

MICHAEL F. LAPOINTE

EDUCATION

**M.Sc. in Zoology, November 1989.
University of British Columbia**

Thesis title

Numerical and functional responses of British Columbia trawlers.

**Project Support
4/83 - 4/85**

Department of Fisheries & Oceans (DFO), Pacific Biological Station
Scholarship

**Honors
Activities**

University Summer Graduate Fellowship 1985
Participant in several salmon management workshops for DFO
personnel, commercial, and native fishermen. Diploma in salmon
management, Hecate strait groundfish modeling workshop.

**B.Sc. in Wildlife, December 1980.
University of Maine**

Honors

Richard Totman Award, Xi Sigma Pi highest ranking freshman
(co-recipient), Bill Geagan Summer Camp Award,
Xi Sigma Pi Honor Society.

Activities

Environmental Awareness Committee, student chapter of the
Wildlife Society (organizer of films and seminars), church folk
group guitarist, co-author of York Village Government
Charter, intramural basketball.

Greenfield High School, Greenfield, MA
Diploma, June 1976. Harvard Book Award, 1975.

WORK EXPERIENCE

- 3/02 - present** **Chief Biologist**
Pacific Salmon Commission
- Primary duties: Supervise and direct 14 biological staff in the conduct of assessments of abundance, timing and stock composition of Fraser sockeye and Pink salmon to support in-season management decisions of the Fraser River Panel. Assist Panel in development of Pre-season fishing plans. Provide policy advice on the consistency of National section's fisheries proposals with pre-season plans and objectives. Present results of planning and in-season assessment to the Fraser Panel and its Technical Committee. Make recommendations regarding changes to run sizes and timing of Fraser river sockeye and Pink salmon populations. Act as media spokesman for issues related to Fraser River sockeye and pink salmon biology, assessment and management.
- 3/92 – 03/02** **Project Biologist**
Pacific Salmon Commission
- Primary duties: Coordinate field sampling and laboratory analysis and perform statistical analyses to identify catches of Fraser River sockeye salmon in mixed stock fisheries.
- Other activities:** Applied research on alternative stock discrimination techniques, participated in En-route Mortality and In-River Catch Estimation groups for 1994 Fraser River Sockeye Public Review Board, completed short course in risk assessment and decision analysis, assist Chief Biologist in reviewing Fraser sockeye forecasts, writing briefing notes and organizing workshops, referee for fisheries journals
- 11/87 - 3/92** **Research assistant**
School of Resource and Environmental Management,
Simon Fraser University, Burnaby, B.C.
- Simulation modeling, statistical analyses, graphics, writing for publication, providing computer support, and advising graduate students on research problems.
- Research Projects:** See publications with R. Peterman
- 1/87 - 3/87** **Consultant**
International Analytic Science Ltd, Vancouver, B.C.
- Prepared simulation model of Skeena river salmon fisheries and wrote project report.
- 9/82 - 12/86** **Various Research and Teaching Assistantships.**
University of British Columbia

Salmon run reconstruction modeling, computer and first year biology lab instructor

3/82 - 8/82

Research Assistant
Alaska Cooperative Fishery Research Unit, Fairbanks, AK

Project: Assessment of various fish sampling techniques on Alaskan lakes.

1/80 - 7/80

Student Trainee
National Marine Fisheries Service, Newport, Rhode Island.

Gathering statistical data and biological samples of the catch from commercial fishermen and wholesalers.

PUBLICATIONS

Farrell, A.P., S. G. Hinch, S. J. Cooke, D. A. Patterson, G. T. Crossin, M. Lapointe, and M. T. Mathes. 2008. Pacific Salmon in Hot Water: Applying Aerobic Scope Models and Biotelemetry to Predict the Success of Spawning Migrations. *Phys. Biochem. Zool.* 81(6):697-708.

Beacham, T.D., M. Lapointe, J.R. Candy, B. McIntosh, C. MacConnachie, A. Tabata, K. Kaukinen, L. Deng, K. M. Miller and R. Withler. Stock Identification of Fraser River sockeye salmon using microsatellites and major histocompatibility complex variation. *Transactions of the American Fisheries Society* 133:1117-1137, 2004

Beacham, T.D., M. Lapointe, J.R. Candy, K.M. Miller and R.E. Withler. 2004. DNA in action: rapid application of DNA variation to sockeye salmon fisheries management. *Conservation Genetics* 5:411-416.

Cooke, S.J., S.G. Hinch, A.P. Farrell, M. F. Lapointe, S. R. M. Jones, J. S. Macdonald, D. A. Patterson, M.C. Healey and G. Van der Kraak. 2004 Abnormal migration timing and high en route mortality of sockeye salmon in the Fraser River, British Columbia. *Fisheries* 29:22-33.

Lapointe, M., S.J. Cooke, S.G. Hinch, A.P. Farrell, S. Jones, S. Macdonald, D. Patterson, M.C. Healey and G. Van Der Kraak. 2004. Late-run sockeye salmon in the Fraser River, British Columbia are experiencing early upstream migration and unusually high rates of mortality – What is going on? In T.W. Droscher, and D.A. Fraser (eds). *Proceeding of the 2003 Georgia Basin/Puget Sound Research Conference*.

Available on line at:

http://www.psat.wa.gov/Publications/03_proceedings/PAPERS/ORAL/5c_lapoi.pdf

McKinnell, S.M., C.C. Wood, M. Lapointe, J.C. Woodey, K.E. Kostow, J. Nelson, and K.D. Hyatt. 1999. Reviewing the evidence that adult sockeye salmon strayed from the Fraser River and spawned in other rivers in 1997. *PICES Scientific report*. 10. pp. 73-75.

Peterman. R.M., B.J. Pyper, M.F. Lapointe and C.J. Walters. 1999. Patterns of covariation in length and age at maturity of British Columbia and Alaska sockeye salmon (*Oncorhynchus nerka*) stocks. *Can. J. Fish. Aquat. Sci.* 56:1046-1057.

Peterman. R.M., B.J. Pyper, M.F. Lapointe, and M.D. Adkison. 1998. Patterns of covariation in survival rates of British Columbia and Alaska sockeye salmon (*Oncorhynchus nerka*) stocks. *Can. J. Fish. Aquat. Sci.* 55:2503-2517.

Peterman, R.M., B.J. Pyper, M.F. Lapointe, and M.D. Adkison. 1997. Patterns of covariation in components of recruitment among sockeye salmon stocks in British Columbia and Alaska. p. 243-247 in Emmett, R.L. and M.H. Schiewe (eds.). Estuarine and ocean survival of northeastern Pacific salmon: Proceeding of the workshop. U. S. Dept. of Commerce, NOAA Tech. Memo. NMFS-NWFSC-29, 313 pp.

Adkison, M.D., R.M. Peterman, M.F. Lapointe, D.M. Gillis and J. Korman. 1996. Alternative models of climatic effects on sockeye salmon productivity in Bristol Bay, Alaska, and the Fraser River, British Columbia. *Fish. Oceanogr.* 5:137-152.

Lapointe, M.F., R.M. Peterman, and B. J. Rothschild. 1992. Variable natural mortality rates inflate variance of recruitments estimated from virtual population analysis (VPA). *Can. J. Fish. Aquat. Sci.* 49:2020-2027.

Lapointe, M.F., and R.M. Peterman. 1991. Spurious correlations between fish recruitment and environmental factors due to errors in the natural mortality rate used in virtual population analysis (VPA). *ICES J. mar. Sci.* 48:219-228.

Lapointe, M. F., R. M. Peterman, and A. D. MacCall. 1989. Trends in fishing mortality rate along with errors in natural mortality rate can cause spurious time trends in fish stock abundances estimated by Virtual Population Analysis (VPA). *Can. J. Fish. Aquat. Sci.* 46:2129-2139.

Lapointe, M. F. 1989. Numerical and functional responses of British Columbia trawlers. M.Sc. thesis, University of British Columbia, Vancouver, B.C., Canada, 319p.

Walters, C. J. and M. F. Lapointe. 1987. Users guide for CATANAL; microcomputer system for analysis of catch-at-age data. Chapter IV in Walters, C.J. 1987. Microcomputer catch-at-age analysis system. University of British Columbia, Vancouver, B.C., Canada.

Walters, C. J. and M. F. Lapointe. 1987. Users guide for GENEST; stock assessment using Schnute-Deriso delay- difference model. Chapter IV in Walters, C.J. 1987. Microcomputer stock assessment using Schnute's generalization of the Deriso delay-difference model. University of British Columbia, Vancouver, B.C., Canada.

Staley, M. J. and M. F. Lapointe. 1987. A new Skeena river salmon management model. International Analytic Science Ltd., Vancouver, B.C., Canada.

Lapointe, Michael F. 1986. The sockeye are coming. *The West Coast Fisherman*. 1(1):18-19. A summary of the theories about cyclic dominance in sockeye salmon for commercial fishermen.