

Hazards only Personal Bibliography

Bichler, A., **Bobrowsky, P.T.**, Best, M., Douma, M., Hunter, J., Calvert, T. and Burns, R. (2004) The application of a multi-parameter geophysical survey to landslide characterization: a case study from Canada. *32nd International Geological Congress*, August 20-28, Florence, Italy.

Bichler, A., **Bobrowsky, P.**, Best, M., Douma, M., Hunter, J., Calvert, T. and Burns, R. (2004) Three-dimensional mapping of a landslide using a multi-geophysical approach: the Quesnel Forks landslide. *Landslides*, Vol. 1, No. 1, p. 29-40.

Bichler, A., VanDine, D. and **Bobrowsky, P.T.** (2004) Landslide Hazard and Risk Mapping – a Review and Classification. *Proceedings of the 57th Canadian Geotechnical Conference*, October 24-28, Quebec City, Canada.

Gutsell, J., Clague, J.J., Best, M.E., **Bobrowsky, P.T.** and Hutchinson, I. (2004) Architecture and Evolution of a Fjord-Head Delta, Western Vancouver Island, British Columbia. *Quaternary Science Reviews* (in press)

Bichler, A.J., **Bobrowsky, P.T.** and Best, M.E. (2003) Multi-parameter assessment of slope movements in glaciolacustrine sediments, Quesnel River Valley, British Columbia. *Geohazards 2003, 3rd Canadian Conference on Geotechnique and Natural Hazards, Edmonton, Alberta, Canada, Conference Proceedings*, p. 169-176.

Bichler, A.J., **Bobrowsky, P.T.**, Best, M.E., Douma, M., Hunter, J., Calvert, T. and Burns, R. (2003) A stratigraphic and multi-geophysical approach to landslide investigation: the Quesnel Forks landslide. *Geological Society of America, Abstracts with Program*, 35(6): 311-312.

Davis, J., Berg, T., Schuster, R., Highland, L., **Bobrowsky, P.** and Gori, P. (2003) Consensus strategies to acquire accurate landslide damage cost data and apply insights to mitigation. *Geological Society of America, Abstracts with Program*, 35(6): 107-108.

Bobrowsky, P.T. (editor) (2002) *Geoenvironmental Mapping: methods, theory and practice*. Swets and Zeitlinger Publishing, The Netherlands.

Bobrowsky, P.T. and Catto, N.R. (editors) (2002) Urban and Quaternary Geology of New Zealand and Eastern Australia. *Quaternary International*, No. 103.

Chung, J.C., **Bobrowsky, P.T.** and Guthrie, R. (2002) Quantitative prediction model for landslide hazard mapping, Tsitika and Schmidt Creek Watersheds, Northern Vancouver Island, British Columbia, Canada. In: *Geoenvironmental*

Mapping: methods, theory and practice, edited by P.T. Bobrowsky, p. 697-716. Swets and Zeitlinger Publishing, The Netherlands.

Bobrowsky, P.T. (2001) Tsunamis and ground subsidence on Canada's West Coast. *Geological Association of Canada-Mineralogical Association of Canada, Program with Abstracts*, 26, p. 15.

Bobrowsky, P., Brink, J. and Bichler, A. (2001) Landslides and Head-Smashed-In Buffalo Jump, Alberta, Canada (UNESCO World Heritage Site). In: *Landslide Risk Mitigation and Protection of Cultural and Natural Heritage*, edited by Kyoji Sassa, p. 85-94. Proceedings of UNESCO/IGCP Symposium, January 15-19, Tokyo, Japan.

Gutsell, J., Clague, J.J., **Bobrowsky, P.T.** and Hutchinson, I. (2001) Architecture, Stratigraphy and Sedimentology of a Fjord-head Delta, Zeballos, British Columbia. *Geological Society of America, Program with Abstracts*, 23(6): A454.

Bobrowsky, P.T., Brink, J. and Bichler, A.J. (2000) A case study in landslides and cultural heritage sites: the significance of Head-Smashed-In Buffalo Jump, Alberta, Canada. *Programs and Abstracts of the 31st Annual International Geological Congress*, August 6-17, Rio de Janeiro, Brazil.

Boxwell, J.E., Hutchinson, I., Clague, J.J., **Bobrowsky, P.T.** and Lopez, G. (2000) Diatom biostratigraphy as a tool to detect tsunamis in Kakawis Lake, Vancouver Island, Canada. *Geological Society of America - Cordilleran Section, 96th Annual Meeting*, Vancouver, British Columbia, Abstracts with Program, 32(6): A5

Catto, N.R., **Bobrowsky, P.T.** and Liverman, D.G.E. (editors) (2000) In Honorarium: Nat Rutter. *Quaternary International*, Volume 68/71.

Hutchinson, I., Clague, J.J., **Bobrowsky, P.T.** and Williams, H.F.L. (2000) Investigations of Cascadia paleoseismicity in southwestern BC and northern most Washington state. In: *Great Cascadia Earthquake Tricentennial*, compiled by J.J. Clague, B.F. Atwater, K. Wang, Y. Wang, and I. Wong, p. 61. Penrose Conference 2000, Oregon Dept. Geology and Mineral Industries, Special Paper 33.

Hutchinson, I., Guilbault, J-P, Clague, J.J. and **Bobrowsky, P.T.** (2000) Tsunamis and tectonic deformation at the northern Cascadia margin: a 3000-year record from Deserted Lake, Vancouver Island, British Columbia, Canada. *The Holocene* 10(4): 429-439.

Lopez, G.I. and **Bobrowsky, P.T.** (2000) Lacustrine evidence for seismic sea waves on the west coast of British Columbia, Canada. *Coasts at the Millennium*,

Proceedings of the 17th International Conference of The Coastal Society, p. 380-387, Portland, OR.

Bobrowsky, P.T., Clague, J.J., Hutchinson, I. and Lopez, G. (1999) Earthquake-induced land subsidence and sedimentation on the west coast of Canada. *XVth INQUA Congress. Abstracts* pages 25-26.

Clague, J.J. and **Bobrowsky, P.T.** (1999) The AD 1700 giant earthquake at the Cascadia subduction zone. *Geological Society of America, Cordillera Section Annual Meeting*, Berkeley, June 1-3, Abstracts with Program, 31(6): A45.

Clague, J.J. and **Bobrowsky, P.T.** (1999) The Geologic Signature of Great Earthquakes off Canada's West Coast. *Geoscience Canada*, 26(1): 1-17.

Clague, J.J., **Bobrowsky, P.T.** and Hutchinson, I. (1999) A review of geological records of large tsunamis at Vancouver Island, British Columbia and implications for hazard. *Quaternary Science Reviews* 19(9): 849-863.

Clague, J.J., **Bobrowsky, P.T.**, Hutchinson, I., Mathewes, R. and Guilbault, J.P. (1999) Geologic evidence for great earthquakes and their tsunamis along the west coast of North America. *XVth INQUA Congress. Abstracts* pages 41-42.

Hutchinson, I., **Bobrowsky, P.T.** and Clague, J.J. (1999) 3000 years of tectonics and tsunamis revealed in the sediments of lakes on the west coast of Vancouver, Island, British Columbia. *Geological Society of America, Cordillera Section Annual Meeting*, Berkeley, June 1-3, Abstracts with Program, 31(6): A64.

Hutchinson, I., **Bobrowsky, P.**, Clague, J. and Mathewes, R. (1999) Cascadia Paleotsunamis: reconstructing recurrence and runup from lake deposits on Vancouver Island. *Tsunami Society Symposium*, Honolulu, May 25-27, Abstracts.

Lopez, G.I., **Bobrowsky, P.T.**, Clague, J.J. and Hutchinson, I. (1999) The use of low-elevation lake core data as evidence of Late Holocene tsunamis. *Meeting of the Canadian Quaternary Association - Canadian Geomorphological Research Group*, Calgary, Alberta, Program and Abstracts, p. 42.

Lopez, G., **Bobrowsky, P.T.**, Clague, J.J. and Hutchinson, I. (1999) Tsunami Deposits in a Freshwater Lake: Kakawis Lake, B.C. *Proceedings of the 1999 Canadian Coastal Conference*, Royal Roads University, Volume 2, p. 943-944.

Blais-Stevens, A., Clague, J.J. and **Bobrowsky, P.T.** (1998) Holocene Sedimentation in Saanich Inlet, B.C.: Implications for Prehistoric Earthquake Activity. *Geological Association of Canada-Mineralogical Association of Canada, Program with Abstracts*, 18, p. A-10.

Bobrowsky, P.T. (1998) Vancouver to Alaska Coastal Geology. Tour 1, Technical Tour Guide Book, *8th International Association of Engineering Geology and the Environment*, September 21-25, 1998.

Bobrowsky, P.T., Chung, J.-C., Garson, D. and Guthrie, R. (1998) Quantitative Landslide Hazard Mapping on Northern Vancouver Island, BC, Canada. Proceedings of the *8th Congress of the International Association of Engineering Geology and the Environment*, edited by Moore, D.P. and Hungr, O., A.A. Balkema, Rotterdam, The Netherlands, p. 2031-2037.

Clague, J.J., **Bobrowsky, P.T.**, Hutchinson, I. and Mathewes, R. W. (1998) Geological evidence for past large earthquakes in southwest British Columbia. *Current Research*, Part E, Geological Survey of Canada, Paper 90-1E, p. 217-224.

Huntley, D.H., **Bobrowsky, P.T.**, Clague, J.J. and Bowman, C. (1998) Integrated geomorphic and limnologic study: Saanich Inlet watershed, Vancouver Island, British Columbia. *Geological Society of America, Program with Abstracts*, p. A136.

Blais, A., Clague, J.J., **Bobrowsky, P.T.** and Patterson, R.T. (1997) Paleoseismic evidence in late Holocene sediments, Saanich Inlet, B.C. *Canadian Journal of Earth Sciences*, 34, p. 1345-1357.

Bobrowsky, P.T. (1997) Conference Review: Pan Pacific '96 Hazards Conference and Trade Show. *Geoscience Canada*, 23, p. 158.

Bobrowsky, P.T., Evans, S.G., Clague, J.J., VanDine, D.F. and Hutchinson, J.N. (1997) GIS Landslide Hazard Mapping in South Central British Columbia, Canada. IAEG Congress, Athens, Greece. *Engineering Geology and the Environment* (Poster Presentation).

Chung, C.-J., **Bobrowsky, P.T.**, Guthrie, R. and van der Flier-Keller, E. (1997) Quantitative Predictive Models for Landslide Hazard Mapping, Northern Vancouver Island, British Columbia. *Geological Association of Canada-Mineralogical Association of Canada*, Program with Abstracts, A26-A27.

Hutchinson, I., **Bobrowsky, P.T.**, Clague, J.J. and Mathewes, R. (1997) Tsunami Runup and Recurrence as Recorded in Deposits of Nearshore Lakes on the Emerging West Coast of Vancouver Island, British Columbia. *Geological Association of Canada-Mineralogical Association of Canada*, Program with Abstracts, p. A-71 and 8th Biennial Meeting of the *Canadian Quaternary Association*, Program with Abstracts, p. 35.

Blais, A., Clague, J.J. and **Bobrowsky, P.T.** (1996) Paleoseismic evidence in late Holocene sediments, Saanich Inlet, British Columbia. *Abstracts for the Pan Pacific Hazards '96 Conference and Trade Show*, p. 33-34.

Bobrowsky, P.T. and Clague, J.J. (1996) Socio-economic effects of a great Cascadia earthquake. *Abstracts for the Pan Pacific Hazards '96 Conference and Trade Show*, p. 34-35.

Clague, J.J. and **Bobrowsky, P.T.** (1996) Liquefaction: Saanich Inlet. *Paleoseismology and Seismic Hazards, southwestern British Columbia*, compiled and edited by J.J. Clague, Geological Survey of Canada, Bulletin 494, p. 64-67.

Clague, J.J. and **Bobrowsky, P.T.** (1996) Tsunami. *Paleoseismology and Seismic Hazards, southwestern British Columbia*, compiled and edited by J.J. Clague, Geological Survey of Canada, Bulletin 494, p. 34-43.

Clague, J.J., **Bobrowsky, P.T.**, Guilbault, J-P. and Mathewes, R.W. (1996) Sea Level Change: Late Holocene sea level change, south-coastal British Columbia. *Paleoseismology and Seismic Hazards, southwestern British Columbia*, compiled and edited by J.J. Clague, Geological Survey of Canada, Bulletin 494, p. 20-34.

Hyndman, R.D., Rogers, G.C., Dragert, H., Wang, K., Clague, J.J., Adams, J. and **Bobrowsky, P.T.** (1996) Giant Earthquakes Beneath Canada's West Coast. *Geoscience Canada*, 23 (2), p. 63-72.

Atwater, B.F., Nelson, A.R., Clague, J.L., Carver, G.A., Yamagouchi, D.K., **Bobrowsky, P.T.**, Bourgeois, J., Darienzo, M.E., Grant, W.C., Hemphill-Haley, E., Kelsey, H.M., Jacoby, G.C., Nishenko, S.P., Palmer, S.P., Peterson, C.D. and Reinhart, M.A. (1995) Summary of Coastal Geologic Evidence for Past Great Earthquakes at the Cascadia Subduction Zone. *Earthquake Spectra*, 11 (1), 1-18.

Bobrowsky, P.T. and Clague, J.J. (1995) Quaternary Geology of Southern Vancouver Island. *Guidebook B-5 Geological Association of Canada-Mineralogical Association of Canada*, 59 p.

Clague, J.J. and **Bobrowsky, P.T.** (1995) Paleoseismicity of Western Vancouver Island, British Columbia. *Geological Association of Canada-Mineralogical Association of Canada*, Program with Abstracts, A-18.

Clague, J.J., **Bobrowsky, P.T.** and Hyndman, R.D. (1995) The Threat of a Great Earthquake in Southwestern British Columbia. *The BC Professional Engineer*, 46 (9), p. 4-8.

13 authors including **Bobrowsky, P.T.** (1995) Radiocarbon evidence for extensive plate- boundary rupture 300 years ago at the Cascadia subduction zone. *Nature*, 378, p. 371-374.

Clague, J.J. and **Bobrowsky, P.T.** (1994) Tsunami deposits beneath tidal marshes on Vancouver Island, British Columbia. *Geological Society of America, Bulletin*, 106 (10), 1293-1303.

Clague, J.J. and **Bobrowsky, P.T.** (1994) Evidence for a large earthquake and tsunami 100-400 years ago on western Vancouver Island, British Columbia. *Quaternary Research*, 41 (2), 176-184.

Clague, J.J., **Bobrowsky, P.T.** and Hamilton, T.S. (1994) A Sand Sheet Deposited by the 1964 Alaska Tsunami at Port Alberni, British Columbia. *Estuarine, Coastal and Shelf Science* 38, 413-421.

Hussain, N., Mustard, P.S., Struik, L.C., Luternauer, J.L., Matysek, P., Sibbick, S., **Bobrowsky, P.T.** and Noble, W.P. (1994) Results of a survey of clients for a proposed geoscience atlas of Georgia Basin, British Columbia. *Current Research*, 1994-E, Geological Survey of Canada, p. 65-75.

Bobrowsky, P.T., Clague, J.J. and Blais, A. (1993) Late Holocene earthquakes: the geological record from Saanich Inlet, southern Strait of Georgia. Proceedings of the *Conference on Large Earthquakes and Active Faults in the Puget Sound Region*, University of Washington, Seattle, May 13-14, 1993, Program and Abstracts.

Bobrowsky, P.T. and Levson, V. (1993) Expanding the use of B.C. surficial geology map information through applied derivative maps. Proceedings of the *Canadian Quaternary Association 1993 Biennial Meeting*, Program and Abstracts, p. A5.

Bobrowsky, P.T. and Liverman, D.G.E. (editors) (1993) Applied Quaternary Research. *Quaternary International*, Volume 20.

Bobrowsky, P.T. and others (1993) Marine Geological Studies of Coastal Areas, Saanich Inlet, p. G19-G22; Island View Beach Neotectonics Stop, p. G65-G67; Beacon Hill Sea Cliffs, p. G76-G80; Esquimalt Lagoon, p. G97-G98. *Applied Quaternary Research*, Program with Abstracts and Field Guide, CANQUA '93.

Clague, J.J. and **Bobrowsky, P.T.** (1993) Implications of a large thrust earthquake in British Columbia. *Canadian Quaternary Association 1993 Biennial Meeting*, Program and Abstracts, p. A9.

Hyndman, R.D., Dragert, H., Rogers, G.C., Wang, K., Clague, J.J. and **Bobrowsky, P.T.** (1993) Constraints on the potential megathrust rupture surface in the northern Cascadia subduction zone (abstract). *Canadian Geophysical Union*, Banff, Alberta, Poster No. 54.

Bobrowsky, P.T. (editor) (1992) Geologic Hazards in British Columbia, Proceedings, Geological Hazards '91 Workshop. *B.C. Ministry of Energy, Mines and Petroleum Resources*, Open File 1992-15.

Bobrowsky, P.T. and Clague, J.J. (1992) Neotectonic investigations on Vancouver Island (92B, F). *B.C. Ministry of Energy, Mines and Petroleum Resources, Geological Fieldwork, 1991*, Paper 1992-1, p. 325-329.

Bobrowsky, P.T., Clague, J.J. and Hamilton, T.S. (1992) ^{137}Cs dating of a tsunami deposit at Port Alberni, British Columbia: the first step towards establishing a chronology of Holocene great earthquakes in the North Pacific. *American Quaternary Association, Programs and Abstracts of the Twelfth Biennial Meeting*, p. 34.

Bobrowsky, P.T. and Smith, C.P. (1992) Quaternary studies in the Peace River District, 1990: Stratigraphy, mass movements and glaciation limits. *B.C. Ministry of Energy, Mines and Petroleum Resources, Geological Fieldwork, 1991*, Paper 1992-1, p. 363-374.

Clague, J.J. and **Bobrowsky, P.T.** (1992) New Evidence of Major Prehistoric Earthquakes in Southwestern British Columbia. *Technical Workshop on Fraser Delta Geo/Environmental Research Priorities*, Sponsored by the Geological Survey of Canada, Vancouver, BC, October 19, 1992, p. 3-4.

Bobrowsky, P.T. and Clague, J.J. (1991) Late glacial and post-glacial history of the Tofino area, British Columbia. *Canadian Quaternary Association 1991 Biennial Meeting, Program and Abstracts*, p. 16. (reprinted in *Atlantic Geology*, 27 (3), 232.

Bobrowsky, P.T. and Clague, J. J. (1991) Neotectonic Investigations on Western Vancouver Island, British Columbia (92 F/4). *B.C. Ministry of Energy, Mines and Petroleum Resources, Geological Fieldwork, 1990*, Paper 1991-1, p. 307-313.

Bobrowsky, P.T. and Clague, J.J. (1990) Holocene sediments from Saanich Inlet, British Columbia, and their neotectonic implications. *Current Research*, Part E, Geological Survey of Canada, Paper 90-1E, p. 251-256.

Bobrowsky, P.T. and Clague, J.J. (1990) Possible evidence for Holocene earthquakes in Saanich Inlet. *Seventh Cordilleran Geology and Exploration Roundup, Program and Abstracts*, February 6, p. 44-45. Also in *Canadian Quaternary Association/American Quaternary Association Joint Meeting, Program and Abstracts*, p. 14.

Clague, J.J. and **Bobrowsky, P.T.** (1990) Holocene sea level change and crustal deformation, southwestern British Columbia. *Current Research*, Part E, Geological Survey of Canada, Paper 90-1E, p. 245-250.

Bobrowsky, P.T. and Rogers, G.C. (1989) Prehistoric Earthquakes in Southwestern British Columbia. *The Midden*, 21 (3), 1-3.