

Curriculum Vitae

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Richard Kelvin Dewey

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1 Biographical

Born: 1 September, 1960: Medicine Hat, Alberta, Canada
Citizenship: Canadian
Married: Tamar Paula Dewey
Children: Maura Claire Dewey and Adriane Maris Dewey

2 Educational

1978-83: University of Victoria, Victoria, B.C.
B.Sc. Honours Physics (Co-op)
Graduated May 1983

1983-87: University of British Columbia, Vancouver, B.C.
Ph.D. in Oceanography (Nov 1987)
Thesis: Turbulent Dissipation Over the Continental Shelf.

3 References

- 1) Dr. Verena Tunnicliffe VENUS and School of Earth and Ocean Sciences, U. of Victoria
(250) 721-7135 (verenat@uvic.ca)
- 2) Dr. Eric Kunze Department of Physics and SEOS, U. of Victoria,
(250) 721-4482 (Ph) (kunze@uvic.ca)
- 3) Dr. Chris Garrett Department of Physics, U. of Victoria, PO Box 1700, Victoria, BC
(250) 721-7702 (Ph) -7715 (Fax) (garrett@uvphys.phys.uvic.ca)
- 4) Dr. Rolf Lueck School of Earth and Ocean Sciences, UVic,
(250) 721-8918 (rlueck@uvic.ca)
- 5) Dr. Parker MacCready Oceanography, University of Washington, Seattle WA 98195-5351
(206) 685-9588 (parker@ocean.washington.edu)

4 Professional Positions

- 2003-: Associate Director, Research: VENUS Project, University of Victoria, Victoria, B.C.
- 1999-: Associate Professor, Adjunct Term Limited (1999-2008), School of Earth and Ocean Sciences, University of Victoria, BC
- 1995-03: University of Victoria, Center for Earth and Ocean Research (250) 472-4013
Senior Research Associate/CEOR and Sessional Lecturer/SEOS
Ocean Theory Group (C.Garrett) and Acoustical Oceanography Group (D.Farmer)
- 1990-95: SAIC, Bellevue WA 98005, (425) 485-5800
Program Manager/Research Oceanographer/Principal Investigator
Technical Director Environmental Studies and Energy Modelling.
- 1987-90: College of Oceanography, O.S.U., Corvallis, OR 97331-5503
Research Associate (Post-Doc with Dr. Jim Moum)
Coastal Transition Zone Experiment, Microstructure, Mixing and Filament Dynamics
- 1986-87: Department of Oceanography, U.B.C., Vancouver, B.C. (LeBlond/Crawford)
Teaching Assistant/Lab Instructor: Oceanography 308 and Physics 110.
- 1984-87: University of British Columbia (TA) and Institute of Ocean Sciences
Fisheries and Oceans Science Subvention Grant
Supervisors: Dr.W.R.Crawford (IOS) and Dr.P.H.LeBlond (UBC)
- 1983: Institute of Ocean Sciences, Supervisor, Dr. A.F.Bennett (presently at O.S.U.)
Array design for ocean tidal inverse modeling.
- 1979-83: As part of Co-operative Education (UVIC Physics)
1) Sept.-Dec., 1979: B.C. Computer Systems Corp., Victoria, B.C.
2) May - Aug., 1980: B.C. Forest Services, Victoria, B.C.
3) Jan.- Apr., 1981: B.C. Hydro R&D Labs, Surrey, B.C.
4) Sept.-Dec., 1981: National Research Council, Ottawa, Ont.
5) May - Aug., 1982: Petro Canada R&D Labs, Calgary, Alta.

5.1 Current Research Interests

- 1) Cabled, ocean observatories, networked instruments, and real-time monitoring the coastal ocean environment, web-based research and analytical tools.
- 2) Experimental coastal and estuary circulations, interfacial mixing, momentum and buoyancy fluxes. Application of ADCP/moored apparatus for processes studies and regional oceanography.
- 3) Oceanic circulation, carbon cycle, and dispersion modeling using, finite difference, kinematic and stochastic simulation techniques. 4) Marine and arctic environmental monitoring, resource management, and the assessment of physical, chemical and biological impacts introduced by anthropogenic activities.
- 5) Meso- and finescale dynamics of oceanic fronts, with particular interest in the determination of systematic ageostrophic components in the momentum dynamics and variations in vorticity.
- 6) Mixing and energy dissipation near coastal fronts, jets, squirts, meanders and boundary layers.

5.2 Research Grants and Contracts (PI and co-PI)

1987-1991	ONR	- Coastal Transition Zone: Microstructure Studies
1990-1993	BP Oil	- Endicott Environmental Monitoring, Prudhoe Bay, Alaska
1992-1994	BP Oil	- Niakuk Marine Assessment Studies, Prudhoe Bay, Alaska
1993-1994	Westward Seafoods	- Circulation Studies, Captains Bay, Unalaska Island
1993-1996	ONR	- Arctic Slope Exchange Processes
1997	NSERC	- Equipment Grant: Thermistor Chain Mooring Sensors
1999	NSERC	- Equipment Grant: Vertical Beam Acoustic Doppler Current Profiler
1998-2002	NSERC	- Ship Time Grant: Coastal Studies of BC Straits
1998-2005	ONR	- Ocean Physics (with C. Garrett and E. Kunze)
2003-2007	CFI/BCKDF	- Victoria Experimental Network Under the Sea (VENUS) Installation
2007-2009	NSERC/MRS	- VENUS Operating

6.1 Teaching Experience

2001-05 U.Vic	- Term Limited Associate Professor (EOS 110, EOS340 Summer)
2000-01 U.Vic	- Sessional Lecturer (Earth Systems I, EOS 110, Fall 2000)
	- Sessional Lecturer (Earth Systems I, EOS 110, Spring 2001)
	- Substitute Lecturer (Physical Oceanography, 431/531)
1999-00 U.Vic	- Sessional Lecturer (Fluid Mechanics, Physics 426)
	- Sessional Lecturer (Earth Systems I, EOS 110, Fall 1999)
	- Sessional Lecturer (Earth Systems I, EOS 110, Spring 1999)
	- Substitute Lecturer (Physical Oceanography, 431/531)
1998-99 U.Vic	- Sessional Lecturer (Atmospheric Sciences, EOS 340)
	- Substitute Lecturer (Physical Oceanography, 431/531)
1996-97 U.Vic	- Sessional Lecturer (Introductory Physical Oceanography EOS 431/531)
	- Sessional Lecturer (Time Series Analysis EOS 560)
	- Sessional Lecturer (Introductory Earth and Ocean Science EOS 100)
1995-96 U.Vic.	- Sessional Lecturer, (Waves EOS 530 [2 weeks], Introductory Physical Oceanography EOS 531 [2 weeks], Time Series Analysis 560 [3 weeks])
1983-86 U.B.C.	- Physics Lab Instructor (Phys 110, 115, and 210)
	- Oceanography Teaching Assistant (310, 502)

6.2 Graduate Student Supervision

Active

UVic SEOS	Shani Rousseau	M.Sc. (2009)	Co-Supervision
UVic SEOS	Jeannette Bedard	M.Sc. (2010)	Co-Supervision

Graduated

UVic Physics:	Tetjana Ross	Ph.D. 2003	Co-Supervision
UVic SEOS:	Ian Beveridge	Ph.D. 2006	Co-Supervision/Committee
	Steve Stringer	M.Sc. 2003	Co-Supervision/Committee
	Keir Colbo	Ph.D. 2003	Co-Supervision/Committee
	Paul Macoun	M.Sc. 2002	Committee
	Michael Ott	Ph.D. 2001	Co-Supervision/Committee
	Elina Tragau	Ph.D. 1998	Co-Supervision
UVic GEOG:	Brian Kopach	M.Sc. 2003	Committee
U.F.Tokyo	Daisuke Hasagawa	M.Sc. 2001	Co-Supervision

7 Reviewed Publications

2009

Dewey, R., Deep water renewal in in-land basins of southern Vancouver Island., in preparation for *Atmosphere-Ocean*.

Dewey, R. and Y. Kitade, Internal tides in Juan de Fuca Strait: Observations and model simulations., in preparation for *J. Phys. Oceanogr.*

Stringer, S., R. Dewey, Flow parameters from different ADCP beam configurations, in preparation for *J. Atmos. & Ocean Tech.*

2007

Dewey, R., Round, A., Macoun, P., Vervynck, J., and Tunncliffe, V. 2007. The VENUS Cabled Observatory: Engineering Meets Science on the Seafloor. IEEE Oceans 07 Conference, Vancouver BC.

Lemon, D., Chave, R., Clarke, M., Dewey, R., Macoun, P. 2007. Inverted Echo Sounder on a Cabled Observatory. IEEE Oceans 07 Conference, Vancouver BC

2006

Kunze, E. J.F.Dower, I. Beveridge, R. Dewey, and K. Bartlett, Observations of Biologically Generated Turbulence in a Coastal Inlet, *Science*, **313**, 1768-1770

2005

Martin, W., P.MacCready, and R. Dewey, Boundary layer forcing of a semidiurnal cross-channel seiche, *J. Phys. Oceanogr.*, **35**(9), 1518-1537.

Dewey, R., D. Richmond, and C. Garrett, Stratified tidal Flow Over a Bump, *J. Phys. Oceanogr.*, **35**(10), 1911-1927.

2003

Dewey, R. K. and Tunncliffe, V. 2003. **VENUS: Future Science on a Coastal Mid-Depth Observatory**. Proc. 3rd Intl. Workshop of Scientific Use of Submarine Cables and Related Technologies, pp. 232-233.

Tunncliffe, V., R.Dewey, and D.Smith, Research plans for a mid-depth cabled seafloor observatory in Western Canada, *Oceanography*, **16**(4), 53-59.

2002

Ott, M., R.Dewey, C.Garrett, Reynolds stresses and secondary circulation in a stratified rotating shear flow, *J. Phys. Oceanogr*, Vol **32**, 3249-3268.

2001

Stansfield, K., C. Garrett, and R. Dewey, The Probability of Thorpe Displacement within Overturns in Juan de Fuca Strait, *J. Phys. Oceanogr.*, Vol **31**, 3421-3434.

Dewey, R.K., and G. Stegen, Efficiency of Sequestering CO₂ in the Ocean, DOE/NETL Conference on Carbon Sequestration Science, 5/22-24/2001.

2000

Dewey, R. and G. Stegen, Ocean dispersion of CO₂ from a moving ship source., *Greenhouse Gas Control Technologies - 5*, Eds. D.Williams, B.Durie, P.McMullan, C.Paulson, and A.Smith, CSIRO Press., pp 457-462.

1999

Dewey, R., Mooring Design & Dynamics: A Matlab package for designing and analyzing oceanographic moorings, *Marine Models Online*, Vol **1**, 103-157.

Dewey, R., R. Muench, and J. Gunn, Mixing and vertical heat flux estimates in the Arctic Eurasian Basin., *J. of Marine Systems*, Vol **21**, pp 199-205.

1998

Dewey, R. and G.Stegen, The dispersion of CO₂ in the ocean: Consequences of basin-scale variations in turbulence levels., *Greenhouse Gas Control Technologies - 4*, Eds. P.Riemer, B.Eliasson and A.Wokaun, Elsevier Sciences Ltd., pp 299-304

1997

- Ye, Z., E.Hoskinson, R.Dewey, L.Ding, D.Farmer, A novel method for acoustic scattering by slender bodies: I Theory and verification., *J. Acoust. Soc. Am.* 102: 1964-1976 (1997)
- Morehead, M.D., R.D. Muench, R.Bacastow, and R.K. Dewey, 1997, Potential radionuclide transport pathways from seafloor dumsites: Kamchatka region of the North Pacific ocean., *Marine Pollution Bulletin*, **35**(7-12), 353-364.
- Dewey, R.K., G.R.Stegen, and R.B.Bacastow, Far-Field Impacts Associated with Ocean Disposal of CO₂., *Energy Convers. Mgmt.*, Vol **38**, pp S349-S354.
- Bacastow, R.B., R.K. Dewey, and G.R. Stegen, Effectiveness of CO₂ sequestration in the pre-and post-industrial oceans., *Waste Management*, **17**, 317-322.
- 1996**
- Bacastow, R. and R.Dewey, Effectiveness of CO₂ sequestration in the post-industrial ocean., *Energy Convers. Mgmt.*, Vol **37**, 1079-1086.
- Muench, R., R.K.Dewey, and U.Schauer, Internal waves and vertical mixing over the Laptev Sea slope., proceedings of the ACSYS Conference on the Dynamics of the Arctic Climate System., Ed. P.Lemke, L.Anderson, R.Barry and V.Vuglinsky, WMO/TD-No.760
- 1995**
- Bacastow, R.B., K.H.Cole, R.K.Dewey, and G.R.Stegen, Effectiveness of CO₂ sequestration in the oceans considering location and depth., *Energy Convers. Mgmt.*, Vol **36**, 555-558.
- Dewey, R.K., and G.Stegen, A 3-dimensional ocean plume model using stochastic dispersion., *Computational Fluid Dynamics*, Eds. Paul A. Thibault and Denis M. Bergeron, **2**, pp 113-118.
- 1993**
- Dewey, R.K., J.N.Moum, and D.R.Caldwell, 1993: Microstructure Activity within a mini-filament in the coastal transition zone., *J. Geophys. Res.*, **98**, 14,457-14,470.
- 1991**
- Dewey, R.K., J.N.Moum, C.A.Paulson, D.R.Caldwell and S.D.Pierce, 1991: Structure and dynamics of a coastal filament., *J. Geophys. Res.*, **96**, 14,885-14,907.
- Strub, P.T., P.M. Kosro, A. Huyer, K.H. Brink, T.L. Hayward, P.P. Niiler, C. James, R.K. Dewey, L.J. Walstad, F. Chavez AND OTHERS, 1991: The nature of the cold filaments in the California current system, *J. Geophys. Res.*, **96**(8) 14743-14768.
- 1990**
- Crawford, W.R. and R.K.Dewey, 1990: Confidence limits for friction velocity determined from turbulence profiles in coastal waters., *J. Atmos. and Oceanic Tech.*, **7**(1), 50-57.
- Dewey, R.K. and J.N.Moum, 1990. Enhancement of fronts by vertical mixing., *J. Geophys. Res.*, **95**, 9433-9446.
- 1989**
- Crawford, W.R. and R.K.Dewey, 1989: Turbulence and mixing: Sources of nutrients on the Vancouver Island continental shelf., *Atmosphere-Oceans*, **27**(2), 428-442.
- 1988**
- Dewey, R.K. and W.R.Crawford, 1988: Bottom stress estimates from vertical dissipation rate profiles on the continental shelf., *J. Phys. Oceanog.*, **18**(8), 1167-1177.
- Dewey, R.K., P.H.LeBlond and W.R. Crawford, 1988: The turbulent bottom boundary layer and its influence on local dynamics over the continental shelf., *Dynamics of Atmosphere and Oceans*, **12**(2),143-172.
- 1987**
- Dewey, R.K., 1987: Turbulent energy dissipation over the continental shelf., Ph.D. thesis, University of British Columbia, Canada, 205pp.
- Dewey, R.K., W.R.Crawford, A.E.Gargett and N.S.Oakey, 1987:A microstructure instrument for profiling oceanic turbulence in coastal bottom boundary layers., *J. of Atmospheric and Oceanic Technology*, **4**(2), 287-297.

7a) Unreviewed Publications and Reports:**1997**

Dewey, R.K., Z.Ye, L.Ding, E.Hoskinson, and D.Farmer, Further Evaluations of Acoustic Scintillation as a Means of Monitoring Salmon Migration: 1996 Modelling and Laboratory Measurements., A report prepared for the Pacific Biological Station (Nanaimo BC), Ed. R.K.Dewey, Institute of Ocean Sciences, Sidney, BC.

1996

Dewey, R.K., Z.Ye, D.Lemon, M.Trevorrow, and D.Farmer, Evaluation of Forward Scatter Acoustic Scintillation As a Means of Monitoring Salmon Migration: 1995., A report prepared for the Pacific Biological Station (Nanaimo BC) and the Pacific Salmon Commission (Vancouver BC), Ed. R.K.Dewey, Institute of Ocean Sciences, Sidney, BC.

Dewey, R.K., G.R. Stegen, and R.B. Bacastow, Far-Field Environmental Impacts Associated with Ocean Disposal of CO₂., Chapter 5, Vol 2, *Environmental Impacts of Ocean Disposal of CO₂*, Eds E.E.Adams and H.J.Herzog, US Department of Energy, DOE-MIT-EL 96-003.

1994

Science Applications International Corp., Ocean Disposal of CO₂, EPRI 1994 Final Report, Prepared by Science Applications International Corp., Bellevue WA, for the Electric Power Research Institute, California.

Dewey, R.K., R.Palm, M.Horgan, and G.R.Stegen, 1994: Hood Canal Acoustic Propagation Experiment., prepared by SAIC for Sanyo Techno Marine and the Tokyo Electric Power Company, Tokyo, Japan, February, 1994.

Science Applications International Corp., Deep Sea Disposal of CO₂, TEPCo 1993 Report, Prepared by Science Applications International Corp., Bellevue WA, for the Tokyo electric Power Company, Tokyo, Japan.

Dewey, R.K., G.R.Stegen, and T.Ueki, 1994: Coastal Tomography: Remote Environmental Sensing using Acoustic Methods, Proceedings of 1994 Joint U.S./Japanese Conf. on Marine Eng.,

1993

Science Applications International Corp., 1993: Sub-grid Scale Dispersion Model Users Manual., prepared for Tokyo Electric Power Company, Tokyo, Japan.

Science Applications International Corp., Deep Sea Disposal of CO₂, TEPCo 1992 Report, Prepared by Science Applications International Corp., Bellevue WA, for the Tokyo electric Power Company, Tokyo, Japan.

Horgan, H.S., M.D.Morehead, and R.K.Dewey, 1993: The 1991 Niakuk Environmental Monitoring Program Final Report., Prepared by Science Applications International Corp., Bellevue WA, for British Petroleum exploration, Anchorage AK.

Dewey, R.K., 1993: A Global Carbon Cycle Model for Ocean/Atmosphere CO₂ Prediction., prepared by SAIC, for the Central Research Institute of electric Power Industry, Japan.

1992

Horgan, M.S., M.D.Morehead and R.K.Dewey, 1992: *In* The 1991 Endicott Development Fish Monitoring Program, Volume V: Oceanography., Prepared by Science Applications international Corp., for British petroleum Exploration, Anchorage, AK.

Dewey, R.K., M.S. Horgan, M.D. Morehead and C.Greengrove, 1992: The 1990 Integration and Assessment Report, Endicott Environmental Monitoring Program, Prepared by Science Applications International Corp., Bellevue, WA, for British Petroleum Exploration, Anchorage, AK.

Greengrove, C., G.D.Pollard, and R.K.Dewey, 1992: Endicott Oceanography Re-analysis Report, prepared by Science Applications International Corp., Bellevue, WA and Anchorage, AK for British Petroleum exploration, Anchorage AK.

1991

Dewey, R.K., M.Horgan, M.D.Morehead, P.Hamilton, G.Davis, G.Parker, T.Petrillo, S.G. Atwater,

- B. Walter, D. Bjerklie, B. E. Lawhead and R. M. Burgess, 1991: 1990 Integration and Assessment, Endicott Environmental Monitoring Program, Eds. R. K. Dewey and C. Osborn, SAIC, Bellevue WA, for the U.S. Army Corps of Engineers, Alaska District, Anchorage AK
- Hamilton, P, 1991: 1990 Circulation Modeling Report, Endicott Environmental Monitoring Program, Ed. R. K. Dewey, SAIC, Bellevue WA, for the U.S. Army Corps of Engineers, Alaska District, Anchorage AK
- Dewey, R. K., M. D. Morehead and C. Wilson, 1991: 1990 Breaches Report, Endicott Environmental Monitoring Program, Ed. J. D. Miller, SAIC, Anchorage AK, for the U.S. Army Corps of Engineers, Alaska District, Anchorage AK
- Horgan, M, G. Davis and S. G. Atwater, 1991: 1990 Final Report, Niakuk Environmental Monitoring Program, Eds. R. K. Dewey and C. Osborn, SAIC, Bellevue WA, for the U.S. Army Corps of Engineers, Alaska District, Anchorage AK
- David Bjerklie, 1991: 1990 River Discharge Report, Endicott Environmental Monitoring Program, Eds. J. D. Miller and R. K. Dewey, SAIC, Anchorage AK and Bellevue WA, for the U.S. Army Corps of Engineers, Alaska District, Anchorage AK
- Morehead, M. D., R. K. Dewey, and M. S. Horgan, 1991: 1990 Oceanography Report, Endicott Environmental Monitoring Program, Eds. C. Osborn and R. D. Muench, SAIC, Bellevue WA, for the U.S. Army Corps of Engineers, Alaska District, Anchorage AK
- Dewey, R. K., M. D. Morehead, P. Hamilton, G. Davis, G. Parker, S. G. Atwater, B. Walter, D. Bjerklie, B. E. Lawhead and R. M. Burgess, 1991: 1989 Integration and Assessment, Endicott Environmental Monitoring Program, Eds. C. Osborn and R. K. Dewey, SAIC, Bellevue WA, for the U.S. Army Corps of Engineers, Alaska District, Anchorage AK
- Morehead, M. D., R. K. Dewey, P. Hamilton, G. Davis, G. Parker, S. G. Atwater, B. Walter, D. Bjerklie, B. E. Lawhead and R. M. Burgess, 1991: 1988 Integration and Assessment, Endicott Environmental Monitoring Program, Eds. R. K. Dewey and C. Osborn, SAIC, Bellevue WA, for the U.S. Army Corps of Engineers, Alaska District, Anchorage AK
- Dewey, R. K. and M. D. Morehead, 1991: 1989 Breaches Report, Endicott Environmental Monitoring Program, Eds. D. Johnson and J. D. Miller, SAIC, Bellevue WA and Anchorage AK, for the U.S. Army Corps of Engineers, Alaska District, Anchorage AK

1990

- Hamilton, P, 1990: 1989 Circulation Modeling Report, Endicott Environmental Monitoring Program, Ed. R. K. Dewey, SAIC, Bellevue WA and Anchorage AK, for the U.S. Army Corps of Engineers, Alaska District, Anchorage AK
- Davis, G, R. K. Dewey and G. Parker, 1990: 1989 Sedimentation and Erosion Report, Endicott Environmental Monitoring Program, Eds. R. K. Dewey, R. D. Muench and J. D. Miller, SAIC, Bellevue WA and Anchorage AK, for the U.S. Army Corps of Engineers, Alaska District, Anchorage AK
- Morehead, M. D., R. K. Dewey, M. S. Horgan, J. J. Gunn, G. D. Pollard and C. B. Wilson, 1990: 1989 Oceanography Report, Endicott Environmental Monitoring Program, Eds. D. Johnson and J. D. Miller, SAIC, Bellevue WA and Anchorage AK, for the U.S. Army Corps of Engineers, Alaska District, Anchorage AK
- Davis, G and G. Parker, 1990: 1988 Sedimentation and Erosion Report, Endicott Environmental Monitoring Program, Eds. R. K. Dewey, R. D. Muench and J. D. Miller, SAIC, Bellevue WA and Anchorage AK, for the U.S. Army Corps of Engineers, Alaska District, Anchorage AK
- Dewey, R. K. and M. D. Morehead, 1990: 1988 Breaches Report, Endicott Environmental Monitoring Program, Eds. D. Johnson and J. D. Miller, SAIC, Bellevue WA and Anchorage AK, for the U.S. Army Corps of Engineers, Alaska District, Anchorage AK
- Morehead, M. D., R. K. Dewey, J. J. Gunn, G. D. Pollard and C. B. Wilson, 1990: 1988 Revised Oceanography Report, Endicott Environmental Monitoring Program, Eds. D. D. Pollard and J. D. Miller, SAIC, Bellevue WA and Anchorage AK, for the U.S. Army Corps of Engineers, Alaska District, Anchorage AK

1988

Dewey, R.K., J.N.Moum, D.R.Caldwell, T.C.Sullivan, J.T.Baer, R.D.Kreth and M.D. Neeley - Brown, 1988: Coastal transition zone experiment-1988 Rapid-Sampling Vertical Profiler Observations., College of Oceanography Data report 143, reference 88-8, 336 pp.

Dewey, R.K., 1988: The constant production-dissipation layer of the oceanic bottom boundary layer., Proceedings Volume Eighth Symposium on Turbulence and Diffusion, April 26-29, AMS, Boston MA, 151-154.

1987

Dewey, R.K., 1987: Processing and spectral analysis of 1983Hecate Strait microstructure profiles B07 to B19 inclusive., Contract Report DSS., FP941-6-0716/01-SB, 24 pp.

8 **Membership and Professional Societies**

- 1) Canadian Meteorological and Oceanographic Society
- 2) American Geophysical Union
- 3) The Oceanography Society
- 4) American Institute of Physics
- 5) President 2002-2004, Pacific Marine Technology Society

9 **Personal Interests**

Sailing, tennis, squash, badminton, skiing, hiking, camping, mountain biking, windsurfing, music, hi-fi stereo, meta-physics, computers, and wine.