

Summary of qualifications

Internationally-recognized expert in two major fields of fisheries science: 1) ecology and stock assessment of flatfish and 2) optimization and performance of commercial and scientific fishing gears.

Conducted extensive research in fisheries science dedicated to the assessment, conservation and management of groundfish and shellfish resources, prior to retirement from the Dept. Fisheries and Oceans, (DFO) NL region in October 2007.

In 2008, appointed Emeritus Scientist with Department of Fisheries and Oceans and since 2008 I have also served on several review panels, and graduate supervisory committees.

Education

- Bachelor of Science, Memorial University of Newfoundland; major in Biology, 1970;
- Master of Science, Memorial University of Newfoundland; major in Evolutionary Ecology of Sharks, 1990; and
- Doctor of Philosophy, University of Bergen, Norway; major in Fisheries Science, 1996.

Professional experience**2013- ,Sessional Instructor at Memorial University Fisheries and Marine Institute**

- Instructor: Master's level course in stock assessment for fishery managers

2009, Appointed Chair of NEFSC Review Panel

- Review of survey vessel inter-calibration modeling for the research vessels *Albatross* and *Bigelow*.

2008 -, Appointed Scientist Emeritus with DFO-Region

- Focus of research is centered on the influence of climate and fisheries on ecology and population dynamics of groundfish, and 2) ecosystem impacts of fishing gears and catchability of survey gears.
- Mentoring junior scientists.

2008 - 2012, Appointed to Expert Panel for Norwegian Research Council in Oslo, Norway

- Review and rank project proposals for the study of structure, function and anthropogenic impacts on the Norwegian ecosystem; acquiring knowledge on biodiversity; marine eutrophication; toxic algal blooms; responsible fishing technology; measures of environmental quality; and method, models and technology used to view the marine ecosystem in an overall perspective.

2008 Appointed to Chair of an Expert Panel for Fisheries Research Services, (FRS-Marine Lab) Aberdeen Scotland

- Charting the long term research plans of Scottish Government

Marine Directorate Fisheries Research Services Research Group on Survey and Fishing Technology.

1990–2007, Research Scientist, Dept. of Fisheries and Oceans, St. John's, Newfoundland and Labrador

- Conducted stock assessment on commercial flatfish species and provided advice to senior management within DFO, the Northwest Atlantic Fisheries Organization (NAFO) and the fishing industry;
- Investigated performance, catchability and selectivity of survey and commercial fishing gears, and worked extensively with local fishing industry conducting joint resource surveys, fish ageing, and tagging studies.

2004-2007 Adjunct Professor Memorial University of Newfoundland.

- Collaborative research with university scientists on natural and trawl induced changes in marine fish behaviour using acoustics, underwater video and flume tank.

2002-2004, Chair of ICES Fisheries Technology Committee

- Oversaw and participated in the operations of 2 Working Groups and 3 Study Groups under ICES to address specific fishery and scientific issues; and
- Appointed member of 3 ICES Advisory Committees dealing with assessment of fisheries and the ecosystem.

Publications

Published 202 scientific, technical and working papers on biology and ecology of several marine fish species, fisheries stock assessment, statistics, fish behaviour and fishing gears.

Professional memberships

- Member of American Fisheries Society since 1990.
- Member of Editorial Board of Fisheries Research since 2003.
- Member of DFO Scientist Emeritus Program since 2008.

Contact Information

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Short List of Scientific Publications

Walsh, S.J., J.M. Diaz de Astarloa and J.J. Poos, 2014 (in press). Atlantic Flatfish Fisheries. *In* Flatfishes: Biology and Exploitation (R. N. Gibson ed.) Blackwell Publishing, UK. 2nd edition.

Walsh, S.J., and P.D. Winger 2011. Bottom Seining in Canada, 1948-2010: Its Development, Fisheries and Ecosystem Impacts. *Can. Tech. Rep. Fish. Aquat. Sci.* 2922: xi + 147 pp.

Brodie, W. B., **S. J. Walsh**, and D. Maddock Parsons 2010. An evaluation of the collapse and recovery of the yellowtail flounder (*Limanda ferruginea*) stock on the Grand Bank. *ICES Journal of Marine Science*, 67: 000–000

Cowen, L., **S. J. Walsh**, C. J. Schwarz, N. Cadigan, and J. Morgan 2009. Estimating exploitation rates of migrating yellowtail flounder (*Limanda ferruginea*) using multistate mark–recapture methods incorporating tag loss and variable reporting rates. *Can. J. Fish. Aquat. Sci.* 66: 1245–

Dawe, E.G., **S. J. Walsh**, and E. M Hynick 2010. Capture efficiency of a multi-species survey trawl for Snow Crab (*Chionoecetes opilio*) in the Newfoundland region. *Fisheries Research* 101:70-79.

Glass, C.W, **S.J. Walsh**, B van Marlen and T. Amaratunga [Eds]. 2007 Fishing Technology in the 21st century: integrating fishing and ecosystem conservation. *ICES Journal of Marine Science* Vol. 64: 117 pp

McQuinn, I.H., Y. Simard, T.W.F. Stroud, J.L. Beaulieu, and **S.J. Walsh** 2005. An adaptive integrated acoustic trawl survey on Atlantic cod with estimation on the acoustic and trawl dead zones. *ICES J. Mar. Sci.* 62(1):93-106

Winger, P.D., **Walsh, S. J.**, He, P., Brown, J.A. 2004. Simulating trawl herding in flatfish: the role of fish length in behaviour and swimming characteristics. *ICES J. Mar. Sci.* 61: 1179-1185.

Walsh, S.J. and M.J. Morgan 2004. Observations of natural behaviour of yellowtail flounder derived from data storage tags. *ICES J. Mar. Sci.* 61: 1151-1156.

Walsh, S.J. and O.R. Godø 2003. Quantitative analysis of fish reaction to towed fishing gears – What responses are important? *Fish Res.* 63:289-292.