

Dr. Tim Parsons

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CURRICULUM VITAE

Timothy R. Parsons

PRESENT LOCATION

Institute of Ocean Sciences, P.O. Box 6000, 9860 West Saanich Road, Sidney,
BC. V8L 4B2 Canada
Email: ParsonsT@pac.dfo-mpo.gc.ca
Fax: +1.250.363.6390

CURRENT POSITIONS

- ▶ Professor Emeritus, Dept. Earth and Ocean Sciences, University of British Columbia, Vancouver, B.C., Canada
- ▶ Honorary Research Scientist Emeritus, Institute of Ocean Sciences, Department of Fisheries and Oceans, Sidney, B.C., Canada

DEGREES

- ▶ B.Sc. McGill University, Montréal, Québec 1953
- ▶ M.Sc. McGill University, Montréal, Québec 1955
- ▶ Ph.D. McGill University, Montréal, Québec 1958

EMPLOYMENT RECORD

- ▶ Honorary Scientist Emeritus, Institute of Ocean Sciences, Sidney 1992-
- ▶ Professor Emeritus, Dept. Earth and Ocean Sciences, U.B.C. 1992-
- ▶ Department of Oceanography, University of British Columbia 1971-1992
- ▶ Fisheries Research Board of Canada (Nanaimo, B.C.) 1964-1971
- ▶ Office of Oceanography, Unesco, Paris 1962-1964
- ▶ Fisheries Research Board of Canada (Nanaimo, B.C.) 1958-1962

ELECTED POSITIONS

- ▶ President, American Society of Limnology and Oceanography, 1969-70
- ▶ President, International Association of Biological Oceanographers (ICSU) 1971-76

AWARDS

- ▶ Officer of the Order of Canada 2006
- ▶ The Timothy R. Parsons Medal (Fisheries and Oceans Canada) 2005
- ▶ Japan Prize (Science and Technology Foundation of Japan) 2001
- ▶ Murray Newman Award (Vancouver Aquarium) 1999
- ▶ Evelyn Hutchinson Medal 1993 (American Society of Limnology and Oceanography)
- ▶ J.P. Tully Medal for Oceanography 1990 (Canadian Society of Meteorology and Oceanography)
- ▶ Killam Research Prize 1990
- ▶ Oceanographic Society of Japan Prize 1988
- ▶ Senior Killam Fellowship 1986
- ▶ Fellow of the Royal Society of Canada 1979

HONORARY DOCTORATE DEGREES

- ▶ University of Victoria, Victoria, Canada 2007
- ▶ University of British Columbia, Vancouver, Canada 2002
- ▶ Tsukuba University, Tsukuba, Japan 2001
- ▶ University of Hokkaido, Sapporo, Japan 2001

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EDITORIAL POSTIONS

Previously served on the Editorial Boards of:

- ▶ *Limnology and Oceanography*
- ▶ *Marine Ecology*
- ▶ *Marine Biology*
- ▶ *La Mer*
- ▶ *Oceanus*
- ▶ *Journal of Experimental Ecology and Marine Biology*
- ▶ *Fisheries Oceanography* (Founding Editor)

CONSULTATIONS (partial listing)

- ▶ B.C. Energy Board: Down stream effects of the Aswan Dam
- ▶ Fisheries Research Board: Studies in biological oceanography
- ▶ Utah Mines Environmental Advisory Committee
- ▶ Strathcona/Comox Pollution Control Board hearings
- ▶ Professional Witness for the Federal Energy Board
- ▶ US Borax: Study on mine tailings disposal
- ▶ Alcan (Canada)
- ▶ Beak Consultants
- ▶ Seakem Co.
- ▶ Rescan Co.
- ▶ LGL Consultants
- ▶ FEARO Technical Expert on west coast offshore oil development
- ▶ Revenue Canada, Research Claims Review
- ▶ Unesco, Comar Program
- ▶ FORAC - Department of Fisheries and Oceans
- ▶ SCOR WG 85 on experimental ecosystems
- ▶ Department of Environment, Canada
- ▶ B.C. environmental study of Saanich Inlet
- ▶ Prince William Sound (Alaska), Oil Recovery Institute

PROGRAM REVIEWS

Visiting committee member to:

- ▶ Scripps Institution of Oceanography, La Jolla, California
- ▶ Woods Hole Oceanographic Institution, Woods Hole, Massachusetts
- ▶ Ocean Research Institute, Tokyo
- ▶ Dalhousie University, Dept. of Oceanography, Halifax, Canada
- ▶ University of Concepcion, Chile
- ▶ Pertanian University, Malaysia

Committee member:

- ▶ IBP Steering Committee (Canada)
- ▶ NRC Awards, Ottawa
- ▶ IDRC, Bureau of Oceanography, PRC Program development, Xiamen and Beijing.
- ▶ Chairman, NSERC Scholarship Committee
- ▶ Chairman, NSERC Population Awards Committee
- ▶ Atlantic Provinces Inter-University Committee on Sciences
- ▶ Science Council of British Columbia, Aquatic Sciences Subcommittee
- ▶ Advisor, Assoc. of Primary Production and Recruitment in Subarctic Ecosystems
- ▶ Fisheries and Oceans Research Advisory Council (FORAC) to the Minister of Fisheries
- ▶ JGOFS (Canada) Review Committee
- ▶ GLOBEC (Canada) Review Committee
- ▶ PICES Oceanographic Committee

VISITING PROFESSOR

- ▶ University of Kiel, Germany
- ▶ University of Hamburg, Germany
- ▶ University of Tsukuba, Japan (Distinguished Visiting Scholar)
- ▶ University of Sun-Yat-Sen, Taiwan
- ▶ University of Washington, Seattle, U.S.
- ▶ Plymouth Marine Laboratory, U.K.
- ▶ University of Qingdao, People's Republic of China
- ▶ University of New South Wales, Australia
- ▶ University of Concepcion, Chile

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PUBLICATIONS RECORD

PUBLICATIONS RECORD (SUMMARY)

Over 150 primary publications in oceanography, fisheries and pollution research.

Some selected publications in aquatic science

Parsons, T.R., K. Stephens and J.D.H. Strickland. 1961 On the chemical composition of eleven species of marine phytoplankton. *J. Fish. Res. Bd. Canada*, 18: 1001-1016.

Parsons, T.R. and J.D.H. Strickland. 1962 On the production of particulate organic carbon by heterotrophic processes in sea water. *Deep-sea Res.* 8: 211-222.

Parsons, T.R., R.J. LeBrasseur and J.D. Fulton. 1967 Some observations on the dependence of zooplankton on the cell size and concentration of phytoplankton blooms. *J. Oceanogr. Soc. Japan.* 23: 10-17.

Sheldon, R.W. and T.R. Parsons. 1967. A continuous size spectrum for particulate matter in the sea. *J. Fish. Res. Bd. Canada.* 24: 909-915.

Parsons, T.R. 1969 The use of particle size spectra in determining the structure of a plankton community. *J. Oceanogr. Soc. Japan.* 24: 172-181.

Parsons, T.R. 1970. Plankton, pollution and fish in the Strait of Georgia. *Western Fisheries.*, 80: 18-22.

Parsons, T.R. and G.C. Anderson. 1970. Large scale studies of primary production in the North Pacific Ocean. *Deep-Sea Res.* 17: 765-776.

Parsons, T.R. and M. Takahashi. 1973. Environmental control of phytoplankton cell size. *Limnol. Oceanogr.* 18: 511-515.

Parsons, T.R., P.J. Harrison and R. Waters. 1978 An experimental simulation of changes in diatom and flagellate blooms. *J. Exp. Mar. Biol. Ecol.* 37: 285-294.

- Parsons, T.R. 1979. Some ecological, experimental and evolutionary aspects of upwelling ecosystems. *S. African J. Sci.* 75: 536-540.
- LeBrasseur, R.J., C.D. McAllister and T.R. Parsons. 1979. Additions of nutrients to a lake leads to greatly increased salmon catch. *Environ. Cons.* 6: 187-190.
- Parsons, T.R., L.J. Albright, F. Whitney, P.J. Leb. Williams and C.S. Wong. 1981 The effect of glucose on the productivity of sea water: An experimental approach using controlled aquatic ecosystems. *Mar. Environ. Res.* 4.: 229-242.
- Parsons, T.R., J. Stronach, G.A. Borstad, G. Louttit and R.I. Perry. 1981. Biological fronts in the Strait of Georgia, British Columbia, and their relation to recent measurements in primary productivity. *Mar. Ecol. Prog. Ser.* 6: 237-242.
- Mysak, L.A., W.W. Hsieh and T.R. Parsons. 1982. On the relationship between interannual baroclinic waves and fish populations in the northeast Pacific. *Biol. Oceanogr.* 2: 63-103.
- Parsons, T.R., R.I. Perry, E.D. Nubbrown, W. Hsieh and C.M. Lalli. 1983. Frontal zone analysis at the mouth of Saanich Inlet, British Columbia. *Mar. Biol.* 73: 1-5.
- Parsons, T.R., T.A. Kessler and Li Guanguo. 1986 An ecosystem model analysis of the effects of mine tailings on the euphotic zone of a pelagic ecosystem. *Acta. Ocean. Sinica.* 5: 425-436.
- Parsons, T.R. and T.A. Kessler. 1986. An ecosystem model for the assessment of plankton production in relation to the survival of young fish. *J. Plankton Res.* 9: 125-137.
- Parsons, T.R. 1988. Trophodynamic phasing in theoretical, experimental and natural ecosystems. *J. Oceanogr. Soc. Japan.* 44: 94-101
- Parsons, T.R. 1988. Fisheries Oceanography. In: Ocean and Coastal Zone Development. 5: 25-28 (in Chinese).
- Parsons, T.R. and C.M. Lalli. 1988. Comparative oceanic ecology of the plankton communities of the subarctic Atlantic and Pacific oceans. *Oceanogr. Mar. Biol. Annu. Rev.* 26: 317-359.
- Parsons, T.R., D.G. Webb, B.E. Robeby, M. Lawrence, B.E. Hopky and D.B. Chiperszak. 1989. Autotrophic and heterotrophic production in the Mackenzie River/Beaufort Sea estuary. *Polar Biol.* 9: 261-266.
- Parsons, T.R., B.E. Rokeby, C.M. Lalli and C.D. Levings. 1990 Experiments on the effects of salmon farm wastes on plankton ecology. *J. Plankton Soc. Japan.* 37: 49-57.

- Parsons, T.R. 1992 The removal of marine predators by fisheries and the impact on trophic structures. *Mar. Poll. Bull.* 25: 51-53.
- Parsons, T.R. and Y-L. Chen. 1994 Estimation of trophic efficiency, based on the size distribution of phytoplankton and fish in different environments. *Zool. Studies.* 33: 296-301.
- Parsons, T.R. and Y-L. Chen. 1995 Comparative ecology of a subarctic and tropical estuarine ecosystem as measured with carbon and nitrogen isotopes. *Est. Coast. Shelf Sci.* 41: 215-224.
- Parsons, T.R. 1996 The impact of industrial fisheries on the trophic structure of marine ecosystems. In: *Marine Food Webs- Integration of Patterns and Dynamics*. Ed: G.A. Polis and K.O. Winemiller. Publ. Chapman Hall (NY). p. 352-357.
- Parsons, T.R. 1996 Taking stock of fisheries management. *Fish. Oceanogr.* 5: 224-226.
- Ianson, D., S. Pond and T. Parsons. 2001 The spring phytoplankton bloom in coastal temperate ocean: Growth criteria and seeding from shallow embayments. *J. Oceanography.* 57: 723-734.
- Parsons, T.R. 2002 Future needs for biological oceanographic studies in the Pacific Ocean. *PICES Scientific Report*. No.22: 35-42.
- Parsons, T.R. and C.M. Lalli. 2003 Jellyfish population explosions: Revisiting a hypothesis of possible causes. *La Mer.* 40: 111-121.
- Boreo, F., J. Bouillon, C. Gravili, M.P. Miglietta, T. Parsons and S. Piriano. 2008. Gelatinous plankton: irregularities rule the world (sometimes). *Mar. Ecol. Prog. Ser.* 356: 299-310.

Textbooks

- Strickland, J.D.H. and T.R. Parsons. 1972. (2nd Edition) A practical handbook of sea-water analysis. *J. Fish. Res. Bd. Canada.* 167: 311 pp.
- Parsons, T.R., M. Takahashi and B. Hargrave. 1977. (3rd edition) *Biological Oceanographic Processes*. Publ. Pergamon Press (Oxford) 332 pp. (also available in Japanese and Russian).
- Parsons, T.R., Y.Maita and C.M. Lalli. 1984. A manual of biological and chemical methods for seawater analysis. Publ. Pergamon Press (Oxford) 173 pp. (also available in Chinese)
- Lalli, C.M. and T.R. Parsons 1996 *Biological Oceanography: An Introduction*. Publ. Butterworth/Heinemann, (Oxford) 406 pp. (also available in Japanese and Chinese)

P.J. Harrison and T.R. Parsons (Eds) 2001 Fisheries Oceanography: An integrative approach to fisheries ecology and management. Publ. Blackwell Sci. (Oxford) 346 pp.

Other selected publications

Parsons, T.R. 1972. Why does the West insist on exporting a socio-economic system? *Sci. Forum.* 29: 11-15.

Parsons, T.R. 1975. Biological Oceanography in Canada. A Perspective and Review. *J. Fish. Res. Bd. Canada.* 32: 2231-2283.

Parsons, T.R. and B. Harrison. 1981. Energy utilization and evolution. *J. Social. Biol. Structures.* 4: 1-5.

Parsons, T.R. 1985. Hypothesis testing and rigorous statistics as criteria for research proposals. *La Mer.* 23: 109-110.

Parsons, T.R. 1992. The role of environmental groups in the management of the marine habitat. *Proc. Adv. Mar. Tech. Conf.* (Tokyo, Japan) 5: 1-13

Parsons, T.R. and H. Seki. 1995. A historical perspective of biological studies in the ocean. *Aqua. Living Resources.* 8: 113-122.

Parsons, T.R. 2002. Dare to be Different. *Tsukuba J. Biol.* 1: 32-33.

Parsons, T.R. 2002-03. Oceanography in the Service of Fisheries. *J. Business Admin. and Policy Anal.* 30-31:223-237.

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