

Richard E. Thomson Ph.D., FRSC, FAGU

Education

B.Sc. 1967. Mathematics and Physics, University of British Columbia (First Class Honors)

Ph.D. 1971. Physics and Oceanography, University of British Columbia (Distinction)

Expertise

- Coastal and deep ocean circulation dynamics
 - Fisheries oceanography
 - Mid-ocean ridge hydrothermal venting processes
 - Seismic and landslide-generated tsunamis
 - Bioacoustical measurements and techniques
 - Ocean ecosystem dynamics and variability
 - Operational oceanography/storm surge dynamics
 - Oceans on icy satellites
 - Paleoclimate from varved anoxic sediments
 - Data analysis methods & books
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Work Experience

1971-present	Research Scientist, Department of Fisheries and Oceans
1991-present	Head, Ocean Dynamics Section (IOS). Promoted to top scientist level in 1991.
2009	Elected Fellow of the American Geophysical Union
1995	Elected Fellow of the Royal Society of Canada
1999-present	Adjunct Professor, University of Victoria, Victoria, British Columbia
1989-present	Adjunct Professor, University of British Columbia, Vancouver, BC
1986-2001	Adjunct Graduate Faculty, Oregon State University, Corvallis, Oregon
1984-1995	Adjunct Associate Professor, State University of New York, Stony Brook
1989	Visiting Professor, Mathematics, University of New South Wales, Sydney, Aust.
1982	Visiting Scientist, Australian Institute of Marine Sciences, Townsville
1974	Visiting Lecturer, Mathematics, Monash University, Melbourne, Australia.

International Appointments & Service (selected)

- Member, *U.S. RIDGE-2000* Steering Committee (Chair: C. Fisher, Penn. State Univ.); 2000-2005.
 - Member, *U.S. ORION* Steering Committee (Chair: M. Tivey, Woods Hole); 2002-2005.
 - Member, *U.S. RIDGE* Steering Committee (Chair: R. Detrick, Woods Hole); 1990-1995.
 - Chair, Physical and Chemical Oceanography Break-out Group, North Pacific Marine Science Organization (PICES) meeting in Honolulu (March 7-9, 2001).
 - Member, *US NEPTUNE* Planning Groups (1999-2000).
 - Member and Co-Chair of five (5) *U.S. RIDGE Working Groups* (1987-1999).
 - Co-Editor, AGU Geophysical Monograph Series Volume on "Physical, Chemical, Biological and Geological Interactions with Hydrothermal Systems"; 1994-1995.
 - Chair, *Sea Level Group*, Committee for Climate Changes & the Ocean (CCCCO; Paris); 1988-1993.
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National Appointments & Service

- PI NEPTUNE Canada Tsunami Program and Endeavour Ridge Circulation Programs: 2007-

- Member, DFO NCR *Research Community Advisory and Promotion Committees* (RCAC): 2005-
- Member, NEPTUNE Canada and VENUS cabled observatory committees: 1998-
- 1st Chair, PSARC *Fisheries Oceanography Working Group* (FOWG): 1998-2001
- Operating Grant Committee (09), Natural Sciences & Engineering Research Council (NSERC), Ottawa: 1989-1992; Chair of the Committee in 1992.
- Advisor to Sport Canada, *Canadian Olympic Sailing Team* (1996 Summer Olympics in Savannah)
- Chair, *Marine Monitoring Advisory Group*, Victoria Capital Regional District (1995-2000).

Prizes and Awards

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| • Fellow of the American Geophysical Union (Washington, DC) | 2009 |
| • Timothy R. Parsons Medal, DFO (Ottawa) | 2009 |
| • Prix d'Excellence, DFO (Ottawa) for Sumatra Tsunami Research | 2005 |
| • Prix d'Excellence, DFO (Ottawa) for MPA Vents Research | 2005 |
| • Distinction Award, DFO Oceans & Habitat ADM (Ottawa) | 2005 |
| • Tully Medal, Canadian Meteorological and Oceanographic Society (Ottawa) | 2003 |
| • R.E. Forester Award for outstanding scientific publication (Ottawa) | 2001 |
| • Canada 125 Award, Director General, Pacific Region (Vancouver) | 1994 |
| • Prize in Applied Oceanography, CMOS | 1990 |
| • Fellow of the Royal Society of Canada (F.R.S.C.), Academy of Sciences | 1995 |
| • Deputy Minister's Commendation, DFO (Ottawa) | 1991 |
| • American Geophysical Union (AGU) 1988 Editor's Citation for Excellence 1989
in Refereeing JGR-Oceans (Washington, DC) | |
| • Distinguished Technical Communication Award (Toronto) | 1983 |
| • Merit Award, Department of Fisheries and Oceans (Ottawa) | 1982 |

Professional Societies

American Geophysical Union (AGU); American Association for the Advancement of Science (AAAS)
Canadian Meteorological and Oceanographic Society (CMOS); Royal Society of Canada

Publications

Primary Journal Publications.....	180	Chapters in Books.....	8
Books.....	3	Other publications.....	125+
National and International Patents	6		

Invited Lectures (selected 1999-2009)

- Invited talk: ADM Annual Lecture, Ottawa, October 2009.
- Invited talk: Majorca, Spain, June 2008.
- Invited talk: *PICES Climate Meeting*, Gijon, Spain, May 2008.
- Invited talk: *Pacific Seabird Group Annual Meeting*, Blaine Washington, February 2008.
- Invited Colloquium: *Physics and Astronomy Department*, University of Victoria, January 2007.
- Invited Tutorial: *American Society for Limnology and Oceanography* Annual Congress, June 2006.
- Discovery Channel TV Interview. The Sumatra Tsunami Anniversary Special, 26 December 2005.
- Plenary talk: *Canadian Meteorological and Oceanographic Society* Annual Congress, June 2005.
- Plenary talk: 2005 Puget Sound Georgia Basin Research Conference (declined).
- Invited talk: *Canadian Meteorological and Oceanographic Society* Annual Congress June 2004.
- Invited talk (with Audrey Dallimore) at the *2004 Fall AGU Meeting*. San Francisco.
- Invited talk, Ocean Science Meeting, Portland, Oregon. January 2004.
- Invited talk, *AAAS 2004 Annual Meeting*, February 15, 2004, Seattle, Washington.

- CBC Radio Interview for “Oceans Explorations: Learning from the Ocean” with Paul Kennedy.
- RIDGE 2K Meeting, “MPA, VENUS and NEPTUNE Canada” Oct, 28-30, 2002, New York.
- Invited Lecture, NSF RIDGE ISS Community Education Workshop, February 2002, Long Beach CA.
- Invited Union Lecture, American Geophysical Union (AGU) Fall Meeting: Dec. 2001, San Francisco.
- NASA, invited lecture, Lunar & Planetary Science Meeting XXXII, Houston Texas, March 15, 2001.
- PICES, invited talk at the *Iron Fertilization Workshop* in Tsukuba, Japan, October 2000.
- Invited talk, *Inter. Union of Geodesy and Geophysics (IUGG '99)*, Birmingham, England, August 1999.

Training of Highly Qualified Personnel (2000-2010)

MSc.: Spear, Krassovski, Skvortsov, and Skinner, Espinosa. University of Victoria.

Ph.D.: Colbo, Mihaly, and Bograd. University of BC and Victoria

Post Doctoral: Thomas (England), Burd (U Vic), Mihaly (UBC), and Dallimore (Carelton).