea raven (*Hemitripterus americanus*). *Can. J. Fish. Aquat. Sci.* 41: 819-824.

**Forrest TP**, Ray S, 1970. The CS<sub>2</sub>- group as a conformational probe for cyclic amines; Nuclear Magnetic Resonance Study. *Chem. Commun.* 1537.

- Gatermann R**, Hellou J, Huehnerfuss H, Rimkus G, Zitko V, 1999. Polycyclic and nitro musks in the environment: A comparison between Canadian and European aquatic biota samples. *Chemosphere* 38: 3431-3441.
- Geyer HJ**, Scheunert I, Brueggemann R, Matthies M, Steinberg CEW, Zitko V, Kettrup A, Garrison W, 1994. The relevance of aquatic organisms' lipid content to the toxicity of lipophilic chemicals: Toxicity of lindane to different fish species. *Ecotoxicol. Environ. Saf.* 28: 53-70.
- Goddard G**, Haya K, Boyer GL, 1999. Electrochemical oxidation system for the analysis of paralytic shellfish poisoning (PSP) toxins in natural shellfish samples. Pages 58-62 in *Proceedings of the Sixth Canadian Workshop on Harmful Marine Algae* (JL Martin and K Haya, eds). *Can. Tech. Rep. Fish. Aquat. Sci.* 2261.
- Haya K**, 1989. Toxicity of pyrethroid insecticides to fish. *Environ. Toxicol. Chem.* 8: 381-391.
- Haya K**, Burridge LE, 1988. Uptake and excretion of organochlorine pesticides by *Neris virens* under normoxic and hypoxic conditions. *Bull. Environ. Contam. Toxicol.* 40: 170-177.
- Haya K**, Johnston CE, Waiwood BA, 1980. Adenylate energy charge and ATPase activity in American lobster (*Homarus americanus*) from Belledune Harbour. Pages 85-91 in *Cadmium pollution of Belledune Harbour, New Brunswick, Canada* (JF Uthe and V Zitko, eds). *Can. Tech. Rep. Fish. Aquat. Sci.* 963.
- Haya K**, Waiwood BA, 1983. Adenylate energy charge and ATPase activity: potential biochemical indicators of sublethal effects caused by pollutants in aquatic animals. Pages 307-333 in *Aquatic toxicology* (JO Nriagu, ed). John Wiley and Sons, Inc., NY.
- Haya K**, Waiwood BA, 1981. Acid pH and chorionase activity of Atlantic salmon (*Salmo salar*) eggs. *Bull. Environm. Contam. Toxicol.* 27: 7-12.
- Haya K**, Waiwood BA, Burridge LE, Van Eeckhaute L, 1985. Liver energy metabolism and gill ATPase activity of *Salmo salar* juveniles after exposure to sublethal levels of phenols. Pages 521-535 in *Marine pollution and physiology: recent advances* (FJ Vernberg, FP Thurburg, A Calabrese and W Vernberg, eds). University of South Carolina Press, Columbia, SC.
- Haya K**, Waiwood BA, Johnston DW, 1983. Adenylate energy charge and

ATPase activity of lobster (*Homarus americanus*) during sublethal exposure to zinc. *Aquat. Toxicol.* 3: 115-126.

**Haya K**, Waiwood BA, Van Eeckhaute L, 1985. Disruption of energy metabolism and smoltification during exposure of juvenile Atlantic salmon (*Salmo salar*) to low pH. *Comp. Biochem. Physiol.* 82C: 323-329.

**Hellou J**, Steller S, Zitko V, Leonard J, King T, Milligan TG, Yeats P, 2002. Distribution of PACs in surficial sediments and bioavailability to mussels, *Mytilus edulis* of Halifax Harbour. *Mar. Environ. Res.* 53: 357-379.

**Hellou J**, Zitko V, Friel J, Alkanani T, 1996. Distribution of elements in tissues of yellowtail flounder *Pleuronectes ferruginea*. *Sci. Total Environ.* 181: 137-146.

**Hutzinger O**, Nash DM, Safe S, DeFreitas ASW, Norstrom RJ, Wildish DJ, Zitko V, 1972. Polychlorinated biphenyls: Metabolic behavior of pure isomers in pigeons, rats, and brook trout. *Science* 178: 312-313.

**Hutzinger O**, Tulp MThM, Zitko V, 1978. Chemicals with pollution potential. Pergamon Ser. Environ. Sci. 1 (Aquat. Pollut.: Transform. Biol. Eff. 1977): 13-31.

**Hutzinger O**, Zitko V, 1973. Contamination of Atlantic coastal areas with polychlorinated biphenyls (PCB), polychlorinated terphenyls (PCT), and related compounds. *Schriftenr. Versterkd. Wass-Boden-Lufthyg. Berlin-Dahlem*, H.37: 121-128.

**Ketchum-Bostwick H**, Zitko V, Saward D, 1975. Aspects of heavy metals and organohalogen pollution in aquatic ecosystems. Pages 75-90 in *Ecological Toxicology Research* (AD McIntyre and CF Mills, eds). Plenum Press, New York, NY

**Kind LS**, Ray S, Koshul P, 1975. Environmental galactans which react with IgA Myeloma T191B (38809). *Proc. Soc. Exp. Bio. Med.* 149: 367.

**Khots MS**, Zitko V, 1996. The development of techniques for the assessment of the significance of chemicals in sediments. *Can. Tech. Rep. Fish. Aquat. Sci.* 2123: iii+ 75 p

**Kozin I**, Gooijer C, Velthorst NH, Hellou J, Zitko V, 1996. 'Isomer specific detection of parent, methyl-, hydroxy-, amino-, and nitro-substituted polycyclic

aromatic hydrocarbons by means of high-resolution low temperature luminescence spectroscopy'. Pages 69-72 in Practical methods for environmental analysis (R Burk and RE Clement, eds). Proceedings of the EnviroAnalysis Conference, May 13 - 16, 1996, Ottawa, Ontario, Canada. Polyscience Publications Inc., Morin Heights, Canada.

**Kozin I, Gooijer C, Velthorst NH, Hellou J, Zitko V, 1996.** Isomer-specific detection of PAHs and PAH metabolites in environmental matrices by Shpol'skii luminiscence spectroscopy. *Chemosphere* 33 1435-1447.

**McLeese DW, 1980.** Uptake and excretion of cadmium by marine organisms from sea water with cadmium at low concentrations: A review. Pages 55-63 in Cadmium pollution of Belledune Harbour, New Brunswick, Canada (JF Uthe and V Zitko, eds). *Can. Tech. Rep. Fish. Aquat. Sci.* 963.

**McLeese DW, 1976.** Toxicity studies with lobster larvae and adults and a freshwater crayfish in 1975. *Fish. Res. Board Can. MS Rep.* 1384: 15 p.ú

**McLeese DW, 1976.** Fenitrothion toxicity to the freshwater crayfish, *Orconectes limosus*. *Bull. Environ. Contam. Toxicol.* 16: 411-416.

**McLeese DW, 1975.** Chemosensory response of American lobsters (*Homarus americanus*) in the presence of copper and phosphamidon. *J. Fish. Res. Board Can.* 32: 2055-2060.

**McLeese DW, 1974.** Olfactory response and fenitrothion toxicity in American lobsters (*Homarus americanus*). *J. Fish. Res. Board Can.* 31: 1127-1131.

**McLeese DW, 1974.** Toxicity of phosphamidon to American lobsters (*Homarus americanus*) held at 4 and 12 C. *J. Fish. Res. Board Can.* 31: 1556-1558.

**McLeese DW, 1974.** Toxicity of copper at two temperatures and three salinities to the American lobster (*Homarus americanus*). *J. Fish. Res. Board Can.* 31: 1949-1952.

**McLeese DW, 1973.** Response of lobsters, *Homarus americanus*, to odor solution in the presence of bleached kraft mill effluent. *J. Fish. Res. Board Can.* 30: 279-282.

**McLeese DW, 1970.** Behaviour of lobsters exposed to bleached kraft mill effluent. *J. Fish. Res. Board Can.* 27: 731-736.

**McLeese DW**, Metcalfe CD, 1980. Toxicities of eight organochlorine compounds in sediment and sea water to *Crangon septemspinosus*. Bull. Environm. Contam. Toxicol. 25: 921-928.

**McLeese DW**, Metcalfe CD, 1979. Toxicity of mixtures of phosphamidon and methidathion to lobsters (*Homarus americanus*). Chemosphere 8: 59-62.

**McLeese DW**, Metcalfe CD, 1979. Toxicity of creosote to larval and adult lobsters and Crangon and its accumulation in lobster hepatopancreas. Bull. Environm. Contam. Toxicol. 22: 796-799.

**McLeese DW**, Metcalfe CD, Pezzack D, 1980. Bioaccumulation of chlorobiphenyls and endrin from food by lobsters. Bull. Environm. Contam. Toxicol. 25: 161-169.

**McLeese DW**, Metcalfe CD, Pezzack D, 1980. Uptake of PCB's from sediments by *Nereis virens* and *Crangon septemspinosus*. Arch. Environm. Contam. Toxicol. 9: 507-515.

**McLeese DW**, Metcalfe CD, Zitko V, 1980. Lethality of permethrin, cypermethrin and fenvalerate to salmon, lobster and shrimp. Bull. Environm. Contam. Toxicol. 25: 950-955.

**McLeese DW**, Ray S, Metcalfe CD, 1979. Chlorinated hydrocarbon pesticides and polynuclear aromatic hydrocarbons in sediments and invertebrates from three coastal areas in New Brunswick, Canada: A natural bioassay. ICES C.M. 1979/E:28: 7 p.

**McLeese DW**, Sergeant DB, Metcalf CD, Zitko V, Burr ridge LE, 1980. Uptake and excretion of aminocarb, nonylphenol, and pesticide Diluent 585 by mussels (*Mytilus edulis*). Bull. Environm. Contam. Toxicol. 24: 575-581.

**McLeese DW**, Zitko V, Metcalfe CD, Sergeant DB, 1980. Lethality of aminocarb and the components of the aminocarb formulation to juvenile Atlantic salmon, marine invertebrates and a freshwater clam. Chemosphere 9: 79-82.

**McLeese DW**, Zitko V, Peterson MR, 1979. Structure-lethality relationships for phenols, anilines and other aromatic compounds in shrimp and clams. Chemosphere 8: 53-57.

**McLeese DW**, Zitko V, Sergeant DB, 1979. Uptake and excretion of

fenitrothion by clams and mussels. *Bull. Environm. Contam. Toxicol.* 22: 800-806.

**McLeese DW** and several co-authors, 1979. The role of behaviour in marine pollutions monitoring. *Rapp. P.-v. R.un. Cons. int. Explor. Mer* 179: 174-181.

**McLeese, DW**, V Zitko, DB Sergeant, LE Burr ridge, and CD Metcalfe. 1981. Lethality and accumulation of alkylphenols in aquatic fauna. *Chemosphere* 10: 723-730.

**Metcalfe CD**, McLeese DW, Zitko V, 1989. Rate of volatilization of fenitrothion from fresh water. *Chemosphere* 9: 151-155.

**Musial CJ**, Hutzinger O, Zitko V, Crocker J, 1974. Presence of PCB, DDE and DDT in human milk in the Provinces of New Brunswick and Nova Scotia, Canada. *Bull. Environ. Contam. Toxicol.* 12: 258-267.

**Musial CJ**, Uthe JF, Sirota GR, Gilgan M, Zitko V, Matheson RA, 1981. Isolation and characterization of di-n-hexyl phthalate (DHP) as a new contaminant in Atlantic herring (*Clupea harengus harengus*) and mackerel (*Scomber scombrus*). *Can. J. Fish. Aquat. Sci.* 38: 856-859.

**Novelli A**, Kispert J, Reilly A, Zitko V, 1990. Excitatory amino acids toxicity in cerebellar granule cells in primary culture. Pages 83-89 in Proceedings of a Symposium Domoic Acid Toxicity, Ottawa, Ontario 11-12 April 1989. Canada Diseases Weekly Report 16S1E, Supplement.

**Olla BL** (Chairman) and several co-authors, including McLeese DW, 1980. The role of behaviour in marine pollution monitoring. *Rapp. P.-v. Cons. int. Explor. Mer* 179: 174-181.

**Peterson RH**, 1979. Effects on fishes. Pages 83-85 in Workshop on Long-Range Transport for Air Pollution and Its Impacts on the Atlantic Region. AES, Atlantic Region.

**Peterson RH**, 1978. Variations in aquatic insect densities associated with copper-zinc concentrations. *Fish. Mar. Serv. MS Rep.* 1470: 3 p.

**Peterson RH**, 1976. Temperature selection of juvenile Atlantic salmon (*Salmo salar*) as influenced by various toxic substances. *J. Fish. Res. Board Can.* 33: 1722-1730.

**Peterson RH**, 1974. Influence of fenitrothion on swimming velocities of brook trout (*Salvelinus fontinalis*). J. Fish. Res. Board Can. 31: 1757-1762.

**Peterson RH**, 1974. Lethal responses of brook trout (*Salvelinus fontinalis* (Mitch.)) to dissolved copper as affected by prior sublethal exposure to the metal. Fish. Res. Board Can. MS Rep. 1309: 9 p.

**Peterson RH**, 1973. Temperature selection of juvenile Atlantic salmon (*Salmo salar* L.) exposed to some pesticides. Fish. Res. Board Can. MS Rep. 1251: 9 p.

**Peterson RH**, 1973. Temperature selection of Atlantic salmon (*Salmo salar*) and brook trout (*Salvelinus fontinalis*) as influenced by various chlorinated hydrocarbons. J. Fish. Res. Board Can. 30: 1091-1097.

**Peterson RH**, Daye PG, Metcalfe JL, 1980. Inhibition of Atlantic salmon (*Salmo salar*) hatching at low pH. Can. J. Fish. Aquat. Sci. 37: 770-774.

**Peterson RH**, Fletcher GF, Ray S, Doane J, 1972. Analysis of a chlorinated terphenyl (Aroclor 5460) and its deposition in tissues of cod (*Gadus morhua*). Bull. Environ. Contam. Toxicol. 8, 52.

**Peterson RH**, Martin-Robichaud DJ, Power J, 1988. Toxicity of potash brines to early developmental stages of Atlantic salmon (*Salmo salar*). Bull. Environ. Contam. Toxicol. 41: 391-397.

**Peterson RH**, Zitko V, 1974. Variations in insect drift associated with operational and experimental contamination with fenitrothion in New Brunswick. Fish. Res. Board Can. Tech. Rep. 439: 23 p.

**Poole NJ**, Parkes RJ, Wildish DJ, 1977. The reactions of the estuarine ecosystem to effluent from the pulp and paper industry. Helgol. Wiss. Meeresunters. 30: 622-632.

**Poole NJ**, Wildish DJ, Kristmanson DD, 1978. The effects of the pulp and paper industry on the aquatic environment. CRC Critical Review in the Environmental Control 8: 153-195.

**Poole NJ**, Wildish DJ, Lister NA, 1976. The use of microecosystem models to investigate pollution by pulp mill effluent. Fish. Res. Board Can. MS Rep. 1403.

- Prakash A**, Medcof JC, 1962. Hydrographic and meteorological factors affecting shellfish toxicity at Head Harbour, New Brunswick. *J. Fish. Res. Board Can.* 19: 101-112.
- Ray S**, 1978. Bioaccumulation of lead in Atlantic salmon (*Salmo salar*). *Bull. Environ. Contam. Toxicol.* 19: 631.
- Ray S**, Banerjee PK, Basu AN, 1964. Recovery of low boiling pyridine bases from crude benzole by ion-exchange. *Indian J. Technol.* 2: 59.
- Ray S**, Coffin J, 1977. Ecological effects of cadmium pollution in the aquatic environment: A review. *Fish. Mar. Serv. Tech. Rep.* 734.
- Ray S**, McLeese DW, Metcalfe CD, 1979. Heavy metals in sediments and in invertebrates from three coastal areas in New Brunswick, Canada: a natural bioassay. *ICES CIM.1979/E:29*: 6 p.
- Ray S**, McLeese DW, Pezzack D, 1979. Chelation and interelemental effects on the bioaccumulation of heavy metals by marine invertebrates. *Proc. Intern. Conf. Management and Control of Heavy Metals in the Environment, London, U.K.*: 35-38.
- Ray S**, McLeese DW, Zitko V, 1981. Sediment sorption and toxicity of organochlorine pesticides to marine invertebrates. Pages 356-363 in *Halogenated hydrocarbons: health and ecological effects* (MAQ Khan, RH Stanton, eds.). Pergamon Press, New York.
- Ray S**, White W, 1979. Equisetum arvense - An aquatic vascular plant as a biological monitor for heavy metal pollution. *Chemosphere* 8: 125-128.
- Ray S**, White, WJ, 1977. Some observations on heavy metal concentration in Northeastern New Brunswick estuarine surficial sediments. *Fish. Mar. Serv. Tech. Rep.* 696.
- Ray S**, White W, 1976. Selected aquatic plants as indicator species for heavy metal pollution. *J. Environ. Sci. Health A11*: 717-725.
- Roots O**, Zitko V, 2002. Polychlorinated biphenyls patterns in grey seals (*Halichoerchus grypus*). *Ekologicheskaya Khimya* 11: 68-71.
- Saunders JW**, 1969. Mass mortalities and behaviour of brook trout and juvenile Atlantic salmon in a stream polluted by agricultural pesticides. *J. Fish.*



Res. Board Can. 26: 695-699.

**Scarratt DJ**, 1974. Impact of spills and clean-up technology on living natural resources and resource-based industry. Pages 141-158 *in* Summary of physical, biological, socio-economic and other factors relevant to potential oil spills in the Passamaquoddy region of the Bay of Fundy. Fish. Res. Board Can. Tech. Rep. 428.

**Scarratt DJ**, 1969. Bleached kraft mill effluent near Pictou, N. S., and its effect on the marine flora and fauna with a note on the Pictou Co. lobster landings. Fish. Res. Board Can. MS Rep. 1037: 24 p.

**Scarratt DJ**, Sprague JB, Wilder DG, Zitko V, Anderson JM, 1970. Some biological and chemical investigations of a major winter oil spill on the Canadian east coast. Int. Counc. Explor. Sea C.M. 1970/E:14: 7 p.

**Scarratt DJ**, Zitko V, 1975. Sublittoral sediment and benthos sampling and littoral observations in Chedabucto Bay, April 1973. Pages 78-79 in Proc. Conf. "Oil and the Canadian Environment," May 16, 1973 (D MacKay and W Harrison, ed.). Institute of Environmental Science and Engineering, University of Toronto.

**Scarratt DJ**, Zitko V, 1972. Bunker C oil in sediments and benthic animals from shallow depths in Chedabucto Bay, N. S. J. Fish. Res. Board Can. 29: 1347-1350.

**Scarratt DJ**, Wilson AJ, 1970. Experiments with rotenone in Northumberland Strait and stomach analysis of fish collected. Fish. Res. Board Can. MS Rep. 1107: 8 p.

**Sergeant DB**, Zitko V, 1979. The determination of trichlorfon, dichlorvos, fenitrothion and phosphamidon in water. Fish. Mar. Serv. Tech. Rep. 886: 12 p.

**Sergeant DB**, Zitko V, Burridge LE, 1981. Sampling, analysis and data evaluation of precipitation at St. Andrews, New Brunswick, Canada, 1978-1980. Can. Tech. Rep. Fish. Aquat. Sci. 1023: 26 p.

**Sergeant DB**, Zitko V, Burridge LE, 1979. The preservation, extraction and determination of dinoseb and aninocarb in water. Fish. Mar. Serv. Tech. Rep. 887: 20 p.

**Sergeant DB**, Zitko V, Burrige LE, 1979. The determination of fenitrothion in bivalves. Fish. Mar. Serv. Tech. Rep. 906: 27 p.

**Sprague JB**, 1970. Measurement of pollutant toxicity to fish. II. Utilizing and applying bioassay results. Water Res. 4: 3-32.

**Sprague JB**, Carson WG, 1970. Spot-checks of mercury residues in some fishes from the Canadian Atlantic coast. Fish. Res. Board Can. MS Rep. 1085: 16 p.

**Sprague JB**, Carson WG, 1970. Toxicity tests with oil dispersants in connection with oil spill at Chedabucto Bay, Nova Scotia. Fish. Res. Board Can. Tech. Rep. 201: 30 p.

**Sprague JB**, Carson WV, 1968. Chemical conditions in the Northwest Miramichi River during 1967. Fish. Res. Board Can. MS Rep. 959: 38 p.

**Sprague JB**, Carson WV, 1967. Chemical conditions in the Northwest Miramichi River during 1966. Fish. Res. Board Can. MS Rep. 909: 35 p.

**Sprague JB**, Carson WV, 1966. Chemical conditions in the Northwest Miramichi River during 1965. MS Rep. Oceanogr. Limnol. 210: 27 p.

**Sprague JB**, Carson WV, 1965. Chemical conditions in the Northwest Miramichi River during 1964. MS Rep. Oceanogr. Limnol. 192: 26 p.

**Sprague JB**, Carson WV, Schofield EJ, 1968. Zinc-copper pollution in Miramichi River, summer 1967. Chemical autopsy on dead fish and interpretation of associated field data. Fish. Res. Board Can. MS Rep. 962: 31 p.

**Sprague JB**, Carson WG, Vass WP, 1968. NTA and other sequestrants to protect salmonid fish from copper and zinc in fresh water. Fish. Res. Board Can. MS Rep. 992: 26 p.

**Sprague JB**, Duffy JR, Carson WG, 1969. Measurement of DDT residues in marine commercial fish and shellfish collected in Atlantic Canada in 1967. Fish. Res. Board Can. MS Rep. 1061: 28 p.

**Sprague JB**, McLeese DW, 1968. Different toxic agents in bleached kraft mill effluent for two aquatic animals, indicated by changes in toxicity during storage and bio-oxidation. Fish. Res. Board Can. MS Rep. 986: 9 p.

**Sprague JB**, McLeese DW, 1968. Toxicity of kraft pulp mill effluent for larval and adult lobsters, and juvenile salmon. *Water Res.* 2: 753-760.

**Sprague JB**, McLeese DW, 1968. Different toxic mechanisms in kraft pulp mill effluent for two aquatic animals. *Water Res.* 2: 761-765.

**Sprague JB**, McLeese DW, 1968. Toxicity of bleached kraft mill effluent to larval and adult lobsters and Atlantic salmon. Pages 431-433 in *Technical Section: Pulp and Paper Magazine of Canada*, December 1968. Presented at Third Paper Industry Air and Stream Improvement Conference, Vancouver, B. C., October 1967.

**Sprague JB**, McLeese DW, 1968. Lethal concentrations of neutralized bleached kraft pulp mill effluent for larval lobsters, adult lobsters, and juvenile salmon. *Fish. Res. Board Can. MS Rep.* 985: 15 p.

**Tulp MThM**, Haya K, Carson WG, Zitko V, Hutzinger O, 1979. Effect of salinity on uptake of <sup>14</sup>C-2,2',4,5,5'-pentachlorobiphenyl by juvenile Atlantic salmon. *Chemosphere* 8: 243-249.

**Waddy SL**, Hamilton MN, Burrige LE, Mercer SM, Aiken DE, Haya K, 2003. Molting response of female lobsters (*Homarus americanus*) to emamectin benzoate varies with reproductive stage. Pages 75-77 in *Aquaculture Canada 2002, Proceedings of the contributed papers of the 19th Annual Meeting of the Aquaculture Association of Canada*, Charlottetown, PEI (CI Hendry, ed.). *Aquacult. Assoc. Can. Spec. Pub.* 6.

**Waiwood BA**, Haya K, 1983. Levels of chorionase activity during development of *Salmo salar* under acidic conditions. *Bull. Environm. Contam. Toxicol.* 30: 511-515.

**Waiwood BA**, Zitko V, Haya K, Burrige LE, McLeese DW, 1987. Uptake and excretion of zinc by several tissues of lobster (*Homarus americanus*). *Environ. Toxicol. Chem.* 6: 27-32.

**Wildish DJ**, 1974. Lethal response by Atlantic salmon parr to some polyoxyethylated cationic and nonionic surfactants. *Water Res.* 8: 433-437.

**Wildish DJ**, 1974. Arrestant effect of polyoxyethylene esters on swimming in the winter flounder. *Water Res.* 8: 579-583.

**Wildish DJ**, 1974. Total body lipid and brain acetylcholinesterase activity of

brook trout exposed to fenitrothion. Fish. Res. Board Can. MS Rep. 1306: 15 p.

**Wildish DJ**, 1972. Acute lethality of some nonionic and cationic surfactants to *S. salar* and *G. oceanicus*. Fish. Res. Board Can. MS Rep. 1212: 7 p. + appendices.

**Wildish DJ**, 1972. Acute toxicity of polyoxyethylene esters and polyoxyethylene ethers of *S. salar* and *G. oceanicus*. Water Res. 6: 759-762.

**Wildish DJ**, 1972. Polychlorinated biphenyls (PCB) in sea water and their effect on reproduction of *Gammarus oceanicus*. Bull. Environ. Contam. Toxicol. 7: 182-187.

**Wildish DJ**, 1970. The toxicity of polychlorinated biphenyls (PCB) in sea water to *Gammarus oceanicus*. Bull. Environ. Contam. Toxicol. 5: 202-204.

**Wildish DJ**, 1970. Polychlorinated biphenyls in seawater: bioassay of *Gammarus oceanicus*. Fish. Res. Board Can. MS Rep. 1084: 24 p.

**Wildish DJ**, Akagi H, Poole NJ, 1977. Avoidance by herring of dissolved components in pulp mill effluents. Bull. Environ. Contam. Toxicol. 18: 521-525.

**Wildish DJ**, Akagi H, Poole NJ, 1976. Avoidance by herring of sulphite pulp mill effluents. ICES, C.M. 1976/E:26, Fisheries Improvement Committee: 8 p.

**Wildish DJ**, Beatty D, 1973. In vitro hydrolysis of polyoxyethylene esters by tissues of the American eel and Atlantic salmon. Bull. Environ. Contam. Toxicol. 9: 212-217

**Wildish DJ**, Lister NA, 1977. Effects of dietary fenitrothion on growth and hierarchical position in brook trout. Prog. Fish-Cult. 39: 3-9.

**Wildish DJ**, Lister NA, 1973. Biological effects of fenitrothion in the diet of brook trout. Bull. Environ. Contam. Toxicol. 10: 333-339.

**Wildish DJ**, Lister NJ, 1971. The acute toxicity of the oil dispersant Gulf Agent 1009, LS-3712 to aquatic fauna. Fish. Res. Board Can. MS Rep. 976: 6 p. + appendices.

**Wildish DJ**, Poole NJ, Kristmanson DD, 1979. Pulp mill pollution in L'Etang

estuary. A case history and clean-up alternatives. Fish. Mar. Serv. Tech. Rep. 884: 6 p.

**Wildish DJ**, Poole NJ, Kristmanson DD, 1977. Temporal changes of sublittoral macrofauna in L'Etang Inlet caused by sulfite pulp mill pollution. Fish. Mar. Serv. Tech. Rep. 718: 13 p.

**Wildish DJ**, Poole NJ, Kristmanson DD, 1976. The effect of anaerobiosis on measurement of sulfite pulp mill effluent concentration in estuarine water by U.V. spectrophotometry. Bull. Environ. Contam. Toxicol. 16: 208-213.

**Wildish DJ**, Wilson AJ, Akagi H, 1977. Avoidance by herring of suspended sediment from dredge spoil dumping. ICES, C.M. 1977/E:11: 6 p.

**Wildish DJ**, Carson WG, 1971. The acute toxicity of an oil dispersant, Atomic Clean +, to aquatic fauna. Fish. Res. Board Can. MS Rep. 1125: 7 p.

**Wildish DJ**, Carson WG, Carson WV, 1971. The effect of humic substances on copper and zinc toxicity to salmon, *S. salar* L. Fish. Res. Board Can. MS Rep. 1160: 8 p. + appendices.

**Wildish DJ**, Carson WG, Cunningham T, Lister NJ, 1971. Toxicological effects of some organophosphate insecticides to Atlantic salmon. Fish. Res. Board Can. MS Rep. 1157: 22 p. + appendices.

**Wildish DJ**, Carson WG, Carson WV, Hull JH, 1972. Effects of a neutral-sulphite, pulp effluent on some chemical and biological parameters in the L'Etang Inlet, New Brunswick. L'Etang Inlet Survey I. Fish. Res. Board Can. MS Rep. 1177: 18 p.

**Wildish DJ**, Carson WV, Wilson AJ, Hull JH, 1974. Effects of a neutral-sulphite, pulp effluent on some chemical and biological parameters in the L'Etang Inlet, New Brunswick. L'Etang Inlet Survey II. Fish. Res. Board Can. MS Rep. 1295: 12 p. + 7 appendices.

**Wildish DJ**, Phillips RL, 1974. An identification stratagem for benthos collected to assess marine and estuarine pollution. Fish. Res. Board Can. Tech. Rep. 450: 31 p.

**Wildish DJ**, Phillips RL, 1972. Acute lethality of fenitrothion to freshwater aquatic insects. Fish. Res. Board Can. MS Rep. 1210: 7 p. + appendices

**Wildish D**, Zitko V, 1991. Chemical oceanographic conditions in Blacks Harbor, N.B., 1989-91. Can. Manusc. Rep. Fish. Aquat. Sci. 2132: iii + 11 p.

**Wildish DJ**, Zitko V, Akagi HM, Wilson AJ, 1990. Sedimentary anoxia caused by salmonid mariculture wastes in the Bay of Fundy and its effects on dissolved oxygen in seawater. Pages 11-18 in Proceedings of Canada-Norway Finfish Aquaculture Workshop, September 11-14, 1989 (RL Saunders, ed). Can. Tech. Rep. Fish Aquat. Sci. 1761:v +177 p.

**Wildish DJ**, Zitko V, 1971. Uptake of polychlorinated biphenyls from sea water by *Gammarus oceanicus*. Mar. Biol. 9: 213-218.

**Zitko V**, 2003. Chlorinated pesticides: Aldrin, DDT, endrin, dieldrin, mirex. Pages 47-90 in The Handbook of Environmental Chemistry (H. Fiedler, ed), Volume 3, Part O, Persistent Organic Pollutants. Springer Verlag Berlin, Heidelberg.

**Zitko V**, 2003. Hexachlorobenzene. Pages 91-122 in The Handbook of Environmental Chemistry (H. Fiedler, ed), Volume 3, Part O, Persistent Organic Pollutants. Springer Verlag Berlin, Heidelberg.

**Zitko V**, 2000. Marine pollution. Pages 75-109 in The Handbook of Environmental Chemistry, Volume: Marine Chemistry (P Wangersky, ed), Volume 5, Water pollution, Part D. Springer Verlag, Heidelberg.

**Zitko V**, 2000. Screening sediments from Marsh Creek, Saint John, New Brunswick for aromatic hydrocarbons. Can. Tech. Rep. Fish. Aquat. Sci. 2307: iii + 31 p.

**Zitko V**, 1999. Qualitative determination of 10,10'-oxybisphenoxarsine and decabromodiphenyl ether in plastics. Chemosphere 38 629-632.

**Zitko V**, 1999. PAHs in Saint John harbour sediments - an evaluation of 1996-1999 results. Can. Tech. Rep. Fish. Aquat. Sci. 2290: iii + 48 p.

**Zitko V**, 1999. Chemical characteristics of the effluent from the Lake Utopia Paper Ltd. Pulp mill and water and sediment from the Upper Letang estuary. Can. Manusc. Rep. Fish. Aquat. Sci. 2498: iii + 14 p.

**Zitko V**, 1998. Book review: Chemometrics in Environmental Analysis. Chemom and Intell Lab Systems 40: 119-120.

**Zitko V**, 1997. Environmental chemistry and the Bay of Fundy. Pages 97-100 in Coastal Monitoring and the Bay of Fundy, Proceedings of the Maritime Atlantic Ecozone Science Workshop held in St. Andrews, New Brunswick [November 11-15, 1997] (MDB Burt and PG Wells, ed). Huntsman Marine Science Centre, St. Andrews, NB.

**Zitko V**, 1997. Mercury concentrations in freshwater fish. Environmental Monitoring Update. New Brunswick Department of the Environment.

**Zitko V**, 1996. Book Review. The Handbook of Environmental Chemistry, Editor-in-Chief O. Hutzinger. Vol. 2.H. Pages 128-131 in Chemometrics in Environmental Chemistry, Applications (J Einax, ed). Chemom. Intell. Lab. Systems 32.

**Zitko V**, 1995. A simple numerical code for polychlorinated biphenyls..., Letter to the Editor. Chemosphere 31: 3383-3385.

**Zitko V**, 1995. Fifty years of research on the Miramichi River. Pages 29-41 in Water, science, and the public: the Miramichi ecosystem (EMP Chadwick, ed). Can. Spec. Publ. Fish. Aquat. Sci. 123: 300 p.

**Zitko V**, 1994. Chemicals in aquaculture (An overview). Pages 97-106 in Proceedings of the Canada-Norway Workshop on Environmental Impacts of Aquaculture (A Ervik, P Kupka Hansen and V Wennevik, eds). Havforskningssinstituttet Bergen.

**Zitko V**, 1994. Principal Component Analysis in the evaluation of environmental data. Mar. Pollut. Bull. 28: 718-722.

**Zitko V**, 1994. TLC detection of brominated flame retardants in styrofoam. Chemosphere 28: 1211-1215.

**Zitko V**, 1993. Patterns of polynuclear aromatic hydrocarbons (PAH) in sediments. Centrl. Europ. J. Publ. Health 1(2): 125-129.

**Zitko V**, 1993. Expanded polystyrene as a source of contaminants. Mar. Pollut. Bull. 26: 584-585.

**Zitko V**, 1992. Assessment of the significance of chemicals in sediments. J. Environ. Sci. Health A27: 273-281.

**Zitko V**, 1992. Patterns of 2,3,7,8-substituted chlorinated dibenzodioxins and

dibenzofurans in aquatic fauna. *Sci. Total Environ.* 111: 95-108.

**Zitko V**, 1991. Prediction of biodegradability of organic chemicals by an artificial neural network. *Chemosphere* 23: 305-312.

**Zitko V**, 1990. Priority ranking of chemicals for risk assessment. *Sci. Total Environ.* 92:29-39.

**Zitko V**, 1990. "Butterflies" for pattern recognition. *ACCESS* Jan/Feb: 4-6, 8.

**Zitko V**, 1989. Characterization of PCBs by principal components analysis (PCA of PCB). *Mar. Pollut. Bull.* 20: 26-27.

**Zitko V**, 1989. A simple look at the structure of data matrices. *Trends Anal. Chem.* 8: 161-162.

**Zitko V**, 1989. Composition of chlorinated dibenzodioxins and dibenzofurans in various samples. *Sci. Total Environ.* 80: 127-137.

**Zitko V**, 1988. Multivariate classification of chlorobiphenyls according to enzyme induction. *Chemosphere* 17: 1111-1116.

**Zitko V**, 1988. Display of the composition of polychlorinated biphenyls. *Anal. Chem.* 60:1998-2000.

**Zitko V**, 1988. Classification of byzantine glass samples by principal component analysis. *Z. Anal. Chem.* 331: 614-615.

**Zitko V**, 1988. Versatile reading of numeric files. *ACCESS* July/August: 38-40.

**Zitko V**, 1988. Environmental impact of organic chemicals. Pages 41-64 in *Environmental Protection of the North Sea* (PJ Newman and AR Agg, eds). Heinemann Professional Publishing, Oxford.

**Zitko, V**, 1987. Analytical chemistry solving problems in pollution and aquaculture. Proceedings, Oceans 87 Conference and Symposium Halifax, Nova Scotia, September 28 - October 1, 1987. Marine Technology Society, Institute of Electrical and Electronics Engineering.

**Zitko V**, 1987. Presentation of multivariate data in two dimensions by "Biplot" *ACCESS* 6:(6) 17-26.



**Zitko V**, 1987. A matrix calculator. *ACCESS* 6:(5) 4-13.

**Zitko V**, 1987. Computer as a versatile research assistant. *J. Chem. Inf. Comput. Sci.* 27: 3-7 + *Suppl. Mat. Append* 1-5 (40 p).

**Zitko V**, 1986. Multidimensional data display by nonlinear mapping. *Can. Tech. Rep. Fish. Aquat. Sci.* 1428: iii +10 p. + Appendix.

**Zitko V**, 1986. Multicompartment models of uptake and excretion of chemicals. *Can. Tech. Rep. Fish. Aquat. Sci.* 1421: iii + 8 p. + Appendix.

**Zitko V**, 1986. Simplex optimization. *ACCESS* Sept/Oct 5: 6-17.

**Zitko V**, 1981. Contaminants in lobsters from an experimental culture facility. *Can. Tech. Rep. Fish. Aquat. Sci.* 1027: 19 p.

**Zitko V**, 1980. The uptake and excretion of mirex and dechloranes by juvenile Atlantic salmon. *Chemosphere* 9: 73-78.

**Zitko V**, 1980. PCB and other organochlorine compounds in sharks and tunas. *Int. Counc. Explor. Sea C.M.* 1980/E:21.

**Zitko V**, 1980. Relationships governing the behaviour of pollutants in aquatic ecosystems and their use in risk assessment. Pages 243-265 in *Proceedings of the Sixth Annual Aquatic Toxicity Workshop, November 6 & 7, 1979*, Winnipeg, Manitoba (JF Klaverkamp, SL Leonhard, KE Marshall (eds.)). *Can. Tech. Rep. Fish. Aquat. Sci.* 975.

**Zitko V**, 1979. The fate of highly brominated aromatic hydrocarbons in fish. Pages 177-182 in *Pesticide and Xenobiotic Metabolism in Aquatic Organisms* (MAQ Khan, JJ Lech, and JJ Menn, eds). ACS Symposium Series 99, ACS, Washington, D.C. 1979.

**Zitko V**, 1979. TCB levels in human adipose tissue and population density. *Chemosphere* 8: 45-46.

**Zitko V**, 1979. An equation of lethality curves in tests with aquatic fauna. *Chemosphere* 8: 47-51.

**Zitko V**, 1978. Nonachlor and chlordane in aquatic fauna. *Chemosphere* 7: 3-7.

**Zitko V**, 1977. Uptake and excretion of chlorinated and brominated hydrocarbons by fish. *Fish. Mar. Serv. Tech. Rep.* 737: 14 p.

**Zitko V**, 1977. The accumulation of polybrominated biphenyls by fish. *Bull. Environ. Contam. Toxicol.* 17: 285-292.

**Zitko V**, 1976. Levels of chlorinated hydrocarbons in eggs of double-crested cormorants from 1971 to 1975. *Bull. Environ. Contam. Toxicol.* 16: 399-405.

**Zitko V**, 1976. Chemistry in the determination of toxicity of chemicals to aquatic fauna. Pages 41-48 in *Proc. 3rd Aquatic Toxicity Workshop*, Halifax, N. S., Nov. 2-3, 1976. *Environ. Protect. Serv. Tech. Rep.* EPS-5-AR-73-1, Halifax, Canada.

**Zitko V**, 1975. Aquatic Pollution Centre, University of Alexandria. UNESCO No. 3126/RMO.RD/SCE: 41 p.

**Zitko V**, 1975. Potentially persistent industrial organic chemicals other than PCB. Pages 197-206 in *Ecological Toxicology Research* (AD McIntyre and CF Mills, eds.). Plenum Publishing Corporation, New York.

**Zitko V**, 1975. Toxicity and pollution potential of thallium. *Sci. Total Environ.* 4: 185-192.

**Zitko V**, 1975. Toxicity and environmental properties of chemicals used in well-drilling operations. Pages 311-326 in *Proc. Conf. on Environmental Aspects of Chemical Use in Well-Drilling Operations*, Houston, Texas, May 1975.

**Zitko V**, 1975. Aromatic hydrocarbons in aquatic fauna. *Bull. Environ. Contam. Toxicol.* 14: 621-631.

**Zitko V**, 1975. Structure-activity relationships in fish toxicology. Pages 7-24 in *Symposium on Structure-Activity Correlations in Studies of Toxicity and Bioconcentration with Aquatic Organisms* (GD Veith and DE Konasewich, eds). Int. Joint Commission, Great Lakes Research Advisory Board.

**Zitko V**, 1975. Chemistry, applications, toxicity, and pollution potential of thallium. *Fish. Mar. Serv. Res. Dev. Tech. Rep.* 518: 41 p.

**Zitko V**, 1975. The detection of aromatic and chlorinated hydrocarbons in marine lipids. *Fish. Res. Board Can. MS Rep.* 1349: 14 p.

**Zitko V**, 1975. Effects of pollutants on marine life. A review of research in Canada in 1974-75. Fish. Res. Board Can. MS Rep. 1361: 20 p.

**Zitko V**, 1975. Chemicals and the aquatic environment. Fish. Res. Board Can. MS Rep. 1364: 22 p.

**Zitko V**, 1974. Confirmation of chlorinated paraffins by dechlorination. J. Assoc. Off. Anal. Chem. 57: 1253-1259.

**Zitko V**, 1974. Uptake of chlorinated paraffins and PCB from suspended solids and foods by juvenile Atlantic salmon. Bull. Environ. Contam. Toxicol. 12: 406-412.

**Zitko V**, 1974. Trends of PCB and DDT in fish and aquatic birds. Proceedings of the International Conference on Transport of Persistent Chemicals in Aquatic Ecosystems. Ottawa. III-61-III-64.

**Zitko V**, 1974. Effects of pollutants on marine life. A review of research in Canada in 1973-74. Fish. Res. Board Can. MS Rep. 1324: 17 p.

**Zitko V**, 1973. Determination of phthalates in biological samples. Int. J. Environ. Anal. Chem. 2: 241-252.

**Zitko V**, 1973. Chromatography of chlorinated paraffins on alumina and silica columns. J. Chromatogr. 81: 152-155.

**Zitko V**, 1972. Absence of chlorinated dibenzodioxins and dibenzofurans from aquatic animals. Bull. Environ. Contam. Toxicol. 7: 105-110.

**Zitko V**, 1972. Problems in the determination of polychlorinated biphenyls. Int. J. Environ. Anal. Chem. 1: 221-231.

**Zitko V**, 1972. Determination, toxicity, and environmental levels of phthalate plasticizers. Fish. Res. Board Can. Tech. Rep. 344: 37 p.

**Zitko V**, 1971. Organic compounds in the Mactaquac impoundment. Fish. Res. Board Can. MS Rep. 1040: 31 p.

**Zitko V**, 1971. Removal of protein-bound methylmercury. Fish. Res. Board Can. MS Rep. 1131: 11 p.

- Zitko V**, 1971. Determination of residual fuel oil contamination of aquatic animals. *Bull. Environ. Contam. Toxicol.* 5: 559-564.
- Zitko V**, 1971. Effects of pesticide-grade hexanes on the silicic acid chromatography of polychlorinated biphenyls and organochlorine pesticides. *J. Chromatogr.* 59: 444-445.
- Zitko V**, 1971. Polychlorinated biphenyls and organochlorine pesticides in some freshwater and marine fishes. *Bull. Environ. Contam. Toxicol.* 6: 464-470.
- Zitko V**, 1970. Polychlorinated biphenyls (PCB) solubilized in water by nonionic surfactants for studies of toxicity to aquatic animals. *Bull. Environ. Contam. Toxicol.* 5: 279-285.
- Zitko V**, 1970. Polychlorinated biphenyls: Determination by optical methods, solubility and solubilization in water, preliminary results on toxicity to salmon. *Fish. Res. Board Can. MS Rep.* 1083: 46 p.
- Zitko V**, 1970. Organic compounds in the Mactaquac impoundment. *Fish. Res. Board Can. MS Rep.* 1040: 31 p.
- Zitko V**, Aiken DE, Tibbo SN, Besch KWT, Anderson JM, 1970. Toxicity of yellow phosphorus to herring (*Clupea harengus*), Atlantic salmon (*Salmo salar*), lobster (*Homarus americanus*), and beach flea (*Gammarus oceanicus*). *J. Fish. Res. Bd. Canada* 27: 21-29
- Zitko V**, Anderson JM, Tibbo SN, 1969. Toxicity of phosphorus-production wastes to fish. *Fish. Res. Board Can. MS Rep.* 1050: 32 p.
- Zitko V**, Arsenault E, 1977. Fate of high-molecular weight chlorinated paraffins in the aquatic environment. Pages 409-418 in *Advances in Environmental Science and Technology*, Vol. 8.2 (IH Suffet, ed). Wiley-Interscience.
- Zitko V**, Arsenault E, 1975. Fate of high-molecular weight chlorinated paraffins in the the aquatic environment. *Amer. Chem. Soc., Div. Environ. Chem.* 15: 174-176.
- Zitko V**, Arsenault E, 1974. Chlorinated paraffins: Properties, uses, and pollution potential. *Fish. Mar. Serv. Res. Dev. Tech. Rep.* 491: 38 p.

**Zitko V**, Burridge LE, 2000. Charcoal the cause of a fish kill? Can. Manuscr. Rep. Fish. Aquat. Sci. 2503: iii + 4 p.

**Zitko V**, Carson WG, 1977. A comparison of the uptake of PCB's and isopropyl-PCB's (Chloralkylene 12) by fish. Chemosphere 6: 133-140.

**Zitko V**, Carson WG, 1977. Seasonal and developmental variation in the acute toxicity of zinc to juvenile Atlantic salmon (*Salmo salar*). J. Fish. Res. Board Can. 34: 139-141.

**Zitko V**, Carson WG, 1977. Uptake and excretion of chlorinated diphenyl ethers and brominated toluenes by fish. Chemosphere 6: 293-301.

**Zitko V**, Carson WG, 1976. A mechanism of the effects of water hardness on the lethality of heavy metals to fish. Chemosphere 5: 299-303.

**Zitko V**, Carson WV, 1975. Accumulation of thallium in clams and mussels. Bull. Environ. Contam. Toxicol. 14: 530-533.

**Zitko V**, Carson WG, Metcalfe CD, 1977. Toxicity of pyrethroids to juvenile Atlantic salmon. Bull. Environ. Contam. Toxicol. 19: 35-41.

**Zitko V**, Carson WG, 1974. Avoidance of organic solvents and substituted phenols by juvenile Atlantic salmon. Fish. Res. Board Can. MS Rep. 1327: 13 p.

**Zitko V**, Carson WV, 1971. Heavy metals in the precipitation in the vicinity of St. Andrews, N. B. Fish. Res. Board Can. MS Rep. 1129: 9 p.

**Zitko V**, Carson WV, 1971. Resin acids and other organic compounds in groundwood and sulfate mill effluents and foams. Fish. Res. Board Can. MS Rep. 1134: 28 p.

**Zitko V**, Carson WV, 1971. Chemical conditions in the Northwest Miramichi River during 1970. Fish. Res. Board Can. MS Rep. 1140: 30 p.

**Zitko V**, Carson WV, 1970. Chemical Conditions in the Northwest Miramichi River in 1969. Fish. Res. Board Can. MS Rep. 1104: 32 p.

**Zitko V**, Carson WV, 1970. The characterization of petroleum oils and their determination in the aquatic environment. Fish. Res. Board Can. Tech. Rep. 217:29 p.

**Zitko V**, Carson WV, 1969. Chemical conditions in the Northwest Miramichi River during 1968. Fish. Res. Bd. Canada MS Rep. 1023: 26 p.

**Zitko V**, Carson WV, 1969. Analysis of the effluent from the Domtar Wood Preserving Plant at Newcastle, N. B. Fish. Res. Board Can. MS Rep. 1024: 20 p.

**Zitko V**, Carson WV, 1969. Acid pollution of the South Little River, N. B. Fish. Res. Board Can. MS Rep. 1041: 31 p.

**Zitko V**, Carson WV, Carson WG, 1975. Thallium: Occurrence in the environment and toxicity to fish. Bull. Environ. Contam. Toxicol. 13: 23-30.

**Zitko V**, Carson WV, Carson WG, 1973. Prediction of incipient lethal levels of copper to juvenile Atlantic salmon in the presence of humic acid by cupric electrode. Bull. Environ. Contam. Toxicol. 10: 265-271.

**Zitko V**, Carson WG, Carson WV, 1969. Wood preserving plant effluent: chemical composition, toxicity to salmon and trout. Fish. Res. Board Can. MS Rep. 1042:36 p.

**Zitko V**, Carson WG, Carson WV, 1969. Bunker C oil. Dispersibility in water by Corexit and XZIT at different temperatures. Fish. Res. Board Can. MS Rep. 1043: 53 p.

**Zitko V**, Carson WV, Finlayson BJ, 1970. The inhibition of fish brain acetylcholinesterase activity by fenitrothion, Bay 77488, and Dylox, and by the 1969 aerial spraying of fenitrothion in New Brunswick. Fish. Res. Board Can. MS Rep. No. 1108: 11 p.

**Zitko V**, Choi PMK, 1973. Oral toxicity of chlorinated dibenzofurans to juvenile Atlantic salmon. Bull. Environ. Contam. Toxicol. 10: 120-122.

**Zitko V**, Choi PMK, 1972. Halogenated hydrocarbons in the environment. J. Environ. Pollut. Contr. 8: 39 (In Japanese).

**Zitko V**, Choi PMK, 1972. PCB and p, p'-DDE in eggs of cormorants, gulls, and ducks from the Bay of Fundy, Canada. Bull. Environ. Contam. Toxicol. 7: 63-64.

**Zitko V**, Choi PMK, 1971. PCB and other industrial halogenated hydrocarbons in the environment. Fish. Res. Board Can. Tech. Rep. 272: 48 p. + appendix.

- Zitko V**, Choi PMK, Wildish DJ, Monaghan CF, Lister NA, 1974. The distribution of PCB and p,p'-DDE residues in Atlantic herring (*Clupea harengus harengus*) and yellow perch (*Perca flavescens*) in Eastern Canada - 1972. Pestic. Monit. J. 8: 105-109.
- Zitko V**, Collins H, 1997. Mercury and organochlorine compounds in eels (*Anguilla rostrata* L.) from the Miramichi watershed. Can. Manuscr. Rep. Fish. Aquat. Sci. 2396: iii + 31 p.
- Zitko V**, Collins H, Hunter J, 2000. Ultraviolet spectra of water from the Miramichi watershed, New Brunswick. Can. Tech. Rep. Fish. Aquat. Sci. 2302, iii + 30 p.
- Zitko V**, Cunningham TD, 1975. Fish toxicity of S-methyl fenitrothion. Bull. Environ. Contam. Toxicol. 14: 19-24.
- Zitko V**, Cunningham TD, 1974. Fenitrothion, derivatives, and isomers: Hydrolysis, adsorption, and biodegradation. Fish. Mar. Serv. Res. Dev. Tech. Rep. 458: 27 p.
- Zitko V**, Finlayson BJ, Wildish DJ, Anderson JM, Kohler AC, 1971. Methylmercury in freshwater and marine fishes in New Brunswick, in the Bay of Fundy, and on the Nova Scotia banks. J. Fish. Res. Board Can. 28: 1285-1291.
- Zitko V**, Hanlon M, 1991. Another source of pollution by plastics: skin cleaners with plastic scrubbers. Mar. Pollut. Bull. 22: 41-42.
- Zitko V**, Hutzinger O, 1976. Uptake of chloro- and bromobiphenyls, hexachloro- and hexabromobenzene by fish. Bull. Environ. Contam. Toxicol. 16: 665-673.
- Zitko V**, Hutzinger O, Choi PMK, 1974. Determination of pentachlorophenol and chlorobiphenyls in biological samples. Bull. Environ. Contam. Toxicol. 12: 649-653.
- Zitko V**, Hutzinger O, Choi PMK, 1972. Contamination of the Bay of Fundy-Gulf of Maine area with polychlorinated biphenyls, polychlorinated terphenyls, chlorinated dibenzodioxins, and dibenzofurans. Environ. Health Perspect. Experimental Issue 1: 47-50.

**Zitko V**, Hutzinger O, Jamieson WD, Choi PMK, 1972. Polychlorinated terphenyls in the environment. *Bull. Environ. Contam. Toxicol.* 7: 200-201.

**Zitko V**, Hutzinger O, Safe S, 1971. Retention times and electron-capture detector responses of some individual chlorobiphenyls. *Bull. Environ. Contam. Toxicol.* 6: 160-163.

**Zitko V**, Lindsay G, 1995. Classification of polynuclear aromatic hydrocarbons profiles in sediments. *Toxicol. Model.* 1: 35-41.

**Zitko V**, McLeese DW, 1980. Evaluation of hazards of pesticides used in forest spraying to the aquatic environment. *Can. Tech. Rep. Fish. Aquat. Sci.* 985: 21 p.

**Zitko V**, McLeese DW, Carson WG, Welch HE, 1976. Toxicity of alkyldinitrophenols to some aquatic organisms. *Bull. Environ. Contam. Toxicol.* 16: 508-515.

**Zitko V**, McLeese DW, Metcalfe CD, Carson WG, 1979. Toxicity of permethrin, decamethrin, and related pyrethroids to salmon and lobster. *Bull. Environm. Contam. Toxicol.* 21: 338-343.

**Zitko V**, Okany A, Palagy L, 1970. Phospholipids. IV. Studies on the antithromboplastic activity of phosphatidylserine preparations and their derivatives. *Can. J. Biochem.* 48: 1318-1325.

**Zitko V**, Robinson S, 1996. The origin of black 'sludge' from a Deer Island (New Brunswick) beach. *Can. Manuscr. Rep. Fish. Aquat. Sci.* 2365: iii+14 p.

**Zitko V**, Saunders RL, 1979. Effect of PCB's and other organochlorine compounds on the hatchability of Atlantic salmon (*Salmo salar*) eggs. *Bull. Environm. Contam. Toxicol.* 21: 125-130.

**Zitko V**, Sergeant, DB, 1977. The determination of trichlorfon in water. *Fish. Mar. Serv. Res. Dev. Tech. Rep.* 714: 14 p.

**Zitko V**, Stenson G, Hellou J, 1998. Levels of organochlorine and polycyclic aromatic compounds in harp seal beaters (*Phoca groenlandica*). *Sci. Total Environ.* 221: 11-29.

**Zitko V**, Tibbo SN, 1971. Fish kill caused by an intermediate oil from coke ovens. *Bull. Environ. Contam. Toxicol.* 6: 24-25.



**Zitko V**, Wildish DJ, Hutzinger O, Choi PMK, 1973. Acute and chronic oral toxicity of chlorinated dibenzofurans to salmonid fishes. *Environ. Health Perspect.* 1973: 187 p.

**Zitko V**, Woodside M, 1985. Cationic surfactants in marine fish. *Mar. Pollut. Bull.* 16: 364-365.

## **SECTION II**

### **Species Groups**

#### **Clams**

**Aiken DE**, 1993. The perfect clam. *World Aquaculture* 24(2):6-15.

**Burbanck MP**, Burbank WD, Dadswell MJ, Gillis GF, 1979. Occurrence and biology of *Cyathura polita* (Stimpson) (Isopoda, Anthuridae) in Canada. *Crustaceana* 37: 31-38.

**Caddy JF**, 1967. Maturation of gametes and spawning in *Macoma balthica* (L.). *Can. J. Zool.* 45:955-965.

**McLeese DW**, Zitko V, Metcalfe CD, Sergeant DB, 1980. Lethality of aminocarb and the components of the aminocarb formulation to juvenile Atlantic salmon, marine invertebrates and a freshwater clam. *Chemosphere* 9: 79-82.

**McLeese DW**, Zitko V, Peterson MR, 1979. Structure-lethality relationships for phenols, anilines and other aromatic compounds in shrimp and clams. *Chemosphere* 8: 53-57.

**McLeese DW**, Zitko V, Sergeant DB, 1979. Uptake and excretion of fenitrothion by clams and mussels. *Bull. Environm. Contam. Toxicol.* 22: 800-806.

**Martin JL**, White AW, Sullivan JJ, 1990. Anatomical distribution of paralytic shellfish toxins in soft-shell clams. Pages 379-384 in *Toxic Marine Phytoplankton* (E Graneli, B Sundstrom, L Edler, & DM Anderson, eds). Elsevier, New York, NY.

**Medcof JC**, 1962. Effect of hydraulic escalator harvester on under-size soft-shell clams. *Proc. Natl. Shellfish. Assoc.*, 50:151-161.

**Medcof JC**, MacPhail JS, 1967. Fishing efficiency of clam hacks and mortalities incidental to fishing. Proc. Nat. Shellfish. Assoc. 55:53-72.

**Robinson SMC**, 1996. Clam enhancement trials in the Bay of Fundy. Dept. Fisheries and Oceans Science Review 1994-'95.16p.

**Robinson SMC**, 1996. The shellfish industry in the Gulf of Maine, status and possible future directions. Gulf of Maine NEWS. Summer 1996:7-9.

**Robinson SMC**, Chandler RA, 1992. An effective and safe method for sorting small molluscs from sediment. Limnol. Oceanogr. 38(5):1088-1091.

**Robinson SMC**, Rowell TW, 1990. A re-examination of the incidental fishing mortality of the traditional clam hack on the soft-shell clam, *Mya arenaria* Linnaeus, 1758. J. Shellfish Res. 9:283-289.

**Thorpe BE**, Robinson SMC, 1995. Recruitment levels of the soft-shell clam (*Mya arenaria*) in the Annapolis Basin, Nova Scotia. Final Report for the Canada-Nova Scotia Co-operation Agreement on Economic Diversification. 61 p (Available from the Librarian, Biological Station, St Andrews NB).

## **Cod**

**Buerkle U**, 1987. Estimation of fish length from acoustic target strengths. Can. J. Fish. Aquat. Sci. 44:1782-1785.

**Buerkle U**, 1977. Detection of trawling noise by Atlantic cod (*Gadus morhua* L.). Mar. Behav. Physiol. 4:233-242.

**Buerkle U**, 1974. Gill-net catches of cod (*Gadus morhua* L.) in relation to trawling noise. Mar. Behav. Physiol. 2:277-281.

**Clark DS**, Gavaris S, Hinze JM, 2002. Assessment of cod in Division 4X in 2002. Can. Sci. Advis. Sec. Res. Doc. 2002/105: 50 p.

**Clark DS**, Hinze J, Gavaris S, 2003. Assessment of cod in Division 4X in 2003. Can. Sci. Advis. Sec. Res. Doc. 2003/115.

**Fordham SE**, Trippel EA, 1999. Feeding behaviour of cod (*Gadus morhua*) in relation to spawning. J. Appl. Ichthyol. 15: 1-9.

**Hanke AR**, Page FH, Neilson J, 2000. Distribution of Atlantic cod (*Gadus*

*morhua*) eggs and larvae on the Scotian Shelf. Can. Tech. Rep. Fish. Aquat. Sci. 2308. 140 p.

**Hunt JJ**, Hatt B, 2002. Population status of the eastern Georges Bank cod (Unit Areas 5Zj,m) for 1978-2002. DFO Can. Sci. Advis. Sec. Res. Doc. 2002/072.

**Hunt JJ**, Neilson JD, 1993. Is there a separate stock of Atlantic cod in the western side of the Bay of Fundy? N. Am. J. Fish. Manag. 13: 421-436.

**Kohler AC**, 1964. Variations in the growth of Atlantic cod (*Gadus morhua* L.). J. Fish. Res. Bd. Canada 21:57-100.

**Kohler AC**, Fitzgerald DN, 1969. Comparisons of food of cod and haddock in the Gulf of St. Lawrence and on the Nova Scotia Banks. J. Fish. Res. Bd. Canada 26:1273-1287.

**Lett PF**, Kohler AC, Fitzgerald DN, 1975. Role of stock biomass and temperature in recruitment of southern Gulf of St. Lawrence Atlantic cod, *Gadus morhua*. J. Fish. Res. Bd. Canada 32:1613-1627.

**Litvak MK**, Trippel EA, 1999. Sperm motility patterns of Atlantic cod (*Gadus morhua*) in relation to salinity: effects of ovarian fluid and egg presence. Can. J. Fish. Aqua. Sci. 55: 1871-1877.

**Lough RG**, Valentine PC, Potter DC, Auditore PJ, Bloz GR, Neilson JD, Perry RI, 1989. Ecology and distribution of juvenile cod and haddock in relation to sediment type and bottom currents on eastern Georges Bank. Mar. Ecol. Prog. Ser. 56: 1-12.

**Morgan MJ**, Trippel EA, 1996. Skewed sex ratios in spawning shoals of Atlantic cod (*Gadus morhua*). ICES J. Mar. Sci. 53: 820-826.

**Neilson JD**, Perley P, Clark DS, Gavaris S, 2002. Condition of Atlantic cod in NAFO Div. 4X. DFO Can. Sci. Advis. Sec. Res. Doc. 2002/080: 14 p.

**Neilson JD**, Perry RI, Valerio P, Waiwood KG, 1986. Condition of Atlantic cod (*Gadus morhua*) larvae after the transition to exogenous feeding: morphometrics, buoyancy and predator avoidance. Mar. Ecol. Prog. Ser. 32: 229-235.

**Page FH**, Sinclair M, Naimie CE, Loder JW, Losier RJ, Berrien PL, Lough

RG, 1999. Cod and haddock spawning on Georges Bank in relation to water residence times. *Fish. Oceanogr.* 8: 212-226.

**Perry RI**, Neilson JD, 1988. Vertical distributions and trophic interactions of age-0 cod and haddock in mixed and stratified waters. *Mar. Ecol. Prog. Ser.* 49: 199-214.

**Peterson RH**, Fletcher GF, Ray S, Doane J, 1972. Analysis of a chlorinated terphenyl (Aroclor 5460) and its deposition in tissues of cod (*Gadus morhua*). *Bull. Environ. Contam. Toxicol.* 8, 52.

**Peterson RH**, Martin-Robichaud DJ, Harmon P, 2004. Influence of incubation temperature on body movements of Atlantic cod (*Gadus morhua* L.) embryos and on size at hatch. *Aquacult. Res.* 35: 453-457.

**Potter DC**, Lough RG, Perry RI, Neilson JD, 1990. Comparison of the MOCNESS and IYGPT pelagic samplers for the capture of 0-group cod (*Gadus morhua*) on Georges Bank. *J. Cons. Cons. Int. Explor. Mer* 46: 121-128.

**Rakitin A**, Ferguson MM, Trippel EA, 2001. Male reproductive success and body size in Atlantic cod *Gadus morhua* L. *Mar. Biol.* 138: 1077-1085.

**Rakitin A**, MM Ferguson and EA Trippel. 1999. Sperm competition and fertilization success in Atlantic cod (*Gadus morhua*): effects of sire size and condition factor on gamete quality. *Can. J. Fish. Aquat. Sci.* 56:2315-2323.

**Rakitin A**, Ferguson MM, Trippel EA, 1999. Spermatocrit, spermatozoa density and size in Atlantic cod (*Gadus morhua*): correlation and variation during the spawning season. *Aquaculture* 170: 349-358.

**Saunders RL**, 1963. Respiration of the Atlantic cod. *J. Fish. Res. Bd. Canada* 20:373-386.

**Smedbol RK**, Shelton PA, Swain DP, Fréchet A, Chouinard GA, 2002. Review of population structure, distribution and abundance of cod (*Gadus morhua*) in Atlantic Canada in a species-at-risk context. *DFO Can. Sci. Advis. Sec. Res. Doc.* 2002/082.

**Smedbol RK**, Wroblewski JS, 2002. Metapopulation theory and northern cod population structure: interdependency of subpopulations in rebuilding of a groundfish population. *Fish. Res.* 55: 161-174.

**Thorsen A**, Trippel EA, Lambert Y, 2003. Experimental methods to monitor the production and quality of eggs of marine fish species. *J. Northwest Atl. Fish. Sci.* 33: 55-70.

**Trippel EA**, 1998. Egg size and viability and seasonal offspring production of young Atlantic cod. *Trans. Am. Fish. Soc.* 127: 339-359.

**Trippel EA** (Editor), 2003. Reproductive potential of fish populations of the North Atlantic. *J. Northwest Atl. Fish. Sci.* 33: 205 p.

**Trippel, EA**, 2003. Experimental methods to estimate male reproductive success of marine fishes. *J. Northwest Atl. Fish. Sci.* 33: 81-113.

**Trippel EA**, Neilson JD, 1992. Fertility and sperm quality of virgin and repeat-spawning Atlantic cod (*Gadus morhua*) and associated hatching success. *Can. J. Fish. Aquat. Sci.* 49: 2118-2127.

**Waddy SL**(Editor), 2002. Progress in cod farming research to commercialization. *Bull. Aquacult. Assoc. Can.* 102-1: 40 p.

## Crabs

**Aiken DE**, 1985. Crab. Page 435 in *The Canadian Encyclopedia*, Vol. 1. Hurtig, Edmonton.

**Elnor R**, 1981. Diet of green crab *Carcinus maenas* (L.) from Port Hebert, southwestern Nova Scotia. *J. Shellfish Res.* 1: 89-94.

**Elnor RW**, 1980. The influence of temperature, sex and chela size in the foraging strategy of the shore crab, *Carcinus maenas* (L.). *Mar. Behav. Physiol.* 7: 15-24.

**Elnor RW**, Stasko AB, 1978. Mating behavior of the rock crab, *Cancer irroratus*. *J. Fish. Res. Bd. Canada* 35: 1385-1388.

**Elnor RW**, Elnor JK, 1980. Observations on a simultaneous mating embrace between a male and two female rock crabs *Cancer irroratus* (Decapoda, Brachyura). *Crustaceana* 38: 96-98.

**McLeese DW**, 1968. Temperature resistance of the spider crab, *Chionoecetes opilio*. *J. Fish. Res. Board Can.* 25: 1733-1736.

**McLeese DW**, Watson J, 1968. Oxygen consumption of the spider crab

(*Chionoecetes opilio*) and the American lobster (*Homarus americanus*) at a low temperature. J. Fish. Res. Board Can. 25: 1729-1732.

**Moriyasu M**, Benhalima K, Duggan D, Lawton P, Robichaud D, 2002. Reproductive biology of male Jonah crab, *Cancer borealis* Stimpson, 1859 (DECAPODA:Cancridae) on the Scotian Shelf, northwestern Atlantic. Crustaceana 75: 891-913.

**Scarratt DJ**, Lowe R, 1972. Biology of rock crab (*Cancer irroratus*) in Northumberland Strait. J. Fish. Res. Board Can. 29: 161-166.

**Stasko AB**, 1975. Modified lobster traps for catching crabs and keeping lobsters out. J. Fish. Res. Bd. Canada 32: 2515-2520.

**Watson J**, 1972. Mating behavior in the spider crab, *Chionoecetes opilio*. J. Fish. Res. Bd. Canada 29:447-449.

**Watson J**, 1971. Ecdysis of the snow crab, *Chionoecetes opilio*. Canadian J. Zool 49:1025-1027.

**Watson J**, 1970. Maturity, mating and egg laying in the spider crab, *Chionoecetes opilio*. J. Fish. Res. Bd. Canada 27:1607-1616.

**Wilder DG**, 1966. Canadian Atlantic crab resources. Fish. Res. Board Can. Atl. Biol. Sta. Circ. 50, 6 pp (Gen. Ser.).

## **Flatfishes**

**Barrett BE**, 1968. First occurrence of Greenland halibut (*Reinhardtius hippoglossoides*) in the Bay of Fundy. J. Fish. Res. Bd. Canada 25:2721-2722.

**Bell JG**, Castell JD, Tocher DR, MacDonald F, Sargent JR, 1995. Effects of different dietary arachidonic acid:docosahexaenoic acid ratios on phospholipid fatty acid compositions and prostaglandin production in juvenile turbot (*Scophthalmus maximus*)., Fish Physiol. Biochem., 14: 139-151.

**Blair T**, Batt J, Melanson R, Kirk S, Castell J, 1998. Evaluation of several commercial enrichment media for enhancing nutritional value of rotifers for winter flounder (*Pleuronectes americanus*). Bull. Aquacult. Assoc. Can. 98-4: 35-37.

**Blair TJ**, Castell JD, Mercer S, Powell F, 1999. The effect of different dietary

protein and lipid levels on juvenile halibut (*Hippoglossus hippoglossus* L.). Bull. Aquacult. Assoc. Can. 99-4: 16-18.

**Blair T**, Powell F, Brooking P, Castell J, 1998. Evaluation of commercial enrichment media for enhancing the nutritional value of *Artemia* for larval halibut (*Hippoglossus hippoglossus*) culture. Bull. Aquacult. Assoc. Can. 98-4: 21-24.

**Castell JD**, Bell JG, Tocher DR, Sargent JR, 1994. Effects of purified diets containing different combinations of arachidonic and docosahexaenoic acid on survival, growth and fatty acid composition of juvenile turbot (*Scophthalmus maximus*)., Aquaculture, 128:315-333.

**Fletcher GL**, Haya K, King MJ, ReismanyHM, 1985. Annual antifreeze cycles in Newfoundland, New Brunswick and Long Island winter flounder, *Pseudopleuronectes americanus*. Mar. Ecol. Prog. Ser. 21: 205-212.

**Fredette M**, Batt J, Castell JD, 2000. Feeding stimulants for juvenile winter flounder. N. Amer. J. Aquacul. 62: 157-160.

**Hebb CD**, Castell JD, Anderson D M Batt J, 2003. Growth and feed conversion of juvenile winter flounder (*Pleuronectes americanus*) in relation to different protein-to-lipid levels in isocaloric diets. Aquaculture 221: 439-449.

**Hebb CD**, Castell JD, Anderson D M Batt J, 1997. Nutritional studies on growth and protein utilization during the juvenile stage of winter flounder (*Pleuronectes americanus*). Bull. Aquacult. Assoc. Canada 97: 45-47.

**Hellou J**, Zitko V, Friel J, Alkanani T, 1996. Distribution of elements in tissues of yellowtail flounder *Pleuronectes ferruginea*. Sci. Total Environ. 181: 137-146.

**Hendry CI**, Martin-Robichaud DJ, Benfey TJ, 2003. Hormonal sex reversal of Atlantic halibut (*Hippoglossus hippoglossus* L.). Aquaculture 219: 769-781.

**Hendry CI**, Martin-Robichaud DJ, Benfey TJ, 2002. Gonadal sex differentiation in Atlantic halibut. J. Fish Biol. 60: 1431-1442.

**Hendry CI**, Martin-Robichaud DJ, Benfey TJ, 2001. Hormonal sex reversal of Atlantic halibut. Aquacult. Assoc. Can. Spec. Publ. 4: 41-44.

**Hendry CI**, Martin-Robichaud DJ, Benfey TJ, 1999. Hormonal production of

all-female Atlantic halibut (*Hippoglossus hippoglossus*): The timing of sexual differentiation. Bull. Aquacult. Assoc. Can. 99-4: 13-15.

**Jackson TR**, Martin-Robichaud DJ, Reith ME, 2003. Application of DNA markers to the management of Atlantic halibut (*Hippoglossus hippoglossus*) broodstock. Aquaculture 220: 245-259.

**McClelland G**, Misra RK, Martell DJ, 2000. Spatial and temporal distributions of larval sealworm (*Pseudoterranova decipiens*, Nematoda: Anisakinae), in *Hippoglossoides platessoides* (Pleuronectidae) in eastern Canada from 1980 to 1990. ICES J. Mar. Sci. 57:69-88

**Martell DJ**; McClelland G, 1995. Transmission of *Pseudoterranova decipiens* (Nematoda: Asaridoidea) via benthic macrofauna to sympatric flatfishes (*Hippoglossoides platessoides*, *Pleuronectes ferrugineus*, *P. americanus*) on Sable Island Bank, Canada. Mar. Biol. (Berlin) 122:129-135

**Martell DJ**, McClelland G, 1994. Diets of sympatric flatfishes, *Hippoglossoides platessoides*, *Pleuronectes ferrugineus*, *Pleuronectes americanus*, from Sable Island Bank, Canada. J. Fish Biol. 44:821-848.

**Martin-Robichaud DJ**, Powell J, Wade J, 2001. Gonadotropin- releasing hormone affects sperm production of Atlantic halibut. Aquacult. Assoc. Can. Spec. Publ. 4: 45-48.

**Martin-Robichaud DJ**, Rommens MA, 1998. Effects of temperature and salinity on fertilization of halibut eggs. Bull. Aquacult. Assoc. Can. 98-2: 27-29.

**Morrison CM**; Martell DJ; Leggiadro C, 1997. Ciliated epithelium in the developing digestive tract of the larva of the Atlantic halibut, and comparison with that of the cod. J. Fish Biol. (London) 50:120-126

**Morrison CM**, Martell DJ; Leggiadro C; O'Neil D, 1996. *Ceratomyxa drepanopsettae* in the gallbladder of Atlantic halibut, *Hippoglossus hippoglossus*, from the northwest Atlantic Ocean. Folia Parasitologica, 43:20-36.

**Neilson JD**, Bowering WR, 1989. Minimum size regulations and the implications for yield and value in the Canadian Atlantic halibut (*Hippoglossus hippoglossus*) fishery. Can. J. Fish. Aquat. Sci. 46: 1899-1903.



- Neilson JD**, DeBlois EM, Hurley PCF, 1988. The stock structure of Scotian shelf flatfish as inferred from examination of ichthyoplankton survey data and distribution mature females. *Can. J. Fish. Aquat. Sci.* 45: 1674-1685.
- Neilson JD**, Kearney JF, Perley P, Sampson H, 1993. Reproductive biology of Atlantic halibut (*Hippoglossus hippoglossus*) in Canadian waters. *Can. J. Fish. Aquat. Sci.* 50: 551-563.
- Neilson JD**, Waiwood KG, Smith SJ, 1989. Survival of Atlantic halibut (*Hippoglossus hippoglossus*) caught in longline and otter trawl gear. *Can. J. Fish. Aquat. Sci.* 46: 887-897.
- Parish CC**, Castell JD, Brown JA, Boston LD, Strickland JS, Somerton DC, 1994. Fatty acid composition of Atlantic halibut eggs in relation to fertilization., *Bull. Aquacult. Assoc.*, 94-2: 1-3.
- Powles PM**, Kohler AC, 1970. Depth distributions of various stages of witch flounder (*Glyptocephalus cynoglossus*) off Nova Scotia and in the Gulf of St. Lawrence. *J. Fish. Res. Bd. Canada* 27:2053-2062.
- Ramsay JM**, Castell J D, Andwerson DM, Hebb CD, 2000. Effects of fecal collection methods on estimation of digestibility of protein feedstuffs by winter flounder. *N. Amer. J. Aquacul.* 62: 168-173.
- Rideout RM**, Litvak MK, Trippel EA, 2003. The development of sperm cryopreservation protocol for winter flounder, *Pseudopleuronectes americanus* (Walbaum): evaluation of cryoprotectants and dilutants. *Aquacult. Res.* 34: 653-659.
- Simon JE**, Harris LE, Johnston TL, 2003. Distribution and abundance of winter skate, *Leucoraja ocellata*, in the Canadian Atlantic. *Can. Sci. Advis. Sec. Res. Doc.* 2003/028: 67 p.
- Smith SJ**, Waiwood KG, Neilson JD, 1994. Survival analysis for size regulation of Atlantic halibut. Pages 125-144 in *Case Studies in Biometry* (N Lange, L Ryan, L Billard, D Brillinger, L Conquest and J Greenhouse, eds). John Wiley Intersciences, New York.
- Stobo WT**, Neilson JD, Simpson PG, 1988. Movements of Atlantic halibut (*Hippoglossus hippoglossus*) in the Canadian North Atlantic: inferences regarding life history. *Can. J. Fish. Aquat. Sci.* 45: 484-491.
- Stone HH**, 2002. Stock assessment of Georges Bank (5Zjmnh) yellowtail

flounder for 2002. DFO Can. Sci. Advis. Sec. Res. Doc. 2002/057: 78 p.

**Stone HH**, Gavaris S, Legault CM, Neilson JD, Cadrin SX, 2004. Collapse and recovery of the yellowtail flounder (*Limanda ferruginea*) fishery on Georges Bank. J. Sea Res. 51: 261-270.

**Stone HH**, Legault CM, 2003. Stock assessment of Georges Bank (5Zjmnh) yellowtail flounder for 2003. Can. Sci. Advis. Sec. Res. Doc. 2003/055: 78 p.

**Stone HH**, Legault CM, Cadrin SX, Gavaris S, Neilson JD, Perley P, 2001. Stock assessment of Georges Bank yellowtail flounder for 2000. DFO Can. Sci. Advis. Sec. Res. Doc. 2001/068: 87 p.

**Stone HH**, Nelson C, 2003. Tagging studies on eastern Georges Bank yellowtail flounder. Can. Sci. Advis. Sec. Res. Doc. 2003/056: 20 p.

**Stone HH**, Perley P, 2002. An evaluation of Georges Bank yellowtail flounder age determination based on otolith thin-sections. DFO Can. Sci. Advis. Sec. Res. Doc. 2002/076: 32 p.

**Thorsen A**, Trippel EA, Lambert Y, 2003. Experimental methods to monitor the production and quality of eggs of marine fish species. J. Northwest Atl. Fish. Sci. 33: 55-70.

**Tocher DE**, Castell JD, Dick JR, Sargent JR, 1995. Effects of salinity on the fatty acid composition of total lipid and individual glycerophospholipid classes of Atlantic salmon (*Salmo salar*) and turbot (*Scophthalmus maximus*) cells in culture. Fish Physiol. Biochem., 14: 125-137.

**Tocher DE**, Castell JD, Dick JR, Sargent JR, 1994. Effects of salinity on the growth and lipid composition of Atlantic salmon (*Salmo salar*) and turbot (*Scophthalmus maximus*) cells in culture., Fish Physiol. Biochem., 13: 451-461.

**Trippel EA** (Editor), 2003. Reproductive potential of fish populations of the North Atlantic. J. Northwest Atl. Fish. Sci. 33: 205 p.

**Trippel, EA**, 2003. Experimental methods to estimate male reproductive success of marine fishes. J. Northwest Atl. Fish. Sci. 33: 81-113.

**Trumble R**, Neilson JD, Bowering WR, McCaughan DA, 1993. Atlantic halibut (*Hippoglossus hippoglossus*) and Pacific halibut (*H. stenolepis*) and their North American fisheries. Can. Bull. Fish. Aquat. Sci. 227: 84 p.

**Tvedt H**, Benfey TJ, Martin-Robichaud DJ, Power J, 2001. The relationship between sperm density, spermatocrit, sperm motility and fertilization success in Atlantic halibut, *Hippoglossus hippoglossus*. *Aquaculture* 194: 191-200.

**Wildish DJ**, 1974. Arrestant effect of polyoxyethylene esters on swimming in the winter flounder. *Water Res.* 8: 579-583.

## **Haddock**

**Aiken DE** (Editor), 2003. Early rearing of haddock: State of the art. *Aquacult. Assoc. Can. Spec. Pub.* 7: 136 p.

**Blair T**, 2003. Microdiet technology: potential for use in haddock culture. Pages 71-78 in *Early rearing of haddock: state of the art* (DE Aiken, ed.). *Aquacult. Assoc. Can. Spec. Pub.* 7.

**Blair T**, Castell J, Neil S, D'Abramo L, Cahu C, Harmon P, Ogunmoye K, 2003. Evaluation of microdiets versus live feeds on growth, survival and fatty acid composition of larval haddock (*Melanogrammus aeglefinus*). *Aquaculture* 225: 451-461.

**Castell J**, Blair T, Neil S, Howes K, Mercer S, Reid J, Young-Lai W, Gullison B, Dhert P, Sorgeloos P, 2003. The effect of different HUFA enrichment emulsions on the nutritional value of rotifers (*Brachionus plicatilis*) fed to larval haddock (*Melanogrammus aeglefinus*). *Aquacult. Int.* 11: 109-117.

**Bremner AA**, Trippel EA, Terhune JM, 2002. Sound production by adult haddock, *Melanogrammus aeglefinus*, in isolation, pairs and trios. *Environ. Biol. Fishes* 65: 359-362.

**Burridge LE**, Zitko V, 2002. Lethality of copper sulfate and copper-treated nets for juvenile haddock, *Melanogrammus aeglefinus* L. *Bull. Environ. Contam. Toxicol.* 69: 378-383.

**Ewart KV**, Blanchard B, Johnson SC, Bailey WL, Martin-Robichaud DJ, Buzeta M-I, 2000. Freeze susceptibility of haddock (*Melanogrammus aeglefinus*). *Aquaculture* 188: 91-101.

**Gavaris S**, 2003. Eastern Georges Bank haddock. *DFO Sci. Stock Assess. Rep.* 203/41: 6 p.

**Gavaris S**, VanEeckhaute L, 2002. Assessment of haddock on eastern Georges

Bank. DFO Can. Sci. Advis. Sec. Res. Doc. 2002/066: 59 p.

**Harmon PR**, 2003. Early rearing of haddock - state of the art, 2002. Pages 7-16 in Early rearing of haddock: state of the art (DE Aiken, ed.). Aquacult. Assoc. Can. Spec. Pub. 7.

**Harmon PR**, MacKinnon A-M, Neil SRE, Boston L, 2003. First report of nodavirus in haddock. Pages 115-120 in Early rearing of haddock: state of the art (DE Aiken, ed.). Aquacult. Assoc. Can. Spec. Pub. 7.

**Kohler AC**, Fitzgerald DN, 1969. Comparisons of food of cod and haddock in the Gulf of St. Lawrence and on the Nova Scotia Banks. J. Fish. Res. Bd. Canada 26:1273-1287.

**Kohler AC**, 1960. The growth, length-weight relationship, and maturity of haddock (*Melanogrammus aeglefinus* L.) from the region of Lockeport, N.S. J. Fish. Res. Bd. Canada 17:41-60.

**Kohler AC**, 1958. The validity of otolith age determinations for haddock (*Melanogrammus aeglefinus* L.) from the Lockeport, N.S. area. J. Fish. Res. Bd. Canada 15:1229-1238.

**Kohler AC**, Clark JR, 1958. Haddock scale-otolith comparisons. J. Fish. Res. Bd. Canada 15:1239-1246.

**Lough RG**, Valentine PC, Potter DC, Auditore PJ, Bloz GR, Neilson JD, Perry RI, 1989. Ecology and distribution of juvenile cod and haddock in relation to sediment type and bottom currents on eastern Georges Bank. Mar. Ecol. Prog. Ser. 56: 1-12.

**Mahon R**, Neilson JD, 1987. Diet changes in Scotian Shelf haddock during the pelagic and demersal phases of the first year of life. Mar. Ecol. Prog. Ser. 37: 123-130.

**Martin-Robichaud DJ**, 2003. Haddock broodstock management. Pages 17-22 in Early rearing of haddock: state of the art (DE Aiken, ed.). Aquacult. Assoc. Can. Spec. Pub. 7.

**Martin-Robichaud DJ**, Berlinsky DL, 2004. The effects of photothermal manipulation on reproductive development in female haddock *Melanogrammus aeglefinus* L. Aquacult. Res. 35: 465-472.

**Morrison C**, Bird C, O'Neil D, Leggiadro C, Martin-Robichaud D, Rommens

M, Waiwood K, 1999. Ultrastructure of the egg membrane of the haddock, *Melanogrammus aeglefinus*, and its colonization by microorganisms during incubation. *Can. J. Zool.* 77: 890-901.

**Neil SRE**, 2003. Nursery technology for haddock (*Melanogrammus aeglefinus*) at the St. Andrews Biological Station. Pages 43-52 in Early rearing of haddock: state of the art (DE Aiken, ed.). *Aquacult. Assoc. Can. Spec. Pub.* 7.

**Thorsen A**, Trippel EA, Lambert Y, 2003. Experimental methods to monitor the production and quality of eggs of marine fish species. *J. Northwest Atl. Fish. Sci.* 33: 55-70.

**Trippel EA** (Editor), 2003. Reproductive potential of fish populations of the North Atlantic. *J. Northwest Atl. Fish. Sci.* 33: 205 p.

**Trippel, EA**, 2003. Experimental methods to estimate male reproductive success of marine fishes. *J. Northwest Atl. Fish. Sci.* 33: 81-113.

**Trippel EA**, 2003. Paired mating as an alternative management strategy for haddock. Pages 23-34 in Early rearing of haddock: state of the art (DE Aiken, ed.). *Aquacult. Assoc. Can. Spec. Publ.* 7.

**Trippel EA**, Castell JD, Neil SRE, Blair TJ, 2000. Assessment of egg quality of haddock (*Melanogrammus aeglefinus*) in paired matings. Pages 405-407 in *Reproductive Physiology of Fish* (B Norberg, OS Kjesbu, GL Taranger, E Anderson, SO Stefansson, eds.). Proceedings of the 6th International Symposium on the Reproductive Physiology of Fishes, 4-9 July, 1999, Bergen, Norway.

**Trippel EA**, Doherty CM, Wade J, Harmon PR, 1998. Controlled breeding technology for haddock (*Melanogrammus aeglefinus*) in mated pairs. *Bull. Aquacul. Assoc. Canada* 98-3: 30-35.

**Trippel EA**, Neil SRE, 2003. Effects of photoperiod and light intensity on growth and activity of juvenile haddock (*Melanogrammus aeglefinus*). *Aquaculture* 217: 633-645.

**Trippel EA**, Neil SRE, 2002. Juvenile growth and locomotory activity of haddock in relation to photoperiod and light intensity. *Int. Counc. Explor. Sea C.M.* 2002/S:05.

**Van Eeckhaute L**, Gavaris S, Brodziak J, 2003. Assessment of haddock on eastern Georges Bank. *Can. Sci. Advis. Sec. Res. Doc.* 2003/076: 67 p.

**Van Eeckhaute LAM**, Gavaris S, Trippel EA, 1999. Movements of haddock (*Melanogrammus aeglefinus*) on eastern Georges Bank determined from a population model incorporating temporal and spatial detail. U.S. Dept. Comm. Fish. Bull. 97: 662-679.

**Warrington SJ**, 2003. Hatchery technology for haddock at the St. Andrews Biological Station. Pages 35-42 in Early rearing of haddock: state of the art (DE Aiken, ed.). Aquacult. Assoc. Can. Spec. Publ. 7.

## **Herring**

**Caddy JF**, Iles TD, 1973. Underwater observations on herring spawning grounds on Georges Bank. Pages 131-139 in ICNAF Res. Bull. 10:131-139.

**Funk F**, Blackburn J, Hay D, Paul AJ, Stephenson R, Toresen R, Witherell D (Editors), 2001. Herring: expectations for a new millennium. Univ. Alaska Sea Grant, AK-SG-01-04, Fairbanks. ISBN 1-56612-070-5.

**Hay DE**, Toresen R, Stephenson R, Thompson M, Claytor R, Funk F, Ivshina E, Jakobsson J, Kobayashi T, McQuinn I, Melvin G, Molloy J, Naumenko N, Oda KT, Parmanne R, Power M, Radchenko V, Schweigert J, Simmonds J, Sjöstrand B, Stevenson DK, Tanasichuk R, Tang Q, Watters DL, Wheeler J, 2001. Taking stock: an inventory and review of world herring stocks in 2000. Pages 281-454 in Herring: expectations for a new millennium (F Funk, J Blackburn, D Hay, AJ Paul, R Stephenson, R. Toresen, D Witherell, eds.). Univ. Alaska Sea Grant, AK-SG-01-04, Fairbanks.

**Iles TD**, 1993. The management of the Canadian Atlantic herring fisheries. Canadian Bull. Fish. Aquat. Sci. 226:123-150.

**Iles TD**, Caddy JF, 1972. Submersible study on Georges Bank reveals vulnerability of Atlantic herring stocks. World Fishing 21:14-16.

**Iles TD**, 1964. The duration of maturation stages in herring. J. Cons. Expl. Mer. 29:166-188.

**Lett PF**, Kohler AC, 1976. Recruitment: a problem of multispecies interaction and environmental perturbations, with special reference to Gulf of St. Lawrence Atlantic herring (*Clupea harengus harengus*). J. Fish. Res. Bd. Canada 33:1353-1371.

**Mayer LA**, Li Y, Melvin GD, 2002. 3-D visualization for pelagic fisheries

assessment and research. *Int. Counc. Explor. Sea J. Mar. Sci.* 59: 216-225.

**McPherson AA**, Stephenson RL, O'Reilly PT, Jones MW, Taggart CT, 2001. Genetic diversity of coastal Northwest Atlantic herring populations: implications for management. *J. Fish Biol.* 59: 356-370.

**McPherson AA**, Stephenson RL, Taggart CT, 2003. A genetic basis for Atlantic herring *Clupea harengus* spawning waves. *Mar. Ecol. Prog. Ser.* 247: 303-309.

**Melvin GD**, Annis LM, Power MJ, Clark KJ, Fife FJ, Stephenson RL, 2003. Herring acoustic surveys for 2002 in NAFO Divisions 4WX. *DFO Can. Sci. Advis. Sec. Res. Doc.* 2003/034: 46 p.

**Melvin GD**, Annis LM, Power MJ, Fife FJ, Clark KJ, Stephenson RL, 2002. Herring acoustic surveys for 2001 in NAFO Divisions 4WX. *Can. Stock Assess. Sec. Res. Doc.* 2002/044: 51 p.

**Melvin GD**, Stephenson RL, Power MJ, Fife FJ, Clark KJ, 2001. Industry acoustic surveys as the basis for in-season decisions in a co-management regime. Pages 678-688 in *Herring: expectations for a new millennium* (F Funk, J Blackburn, D Hay, AJ Paul, R Stephenson, R. Toresen, D Witherell, eds.). Univ. Alaska Sea Grant, AK-SG-01-04, Fairbanks.

**Musial CJ**, Uthe JF, Sirota GR, Gilgan M, Zitko V, Matheson RA, 1981. Isolation and characterization of di-n-hexyl phthalate (DHP) as a new contaminant in Atlantic herring (*Clupea harengus harengus*) and mackerel (*Scomber scombrus*). *Can. J. Fish. Aquat. Sci.* 38: 856-859.

**Power MJ**, Stephenson RL, Annis LM, Fife FJ, Clark KJ, Melvin GD, 2003. 2003 evaluation of 4VWX herring. *DFO Can. Sci. Advis. Sec. Res. Doc.* 2003/035: 104 p.

**Power MJ**, Stephenson RL, Annis LM, Fife FJ, Clark KJ, Melvin GD, 2002. 2002 evaluation of 4VWX herring. *DFO Can. Sci. Advis. Sec. Res. Doc.* 2002/045: 104 p.

**Stephenson RL**, 2001. The role of herring investigations in shaping fisheries science. Pages 1-20 in *Herring: expectations for a new millennium* (F Funk, J Blackburn, D Hay, AJ Paul, R Stephenson, R. Toresen, D Witherell, eds.). Univ. Alaska Sea Grant, AK-SG-01-04, Fairbanks.

**Stephenson RL**, Clark KJ, 2002. The role of ICES herring investigations in shaping fisheries science and management. *Int. Coun. Explor. Sea Mar. Sci. Symp.* 215: 504-514.

**Stephenson RL**, Clark KJ, Power MJ, Fife FJ, Melvin GD, 2001. Herring stock structure, stock discreteness and biodiversity. Pages 559-571 in *Herring: expectations for a new millennium* (F Funk, J Blackburn, D Hay, AJ Paul, R Stephenson, R. Toresen, D Witherell, eds.). Univ. Alaska Sea Grant, AK-SG-01-04, Fairbanks.

**Stephenson RL**, Peltonen H, Kuikka S, Pönni J, Rahikainen M, Aro E, Setälä J, 2001. Linking biological and industrial aspects of the Finnish commercial herring fishery in the northern Baltic Sea. Pages 741-760 in *Herring: expectations for a new millennium* (F Funk, J Blackburn, D Hay, AJ Paul, R Stephenson, R. Toresen, D Witherell, eds.). Univ. Alaska Sea Grant, AK-SG-01-04, Fairbanks.

**Stephenson RL**, Smedbol RK, 2001. Small pelagic fisheries. Pages 2814-2820 in *Encyclopedia of Ocean Sciences*, Vol. 5 (JH Steele, SA Thorpe, KK Turkian, eds.). Academic Press.

**Thorsen A**, Trippel EA, Lambert Y, 2003. Experimental methods to monitor the production and quality of eggs of marine fish species. *J. Northwest Atl. Fish. Sci.* 33: 55-70.

**Tibbo SN**, Messieh SN, 1970. A critique on the use of otoliths for ageing Gulf of St. Lawrence herring (*Clupea harengus* L.). *J. Conseil* 33:181-191.

**Tibbo SN**, Scarratt DJ, McMullon PWG, 1963. An investigation of herring (*Clupea harengus* L) spawning using free-diving techniques. *J. Fish. Res. Bd. Canada* 20:1067-1079.

**Trippel EA** (Editor), 2003. Reproductive potential of fish populations of the North Atlantic. *J. Northwest Atl. Fish. Sci.* 33: 205 p.

**Trippel, EA**, 2003. Experimental methods to estimate male reproductive success of marine fishes. *J. Northwest Atl. Fish. Sci.* 33: 81-113.

**Zitko V**, Aiken DE, Tibbo SN, Besch KWT, Anderson JM, 1973. Toxicity of yellow phosphorus to herring, Atlantic salmon; lobster, and beach flea. *In* *Effects of Elemental Phosphorus on Marine Life* (PM Jangaard, ed). *Fish. Res. Board Can. ARO Circ.* 2, 313 p.



**Zitko V**, Aiken DE, Tibbo SN, Besch KWT, Anderson JM, 1970. Toxicity of yellow phosphorus to herring (*Clupea harengus*), Atlantic salmon (*Salmo salar*), lobster (*Homarus americanus*), and beach flea (*Gammarus oceanicus*). J. Fish. Res. Bd. Canada 27: 21-29

**Zitko V**, Choi PMK, Wildish DJ, Monaghan CF, Lister NA, 1974. The distribution of PCB and p,p'-DDE residues in Atlantic herring (*Clupea harengus harengus*) and yellow perch (*Perca flavescens*) in Eastern Canada - 1972. Pestic. Monit. J. 8: 105-109.

## **Lobster & Crayfish**

**Abgrall P**, RW Rangeley, LE Burrige, and P Lawton. 2000. Sublethal effects of azamethiphos on shelter use by juvenile lobsters (*Homarus americanus*). Aquaculture 181: 1-10.

**Ackefors H**, Castell JD, Boston LD, Raty P, Svensson M, 1992. Standard experimental diets for crustacean nutrition research. II. Growth and survival of juvenile crayfish *Astacus astacus* (Linn.) fed diets containing various amounts of protein, carbohydrate and lipid. Aquaculture 104: 341-356.

**Ackefors H**, Castell JD, Orde-Ostrom I-L, 1997. Preliminary results on the fatty acid composition of freshwater crayfish, *Astacus astacus* and *Pacifastacus leniusculus*, held in captivity. J. World Aquacult. Soc. 28(1): 97-105.

**Aiken D**, 1988. Lobster farming: Fantasy or opportunity? Proceedings of the Aquaculture International Congress & Exposition, p. 575-582. Aquaculture International, Vancouver.

**Aiken DE**, 1988. Marron farming: a real industry or just great promotion? World Aquaculture 19(4):14-17.

**Aiken DE**, 1985. Lobster. Page 1027 in The Canadian Encyclopedia, Vol. II. Hurtig, Edmonton.

**Aiken DE**, 1985. Crayfish. Page 437 in The Canadian Encyclopedia, Vol. 1. Hurtig, Edmonton.

**Aiken DE**, 1980. Molting and Growth. Pages 91-163 in The Biology and Management of Lobsters (JS Cobb and BF Phillips, eds). Vol. 1, Academic Press, 463 p.

**Aiken DE**, 1977. Molting and growth in decapod crustaceans with particular reference to the lobster *Homarus americanus*. Pages 41-73 in Workshop on Lobster and Rock Lobster, Ecology and Physiology. (BF Phillips, JS Cobb, ed). CSIRO Circ. No. 7.

**Aiken DE**, 1973. Proecdysis, setal development and molt prediction in the American lobster (*Homarus americanus*). J. Fish. Res. Board Can. 30: 1337-1344.

**Aiken DE**, 1971. "School Lobsters" from southern Nova Scotia. Fish. Res. Board Canada Manuscript Report No. 1141, 19 pp.

**Aiken DE**, 1969. Photoperiod, endocrinology and the crustacean molt cycle. Science 164: 149-155.

**Aiken DE**, 1969. Ovarian maturation and egg laying in the crayfish *Orconectes virilis*: influence of temperature and photoperiod. Can. J. Zool. 47: 931-935.

**Aiken DE**, 1968. Subdivisions of Stage E (ecdysis) in the crayfish *Orconectes virilis*. Can. J. Zool. 46: 153-155.

**Aiken DE**, 1968. The crayfish *Orconectes virilis*: survival in a region with severe winter conditions. Can. J. Zool. 46:207-211.

**Aiken DE**, Byard EH, 1972. Histological changes in lobsters (*Homarus americanus*) exposed to yellow phosphorus. Science 176:1434-1435.

**Aiken DE**, Martin DJ, Meisner JD, Sochasky JB, 1981. Influence of photoperiod on survival and growth of larval American lobsters (*Homarus americanus*). J. World Maricul. Soc. 12:225-230.

**Aiken DE**, Rowe WJ, Martin-Robichaud DJ, Waddy SL, 1983. Seasonal differences in the effect of photoperiod on survival and development of larval American lobsters (*Homarus americanus*). J. World Maricul. Soc. 13: 287-293.

**Aiken DE**, Sochasky JB, Wells PG, 1973. Ciliate infestation of the blood of the lobster *Homarus americanus*. ICES C.M.1973/K:46.

**Aiken DE**, Waddy SL, 1995. Aquaculture. Pages 153-175 in Biology of the Lobster *Homarus americanus* (JR Factor, ed). Academic Press, 528 p.

**Aiken DE, Waddy SL, 1992.** The growth process in crayfish. *Rev. Aquat. Sci.* 6:335-381.

**Aiken DE, Waddy SL, 1990.** Winter temperature and spring photoperiod requirements for spawning in the American lobster (*Homarus americanus*). *J. Shellfish Res.* 9: 41-43.

**Aiken DE, Waddy SL, 1990.** Interaction of temperature and photoperiod in the regulation of spawning by American lobsters *Homarus americanus*. *Can. J. Fish. Aquat. Sci.* 46: 145-148.

**Aiken DE, Waddy SL, 1989.** Allometric growth and onset of maturity in male lobsters: the crusher propodite index. *J. Shellfish Res.* 8: 7-11

**Aiken DE, Waddy SL, 1989.** Culture of the American lobster, *Homarus americanus*. Pages 79-122 in *Cold Water Aquaculture in Atlantic Canada* (AD Boghen, ed.). The Canadian Institute for Research on Regional Development, Moncton. 410 p

**Aiken DE, Waddy SL, 1988.** Strategies for maximizing growth of communally reared juvenile American lobsters. *World Aquaculture* 19(3):61-63.

**Aiken DE, Waddy SL, 1987.** Molting and growth in crayfish: a review. *Can. Tech. Rep. Fish. Aquat. Sci.* 1587, 34 pp.

**Aiken DE, Waddy SL, 1986.** Growth of the vasa deferentia of mature male *Homarus americanus*: conflicting results from field and laboratory results. *Can. J. Fish. Aquat. Sci.* 43: 1453-1457.

**Aiken DE, Waddy SL, 1986.** Environmental influence on recruitment of the American lobster, *Homarus americanus*: a perspective. *Can. J. Fish. Aquat. Sci.* 43: 2258-2270.

**Aiken DE, Waddy SL, 1986.** Oocyte maturation and spawning in wild American lobsters: lack of evidence for significant regulation by photoperiod. *Can. J. Fish. Aquat. Sci.* 43:1451-1453.

**Aiken DE, Waddy SL, 1985.** Production of seed stock for lobster culture. *Aquaculture* 44:103-114.

**Aiken DE, Waddy SL, 1985.** The uncertain influence of spring photoperiod on spawning in the American lobster (*Homarus americanus*). *Can. J. Fish. Aquat.*

Sci. 42: 194-197.

**Aiken DE**, Waddy SL, 1985. Photoperiodic control of vitellogenesis in the American lobster (*Homarus americanus*): comment on a recent report. Can. J. Fish. Aquat. Sci. 42: 198-199.

**Aiken DE**, Waddy SL, 1982. Cement gland development, ovary maturation and reproductive cycles in the American lobster. J. Crust. Biol. 2: 315-327.

**Aiken DE**, Waddy SL, 1980. Reproductive Biology. Pages 215-276 in The Biology and Management of Lobsters (JS Cobb and BF Phillips, eds.), Vol. 1, Academic Press, 463 p.

**Aiken DE**, Waddy SL, 1980. Prospects for the development of color phases for lobster population studies. CAFSAC Res. Doc. 80/66.

**Aiken DE**, Waddy SL, 1978. Space, density and growth of the lobster (*Homarus americanus*). Pages 461-467 in Proc. Ninth Ann. Meet. World Mariculture Society. LSU, Baton Rouge LA, USA.

**Aiken DE**, Waddy SL, 1976. Controlling growth and reproduction in the American lobster. Proc. World Maricult. Soc. 7: 415-430.

**Aiken DE**, Waddy SL, 1975. Temperature increase can cause hyperecdysionism in American lobsters (*Homarus americanus*) injected with Ecdysterone. J. Fish. Res. Board Can. 32:1843-1845.

**Aiken DE**, Waddy SL, Mercer SM, 2004. Confirmation of external fertilization in the American lobster, *Homarus americanus*. J. Crustac. Biol. 24: 474-480.

**Aiken DE**, Waddy SL, Moreland K, Polar SM, 1984. Electrically induced ejaculation and artificial insemination of the American lobster *Homarus americanus*. J. Crust. Biol. 4: 519-527.

**Aiken DE**, Waddy SL, Uhazy LS, 1985. Aspects of the biology of *Pseudocarcinonemertes homari*, and its association with the American lobster. Can. J. Fish. Aquat. Sci. 42: 351-356.

**Aiken DE**, Waddy SL, Uhazy LS, Campbell A. 1983. A nemertean destructive to the eggs of the lobster, *Homarus americanus*. Rapp. P-v. Reun. Const. Int. Explor. Mer 182:130-133.

**Aiken DE**, Young-Lai WW, 1981. Dactylotomy, chelotomy and dactylostasis: Methods for enhancing survival and growth of small lobsters (*Homarus americanus*) in communal conditions. *Aquaculture* 22: 45-52.

**Aiken DE**, Young-Lai WW, 1979. Cheliped ablation and immobilization methods for improving survival and growth of juvenile lobsters in communal culture conditions. *Proc. World Maricul. Soc.* 10:159-161.

**Aiken DE**, Zitko V, 1977. Effect of Iranian crude oil on lobsters (*Homarus americanus*) held in floating crates. *ICES C.M.* 1977/E:45, 13 p.

**Arsenault AL**, Castell JD, Ottenensmeyer FP, 1984. The dynamics of exoskeletal-epidermal structure during molt in juvenile lobster by electron microscopic imaging. *Tissue and Cell* 16: 93-106.

**Arsenault AL**, Clattenburg RE, Aiken DE, 1979. The morphology and secretory-transport mechanism of the tegumental glands of the lobster (*Homarus americanus*) as related to the molt cycle. *J. Submicr.* Baisre JA, Castell JD, 1991. *Aquaculture in Cuba.* *World Aquaculture.* 22(4): 28-41

**Boghen AD**, Castell JD, 1981. Nutritional value of different dietary proteins to juvenile lobsters, *Homarus americanus*. *Aquaculture* 22: 343-351

**Boghen AD**, Castell JD, 1979. A Recirculating System for Small Scale Experimental Work on Juvenile Lobsters *Homarus americanus*. *Aquaculture* 18: 383-387.

**Boghen AD**, Castell JD, Conklin DE, 1982. In search of a reference protein to replace "vitamin-free casein" in lobster nutrition studies. *Can. J. Zool.* 60: 2033-2038. *Cytol.* 11: 193-207.

**Bratney J**, Campbell A, 1986. A survey of parasites of the American lobster, *Homarus americanus* (Crustacea: Decapoda), from the Canadian Maritimes. *Can. J. Zool.* 64: 1998-2003.

**Bratney J**, Campbell A, 1985. Occurrence of *Histriobdella homari* (Annilida: Polychaeta) on the American lobster in the Canadian Maritimes. *Can. J. Zool.* 63: 392-395.

**Bratney J**, Campbell A, Bagnall A, Uhazy L, 1985. Geographic distribution and seasonal occurrence of the nemertean *Pseudocarcinonemertes homari* on the American lobster, *Homarus americanus*. *Can. J. Fish. Aquat. Sci.* 42: 360-

**Burridge LE**, Haya K, Page F, Waddy SL, Zitko V, Wade J, 2000. The lethality of the Cypermethrin formulation Excis to larval and post-larval stages of the American lobster (*Homarus americanus*). *Aquaculture* 182 (1-2): 37-47.

**Burridge LE**, Haya K, Waddy SL, 2000. The effects of azamethophos on survival and spawning success in female American lobsters. Pages 1-139 in *Proceedings of the 27th Annual Toxicity Workshop, October 1-4, 2000* (KC Penny, KA Coady, MH Murdoch, WR Parker, AJ Nimim, eds.). *Can. Tech. Rep. Fish. Aquat. Sci.* 2331.

**Burridge LE**, Haya K, Waddy SL, Wade J, 2000. The lethality of anti-sea lice formulations Salmosan (Azamethiphos) and Excis (Cypermethrin) to stage IV and adult lobsters (*Homarus americanus*) during repeated short-term exposures. *Aquaculture* 182 (1-2): 27-35.

**Burridge LE** and K Haya. 1997. The Lethality of pyrethrins to larvae and post-larvae of the American lobster (*Homarus americanus*). *Ecotoxicology and Environmental Safety* 38 (2): 150-154.

**Burridge LE**, Haya K, Zitko V, Waddy S, 1999. The lethality of Salmosan (azamethiphos) to American lobster (*Homarus americanus*) larvae, post-larvae and adults. *Ecotoxicol. Environ. Safety* 43: 165-169.

**Burridge LE**, Haya K, Zitko V, Waddy S, 1999. The lethality of Salmosan (azamethiphos) to American lobster (*Homarus americanus*) larvae, post-larvae and adults. *Ecotoxicol. Environ. Safety* 43: 165-169.

**Byard EH**, Aiken DE, 1984. The relationship between molting, reproduction and a hemolymph female-specific protein in the lobster, *Homarus americanus*. *Comp. Biochem. Physiol.* 77A:749-757.

**Byard EH**, Shivers RR, Aiken DE, 1975. The mandibular organ of the lobster, *Homarus americanus*. *Cell Tiss. Res.* 162:13-22.

**Campbell A**, 1989. Dispersal of American lobsters, *Homarus americanus*, tagged off southern Nova Scotia. *Can. J. Fish. Aquat. Sci.* 46: 1824-1844

**Campbell A**, 1986. Implications of size and sex regulations for the lobster fishery of the Bay of Fundy and southwestern Nova Scotia. *Can Spec Publ Fish Aquat Sci* 92: 126-135.

- Campbell A**, 1983. Growth of tagged American lobsters, *Homarus americanus*, in the Bay of Fundy. Can. J. Fish. Aquat. Sci. 40: 1667-1675.
- Campbell A**, Mohn R, 1983. Definition of American lobster stocks for the Canadian Maritimes by analysis of fishery-landing trends. Trans. Amer. Fish. Soc. 112: 744-759.
- Campbell A**, Robinson DG, 1983. Reproductive potential of three American lobster (*Homarus americanus*) stocks in the Canadian Maritimes. Can. J. Fish. Aquat. Sci. 40: 1958-1967
- Campbell A**, Stasko AB, 1986. Movements of lobsters (*Homarus americanus*) tagged in the Bay of Fundy, Canada. Mar. Biol. 92: 393-404.
- Campbell A**, Stasko AB, 1985. Movements of tagged American lobsters, *Homarus Americanus*, off southwestern Nova Scotia. Can. J. Fish. Aquat. Sci. 42: 229-238.
- Castell JD**, 1977. Production of juvenile lobsters (*Homarus americanus*) for nutrition research. Actes de Collogues du C.N.E.X.O. 4: 277-281.
- Castell JD**, Boghen A, 1979. Fatty acid metabolism in juvenile lobsters (*Homarus americanus*) fed a diet low in methionine and histidine. Proc. 10th Ann. Workshop. World Maricult. Soc. p. 720-727.
- Castell JD**, Budson SD, 1974. Lobster nutrition: the effect on *Homarus americanus* of dietary protein levels. J. Fish. Res. Board Can. 31: 1363-1370.
- Castell JD**, Covey JF, 1976. Dietary lipid requirements of adult lobsters (*Homarus americanus*). J. Nutrit. 106: 1159-1165.
- Castell JD**, Covey JF, Aiken DE, Waddy SL, 1977. The potential for eyestalk ablation as a technique for accelerating growth of lobsters (*Homarus americanus*) for commercial culture. Pages 985-914 in Proc. Ann. Meeting World Maricul. Soc. 1977. LSU, Baton Rouge LA, USA.
- Castell JD**, Kean JC, 1986. Evaluation of the role of nutrition in lobster recruitment. Can. J. Fish. Aquat. Sci. 43: 2320-2327.
- Charmantier-Daures M**, Charmantier G, Janssen KPC, Aiken DE, Van Herp F, 1994. Involvement of eyestalk factors in the neuroendocrine control of osmoregulation in adult American lobster *Homarus americanus*. Gen. Comp.

Endocrin. 94: 281-293.

**Charmantier-Daures M**, Charmantier G, Van Deijnen JE, Van Herp F, Thuet P, Trilles J-P, Aiken DE, 1988. Isolement d'un facteur p, donculaire intervenant dans le control neuroendocrine du m, tabolisme hydromin, ral de *Homarus americanus* (Crustacea, Decapoda). Premiers r, sultats. C.R. Acad. Sci. Paris 307 (s,r. III): 439-44.

**Charmantier G**, Aiken DE, 1987. Osmotic regulation in late embryos and prelarvae of the American lobster *Homarus americanus* H. Milne-Edwards, 1837 (Crustacea, Decapoda). J. Exp. Mar. Biol. Ecol. 109:-101-108.

**Charmantier G**, Aiken DE, 1987. Intermediate larval and postlarval stages of *Homarus americanus* H. Milne Edwards, 1837 (Crustacea, Decapoda). J. Crust. Biol. 7: 525-535.

**Charmantier G**, Charmantier-Daures M, Aiken DE, 1991. Metamorphosis in the lobster *Homarus* (Decapoda): A review. J. Crust. Biol. 11: 481B495.

**Charmantier G**, Charmantier-Daures M, Aiken DE, 1989. Accelerating lobster growth with human growth hormone. World Aquaculture 20(2): 52-53.

**Charmantier G**, Charmantier-Daures M, Aiken DE, 1989. Human somatotropin enhances the growth of young American lobsters *Homarus americanus* (Crustacea, Decapoda). C.R. Acad. Sci. Paris 308 (Ser III): 21-26.

**Charmantier G**, Charmantier-Daures M, Aiken DE, 1988. Larval development and metamorphosis of the American lobster *Homarus americanus* (Crustacea: Decapoda): Effect of eyestalk ablation and juvenile hormone injection. Gen. Comp. Endocrinol. 70: 319-333.

**Charmantier G**, Charmantier-Daures M, Aiken DE, 1985. Intervention des p, doncles oculaires dans le contr le de la m, tamorphose chez *Homarus americanus* H. Milne Edwards, 1837 (Crustacea, Decapoda). C.R. Acad. Sci. Paris (Ser. III) 300:271-276.

**Charmantier G**, Charmantier-Daures M, Aiken DE, 1984. Variation des capacit, s osmor, gularitices des larves et postlarves de *Homarus americanus* H. Milne-Edwards, 1837 (Crustacea, Decapoda). C.R. Acad. Sci. Paris (Ser. III) 299:863-866.

**Charmantier G**, Charmantier-Daures M, Aiken DE, 1984. Neuroendocrine



control of hydromineral regulation in the American lobster *Homarus americanus* H. Milne-Edwards, 1837 (Crustacea, Decapoda). 2-Larval and postlarval stages. Gen. Comp. Endocrinol. 54: 20-24.

**Charmantier G**, Charmantier-Daures M, Aiken DE, 1984. Neuroendocrine control of hydromineral regulation in the American lobster *Homarus americanus* H. Milne-Edwards, 1837 (Crustacea, Decapoda). 1-Juveniles. Gen. Comp. Endocrinol. 54: 8-19.

**Charmantier G**, Charmantier-Daures M, Aiken DE, 1982. Controle neuroendocrine de la regulation osmotique et ionique chez les juveniles et les larves de *Homarus americanus*. C.R. Acad. Sci. Paris Ser. III, 293:831-834.

**Charmantier G**, Charmantier-Daures M, Bouaricha N, Thuet P, Aiken DE, Trilles J-P, 1988. Ontogeny of osmoregulation and salinity tolerance in two decapod crustaceans: *Homarus americanus* and *Penaeus japonicus*. Biol. Bull. 175: 102-110.

**Charmantier G**, Charmantier-Daures M, Waddy SL, Aiken DE, 1991. Salinity tolerance and osmoregulation in the nemertean *Pseudocarcinonemertes homari*. Can. J. Fish. Aquat. Sci. 48: 209-214.

**Chou CL**, Uthe JF, Castell JD, Kean JC, 1987. Effect of dietary cadmium on growth, survival and tissue concentrations of cadmium, zinc, copper and silver in juvenile American Lobster (*Homarus americanus*), Can. J. Fish. Aquat. Sci., 44, 1443-1450.

**Dadswell MJ**, 1979. A review of the decline in lobster (*Homarus americanus*) landings in Chedabucto Bay between 1956 and 1977 with an hypothesis for a possible effect by the Canso Causeway on the recruitment mechanism of eastern Nova Scotia lobster stocks. Pages 113-144 in Canso Marine Environment Workshop. Fishery Impacts (FD McCracken, ed). Fish. Mar. Serv. Tech. Rep. 834 (Part 3).

**Dehn PF**, Aiken DE, Waddy SL, 1983. Aspects of vitellogenesis in the lobster *Homarus americanus*. Can. Tech. Rep. Fish. Aquat. Sci. 1161:1-24.

**Dehn PF**, Haya K, Aiken DE, 1985. Adenylate energy charge, arginine phosphate and ATPase activity in juvenile *Homarus americanus* during the molt cycle. Comp. Biochem. Physiol. 81B:629-633.

**de Kleijn D**, Janssen K, Waddy S, Hegeman R, Young-Lai W, Martens G, Van Herp F, 1998. Expression of the crustacean hyperglycaemic hormones and

gonad-inhibiting hormone during the reproductive cycle of the female American lobster, *Homarus americanus*. J. Endocrinol. 156:291-298.

**Desjardins JD**, Castell JD, Kean JC. 1985. Synthesis of dehydroascorbic acid by subadult lobsters (*Homarus americanus*). Can. J. Fish. Aquat. Sci. 42: 370-373.

**Eagles MD**, Aiken DE, Waddy SL, 1986. Influence of light and food on larval American lobsters. Can. J. Fish. Aquat. Sci. 43: 2303-2310.

**Eagles MD**, Aiken DE, Waddy SL, 1984. Effect of food quality and feeding schedule on survival, growth and development of larval American lobsters fed frozen adult brine shrimp. J. World Maricul. Soc. 15: 142-143.

**Elnor RW**, Campbell A, 1981. Force, function and mechanical advantage in the chelae of the American lobster *Homarus americanus* (Decapoda: Crustacea). J. Zool. Lond. 193: 269-286.

**Faithfull RW**, Haley LE, Castell JD. 1981. The early growth of artificially reared American lobsters. Part 1. Genetic parameters within environments. Theor. Appl. Genet. 60: 269-273.

**Hawkins CM**, Castell JD, Leroyer V, 1986. Patterns and rates of ammonia excretion by juvenile American lobsters, *Homarus americanus*, fed casein- and crab protein-based diets. Can. J. Fish. Aquat. Sci. 43: 1290-1294.

**Haya K**, Johnston CE, Waiwood BA, 1980. Adenylate energy charge and ATPase activity in American lobster (*Homarus americanus*) from Belledune Harbour. Pages 85-91 in Cadmium pollution of Belledune Harbour, New Brunswick, Canada (JF Uthe and V Zitko, eds). Can. Tech. Rep. Fish. Aquat. Sci. 963.

**Haya K**, Waiwood BA, Johnston DW, 1983. Adenylate energy charge and ATPase activity of lobster (*Homarus americanus*) during sublethal exposure to zinc. Aquat. Toxicol. 3: 115-126.

**Jamieson GS**, Campbell A, 1985. Sea scallop fishing impact on American lobsters in the Gulf of St. Lawrence. Fish. Bull. 83: 575-586.

**Jamieson GS**, 1975. Quantitative lobster genetics and culture applications. In, Recent Advances in Lobster Aquaculture (JS Cobb, ed). p. 15. Sea Grant Lobster Aquaculture Workshop, University of Rhode Island, Kingston.

**Kean JC**, Castell JD, Boghen AG, D'Abramo LR, Conklin DE, 1985. A re-evaluation of the lecithin and cholesterol requirements of juvenile lobster (*Homarus americanus*) using crab protein-based diets. *Aquaculture* 47: 143-149.

**Kean JC**, Castell JD, Trider DJ, 1985. Juvenile lobsters (*Homarus americanus*) do not require dietary ascorbic acid. *Can. J. Fish. Aquat. Sci.* 42: 368-370.

**Koshio S**, Castell JD, O'Dor RK, 1992. The effect of different dietary energy levels in crab-protein-based diets on digestibility, oxygen consumption, and ammonia excretion of bilaterally eyestalk-ablated and intact juvenile lobsters, *Homarus americanus*. *Aquaculture* 108: 285-297.

**Koshio S**, Haley LE, Castell JD, 1989. The Effect of Two Temperatures and Salinities on Growth and Survival of Bilaterally Eyestalk Ablated and Intact Juvenile American Lobsters, *Homarus americanus*, Fed Brine Shrimp., *Aquaculture* 76: 378-382.

**Koshio S**, O'Dor RK, Castell JD, 1990. The effect of different dietary energy levels on growth and survival of eyestalk ablated and intact juvenile lobsters *Homarus americanus*. *J. World Aquacult. Soc.* 21(3):160-169.

**Lawton P**, Robichaud DA, Rangeley RW, Strong MB, 2001. American lobster, *Homarus americanus*, population characteristics in the lower Bay of Fundy (Lobster Fishing Areas 36 and 38) based on fishery independent sampling. *DFO Can. Sci. Advis. Sec. Res. Doc.* 2001/093: 28 p.

**Lawton P**, Robichaud DA, Strong MB, Pezzack DS, Frail CF, 2001. Spatial and temporal trends in the American lobster, *Homarus americanus*, fishery in the Bay of Fundy (Lobster Fishing Areas 35, 36 and 38). *DFO Can. Sci. Advis. Sec. Res. Doc.* 2001/094: 70 p.

**McLeese DW**, 1976. Toxicity studies with lobster larvae and adults and a freshwater crayfish in 1975. *Fish. Res. Board Can. MS Rep.* 1384: 15 p.ú

**McLeese DW**, 1976. Fenitrothion toxicity to the freshwater crayfish, *Orconectes limosus*. *Bull. Environ. Contam. Toxicol.* 16: 411-416.

**McLeese DW**, 1975. Chemosensory response of American lobsters (*Homarus americanus*) in the presence of copper and phosphamidon. *J. Fish. Res. Board Can.* 32: 2055-2060.

**McLeese DW**, 1974. Olfactory response and fenitrothion toxicity in American lobsters (*Homarus americanus*). J. Fish. Res. Board Can. 31: 1127-1131.

**McLeese DW**, 1974. Olfactory responses of lobsters (*Homarus americanus*) to solutions for prey species and to seawater extracts and chemical fractions of fish muscle and effects of antennule ablation. J. Mar. Behav. Physiol. 2: 237-249.

**McLeese DW**, 1974. Toxicity of phosphamidon to American lobsters (*Homarus americanus*) held at 4 and 12 C. J. Fish. Res. Board Can. 31: 1556-1558.

**McLeese DW**, 1974. Toxicity of copper at two temperatures and three salinities to the American lobster (*Homarus americanus*). J. Fish. Res. Board Can. 31: 1949-1952.

**McLeese DW**, 1973. Response of lobsters, *Homarus americanus*, to odor solution in the presence of bleached kraft mill effluent. J. Fish. Res. Board Can. 30: 279-282.

**McLeese DW**, 1973. Chemical communication among lobsters (*Homarus americanus*). J. Fish. Res. Board Can. 30: 775-778.

**McLeese DW**, 1973. Orientation of lobsters (*Homarus americanus*) to odor. J. Fish. Res. Board Can. 30: 838-540.

**McLeese DW**, 1972. Effects of several factors on the growth of the American lobster in captivity. J. Fish. Res. Board Can. 29: 1725-1730.

**McLeese DW**, 1970. Behaviour of lobsters exposed to bleached kraft mill effluent. J. Fish. Res. Board Can. 27: 731-736.

**McLeese DW**, 1970. Detection of dissolved substances by the American lobster (*Homarus americanus*) and olfactory attraction between lobsters. J. Fish. Res. Board Can. 27: 1371-1378.

**McLeese DW**, 1965. Lesions on the abdominal membrane of lobsters. J. Fish. Res. Board Can. 22: 639-640.

**McLeese DW**, 1964. Oxygen consumption of the lobster, *Homarus americanus* Milne-Edwards. Helgol. wiss. Meeresunters. 10(1-4): 7-18.

**McLeese DW**, 1958. Air shipment of lobsters. Dept. Fish. Canada, Trade News 10(9): 5-6.

**McLeese DW**, 1956. Effects of temperature, salinity and oxygen on the survival of the American lobster. J. Fish. Res. Bd. Canada 13:247-272.

**McLeese DW**, Metcalfe CD, 1979. Toxicity of mixtures of phosphamidon and methidathion to lobsters (*Homarus americanus*). Chemosphere 8: 59-62.

**McLeese DW**, Metcalfe CD, 1979. Toxicity of creosote to larval and adult lobsters and *Crangon* and its accumulation in lobster hepatopancreas. Bull. Environm. Contam. Toxicol. 22: 796-799.

**McLeese DW**, Metcalfe CD, Pezzack D, 1980. Bioaccumulation of chlorobiphenyls and endrin from food by lobsters. Bull. Environm. Contam. Toxicol. 25: 161-169.

**McLeese DW**, Metcalfe CD, Zitko V, 1989. Lethality of permethrin, cypermethrin and fenvalerate to salmon, lobster and shrimp. Bull. Environm. Contam. Toxicol. 25: 950-955.

**McLeese DW**, Spraggins RL, Bose AK, Pramanik BN. Chemical and behavioural studies of the sex attractant of the lobster (*Homarus americanus*). Mar. Behav. Physiol. 4: 219-232.

**McLeese DW**, Watson J, 1968. Oxygen consumption of the spider crab (*Chionoecetes opilio*) and the American lobster (*Homarus americanus*) at a low temperature. J. Fish. Res. Board Can. 25: 1729-1732.

**McLeese DW**, Wilder DG, 1967. Le homard: entreposage et exp,dition. Bull. Fish. Res. Board Can. 147 (French edition), 75 p.

**McLeese DW**, Wilder DG, 1964. Lobster storage and shipment. Bull. Fish. Res. Board Can. 147: 69 p.

**McLeese DW**, Wilder DG, 1958. The activity and catchability of the *lobster* (*Homarus americanus*) in relation to temperature. J. Fish. Res. Bd. Canada 15:1345-1354.

**McLeese DW**, Wilder DG, 1955. Suitable holding conditions for live lobsters. Fish. Res. Bd. Canada, Atlantic Prog. Rept. 62:24-30.

**Mason EG**, Castell JD, 1980. The effects of supplementing purified proteins with limiting essential amino acids in growth and survival of juvenile lobsters (*Homarus americanus*). Pages 346-354 in Proc. 11th Ann. Workshop World Maricult. Soc., LSU, Baton Rouge LA, USA

**Mauviot JC**, Castell JD, 1976. Molt and growth enhancing effects of bilateral eyestalk ablation on juvenile and adult American lobsters (*Homarus americanus*). J. Fish. Res. Board Can. 33: 1922-1929.

**Peutz AVH**, Waddy SL, Aiken DE, Young-Lai WW, 1987. Accelerated growth of juvenile American lobsters induced by unilateral eyestalk ablation. Bull. Aquacul. Assoc. Canada 87-2:28-29.

**Pezzack DS**, Frail CM, Lawton P, Robichaud DA, Strong MB, 2001. Update on stock status of American lobster, *Homarus americanus*, Lobster Fishing Area 34. DFO Can. Sci. Advis. Sec. Res. Doc. 2001/156: 66 p.

**Pottle R**, Elnor R, 1982. Substrate preference behavior of juvenile American lobsters, *Homarus americanus*, in gravel and silt-clay sediments. Can. J. Fish. Aquat. Sci. 39: 928-932.

**Robinson DG**, 1979. Consideration of the lobster (*Homarus americanus*) recruitment overfishing hypothesis; with special reference to the Canso Causeway. Environ. Canada Fish. Mar. Ser. Tech. Rep. 834: 77-99.

**Scarratt DJ**, 1975. Observations on lobsters and scallops near Pictou, N. S. Fish. Mar. Serv. Res. Dev. Tech. Rep. 532: 15 p.

**Scarratt DJ**, 1973. The effects of raking Irish moss (*Chondrus crispus*) on lobsters in Prince Edward Island. Helgol. Wiss. Meeresunters. 24: 415-424.

**Scarratt DJ**, 1973. Claw loss and other wounds in commercially caught lobsters (*Homarus americanus*). J. Fish. Res. Board Canada 30: 1370-1373.

**Scarratt DJ**, 1973. Abundance, survival, and vertical and diurnal distribution of lobster larvae in Northumberland Strait, 1962-63, and their relationships with commercial stocks. J. Fish. Res. Board Can. 30: 1819-1824.

**Scarratt DJ**, 1972. Investigations into the effects on lobsters of raking Irish moss 1970-71. Fish. Res. Board Can. Tech. Rep. 329: 34 p.

**Scarratt DJ**, 1971. Investigation into the effects of Irish moss raking on

lobsters. Fish. Res. Board Can. MS Rep. 1105: 36 p.

**Scarratt DJ**, 1969. Lobster larvae off Pictou, Nova Scotia, not affected by kraft mill effluent. J. Fish. Res. Board Can. 26: 1931-1934.

**Scarratt DJ**, 1969. Bleached kraft mill effluent near Pictou, N. S., and its effect on the marine flora and fauna with a note on the Pictou Co. lobster landings. Fish. Res. Board Can. MS Rep. 1037: 24 p.

**Scarratt DJ**, 1968. Distribution of lobster larvae (*Homarus americanus*) off Pictou, Nova Scotia. J. Fish. Res. Board Can. 25: 427-430.

**Scarratt DJ**, 1968. An artificial reef for lobsters (*Homarus americanus*) off Pictou, Nova Scotia. J. Fish. Res. Board Can. 25: 2683-2690.

**Scarratt DJ**, 1965. Predation of lobsters (*Homarus americanus*) by *Anonyx* sp. (Crustacea, Amphipoda). J. Fish. Res. Ed. Canada 22: 1103-1104.

**Scarratt DJ**, 1964. Abundance and distribution of lobster larvae (*Homarus americanus*) in Northumberland Strait. J. Fish. Res. Board Can. 21: 661-680.

**Scarratt DJ**, Elson PF, 1965. Preliminary trials of a tag for salmon and lobsters. J. Fish. Res. Board Can. 22: 421-423.

**Scarratt DJ**, Raine GE, 1967. Avoidance of low salinity by newly hatched lobster larvae. J. Fish. Res. Board Can. 24: 1403-1406.

**Sochasky JB**, Aiken DE, 1974. The Y organ-molting gland problem in decapod Crustacea: the "organ of Madhyastha" and "organ of Carlisle," two putative Y organs. Can. J. Zool. 52:1251-1257.

**Sochasky JB**, Aiken DE, McLeese DW, 1973. Does eyestalk ablation accelerate molting in the lobster *Homarus americanus*? J. Fish. Res. Board Can. 30:1600-1603.

**Sochasky JB**, Aiken DE, Watson NHF, Byard EH, 1973. Continuing analysis of the molting gland (Y organ) problem in crustaceans. Fish. Res. Bd. Canada MS Rep. 1282.

**Sprague JB**, McLeese DW, 1968. Toxicity of kraft pulp mill effluent for larval and adult lobsters, and juvenile salmon. Water Res. 2: 753-760.

**Sprague JB**, McLeese DW, 1968. Toxicity of bleached kraft mill effluent to larval and adult lobsters and Atlantic salmon. Pages 431-433 in Technical Section: Pulp and Paper Magazine of Canada, December 1968. Presented at Third Paper Industry Air and Stream Improvement Conference, Vancouver, B. C., October 1967.

**Sprague JB**, McLeese DW, 1968. Lethal concentrations of neutralized bleached kraft pulp mill effluent for larval lobsters, adult lobsters, and juvenile salmon. Fish. Res. Board Can. MS Rep. 985: 15 p.

**Stasko AB**, 1975. Modified lobster traps for catching crabs and keeping lobsters out. J. Fish. Res. Bd. Canada 32: 2515-2520.

**Stasko A**, Gordon D, 1983. Distribution and relative abundance of lobster larvae off southwestern Nova Scotia. Can. Tech. Rep. Fish. Aquat. Sci. 175: 1-23.

**Stewart JE**, Castell JD, 1976. Various aspects of culturing the American lobster (*Homarus americanus*). Proc. FAO. Conference on Aquaculture, Kyoto, Japan. FIR: AQ/Cont/76/E: 11.

**Trider DJ**, Mason EG, Castell JD, 1979. Survival and Growth of Juvenile American Lobsters (*Homarus americanus*) after Eyestalk Ablation. J. Fish. Res. Board Canada 36(1): 93-97.

**Tsukimura B**, Waddy SL, Vogel JM, Linder CJ, Bauer DK, Borst DW, 2002. Characterization and quantification of yolk proteins in the lobster, *Homarus americanus*. J. Exp. Zool. 292: 367-375.

**Uhazy LS**, Aiken DE, Campbell A, 1985. Aspects of the biology of *Pseudocarcinonemertes homari*, and its association with the American lobster. Can. J. Fish. Aquat. Sci. 42:342-350.

**Waddy SL**, 1988. Farming the homarid lobsters: State of the art. World Aquacul. 19(4):63-71.

**Waddy SL**, Aiken DE, 2000. Endocrinology and the culture of homarid lobsters. Pages 195-247 in Recent Advances in Marine Biotechnology, Vol. IV Aquaculture (M Fingerman and R Nagabhushanam, eds.). Science Publishers Inc.

**Waddy SL**, Aiken DE, 2000. Problems with the terminology proposed by



Lavalli & Lawton for certain life history phases of the American lobster *Homarus americanus*. Mar. Ecol. Prog. Ser. 197: 309-310.

**Waddy SL**, Aiken DE, 1999. The timing of the metamorphic molt of the American lobster, *Homarus americanus*, is governed by a population-based, photoperiodically-entrained daily rhythm. Can. J. Fish. Aquat. Sci. 56: 2324-2330.

**Waddy SL**, Aiken DE, 1998. Lobster (*Homarus americanus*) culture and resource enhancement: the Canadian experience. Can. Ind. Rep. Fish. Aquat. Sci. 244: 9-18

**Waddy SL**, Aiken DE, 1995. Culture of the American lobster, *Homarus americanus*. Pages 145-188 in Cold Water Aquaculture in Atlantic Canada (AD Boghen, ed.). The Canadian Institute for Research on Regional Development, 672 p.

**Waddy SL**, Aiken DE, 1995. Temperature regulation of reproduction in the American lobster. ICES Mar. Sci. Symp. 199: 54-60.

**Waddy SL**, Aiken DE, 1992. Environmental intervention in reproduction of the American lobster, *Homarus americanus*. J. Invert. Reprod. Develop. 22: 245-252.

**Waddy SL**, Aiken DE, 1992. Seasonal variation in spawning response of preovigerous lobster (*Homarus americanus*) to manipulation of photoperiod and temperature. Can. J. Fish. Aquat. Sci. 49: 1114-1117.

**Waddy SL**, Aiken DE, 1991. Mating and insemination in the American lobster, *Homarus americanus*. Pages 126-144 in Crustacean Sexual Biology (RT Bauer, JW Martin, eds.). Columbia University Press, New York, 355 p.

**Waddy SL**, Aiken DE, 1991. Egg Production in the American lobster, *Homarus americanus*. Pages 267-290 in Crustacean Issues 4, Crustacean Egg Production (A Wenner & A Kuris eds.), Balkema Press, Amsterdam.

**Waddy SL**, Aiken DE, 1990. Intermolt insemination, an alternative mating strategy for the American lobster (*Homarus americanus*). Can. J. Fish. Aquat. Sci. 47: 2402-2406.

**Waddy SL**, Aiken DE, 1989. Control of spawning in the American lobster: winter temperature and spring photoperiod requirements. Bull. Aquacul. Assoc.

Canada 89-3:65-68.

**Waddy SL**, Aiken DE, 1988. Growth rates of male and female cultured lobsters and effect of culling on growth rates. *Bull. Aquacul. Assoc. Canada* 88-3:42-45.

**Waddy SL**, Aiken DE, 1987. Potential of intermolt mating in broodstock management for lobster culture. *Bull. Aquacul. Assoc. Canada* 87-2:30-31.

**Waddy SL**, Aiken DE, 1986. Multiple fertilization and consecutive spawning in large American lobsters. *Can. J. Fish. Aquat. Sci.* 43: 2292-2294.

**Waddy SL**, Aiken DE, 1985. Fertilization and egg retention in artificially-inseminated female American lobsters, *Homarus americanus*. *Can. J. Fish. Aquat. Sci.* 42:1954-1956.

**Waddy SL**, Aiken DE, 1985. Immunofluorescent localization of American lobster egg yolk protein in the alimentary tract of the nemertean *Pseudocarcinonemertes homari*. *Can. J. Fish. Aquat. Sci.* 42: 357-359.

**Waddy SL**, Aiken DE, 1984. Seed stock for lobster culture: the role of temperature in synchronizing the molt and reproductive cycle of cultured American lobsters. *J. World. Maricul. Soc.* 15:132-137.

**Waddy SL**, Aiken DE, 1984. Broodstock management for year-round production of larvae for culture of the American lobster. *Can. Tech. Rep. Fish. Aquat. Sci.* 1272:1-14.

**Waddy SL**, Aiken DE, de Kleijn DPV, 1995. Control of growth and reproduction. Pages 216-266 in *Biology of the Lobster Homarus americanus* (JR Factor, ed.). Academic Press, 528 p.

**Waddy SL**, Burrridge LE, Hamilton MN, Mercer SM, 2002. Preliminary results on the response of the American lobster to emamectin benzoate, the active ingredient in Slice. *Aquacult. Assoc. Can. Spec. Publ.* 5: 56-59.

**Waddy SL**, Burrridge LE, Hamilton N, Mercer SM, Aiken DE, Haya K, 2002. Emamectin benzoate induces molting in American lobster, *Homarus americanus*. *Can. J. Fish. Aquat. Sci.* 59: 1096-1099.

**Waddy, SL**, Burrridge LE, Haya K, Hamilton MN, Mercer SM, 2002. Response of preovigerous American lobster to azamethiphos varies with

concentration, number of exposures and time of year. Aquacult. Assoc. Can. Spec. Publ. 5: 60-63.

**Waddy SL**, Hamilton MN, Burrige LE, Mercer SM, Aiken DE, Haya K, 2003. Molting response of female lobsters (*Homarus americanus*) to emamectin benzoate varies with reproductive stage. Pages 75-77 in Aquaculture Canada 2002, Proceedings of the contributed papers of the 19th Annual Meeting of the Aquaculture Association of Canada, Charlottetown, PEI (CI Hendry, ed.). Aquacult. Assoc. Can. Spec. Pub. 6.

**Waiwood BA**, Zitko V, Haya K, Burrige LE, McLeese DW, 1987. Uptake and excretion of zinc by several tissues of lobster (*Homarus americanus*). Environ. Toxicol. Chem. 6: 27-32.

**Wilder DG**, 1972. Cultivation possibilities for lobster conservation and management. Oceanol. Int. 8.

**Wilder DG**, 1965. Lobster conservation in Canada. Rapp. P.-V. R.un. Cons. Perm. Int. Explor. Mer 156.

**Wilder DG**, 1963. Movements, growth and survival of marked and tagged lobsters liberated in Egmont Bay, Prince Edward Island. J. Fish. Res. Board Can. 20:305-318.

**Wilder DG**, 1963. Lobsters are local. Dep. Fish., Ottawa, Trade News 15 (Sept.).

**Wilder DG**, 1961. Banding lobster claws-a better way to inactivate them. Dept. Fish. Canada, Trade News 14(3):8-9.

**Wilder DG**, 1960. Possible effects of Passamaquoddy tidal power structures on the Canadian lobster industry. J. Fish. Res. Board Canada, 17:553-563.

**Wilder DG**, 1958. Regulation of the lobster fishery. Canadian Fish Culturist 22 (May).

**Wilder DG**, 1957. Canada's lobster fishery. Dep. Fish. Ottawa, Can. (Reprinted from Can. Geogr. J., Sept).

**Wilder DG**, 1956. Experiments to improve lobster traps. Fish. Res. Board Can. Biol. Sta. St. Andrews NB.

**Wilder DG**, 1954. The lobster fishery of the southern Gulf of St. Lawrence. Fish. Res. Board Can. Circ. 24:16 pp (Gen. Ser.).

**Wilder DG**, 1953. The growth rate of the American lobster (*Homarus americanus*). J. Fish. Res. Board Can. 10:371-412.

**Wilder DG**, 1953. Holding live lobsters in aerated artificial sea water. Fish. Res. Board Canada, Atl. Biol. Sta. Circ. 21, 4 pp (Gen. Ser.).

**Wilder DG**, 1952. The relative toxicity of certain metals to lobsters. J. Fish. Res. Bd. Canada 8:486-487.

**Wilder DG**, 1949. Protect short lobsters by widening lath spaces. Fish. Res. Board Can. Atl. Biol. Sta., Circ 14, 1 p (Gen. Ser.).

**Wilder DG**, 1948. The protection of short lobsters in the market lobster area. Fish. Res. Board Can. Atl. Biol. Sta. Circ. 11, 1 p (Gen. Ser.).

**Wilder DG**, 1943. The effect of lath spacing and size of fishing ring on the catch of lobster traps. Fish. Res. Bd. Can. Atl. Coast Sta. Progr. Rep. 34.

**Wilder DG**, McLeese DW, 1961. A comparison of three methods of inactivating lobster claws. J. Fish. Res. Board Canada 18:367-375.

**Wilder DG**, McLeese DW, 1947. How temperature and crowding affect the holding of lobsters in artificial sea water. Fish. Res. Board Canada, Atlantic Prog. Rept. 66:24

**Young-Lai WW**, Charmantier-Daures M, Charmantier G, 1991. Effect of ammonia on survival and osmoregulation in different life stages of the lobster, *Homarus americanus*. Mar. Biol. 110:293-300.

**Zitko V**, Aiken DE, Tibbo SN, Besch KWT, Anderson JM, 1970. Toxicity of yellow phosphorus to herring (*Clupea harengus*), Atlantic salmon (*Salmo salar*), lobster (*Homarus americanus*), and beach flea (*Gammarus oceanicus*). J. Fish. Res. Bd. Canada 27: 21-29

## **Marine Mammals**

**Lett PF**, Benjaminsen T, 1977. A stochastic model for the management of the northwestern Atlantic harp seal (*Pagophilus groenlandicus*) population. J. Fish. Res. Bd. Canada 34:1155-1187.

**Roots O**, Zitko V, 2002. Polychlorinated biphenyls patterns in grey seals (*Halichoerchus grypus*). *Ekologicheskaya Khimya* 11: 68-71.

**Strong MB**, Trippel E, Clark D, Neilson J, Chang B, 1995. Potential impacts of use of acoustic deterrent devices (ADDs) on marine mammals in the Quoddy Region based on a study conducted in British Columbia waters. DFO Atl. Fish. Res. Doc. 95/127.

**Trippel EA**, Holy NL, Palka DL, Shepherd TD, Melvin GD, Terhune JM, 2003. Nylon barium sulphate gillnet reduces porpoise and seabird mortality. *Mar. Mammal Sci.* 19: 240-243.

**Trippel EA**, Strong MB, Terhune JM, Conway JD, 1999. Mitigation of harbour porpoise (*Phocoena phocoena*) by-catch in the gillnet fishery in the lower Bay of Fundy. *Can. J. Fish. Aquat. Sci.* 56: 113-123.

**Utthe JF**, and Zitko V, 1988. An overview of marine environmental quality issues on the Atlantic coast of Canada. Pages 199-207 in Canadian Conference on Marine Environmental Quality: Proceedings (PG Wells and J Gratwick, eds). The International Institute for Transportation and Ocean Policy Studies, Halifax, N.S.

**Zitko V**, Stenson G, Hellou J, 1998. Levels of organochlorine and polycyclic aromatic compounds in harp seal beaters (*Phoca groenlandica*). *Sci. Total Environ.* 221: 11-29.

## Oysters

**Castell JD**, Trider DJ, 1974. Oyster nutrition. I. Preliminary feeding trails. *J. Fish. Res. Board Can.* 31: 95-99.

**Enright CT**, Newkirk GF, Craigie JS, Castell JD, 1986. Growth of juvenile *Ostrea edulis* L. fed *Chaetoceros gracilis* Schutt of varied chemical composition. *J. Exp. Mar. Biol. Ecol.* 96: 15-26.

**Enright CT**, Newkirk GF, Craigie JS, Castell JD, 1986. Evaluation of phytoplankton as diets for juvenile *Ostrea edulis* L. *J. Exp. Mar. Biol. Ecol.* 96: 1-13.

**Medcof JC**, Clarke AK Jr, Erskine JS, 1965. Ancient Canadian east-coast oyster and quahaug shells. *J. Fish. Res. Bd. Canada* 22:631-634.

**Medcof JC**, 1955. Day and night characteristics of spatfall and of behaviour of oyster larvae. J. Fish. Res. Bd. Canada 12:270-286.

**Medcof JC**, 1946. Effect of relaying and transferring on fatness of oysters. J. Fish. Res. Bd. Canada 6:449-455.

**Trider DJ**, Castell JD, 1980. Effects of dietary lipids on growth, tissue composition and metabolism in the oyster *Crassostrea virginica*). J. Nutrit. 110: 1303-1309.

**Trider DJ**, Castell JD, 1980. Influence of neutral lipids on seasonal variation of total lipids in oysters (*Crassostrea virginica*). Proc. Natl. Shellfish Assoc. Vol. 70: 112-118.

### **Salmon & Trout**

**Aiken DE**, 1989. The economics of salmon farming in the Bay of Fundy. World Aquaculture 20(3):11-19.

**Aiken DE**, 1989. Salmon farming in Canada. The Pacific Coast. World Aquaculture 20(2):11-18.

**Aiken DE**, 1987. Controlling maturity in salmon: a primer. Bull. Aquacul. Assoc. Canada 87-4:18-19.

**Bailey JK**, Saunders RL, 1984. Returns of three year-classes of sea ranched Atlantic salmon of various river strains and strain crosses. Aquaculture 41:259-270.

**Bjerknes V**, Duston J, Know D, Harmon P, 1992. Importance of body size for acclimation of underyearling Atlantic salmon parr (*Salmo salar* L.) to seawater. Aquaculture 104:357-366.

**Burridge LE**, Haya K, 1990. Seasonal lethality of pentachlorophenol to juvenile Atlantic salmon. Bull. Environ. Contam. Toxicol. 45: 888-892.

**Burridge LE**, Woodside M, Zitko V, HayajK, 1985. Lethality of mexacarbate and its formulation UCZF-19 to juvenile Atlantic salmon. Chemosphere 14: 1821-1827.

**Carson WG**, Carson WV, 1973. Avoidance of copper in the presence of humic acid by juvenile Atlantic salmon. Fish. Res. Board Can. MS Rep. 1237: 9 p

- Carson WG**, Carson WV, 1972. Toxicity of copper and zinc to juvenile Atlantic salmon in the presence of humic acid and lignosulfonates. Fish. Res. Board Can. MS Rep. 1181: 13 p.
- Castell JD**, Lee DJ, Sinnhuber RO, 1972. Essential fatty acids in the diet of rainbow trout (*Salmo gairdneri*): Lipid metabolism and fatty acid composition. J. Nutrit. 102: 93-100.
- Castell JD**, Sinnhuber RO, Lee DJ, Wales SH, 1972. Essential fatty acids in the diet of rainbow trout (*Salmo gairdneri*): Physiological symptoms of EFA deficiency. J. Nutrit. 102: 87-92.
- Castell JD**, Sinnhuber RO, Wales JH, Lee DJ, 1972. Essential fatty acids in the diet of rainbow trout (*Meganyctiphanes norvegica* and *Thysanoessa inermis*) and their role in the aquatic food web. J. Fish. Res. Board Can. 27: 513-533.
- Chang BD**, 2003. The salmon aquaculture industry in New Brunswick: why go offshore. Pages 229-232 In: Open ocean aquaculture: from research to commercial reality (CJ Bridger, BA Costa-Pierce Eds). World Aquaculture Society, Baton Rouge, LA.
- Chang BD**, Thonney J-P, 1992. Overview and environmental status of the New Brunswick salmon culture industry. Bull. Aquacul. Assoc. Can. 92-3: 61-63.
- Chislett P**, Glebe B, 2003. Fish maturity assessed with high definition ultrasound. Hatchery Int. September/October 2003: p. 30.
- Cook RH**, 1990. Salmon farming in the Bay of Fundy-the challenge of the future. World Aquaculture 21(2):46-53.
- Cook RH**, 1988. Salmon aquaculture in the Bay of Fundy: a quiet success. Bull. Aquacul. Assoc. Canada 88-2:28-40.
- Dadswell MJ**, 1968. Atlantic salmon (*Salmo salar*) investigation in the Point Wolfe and Upper Salmon Rivers, Fundy National Park. MS Rep., Limnology Section, Canadian Wildlife Service.
- Daye PG**, 1980. Attempts to acclimate embryos and alevins of Atlantic salmon, *Salmo salar*, and rainbow trout, *S. gairdneri*, to low pH. Can. J. Fish. Aquat. Sci. 37: 1035-1038.
- Duston J**, Knox JDE, 1992. Acclimation of Atlantic salmon (*Salmo salar*) parr

to seawater in autumn: stimulatory effect of a long photoperiod. *Aquaculture* 103:341-358.

**Duston J**, Saunders RL, 1999. Effect of winter food deprivation on growth and sexual maturity of Atlantic salmon (*Salmo salar*) in seawater. *Can. J. Fish. Aquat. Sci.* 56:201-207.

**Duston J**, Saunders RL, 1997. Life histories of Atlantic salmon altered by winter temperature and summer rearing in fresh- and sea-water. *Environ. Biol. Fish.* 50:149-166.

**Duston J**, Saunders RL, 1992. Effect of 6-, 12- and 18-month photoperiod cycles on smolting and sexual maturation in juvenile Atlantic salmon (*Salmo salar*). *Can. J. Fish. Aquat. Sci.* 49:2273-2280.

**Duston J**, Saunders RL, 1990. The entrainment role of photoperiod on hypoosmoregulatory and growth-related aspects of smolting in Atlantic salmon (*Salmo salar*). *Can. J. Zool.* 68:707-715.

**Elson PF**, 1974. Impact of recent economic growth and industrial development on the ecology of Northwest Miramichi Atlantic salmon (*Salmo salar*). *J. Fish. Res. Bd. Canada* 31:521-544.

**Elson PF**, 1942. Effect of temperature on activity of *Salvelinus fontinalis*. *J. Fish. Res. Bd. Canada* 5:461-470.

**Elson PF**, 1940. Effects of current on the movement of speckled trout. *J. Fish. Res. Bd. Canada* 4:491-499.

**Elson PF**, Lauzier LM, Zitko V, 1972. A preliminary study of salmon movements in a polluted estuary. Pages 325-330 in *Marine Pollution and Sea Life* (M Ruivo, ed). FAO Technical Conference on Marine Pollution and its effects on living resources and fishing, Rome, Italy. Fishing News (Books) Ltd.

**Elson PF**, Meister AL, Saunders JW, Saunders RL, Sprague JB, Zitko V, 1973. Impact of chemical pollution on Atlantic salmon in North America. *Int. Atl. Salmon Symp.* 1972, *Int. Atl. Salmon Found. Spec. Publ.* 4: 83-110.

**Fairchild W**, Kaya K, Burrige L, Arsenault J, Eales G, Sherry J, Bennie D, Burnison K, Maclatchy D, Evans R, Brown S, 2003. Effects of endocrine disruptors on parr-smolt transformation in Atlantic salmon (*Salmo salar* L.).



Pages 130-136 in Marine mortality of Atlantic salmon, *Salmo salar* L: methods and measures (ECE Potter, N O'Maoileidigh, G Chaput, eds.). DFO Can. Sci. Advis. Sec. Res. Doc. 2003/101.

**Glebe BD**, Harmon PR, Quinton C, 2003. Early and ongoing studies on maturation of cage-reared salmon in the Bay of Fundy. Bull. Aquacult. Assoc. Can. 103-1: 13-18.

**Glebe BD**, Saunders RL, 1986. Genetic factors in sexual maturity of cultured Atlantic salmon (*Salmo salar*) parr and adults reared in sea cages. Can. Spec. Publ. Fish. Aquat. Sci. 89:24-29.

**Harmon P**, Glebe B, 2001. The seawater performance of out-of-season (0+) Atlantic salmon (*Salmo salar*) smolts. Aqua. Assoc. Canada Spec. Publ. 4: 28-30.

**Harmon PR**, Glebe B, Peterson R, 2003. The effect of photoperiod on maturation of cultured salmon in the Bay of Fundy. Bull. Aquacult. Assoc. Can. 103-1:19-22.

**Harmon PR**, Glebe B, Peterson R, 2003. The effect of photoperiod on growth and maturation of Atlantic salmon (*Salmo salar*) in the Bay of Fundy. Can. Tech. Rep. Fish. Aquat. Sci. 2458: iv + 16 p.

**Harmon PR**, Knox DE, Cornick JW, Zwicker BM, Olivier G, 1991. Atypical furunculosis in Atlantic salmon. Bull. Aquacul. Assoc. Canada 91-3:67-68.

**Haya K**, Waiwood BA, 1981. Acid pH and chorionase activity of Atlantic salmon (*Salmo salar*) eggs. Bull. Environm. Contam. Toxicol. 27: 7-12.

**Haya K**, Waiwood BA, Burr ridge LE, Van Eeckhaute L, 1985. Liver energy metabolism and gill ATPase activity of *Salmo salar* juveniles after exposure to sublethal levels of phenols. Pages 521-535 in Marine pollution and physiology: recent advances (FJ Vernberg, FP Thurburg, A Calabrese and W Vernberg, eds). University of South Carolina Press, Columbia, SC.

**Haya K**, Waiwood BA, Van Eeckhaute L, 1985. Disruption of energy metabolism and smoltification during exposure of juvenile Atlantic salmon (*Salmo salar*) to low pH. Comp. Biochem. Physiol. 82C: 323-329.

**Henderson EB**, 1988. Salmon rearing trials at the Salmonid Demonstration and Development Farm. Bull. Aquacul. Assoc. Canada 88-3:49-54.

- McCormick SD**, Hansen LP, Quinn TP, Saunders RL, 1998. Movement, migration, and smolting of Atlantic salmon (*Salmo salar*). Can. J. Fish. Aquat. Sci. 55(Suppl):77-92.
- McCormick SD**, Saunders RL, MacIntyre AD, 1989. The effect of salinity and ration level on growth rate and conversion efficiency of Atlantic salmon (*Salmo salar*) smolts. Aquaculture. 82-173-180.
- McLeese DW**, Zitko V, Metcalfe CD, Sergeant DB, 1980. Lethality of aminocarb and the components of the aminocarb formulation to juvenile Atlantic salmon, marine invertebrates and a freshwater clam. Chemosphere 9: 79-82.
- Marshall EA**, Quinn TP, Roff DA, Hutchings JA, Metcalfe NB, Bakke TA, Saunders RL, LeRoy Poff, N, 1998. A framework for understanding Atlantic salmon (*Salmo salar*) life history. Can. J. Fish. Aquat. Sci. 55 (Suppl.): 45-58.
- Milligan T**, Robinson S, Yeats P, 2003. Particle aggregation and tracers for particulate dispersion from finfish aquaculture in southwestern New Brunswick. Appendix D, Pages 50-54 in Department of Fisheries and Oceans, Science Branch Maritimes Region. 2003. Salmon holding capacity in southwestern New Brunswick. Can. Tech. Rep. Fish. Aquat. Sci. 2489: iv + 60 p.
- Page FH**, Robinson SMC, 1992. Salmon farming in the Bay of Fundy: a chilling reminder. World Aquaculture 23(4): 31-34.
- Parazo MPM**, Lall SP, Castell JD, Ackman RG, 1998. Distribution of alpha- and gamma-tocopherols in Atlantic salmon (*Salmo salar*) tissues. Lipids 33: 697-704.
- Peterson RH**, 1978. Physical characteristics of Atlantic salmon spawning gravel in some New Brunswick streams. Fish. Mar. Serv. Tech. Rep. 785: 28 p.
- Peterson RH**, 1976. Temperature selection of juvenile Atlantic salmon (*Salmo salar*) as influenced by various toxic substances. J. Fish. Res. Board Can. 33: 1722-1730.
- Peterson RH**, 1975. Pectoral fin and opercular movements of Atlantic salmon (*Salmo salar*) alevins. J. Fish. Res. Board Can. 32: 643-647.
- Peterson RH**, 1974. Influence of fenitrothion on swimming velocities of brook

trout (*Salvelinus fontinalis*). J. Fish. Res. Board Can. 31: 1757-1762.

**Peterson RH**, 1974. Lethal responses of brook trout (*Salvelinus fontinalis* (Mitch.)) to dissolved copper as affected by prior sublethal exposure to the metal. Fish. Res. Board Can. MS Rep. 1309: 9 p.

**Peterson RH**, 1973. Temperature selection of juvenile Atlantic salmon (*Salmo salar* L.) exposed to some pesticides. Fish. Res. Board Can. MS Rep. 1251: 9 p.

**Peterson RH**, 1973. Temperature selection of Atlantic salmon (*Salmo salar*) and brook trout (*Salvelinus fontinalis*) as influenced by various chlorinated hydrocarbons. J. Fish. Res. Board Can. 30: 1091-1097.

**Peterson RH**, 1971. Responses of brook trout (*Salvelinus fontinalis*) cerebellum to electrical stimulation of the posterior lateral line. Fish. Res. Board Can. MS Rep. 1158: 18 p.

**Peterson RH**, Anderson JM, 1969. Influence of change in acclimation temperature on spontaneous locomotor activity and oxygen consumption in Atlantic salmon, *Salmo salar* Linn. J. Fish. Res. Board Can. 26: 93-109.

**Peterson RH**, Bourbonniere RA, Lacroix GL, Martin-Robichaud DJ, Takats P, Brun G, 1989. Responses of Atlantic salmon (*Salmo salar*) alevins to dissolved organic carbon and dissolved aluminum at low pH. Water Air Soil Pollut. 46: 399-413.

**Peterson RH**, Daye PG, Metcalfe JL, 1980. Inhibition of Atlantic salmon (*Salmo salar*) hatching at low pH. Can. J. Fish. Aquat. Sci. 37: 770-774.

**Peterson RH**, Harmon P, McGrattan S, 2003. Historical perspective of Atlantic salmon maturation in the Bay of Fundy aquaculture industry. Bull. Aquacult. Assoc. Can. 103-1: 10-12.

**Peterson RH**, Martin-Robichaud DJ, 1995. Yolk utilization by Atlantic salmon (*Salmo salar* L.) alevins in response to temperature and substrate. Aquacult. Eng. 14: 85-99.

**Peterson RH**, Martin-Robichaud DJ, 1993. Rates of ionic diffusion across the egg chorion of Atlantic salmon (*Salmo salar*). Physiol. Zool. 66: 289-306.

**Peterson RH**, Martin-Robichaud DJ, 1989. First feeding of Atlantic salmon (*Salmo salar* L.) fry as influenced by temperature regime. Aquaculture 78: 35-

53.

**Peterson RH**, Martin-Robichaud DJ, 1987. Permeability of the isolated Atlantic salmon (*Salmo salar*) chorion ions as estimated by diffusion potentials. Can. J. Fish. Aquat. Sci. 44: 1635-1639.

**Peterson RH**, Martin-Robichaud DJ, 1986. Aquatic insect histories and Atlantic salmon fry diets in the St. Croix River, New Brunswick, Canada. Can. Tech. Rep. Fish. Aquat. Sci. 1485.

**Peterson RH**, Martin-Robichaud DJ, 1986. Perivitelline and vitelline potentials in teleost eggs as influenced by ambient ionic strength, natal salinity and electrode electrolytes: and the influence of these potentials on cadmium dynamics with the egg. Can. J. Fish. Aquat. Sci. 43: 1445-1450.

**Peterson RH**, Martin-Robichaud DJ, 1986. Growth and major inorganic cation budgets of Atlantic salmon alevins at three ambient acidities. Trans. Am. Fish. Soc. 115: 220-226.

**Peterson RH**, Martin-Robichaud DJ, 1983. Embryo movements of Atlantic salmon (*Salmo salar*) as influenced by pH, temperature and state of development. Can. J. Fish. Aquat. Sci. 40: 777-782.

**Peterson RH**, Martin-Robichaud DJ, 1982. Water uptake by Atlantic salmon ova as affected by low pH. Trans. Am. Fish. Soc. 111: 772-774.

**Peterson RH**, Martin-Robichaud DJ, Power J, 1988. Toxicity of potash brines to early developmental stages of Atlantic salmon (*Salmo salar*). Bull. Environ. Contam. Toxicol. 41: 391-397.

**Peterson RH**, Metcalfe JL, 1979. Responses of Atlantic salmon alevins to temperature gradients. Can. J. Zool. 57: 1424-1430.

**Peterson RH**, Metcalfe JL, 1977. Changes in specific gravity of Atlantic salmon (*Salmo salar*) alevins. J. Fish. Res. Board Can. 34: 2388-2395.

**Peterson RH**, Page F, Steeves GD, Wildish DJ, Harmon P, Losier R, 2001. A survey of 20 Atlantic salmon farms in the Bay of Fundy: influence of environmental and husbandry variables on performance. Can. Tech. Rep. Fish. Aquat. Sci. 2337: 117 p.

**Peterson RH**, Power J, Martin-Robichaud DJ, 1991. Morphological basis of

the pectoral fin flutter in embryonic Atlantic salmon (*Salmo salar*). Can. J. Fish. Aquat. Sci. 48: 2223-2227.

**Peterson RH**, Spinny HCE, Sreedharan A, 1977. Development of Atlantic salmon (*Salmo salar*) eggs and alevins under varied temperature regimes. J. Fish. Res. Board Can. 34: 31-43.

**Peterson RH**, Sutterlin AM, Metcalfe JL, 1979. Temperature preference of several species of *Salmo* and *Salvelinus* and some of their hybrids. J. Fish. Res. Board Can. 36: 1137-1140.

**Ringo E**, Olsen RE, Castell JD, 1994. Effect of dietary lactate on growth and chemical composition of Arctic charr, *Salvelinus alpinus*. J. World Aquacult. Soc. 25: 483

**Saunders JW**, 1976. Fate of Atlantic salmon parr and smelts after descending from a small stream, tributary to the Northwest Miramichi River. ICES. C.M.1976/M:13.

**Saunders JW**, 1966. Estuarine spawning of Atlantic salmon. J. Fish. Res. Board Can. 23: 1803-1804.

**Saunders JW**, 1958. Movements of brook trout, *Salvelinus fontinalis* (Mitchill), between and within fresh and salt water. J. Fish. Res. Bd. Canada 15:1403-1449.

**Saunders JW**, Smith MW, 1965. Changes in a stream population of trout associated with increased silt. J. Fish. Res. Board Can. 22: 395-404.

**Saunders JW**, Smith MW, 1964. Planting brook trout (*Salvelinus fontinalis* (Mitchill) in estuarial waters. Can. Fish Cult. 32: 25-30.

**Saunders JW**, Smith MW, 1962. Transplantation of brook trout (*Salvelinus fontinalis* (Mitchill)) within a small stream system. Trans. Am. Fish. Soc. 91:388-394.

**Saunders RL**, 1996. Salmon aquaculture - a bright but uncertain future? Env. Biol. Fish. 45:103-107.

**Saunders RL**, 1995. Salmonid aquaculture: present status and prospects for the future. Pages 35-81 in Cold-Water Aquaculture in Atlantic Canada, 2nd Edition (AD Bogen, ed). Can. Inst. Res. Region. Develop., 672 p.

- Saunders RL**, 1992. Enhancing smolt production: by manipulating light and temperature, a farmer can increase the numbers of 1+ Atlantic salmon smolts. *World Aqua.* 23(2):37-39.
- Saunders RL**, 1991. Potential interaction between cultured and wild Atlantic salmon. *Aquaculture.* 98:51-60.
- Saunders RL**, 1989. Salmonid aquaculture: present status and prospects for the future. Pages 31-75 in *Cold-Water Aquaculture in Atlantic Canada* (AD Boghen, ed). Can. Inst. Res. Region. Develop., 410 p.
- Saunders RL**, 1988. Algal catastrophe in Norway. *World Aquaculture* 19(3):11-12.
- Saunders RL**, 1987. Winterkill! The reality of lethal winter sea temperature in East Coast salmon farming. *Bull. Aquacul. Assoc. Canada* 1:36-40.
- Saunders RL**, 1986. The thermal biology of Atlantic salmon: influence of temperature on salmon culture with particular reference to constraints imposed by low temperature. *Institute Freshwater Res., Drottningholm* 63:77-90.
- Saunders RL**, 1969. Contributions of salmon from the Northwest Miramichi River, New Brunswick, to various fisheries. *J. Fish. Res. Bd. Canada* 26:269-278.
- Saunders RL**, 1961. The irrigation of the gills in fishes. I. Studies of the mechanism of branchial irrigation. *Can. J. Zool.* 39:637-653.
- Saunders RL**, Duston J, 1992. Increasing production of Atlantic salmon smolts by manipulating photoperiod and temperature. *World Aquacul.* 23:43-46
- Saunders RL**, Duston J, Benfey TJ, 1994. Environmental and biological factors affecting growth dynamics in relation to smolting of Atlantic salmon, *Salmo salar* L. *Aqua. Fish. Manage.* 25:9-20.
- Saunders RL**, Duston J, Harmon PR, 1990. Production of underyearling Atlantic salmon smolts. *Bull. Aquacul. Assoc. Canada* 90-4:61-63.
- Saunders RL**, Henderson EB, 1988. Effects of constant day length on sexual maturation and growth of Atlantic salmon (*Salmo salar*) parr. *Can. J. Fish. Aquat. Sci.* 45:60-64.

- Saunders RL**, Henderson EB, Glebe BD, 1982. Precocious sexual maturation and smoltification in male Atlantic salmon (*Salmo salar*). *Aquaculture* 28:211-229.
- Saunders RL**, Henderson EB, Glebe BD, Loudenslager EJ, 1983. Evidence of a major environmental component in determination of the grilse: larger salmon ratio in Atlantic salmon (*Salmo salar*). *Aquaculture* 33:107-118.
- Saunders RL**, Henderson EB, Harmon PR, 1987. Extended daylength during autumn enhances growth of juvenile Atlantic salmon. Pages 32-33 *in* Proceedings of the Fourth Annual Meeting, Aquaculture Assoc. Canada (SL Waddy, ed).
- Saunders RL**, Henderson EB, Harmon PR, 1985. Effects of photoperiod on juvenile growth and smolting of Atlantic salmon and subsequent survival and growth in sea cages. *Aquaculture* 45:55-66.
- Saunders RL**, Muise BC, Henderson EB, 1975. Mortality of salmonids cultured at low temperature in seawater. *Aquaculture* 5:243-252.
- Saunders RL**, Schom CB, 1985. Importance of the variation in life history parameters of Atlantic salmon (*Salmo salar*). *Can. J. Fish. Aquat. Sci.* 42:615-618.
- Scarratt DJ**, Elson PF, 1965. Preliminary trials of a tag for salmon and lobsters. *J. Fish. Res. Board Can.* 22: 421-423.
- Sinnhuber RO**, Castell JD, Lee DJ, 1972. Essential fatty acid requirements of the rainbow trout (*Salmo gairdneri*). *Federation Proc.* 31(5): 1436-1441.
- Smith NW**, Saunders JW, 1967. Movements of brook trout in relation to an artificial pond on a small stream. *J. Fish. Res. Board Can.* 24: 1743-1761.
- Sprague JB**, McLeese DW, 1968. Toxicity of bleached kraft mill effluent to larval and adult lobsters and Atlantic salmon. Pages 431-433 *in* Technical Section: Pulp and Paper Magazine of Canada, December 1968. Presented at Third Paper Industry Air and Stream Improvement Conference, Vancouver, B. C., October 1967.
- Sprague JB**, McLeese DW, 1968. Lethal concentrations of neutralized bleached kraft pulp mill effluent for larval lobsters, adult lobsters, and juvenile salmon. *Fish. Res. Board Can. MS Rep.* 985: 15 p.

**Stasko AB**, Elson PF, 1973. Atlantic scientists "bug" salmon. *Western Fisheries* 85:26,28.

**Stefansson SO**, Berg AE, Hansen T, Saunders RL. 1992. The potential for development of salinity tolerance in underyearling Atlantic salmon (*Salmo salar*). *World Aqua.* 23(2):52-55.

**Stewart MW**, Saunders RL, Wiggs AJ, 1990. Effects of extended daylength on autumn growth dynamics of juvenile Atlantic salmon, *Salmo salar*. *Can. J. Fish. Aquat. Sci.* 47:755-759.

Sutterlin AM, Saunders RL, Henderson EB, Harmon PR, 1982. *Can. Dep. Fish. Oceans, Tech. Rep. Fish. Aquat. Sci.* 1058, 6 p.

**Sutterlin AM**, Waddy S, 1975. Possible role of the posterior lateral line in obstacle entrainment by brook trout (*Salvelinus fontinalis*). *J. Fish. Res. Board Canada* 32: 2441-2446.

**Tocher DE**, Castell JD, Dick JR, Sargent JR, 1995. Effects of salinity on the fatty acid composition of total lipid and individual glycerophospholipid classes of Atlantic salmon (*Salmo salar*) and turbot (*Scophthalmus maximus*) cells in culture. *Fish Physiol. Biochem.*, 14: 125-137.

**Tocher DE**, Castell JD, Dick JR, Sargent JR, 1994. Effects of salinity on the growth and lipid composition of Atlantic salmon (*Salmo salar*) and turbot (*Scophthalmus maximus*) cells in culture., *Fish physiol. Biochem.* 13: 451-461.

**Tulp MThM**, Haya K, Carson WG, Zitko V, Hutzinger O, 1979. Effect of salinity on uptake of <sup>14</sup>C-2,2',4,5,5'-pentachlorobiphenyl by juvenile Atlantic salmon. *Chemosphere* 8: 243-249.

**Waddy SL** (Editor), 2003. Proceedings of the 2nd St. Andrews Biological Station Aquaculture Workshop - Early maturation of Atlantic salmon. *Bull. Aquacult. Assoc. Can.* 103-1: 40 p.

**Waiwood BA**, Haya K, Van Eeckhaute L, 1992. Energy metabolism of hatchery-reared juvenile salmon exposed to low pH. *Comp. Biochem. Physiol.* 101: 49-56.

**Waiwood BA**, Haya K, 1983. Levels of chorionase activity during development of *Salmo salar* under acidic conditions. *Bull. Environm. Contam. Toxicol.* 30: 511-515.



**Wildish DJ**, Carson WG, Cunningham T, Lister NJ, 1971. Toxicological effects of some organophosphate insecticides to Atlantic salmon. Fish. Res. Board Can. MS Rep. 1157: 22 p. + appendices.

**Wildish DJ**, Lister NA, 1977. Effects of dietary fenitrothion on growth and hierarchical position in brook trout. Prog. Fish-Cult. 39: 3-9.

**Zitko V**, 1980. The uptake and excretion of mirex and dechloranes by juvenile Atlantic salmon. Chemosphere 9: 73-78.

**Zitko V**, Aiken DE, Tibbo SN, Besch KWT, Anderson JM, 1970. Toxicity of yellow phosphorus to herring (*Clupea harengus*), Atlantic salmon (*Salmo salar*), lobster (*Homarus americanus*), and beach flea (*Gammarus oceanicus*). J. Fish. Res. Bd. Canada 27: 21-29

**Zitko V**, Carson WG, 1977. Seasonal and developmental variation in the acute toxicity of zinc to juvenile Atlantic salmon (*Salmo salar*). J. Fish. Res. Board Can. 34: 139-141.

**Zitko V**, Carson WG, 1974. Avoidance of organic solvents and substituted phenols by juvenile Atlantic salmon. Fish. Res. Board Can. MS Rep. 1327: 13 p.

**Zitko V**, Carson WG, Carson WV, 1969. Wood preserving plant effluent: chemical composition, toxicity to salmon and trout. Fish. Res. Board Can. MS Rep. 1042:36 p.

**Zitko V**, Choi PMK, 1973. Oral toxicity of chlorinated dibenzofurans to juvenile Atlantic salmon. Bull. Environ. Contam. Toxicol. 10: 120-122.

**Zitko V**, Saunders RL, 1979. Effect of PCB's and other organochlorine compounds on the hatchability of Atlantic salmon (*Salmo salar*) eggs. Bull. Environm. Contam. Toxicol. 21: 125-130.

## **Scallops**

**Aiken DE**, 1993. ¡Cada vez hay más y más ostiones! World Aquaculture 24(4):6-19.

**Aiken DE**, 1987. Farming the Fundy scallop. Canadian Aquaculture magazine, Winter 1987, p. 23-24.

**Caddy JF**, 1973. Underwater observations on tracks of dredges and trawls and some effects of dredging on scallop ground. *J. Fish. Res. Bd. Canada* 30:173-180.

**Caddy JF**, 1972. Progressive loss of byssus attachment with size in the sea scallop, *Placopecten magellanicus* (Gmelin). *J. Exp. Mar. Biol. Ecol.* 9:179-190.

**Caddy JF**, 1970. A method of surveying scallop populations from a submersible. *J. Fish. Res. Bd. Canada* 27:535-549.

**Coutteau P**, Castell JD, Ackman RG, Sorgeloos P, 1996. The use of lipid emulsions as carriers for essential fatty acids in bivalves: A test case with juvenile *Placopecten magellanicus*. *J. Shellfish Res.* 15(2): 259-264

**Couturier C**, 1990. Scallop aquaculture in Canada: fact or fantasy? *World Aquaculture* 21(2): 54-62.

**Couturier C**, Aiken DE, 1989. Possible role of photoperiod in sea scallop reproduction. *Bull. Aquacul. Assoc. Canada* 89-3: 65-68.

**Elnor R**, Jamieson G, 1979. Predation of sea scallops, *Placopecten magellanicus*, by the rock crab, *Cancer irroratus*, and the American lobster, *Homarus americanus*. *J. Fish. Res. Bd. Canada* 36: 537-543.

**Haya K**, Martin JL, Robinson SMC, Martin JD, Khots A, 2003. Does uptake of *Alexandrium fundyense* cysts contribute to the levels of PSP toxin in the sea scallop *Placopecten magellanicus*? *Harmful Algae* 34: 1-7.

**Jamieson G**, Stone H, Etter M, 1982. Predation of sea scallops (*Placopecten magellanicus*) by lobsters (*Homarus americanus*) and rock crabs (*Cancer irroratus*) in underwater cage enclosures. *Can. J. Fish. Aquat. Sci.* 39: 499-505.

**Robinson SMC**, 1997. Shellfish culture in the Bay of Fundy. *Aquaculture Assoc. Canada. Spec. Publ.* 2:85-93.

**Robinson SMC**, 1996. The shellfish industry in the Gulf of Maine, status and possible future directions. *Gulf of Maine NEWS*. Summer 1996:7-9.

**Waiwood BA**, Haya K, Martin JL, 1995. Depuration of shellfish toxins by giant scallops from the Bay of Fundy, Canada. Pages 525-530 in *Harmful algal*

blooms (P Lassus, G Arzul, E. Erard-Le Denn, P Gentien and C Marcaillou-Le Baut, eds). Lavoisier, Paris.

**Wildish DJ**, 1974. Lethal response by Atlantic salmon parr to some polyoxyethylated cationic and nonionic surfactants. *Water Res.* 8: 433-437.

**Wildish DJ**, 1974. Total body lipid and brain acetylcholinesterase activity of brook trout exposed to fenitrothion. *Fish. Res. Board Can. MS Rep.* 1306: 15 p.

**Wildish DJ**, 1972. Acute lethality of some nonionic and cationic surfactants to *S. salar* and *G. oceanicus*. *Fish. Res. Board Can. MS Rep.* 1212: 7 p. + appendices.

**Wildish DJ**, 1972. Acute toxicity of polyoxyethylene esters and polyoxyethylene ethers of *S. salar* and *G. oceanicus*. *Water Res.* 6: 759-762.

**Wildish DJ**, Beatty D, 1973. In vitro hydrolysis of polyoxyethylene esters by tissues of the American eel and Atlantic salmon. *Bull. Environ. Contam. Toxicol.* 9: 212-217

**Wildish DJ**, Carson WG, Carson WV, 1971. The effect of humic substances on copper and zinc toxicity to salmon, *S. salar* L. *Fish. Res. Board Can. MS Rep.* 1160: 8 p. + appendices.

**Wildish DJ**, Wilson AJ, Young-Lai WW, DeCoste AM, Aiken DE, Martin JM, 1988. Biological and economic feasibility of four growout methods for the culture of giant scallops in the Bay of Fundy. *Can. Tech. Rep. Fish. Aquat. Sci.* 1658, 21 pp.

**Young-Lai W**, 1989. Quebec: impending success in scallop culture? *Bull. Aqua. Assoc. Canada* 89-1:29-33.

**Young-Lai WW**, Aiken DE, 1986. Biology and culture of the giant scallop, *Placopecten magellanicus*: a review. *Can. Tech. Rep. Fish. Aquat. Sci.* 1478, 21 pp.

## **Sea Urchin & Sea Cucumber**

**Balch T**, Scheibling RE, Harris LG, Chester CM, Robinson SMC, 1998. Variation in settlement of the green sea urchin (*Strongylocentrotus droebachiensis*) in the northwest Atlantic: Effects of spatial scale and sampling

method. Pages 100-104 in Proceedings of the 9th International Echinoderms Conference (R Mooi, M Telford, eds). San Francisco, August 1996. A.A. Balkema, Rotterdam 960 pp.

**Chou CL**, Haya K, Paon LA, Moffatt JD, 2003. Metals in green sea urchin (*Strongylocentrotus droebrachiensis*) as an indicator for the near-field effect of chemical wastes from salmon aquaculture sites in New Brunswick, Canada. Bull. Environm. Contam. Toxicol. 70: 948-956.

**Godbout L**, Robinson SMC, 1996. Exploitation de l'oursin. In: Proceedings from Atelier Sur le Developpement Durable de l'Oursin Vert. March 27-28 1996. Grande-Riviere, Quebec. 8 p.

**Kennedy E**, Robinson SMC, Parsons GJ, Castell JD, 2002. Importance of dietary minerals and pigments in enhancing somatic growth of juvenile green sea urchins. Aquacult. Assoc. Can. Spec. Publ. 5: 31-34.

**Pearce CM**, Daggett TL, Robinson SMC, 2003. Effects of starch type, macroalgal meal source and beta-carotene on gonad yield and quality of the green sea urchin *Strongylocentrotus droebrachiensis* (Muller) fed prepared diets. J. Shellfish Res. 22: 505-520.

**Pearce CM**, Daggett TL, Robinson SM, 2002. Optimizing prepared feed ration for gonad production of the green sea urchin *Strongylocentrotus droebrachiensis*. J. World Aqua. Assoc. 33: 268-277.

**Pearce CM**, Daggett TL, Robinson SM, 2002. Effect of protein source ratio and protein concentration in prepared diets on gonad yield and quality of the green sea urchin, *Strongylocentrotus droebrachiensis*. Aquaculture 214: 307-332.

**Pearce CM**, Daggett TL, Robinson SMC, 2001. Effect of binder type and concentration on prepared feed stability and gonad yield and quality of the green sea urchin, *Strongylocentrotus droebrachiensis*. Aquaculture 205: 301-323.

**Robinson SMC**, 2003. A roundtable discussion of the future of aquaculture for sea urchins. Pages 387-393 in Sea urchins - fisheries and ecology: Proceedings of the International Conference on Sea Urchin Fisheries and Aquaculture, Puerto Varas, Chile, March 25-27, 2003 (JD Lawrence, ed.). DEStech Publications Inc./Lancaster, PA, USA.

**Robinson SMC**, 2003. The evolving role of aquaculture in the global

production of sea urchins. Pages 343-358 in Sea urchins - fisheries and ecology: Proceedings of the International Conference on Sea Urchin Fisheries and Aquaculture, Puerto Varas, Chile, March 25-27, 2003 (JD Lawrence, ed.). DEStech Publications Inc./Lancaster, PA, USA.

**Robinson SMC**, 2000. Southwestern New Brunswick (LFA 36-38) green sea urchins. DFO Science Stock Status Report C3-49 (2000) 8 p.

**Robinson SMC**, 2000. The future of the sea urchin industry: A case study from New Brunswick. Aquaculture Ireland Aug/Sept 2000: 13-15

**Robinson SMC**, 1996. South-western New Brunswick green sea urchins. DFO Atlantic Fisheries Stock Status Rep. 96/131E, 5p.

**Robinson SMC**, Castell JD, Kennedy EJ, 2001. Developing suitable colour in the gonads of cultured green sea urchins (*Strongylocentrotus droebachiensis*). Aquaculture 206: 289-303.

**Robinson SMC**, Castell J, Kennedy E, Peters L, 2000. A summary of sea urchin culture at the St. Andrews Biological Station. Available at: <http://crdpm.cus.ca/oursin/> 6p.

**Robinson SMC**, Colborne L, 1997. Roe enhancement trials on the green sea urchin using an artificial food source. urchin Bull. Aqua. Assoc. Canada. 97-1:14-20.

**Robinson SMC**, Lawrence JM, Burrige L, Haya K, Martin JD, Castell JD, Lawrence A, 2003. The effectiveness of different pigment sources in colouring the gonads of the green sea urchin (*Strongylocentrotus droebachiensis*). Pages 215-221 in Sea Urchins - Fisheries and Ecology: Proceedings of the International Conference on Sea Urchin Fisheries and Aquaculture. Puerto Varas, Chile, March 25-27, 2003 (JD Lawrence, ed.). DEStech Publications Inc., Lancaster, PA, USA.

**Robinson SMC**, MacIntyre AM, 1997. Ageing and growth of the green sea urchin Bull. Aqua. Assoc. Canada. 97-1:56-60.

**Robinson SMC**, MacIntyre A, 1995. Biological fishery information for the rational development of the green sea urchin industry. Final Report for the New Brunswick Dept. Fisheries and Aquaculture and the Canada-New Brunswick Co-operation Agreement on Economic Diversification. 90 p (available from Librarian, Biological Station, St Andrews NB).

**Singh R**, MacDonald BA, Thomas MLH, Lawton P, 1999. Patterns of seasonal and tidal feeding activity in the dendrochirote sea cucumber *Cucumaria frondosa* (Echinodermata: Holothuroidea) in the Bay of Fundy. Mar. Ecol. Prog. Ser. 187:133-145.

**Sutterlin AM**, Waddy S, 1976. Tentacle movement patterns involved in feeding behaviour of the sea cucumber, *Cucumaria frondosa*. Mar. Behav. Physiol. 4:17-24.

## **Shrimp**

**Aiken DE**, 1990. Shrimp farming in Ecuador: an aquaculture success story. World Aquaculture 7-16.

**Aiken DE**, 1990. Shrimp farming in Ecuador: as you sow, so shall you reap. World Aquaculture 21(3):48-55.

**Aiken DE**, 1990. Shrimp farming in Ecuador: whither the future? World Aquaculture 21(4):26-30.

**Aiken DE**, 1985. Shrimp. Page 1694 in The Canadian Encyclopedia, Vol. III. Hurtig, Edmonton.

**Burridge LE** and K Haya. 1993. The lethality of Ivermectin, a potential agent for treatment of salmonids against sea lice, to the shrimp *Crangon septemspinosa*. Aquaculture 117 (1-2): 9-14.

**Dadswell MJ**, Bousfield EL, 1970. The opossum shrimp of the Ottawa region. Trail and Landscape 4: 6-11.

**Koshio S**, Kanazawa A, Teshima S-I, Castell JD, 1989. Nutritional evaluation of crab protein for larval *Penaeus japonicus* fed microparticulate diets., Aquaculture 81: 145-154.

**McLeese DW**, Metcalfe CD, 1980. Toxicities of eight organochlorine compounds in sediment and sea water to *Crangon septemspinosa*. Bull. Environm. Contam. Toxicol. 25: 921-928.

**McLeese DW**, Metcalfe CD, Pezzack D, 1980. Uptake of PCB's from sediments by *Nereis virens* and *Crangon septemspinosa*. Arch. Environm. Contam. Toxicol. 9: 507-515.

**McLeese DW**, Metcalfe CD, Zitko V, 1989. Lethality of permethrin, cypermethrin and fenvalerate to salmon, lobster and shrimp. *Bull. Environm. Contam. Toxicol.* 25: 950-955.

**McLeese DW**, Zitko V, Peterson MR, 1979. Structure-lethality relationships for phenols, anilines and other aromatic compounds in shrimp and clams. *Chemosphere* 8:53-57.

**Xu XL**, Ji WJ, Castell JD, O'Dor R K, 1994. Influence of dietary lipid sources on fecundity, egg hatchability and fatty acid composition of Chinese prawn (*Penaeus chinensis*) broodstock. *Aquaculture* 119: 359-370.

**Xu XL**, Ji WJ, Castell JD, O'Dor RK, 1994. Essential fatty acid requirement of the Chinese prawn, *Penaeus chinensis*. *Aquaculture* 127:29-40.

**Xu XL**, Ji WJ, Castell JD, O' Dor R K, 1994. Influence of dietary lipid sources on fecundity, egg hatchability and fatty acid composition of Chinese prawn (*Penaeus chinensis*) broodstock. *Aquaculture* 119: 359-370.

**Xu XL**, Ji WJ, Castell JD, O'Dor RK, 1993. The Nutritional Value of Dietary n-3 and n-6 Fatty Acids for Chinese Prawn (*Penaeus chinensis*). *Aquaculture* 118: 277-285.

### **Striped Bass**

**Harmon P**, Peterson R, 1994. The effect of temperature and salinity on the growth of striped bass (*Morone saxatilis*). *Bull. Aquacul. Assoc. Canada* 94-2:45-47.

**Martin-Robichaud DJ**, Peterson RH, 1998. Effects of light intensity, photoperiod and tank colour on swimbladder inflation success in larval striped bass (*Morone saxatilis*) *Aquacult. Res.* 29: 539-547.

**Peterson RH**, Harmon P, 2001Swimming ability of pre-feeding striped bass larvae. *Aquacult. Int.* 9: 361-366.

**Peterson RH**, Martin-Robichaud DJ, Berge A, 1996. Influence of temperature and salinity on length and yolk utilization of striped bass larvae. *Aquacult. Int.* 4, 89-103.

**Peterson RH**, Martin-Robichaud DJ, Harmon P, Berge A, 1997. The striped bass as an aquaculture species: a review. *Aquacult. Assoc. Can. Spec. Publ.* 2:

22-24.

## Sturgeon

**Appy RP**, Dadswell MJ, 1978. Parasites of *Acipenser brevirostrum* Lesueur and *Acipenser oxyrinchus* Mitchill (Osteichthyes:Acipenseridae) in the Saint John River estuary, N. B. with a description of *Caballeronema pseudoargumentosus* sp. n. (Nematoda:Spiruroidea). Can. J. Zool. 56: 1382-1391.

**Dadswell MJ**, 1984. Status of the shortnose sturgeon, *Acipenser brivirostrum*, in Canada. Can. Field Natur. 98:75-79.

**Dadswell MJ**, 1979. Biology and population characteristics of the shortnose sturgeon, *Acipenser brevirostrum* LeSueur 1818 (Osteichthyes: Acipenseridae), in the Saint John River Estuary, New Brunswick, Canada. Can. J. Zool. 11: 2186-2210.

**Dadswell MJ**, 1976. The biology of the shortnose sturgeon, *Acipenser brevirostrum* Lesueur, in the Saint John River estuary, New Brunswick. Trans. Can. Soc. Environ. Biol.: 20-72.

**Moghim M**, Neilson JD., 1999. Imminent collapse of the Caspian Sea Stellate Sturgeon (*Acipenser stellatus*). Ambio 28: 372-373.

## Swordfish

**Beckett JS**, Tibbo SN, 1968. Recent changes in size composition of Canadian Atlantic swordfish catches. ICNAF Redbook, Part 3: 62-66.

**Beckett JS**, 1968. Longline lures for swordfish. Fish. Canada 21:26-27.

**Caddy JF**, 1977. Some approaches to elucidation of the dynamics of swordfish (*Xiphias gladius*) populations. Canada Dept. Fish. Environ. MS Report 1439, 10 p.

**Tibbo SN**, Day LR, Doucet WF, 1962. The swordfish (*Xiphias gladius* L.), its life-history and economic importance in the northwest Atlantic. Bull. Fish. Fes. Bd. Canada 130, 47p.

## Tuna



**Beckett JS**, Lenarz WH, 1973. Estimation of rates of tag shedding by northwest Atlantic bluefin tuna. *Fish. Bull.* 71:1103-1105.

**Calcutt M**, Paul S, Neilson J, Murphy O, 2003. National report of Canada. *Int. Comm. Conserv. Atl. Tunas NAT-005*: 9 p.

**Neilson JD**, Heileman S, Singh-Renton S, 1994. Comparison of hard parts of blackfin tuna (*Thunnus atlanticus*) for age determination purposes. ICCAT Selected Papers.

**Zitko V**, 1980. PCB and other organochlorine compounds in sharks and tunas. *Int. Counc. Explor. Sea C.M.* 1980/E:21.

### **Other Finfish**

**Ackman RG**, Eaton CA, Sipos JC, Hooper SN, Castell JD, 1970. Lipids and fatty acids of two species of North Atlantic krill (*Meganyctiphanes norvegica* and *Thysanoessa inermis*) and their role in the aquatic food web. *J. Fish. Res. Board Can.* 17: 513-533.

**Carruthers EH**, Neilson JD, Perley P, Clark D, Smith S, 2003. Evaluation of research vessel and ITQ survey data as abundance indices for pollock. *Can. Sci. Advis. Sec. Res. Doc.* 2003/110: 40 p.

**Cochrane NA**, Sameoto D, Herman AW, Neilson JD, 1991. Multiple-frequency acoustic backscattering and zooplankton aggregations in the inner Scotian Shelf Basins. *Can. J. Fish. Aquat. Sci.* 48: 340-355.

**Farmer GJ**, Beamish FWH, Lett PF, 1977. Influence of water temperature on the growth rate of the landlocked sea lamprey (*Petromyzon marinus*) and the associated rate of host mortality. *J. Fish. Res. Bd. Canada* 34:1373-1378.

**Fletcher GL**, Hew CL, Li XM, HayayK, Kao MH, 1985. Year round presence of high levels of plasma antifreeze peptides in a temperate fish: ocean pout, *Mactrozoarces americanus*. *Can. J. Zool.* 63: 488-493.

**Fletcher GL**, Kao MH, Haya K, 1984. Seasonal and phenotypic variations in plasma antifreeze levels in a population of marine fish sea raven (*Hemitripterus americanus*). *Can. J. Fish. Aquat. Sci.* 41: 819-824.

**Halliday RG**, 1970. Growth and vertical distribution of the glacier lanternfish, *Benthoosema glaciale*, in the northwestern Atlantic. *J. Fish. Res. Bd. Canada*

27:105-116.

**Harris LE**, Comeau PA, Clark DS, 2002. Evaluation of cusk (*Brosme brosme*) in Canadian waters. DFO Can. Sci. Advis. Sec. Res. Doc. 2002/104.

**Haya K**, Martin JL, Waiwood BA, Burrige LE, Hungerford JM, Zitko V, 1990. Identification of paralytic shellfish toxins in mackerel from southwest Bay of Fundy, Canada. Pages 350-355 in Toxic marine phytoplankton (E Graneli, B Sundstrom, L Edler, DM Anderson, eds.). Elsevier, New York, NY.

**Koeller PA**, Coates-Markle L, Neilson JD, 1989. Feeding ecology of juvenile (0-group) silver hake (*Merluccius bilinearis*) on the Scotian Shelf. Can. J. Fish. Aquat. Sci. 46: 1762-1768.

**Martin-Robichaud DJ**, Peterson RH, Benfey TJ, Crim LW, 1994. Direct feminization of lumpfish (*Cyclopterus lumpus* L.) using 17 $\alpha$ -oestradiol-enriched Artemia as food. Aquaculture 123: 137-151.

**Medcof JC**, 1966. Incidental records on behaviour of eels in Lake Ainslie, Nova Scotia. J. Fish. Res. Bd. Canada 23:1101-1105.

**Melvin GD**, Dadswell MJ, Martin JD, 1986. Fidelity of American shad, *Alosa sapidissima* (Clupeidae), to its river of previous spawning. Can. J. Fish. Aquat. Sci. 43:640-646.

**Morrison CM**, Leggiadro CT, Martell DJ, 1996. Visualization of viruses in tumors of rainbow smelt *Osmerus mordax*. Dis. Aquat. Org. 26:19-23.

**Musial CJ**, Uthe JF, Sirota GR, Gilgan M, Zitko V, Matheson RA, 1981. Isolation and characterization of di-n-hexyl phthalate (DHP) as a new contaminant in Atlantic herring (*Clupea harengus harengus*) and mackerel (*Scomber scombrus*). Can. J. Fish. Aquat. Sci. 38: 856-859.

**Neilson JD**, 2003. Potential indicators of pollock productivity. DFO Can. Sci. Advis. Sec. Res. Doc. 2003/111: 14 p.

**Neilson JD**, Annis L, Perley P, Clay A, Croft C, O'Connor M, 2002. Seasonal aggregations of Canadian east coast pollock as inferred from the commercial fishery and hydroacoustic observations. J. Fish Biol. 61: 1067-1084.

**Neilson JD**, Clark D, Melvin GD, Perley P, Stevens C, 2003. The diel-vertical distribution and characteristics of pre-spawning aggregations of pollock

(*Pollachius virens*) as inferred from hydroacoustic observations: the implications of survey design. ICES J. Mar. Sci. 60: 1-12.

**Neilson JD**, Perley P, Carruthers EH, Stobo W, Clark D, 2003. Stock structure of pollock in NAFO Divs. 4VWX5Zc. DFO Can. Sci. Advis. Sec. Res. Doc. 2003/045: 56 p.

**Neilson JD**, Perley P, Fowler M, Clark D, 2003. An evaluation of commercial fishery catch rates as an index of abundance of pollock in NAFO Divs. 4X5. DFO Can. Sci. Advis. Sec. Res. Doc. 2003/109: 50 p.

**Neilson JD**, Perley P, Stevens C, Clark D, Melvin G, 2003. Can hydroacoustic survey approaches yield abundance indices of pollock on the Scotian Shelf? DFO Can. Sci. Advis. Sec. Res. Doc. 2003/075: 33 p.

**Neilson JD**, Perry RI, 1990. Diel vertical migrations of juvenile fish: an obligate or facultative process? Adv. Mar. Biol. 26: 115-168.

**Neilson JD**, Stobo WT, Perley P, 2003. Age and growth of Canadian East Coast pollock: comparison of results from otolith examination and mark-recapture studies. Trans. Am. Fish. Soc. 132: 536-545.

**Peterson RH**, 1972. Electrical responses of goldfish cerebellum, responses to parallel fiber and peduncle stimulation. Brain Res. 41: 67-79.

**Peterson RH**, 1972. Tactile responses of the goldfish (*Carassius auratus*) facial lobe. Copeia 4: 816-819.

**Peterson RH**, Martin-Robichaud DJ, 1994. First feeding and growth of elvers of the American eel (*Anguilla rostrata* (Lesueur)) at several temperature regimes. Can. Tech. Rep. Fish. Aquat. Sci. 2013: 1-11.

**Peterson RH**, Prosser CL, 1972. The effects of cooling on electrical responses of goldfish (*Carassius auratus*) central nervous system. Comp. Biochem. Physiol. 42: 1019-1038.

**Waddy SL** (Editor), 2002. Proceedings of a wolffish workshop. Bull. Aquacult. Assoc. Can. 102-2: 48 p.

**Wildish DJ**, Beatty D, 1973. In vitro hydrolysis of polyoxyethylene esters by tissues of the American eel and Atlantic salmon. Bull. Environ. Contam. Toxicol. 9: 212-217

**Zitko V**, 1980. PCB and other organochlorine compounds in sharks and tunas. Int. Counc. Explor. Sea C.M. 1980/E:21.

**Zitko V**, Choi PMK, Wildish DJ, Monaghan CF, Lister NA, 1974. The distribution of PCB and p,p'-DDE residues in Atlantic herring (*Clupea harengus harengus*) and yellow perch (*Perca flavescens*) in Eastern Canada - 1972. Pestic. Monit. J. 8: 105-109.

**Zitko V**, Collins H, 1997. Mercury and organochlorine compounds in eels (*Anguilla rostrata* L.) from the Miramichi watershed. Can. Manuscr. Rep. Fish. Aquat. Sci. 2396: iii + 31 p.

### **Other Shellfish**

**Aiken DE**, 1987. Mussel culture in Sweden. Bull. Aquacul. Assoc. Canada 87-4:16.

**Dadswell MJ**, 1975. Some notes on shoaling behavior and growth of *Mysis gaspensis* (Mysidacea) in a small Newfoundland estuary. Can. J. Zool. 53: 374-377.

**Hellou J**, Steller S, Zitko V, Leonard J, King T, Milligan TG, Yeats P, 2002. Distribution of PACs in surficial sediments and bioavailability to mussels, *Mytilus edulis* of Halifax Harbour. Mar. Environ. Res. 53: 357-379.

**McLeese DW**, Sergeant DB, Metcalf CD, Zitko V, Burrige LE, 1980. Uptake and excretion of aminocarb, nonylphenol, and pesticide Diluent 585 by mussels (*Mytilus edulis*). Bull. Environm. Contam. Toxicol. 24: 575-581.

**McLeese DW**, Zitko V, Sergeant DB, 1979. Uptake and excretion of fenitrothion by clams and mussels. Bull. Environm. Contam. Toxicol. 22: 800-806.

**Waddy SL** (Editor), 2002. Proceedings of the First International Mussel Forum. Bull. Aquacult. Assoc. Can. 102-3: 128 p.

**Wildish DJ**, 1972. Post embryonic growth and age in some littoral *Orchestia* (Amphipoda, Talitridae). Crustaceana, Suppl. 3: 267-274

**Wildish DJ**, 1972. Polychlorinated biphenyls (PCB) in sea water and their effect on reproduction of *Gammarus oceanicus*. Bull. Environ. Contam. Toxicol. 7: 182-187.

**Wildish DJ**, 1970. The toxicity of polychlorinated biphenyls (PCB) in sea water to *Gammarus oceanicus*. Bull. Environ. Contam. Toxicol. 5: 202-204.

**Wildish DJ**, 1970. Polychlorinated biphenyls in seawater: bioassay of *Gammarus oceanicus*. Fish. Res. Board Can. MS Rep. 1084: 24 p.

**Wildish DJ**, 1971. Adaptive significance of a biased sex ratio in *Orchestia*. Nature 233: 54-55.

**Wildish DJ**, 1970. A new subspecies of *Orchestia* Leach (Amphipoda, Talitridae from Britain. Crustaceana 16: 288-290.

**Wildish DJ**, 1970. Locomotory activity rhythms in some littoral *Orchestia* Crustacea: Amphipoda). J. Mar. Biol. Assoc. U. K. 50: 241-252.

**Wildish DJ**, Lincoln RJ, 1979. Occurrence of *Orchestia platensis* Kroyer 1845 in Britain. Crustaceana 36(2): 199-200.

**Wildish DJ**, Poole NJ, 1970. Cellulase activity in *Orchestia gammarella* (Pallas). Comp. Biochem. Phys. 33: 713-716.

**Wildish DJ**, Wentzell C, 1970. The histopathology of PCB treated *Gammarus oceanicus*. Fish. Res. Board Can. MS Rep. 1103: 19 p.

**Wildish DJ**, Zitko V, 1971. Uptake of polychlorinated biphenyls from sea water by *Gammarus oceanicus*. Mar. Biol. 9: 213-218.

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