

Robin Davidson-Arnott

Biography

Robin Davidson-Arnott is a coastal geomorphologist who has studied coasts and coastal processes for nearly 50 years. He grew up in Trinidad and came to university in Canada in 1966. He completed a Ph.D. in Geography at the University of Toronto in 1975 with a study of nearshore bar dynamics in Kouchibouguac National Park, New Brunswick. In 1976 he was appointed Assistant Professor in the Department of Geography, University of Guelph and made Full Professor in 1988. He retired in September 2009 and is now continuing research as Professor Emeritus. Robin has carried out research extensively in the Great Lakes and on the east coast of Canada as well as participating in field experiments in several other parts of the world. In addition to work on beach and nearshore sedimentation he has studied coastal salt marshes in the Bay of Fundy, erosion of cohesive coasts, particularly underwater erosion, beach/dune interaction and the dynamics of coastal sand dunes. He and several colleagues and graduate students are just winding up a ten year study at Greenwich Dunes, PEI National Park. During his time at Guelph he supervised 33 MSc. and 6 Ph.D. theses.

During his career Robin has been involved in applied aspects of his work in a variety of studies related to coastal zone management. In particular he has worked extensively in Ontario as a consultant or an advisor with Ontario Parks, a number of Conservation Authorities, and with the Ontario Ministry of Natural Resources. He was a member of the team that put together the Shoreline Management Policy and Technical Guidelines for Ontario Great Lakes and was seconded to MNR full time during 1992-93. He also served as a Canadian member of the Technical Working Group dealing with coastal processes on the International Joint Commission (Canada/USA) Great Lakes Water Levels Reference Study Phase 1, 1987-89. Recently he carried out a similar function on the Coastal Zone Technical Working Group of the IJC Upper Great Lakes Study, 2008-2011. In addition to consulting reports, he has published extensively in books and refereed journals and his book *Introduction to Coastal Processes and Geomorphology* was published by Cambridge University Press in 2010. A special issue of the journal *Earth Surface Processes and Landforms* with contributions from coastal scientists from around the world was published in Spring 2013 in recognition of his contribution to coastal geomorphology. In 2012 he was presented with the Annual Award for Distinguished Scholarly Contributions by the Canadian Association of Geographers.

Fiona Duckett, M.Sc., P.Eng.

Associate

Profile

Ms. Duckett has over 30 years of experience in coastal engineering internationally and on the Great Lakes. Throughout her career, she has gained experience on a wide range of multi-disciplinary projects with emphasis on coastal processes, water quality, coastal design and coastal zone management planning. Her experience includes project management, engineering design, public consultation, environmental assessment and oceanographic data collection.

Education

- B.Sc. Honours in Civil Engineering, Queen's University, Kingston, Ontario, 1982
 - M.Sc., Maritime Civil Engineering, University of Manchester, U.K., 1985
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Professional Affiliations

- Professional Engineers of Ontario
 - Ontario Society of Professional Engineers
 - Northwest Territories and Nunavut Association of Professional Engineers and Geoscientists
 - International Association of Great Lakes Research
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Selected Experience

- Ausable Bayfield Conservation Authority Shoreline Management Plan Update; ABCA
 - West Ipperwash Dynamic Beach Hazard Assessment; SCRCA
 - St. Clair Region Conservation Authority Lake Huron Shoreline Management Plan Update; SCRCA
 - Eastern Beaches Shoreline Management Plan; TRCA
 - Tiny Township Dynamic Beach Assessment; Municipality of Tiny Township
 - Whitesand First Nation Shoreline Stabilization; Ontario Power Generation
 - Oshawa Port Consolidation Project; Oshawa Port Authority
 - Ochiichagwe'babigo'ining Ojibway First Nation Assessment of Norman Dam Impacts on Erosion; INAC
 - Dingwall Breakwater Design; Public Works and Government Services Canada
 - Eastern Beaches EA and Final Design; City of Toronto
 - St. Clair River Investigation into Water Level Drop on Lake Michigan-Huron; Georgian Bay Association Foundation
 - Mississauga Waterfront Parks Strategy; City of Mississauga
 - Western Toronto Waterfront Masterplan; City of Toronto and planning Alliance
 - Harbourfront Centre Water's Edge Revitalization Project; Harbourfront Centre, Toronto,
 - HtO Urban Beach - Water's Edge Revitalization; City of Toronto
 - Ashbridges Bay Treatment Plant Outfall Final Design Receiving Water Assessment; City of Toronto
 - St. Clair Region Source Water Studies on Lake Huron and St. Clair River; SCRCA
 - Goderich Source Water Protection Studies; Town of Goderich
 - Expert Witness for OMB Hearings; Various Clients
 - Peer Reviews for Waterfront Development Applications; TRCA
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