



Dr. Donald James Noakes P.Eng.

Associate Vice President Research and Graduate Studies (Interim)
Thompson Rivers University

Degrees

Ph.D. University of Waterloo, Systems Design Engineering (1985) [Dissertation: "Applied Time Series Modelling, Seasonality, and Forecasting"]

M.A.Sc. University of Waterloo, Systems Design Engineering (1979) [Thesis: "Forecasting Geophysical Time Series"]

B.Sc. (Engineering), University of Guelph, Water Resources Engineering (1977)

Awards or Distinctions

Thompson Rivers University Award for Excellence in Scholarship (2009)

University of Waterloo, Faculty of Engineering, Alumni Achievement Medal (2007)

Government of Canada Science Award to Leaders in Sustainable Development (2003)

Queens Golden Jubilee Medal (2002)

R.E. Foerster Award (2000) (Fisheries and Oceans Canada, Pacific Region)

Ontario Agricultural College Gold Medal, University of Guelph (1977)

Association of Professional Engineers Gold Medal, University of Guelph (1977)

Employment

Associate Vice President Research and Graduate Studies (Interim), Thompson Rivers University, 07/2011 -

Professor, Department of Mathematics and Statistics, Faculty of Science, Thompson Rivers University, 08/2008 -

Professor and Dean, School of Advanced Technologies and Mathematics, Thompson Rivers University, 08/2003— 07/2008

Director, Pacific Biological Station and Head, Aquaculture, Fisheries and Oceans Canada, 01/1995—08/2003

Acting Director, Biological Sciences Branch, Pacific Biological Station, Fisheries and Oceans Canada, 12/1992—01/1995

Acting Head, Salmon Division, Pacific Biological Station, Fisheries and Oceans Canada, 01/1992—12/1994

Research Scientist, Fisheries and Oceans Canada, 01/1985—12/1991

Service (recent)

- 2007 – Development Editor and Editor-in-Chief, Marine and Coastal Fisheries: Dynamics, Management and Ecosystems Science
- 2004 – IEEE Systems, Man, and Cybernetics' Technical Committee on Conflict Resolution (Member)
- 1993 – 2003 Canadian Scientific Advisor to the North Pacific Anadromous Fisheries Commission, Scientific Advisor
- 1997 – 2001 Canadian Scientific Advisor, International Pacific Halibut Commission, Scientific Advisor

Professional Memberships

Association of Profession Engineers and Geoscientists of British Columbia
 Professional Engineers Ontario
 Institute of Electrical and Electronic Engineers
 American Fisheries Society
 Fellow American Institute of Professional Research Biologists

Scholarly and Professional Activities (*representative*)

Noakes, D.J. and R.J. Beamish. (2011) *Shifting the balance: towards sustainable salmon populations and fisheries for the future*. p. 23-50, In W.W. Taylor, A.J. Lynch, and M.G. Schechter (Editors). *Sustainable Fisheries: Multi-Level Approaches to a Global Program*. American Fisheries Society, Bethesda, Maryland. (Invited book chapter)

Beamish, R.J., R.M. Sweeting, K.L. Lange, D.J. Noakes, D. Preikshot, and C.M. Neville. (2010) *Early marine survival of coho salmon in the Strait of Georgia declines to very low levels*. *Marine and Coastal Fisheries* 2: 424-439.

Noakes, D.J. and R.J. Beamish. (2009) *Synchrony of marine fish catches and climate and ocean regime shifts in the North Pacific Ocean*. *Marine and Coastal Fisheries* 1: 155 – 168.

Noakes, D.J., L. Fang, K.W. Hipel, and D.M. Kilgour (2005) *The Pacific Salmon treaty: a century of debate and an uncertain future*. *Group Decision and Negotiation*, 14(6): 501-522.

Beamish, R.J. and D.J. Noakes (2004) *Global warming, aquaculture, and commercial fisheries*. K.M. Leber, S. Kitada, H.L. Blankenship and T. Svasand (Editors) *Stock Enhancement and Sea Ranching: Developments, Pitfalls and Opportunities*, Second Edition: 584p. Chapter 3 (pp. 25-47)

Noakes, D.J., L. Fang, K.W. Hipel, and D.M. Kilgour (2003) *An examination of the salmon aquaculture conflict in British Columbia using the graph model for conflict resolution*. Fisheries Management and Ecology 10(3): 123-137.

Sweeting, R.M., R.J. Beamish, D.J. Noakes, and C.M. Neville (2003) *Replacement of wild Coho salmon by hatchery-reared Coho salmon in the Strait of Georgia over the past three decades*. North American Journal of Fisheries Management 23: 492-502

Beamish, R.J. and D.J. Noakes (2002) *The role of climate in the past, present and future of Pacific salmon fisheries off the west coast of Canada*. p. 231-244 In N.A. McGinn (Editor), Fisheries in a Changing Climate, American Fisheries Society Symposium 32, Bethesda, Maryland.

Beamish, R.J., D.J. Noakes, G.A. McFarlane, W. Pinnex, R. Sweeting, and J. King (2000) *Trends in Coho marine survival in relation to the regime concept*. Fisheries Oceanography 9: 114-119.

Noakes, D.J., R.J. Beamish, and M.L. Kent (2000) *On the decline of Pacific salmon and speculative links to salmon farming in British Columbia*. Aquaculture 183: 363-386.

Beamish, R.J., Noakes, D.J., McFarlane, G.A., Klyashtorin, L., Ivanov, V.V. and V. Kurashov (1999) *The regime concept and natural trends in the production of Pacific salmon*. Canadian Journal of Fisheries and Aquatic Science 56: 516-526.

Welch, D.W., Noakes, D.J. (1991) *Optimal harvest rate policies for rebuilding the Adams River Sockeye salmon (Oncorhynchus nerka)*. Canadian Journal of Fisheries and Aquatic Science 48:526-535.

Welch, D.W., Noakes, D.J. (1990) *Cyclic dominance and the optimal escapement problem: assessing yields for Adams River sockeye salmon (Oncorhynchus nerka)*. Canadian Journal of Fisheries and Aquatic Science 47: 838 – 849.

Noakes, D.J., Welch, D.W., Henderson, M., Mansfield, E. (1990) *A comparison of preseason forecasting methods for two British Columbia Sockeye salmon stocks*. North American Journal of Fisheries Management 10: 46 – 57.

Noakes, D.J. (1989) *A nonparametric approach to generating in-season forecasts of salmon returns*. Canadian Journal of Fisheries and Aquatic Science 46: 2046-2055.

Noakes, D.J., Hipel, K.W., McLeod, A.I., Jimenez, C. and Yakowitz, S. (1988) *Forecasting annual geophysical time series*. International Journal of Forecasting 4: 103 – 115.