

**BROCK UNIVERSITY – DEPT. OF EARTH SCIENCES**  
**M.Sc. Theses – chronological listing (page 1 of 7) 1975 - 2015**

- Laporte, J. The geology of Rankin Inlet Area, 1975.
- Winn, R. Postglacial paleoecology and effects of European settlement on the environment of Lake Hunger and Lake Lisgar, southwestern Ontario, 1975.
- Delaney, G. A reconnaissance study of the metamorphic petrology and volcanic geochemistry of a portion of the Island Lake Greenstone Belt, Manitoba, 1976.
- Woerns, N. Landscape geochemical investigations in the vicinity of a lead deposit at Snertingdal, southern Norway, 1976.
- Gombos, F. The role of vermiculite in the fixation of potassium in soils and the availability of potassium for vine nutrition in some Niagara vineyards, 1977.
- McAtee, C. Palynology and late-glacial and postglacial sediments in Georgian Bay, Ontario, as related to the Great Lakes history, 1977.
- Parkins, W. Onondaga Chert: geological and palynological studies as applied to archeology, 1977.
- Fisher, J. Textural characteristics of coarse sediments in selected streams of the Niagara Peninsula, Ontario, 1978.
- Ghorashi, M. Development of hypogene and supergene alteration and copper mineralisation. Patterns, Sar Cheshmeh Porphyry copper deposits, Iran, 1978.
- Mostaghel, M. Genesis and distribution of Mississippi Valley-type ore assemblages in Middle Silurian Strata, Niagara Peninsula, Ontario, 1978.
- Veska, E. A hypothesis for the geochemical anomaly in the North Creek Watershed, 1978.
- Winn, C. Vegetational history and geochronology of several sites in southwestern Ontario with discussion on Mastodon extinction in southern Ontario, 1978.
- Payne, C. Petrography, geochemistry and structure of the Timmins area, Ontario, 1979.
- Tabatabai, M. Petrography and geochemistry and structure of McArthur Township area, Ontario, 1979.

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- Wu, T.W. Structural, stratigraphic and geochemical studies of the Horwood Peninsula – Gander Bay Area, northeast Newfoundland, 1980.
- Bazinet, J. Geology of the Gander Group. Gander River Ultramafic Belt, and Davidsville Group in the Jonathan's Pond-Weir Pond Area, Northeast Newfoundland, 1981.
- Chen, C. An investigation of geological and geochemical characteristics late Quaternary sediments in the Georgian Bay Region, Southern Ontario, 1981.
- Dillon, D. Geology of the Sand Creek Porphyry Molybdenum Prospect, 1982.
- Otto-Flint, J. Sedimentology of the Sixteenth Mile Creek Lagoon, Niagara Peninsula, Ontario, 1983.
- Davison, J. Physical volcanology, sedimentology, stratigraphy and petrochemistry of the Berry Creek metavolcanics; and Archean cal-alkaline complex, Lake of the Woods, Ontario, 1984.
- Chaudrey, M. The effects of moisture, cation concentration, temperature, density and composition of soils on their electrical resistivity, 1984.
- Kresz, D. Evolution of an Archean greenstone belt in the stormy Lake-Kawashgamuk Lake area (Stratigraphy, structure and geochemistry), Western Wabigoon Subprovince, Northwest Ontario, 1984.
- Leyland, J. Quaternary geology of the Campbellford, Trenton, Consecon, Tweed, Belleville, Wellington, Sydenham, Bath, and Yorkshire Island map-areas, Ontario, 1984.
- Mihychuk, M. The surficial geology, sedimentology and geochemistry of the late glacial sediments and paleozoic bedrock in the Campbellford area, Ontario, with special reference to the Drummer Complex, 1984.
- Podolak, W. Drift dispersal in central Southern Ontario, 1984.
- Williams, B. An investigation of the application of  $^{29}\text{Si}$  magic angle spinning, nuclear magnetic resonance in geology, 1984.
- Barnesley, J. A sedimentological study of the glacial deposits, 1985.
- Maddalena, A. Armor coats, inverse grading, and streambed scour in selected streams of Southern Ontario and Western New York, 1985.

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- Pastirik, G. The sedimentology of unconsolidated deltaic and aeolian sediments east of Dunnville, Ontario, 1985.
- Buck, S. Structural studies and gabbro mylonitization within Barton Bay Deformation Zone, Geraldton, Ontario, 1986.
- Cumming, R. Petrography, petrochemistry and petrogenesis of Huronian volcanic rocks of the Elliot Lake Region of Ontario, 1986.
- Kester, S. Abrasion, transport and distribution of sediment in selected streams of Southern Ontario and Western New York, 1986.
- Morrison, J. Molluscan carbonate geochemistry and paleoceanography of the Late Cretaceous western interior seaway of North America, 1986.
- Wassenaar, L. Geochemical and paleoecological investigation of marine molluscs of late Pleistocene submergences, Ontario, Quebec and British Columbia, 1986.
- Lorek, E. Geochemistry and petrogenesis of the Proterozoic pater metavolcanic suite, Spragge, Ontario, 1987.
- Reilly, B. Structural analysis of the Paint Lake Deformation Zone, Northern Ontario, 1987.
- Soo, K. A geochemical and petrological study of volcanic rocks in the Beardmore/Geraldton Archaean Greenstone Belt, Northwestern Ontario, 1988.
- Bates, N.R. Biogeochemistry of Paleozoic Brachiopods from New York State and Ontario, 1989.
- McAllister, J.E. Microstructural and geochemical investigation of North American Lower-Middle Paleozoic trilobites and recent arthropods, 1989.
- Tremblay, J. Middle Ordovician (Whiterockian-Chazyan) Trilobites from the Sunblood Formation District of Mackenzie, 1990.
- Colquhoun, I. Paragenetic history of the Ordovician Trenton Group Carbonates, Southwestern Ontario, 1991.
- Amr, I.A. Microfacies analysis of the Lower Paleocene Beda Formation in Western Concession 59 and Block 59F, Sirte Basin, Libya, 1992.

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- Kimmerly, C. Geochemistry and petrogenesis of the McElroy and Larder Lake Assemblages, Abitibi Greenstone Belt, Northeastern Ontario, 1992.
- Redmond, D. Structural studies in the southern Province, south of Sudbury, Ontario, 1992.
- Melzak, A. Trilobites of the Upper Cambrian (Marjuman)Pika Formation of the southern Canadian Rocky Mountains, 1993.
- Dreger, D. Sedimentology and Micromorphology of Drumlin Sediments at Chimney Bluffs State Park, New York State, 1994.
- Gao, Y. Diagenesis and Geochemical Stratigraphy of Upper Pennsylvanian Madera Brachiopods, New Mexico, 1994.
- Paterson, J.T. The Sedimentology of the Bloomington Fan Complex: An Element of the Oak Ridges Moraine, 1994.
- Benincasa, T.J. Sedimentology and Stratigraphy of the Lower Silurian Grimsby Formation, in Subsurface Lake Erie and Southwestern Ontario, 1996.
- Campbell, I.T. Environmental Assessment and Biomonitoring of the Twelve Mile Creek Watershed, Niagara Peninsula, Ontario, 1996.
- Cuggy, M.B. Patterns of Faunal Change at an Upper Cambrian Trilobite Extinction Event, Nolichucky Formation, Tennessee and Virginia, 1996.
- Scriver, C. Geochemistry and mineralogical association of heavy metal contaminants in fine grained sediment, Welland River, Southern Ontario, 1996.
- McFarland, S. Sedimentology and taphonomy of storm-generated shell beds from the Verulam Formation (Ordovician), Lakefield and Gamebridge Quarries, Southern Ontario, Canada, 1997.
- Goodchild, S. Geological Image Processing of Petrographic Thin Sections Using the Rotating Polarizer Stage, 1998.
- Johnson, M.F. The Sedimentology of the Lower Silurian Whirlpool Sandstone, in Subsurface Lake Erie, Ontario, 1998.
- Gostlin, K.E. Continental margin architecture: the palynological signature of glacioeustasy, 1999.

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- Placko, J. Environmental Assessment of Lake Gibson Sediments, Water Quality, and Soils of the Niagara Region, 1999.
- Sarvis, A.P. Postglacial Water Levels in the Great Lakes Region in Relation to Holocene Climate Change: Thecamoebian and Palynological Evidence, 2000.
- Tiffin, S.H. Dinocyst biochronology and palynofacies – inferred systems tract character of Miocene sequences from the New Jersey Mid-Atlantic Transect (ODP Legs 174A and 174AX), 2001.
- Yazicioglu, M.B. Analytical Modelling of Bacterial Migration and Accumulation with Rate-Limited Sorption in Discrete Fractures, 2002.
- Findlay, D.J. Anomalous carbonate preservation in the abyssal North Pacific, ODP sites 882 and 1179: planktonic foraminiferal analysis, climate change and paleogeomagnetism, 2004.
- Little, M.L. Pollen and grain size records in abyssal sediments of the northwest Pacific Ocean as proxies of Plio-Pleistocene climate change, 2005.
- Smith, I.A. Hydraulic and Fluvial Geomorphological Models for a Bedrock Channel Reach of the Twenty Mile Creek, 2005.
- Taylor, J.M. The Micromorphology of Paleoseismic Soft Sediment Deformation Structures in Glacial Deposits from Three Sample Sites in Scotland, 2005.
- Van Riezen, R. Armourstone Revetments – will standard design criteria prevent failure?, 2005.
- Marsh, J. Regional variations of deformation mechanisms in the Lorrain Quartzite near Whitefish Falls, Ontario, Canada, 2008.
- Neville, L.A. Investigating the Potential of Thecamoebians (Testate Amoebae) as Bio-indicators of impact of Oil Sands Mining Operations on Freshwater Environments in Northeastern Alberta, Canada, 2009.
- Redwing-Shaw, V. Bioindication of Ozone Using Milkweed Plants in Southern Ontario, 2009.
- Barnard, M. Impact of Considering the Effects of Latent Heat on Caldera-Hosted Hydrothermal Systems, 2010.

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- Meyers, M.J. Flow Regime Prediction via Froude Number Calculation in a Rock-Bedded Stream, 2010.
- Racher, H. Structural Analysis of Interior layered Deposits in North and South Coprates Chasma, Mars, 2010.
- Sihra, K. Integrating vitrinite reflectance, Rock-Eval pyrolysis, fluorescence microscopy, and palynology of the Athabasca oil sands, Kearn Lake area, northeastern Alberta, 2010.
- Tulumello, P. The use of lichens as indicators of ambient air quality in southern Ontario, 2010.
- Fischer, E. Palynology and foraminiferal geochemistry of the Lower Pleistocene Olduvai Subchron (ca. 1.8 Ma) in DSDP Hole 603C Western North Atlantic, 2011.
- Birnie, C. Deformation of Interior Layered Deposits (ILD) and their Associated Landforms in West Candor Chasma, MARS: Implications for the Timing of ILD Deposition, 2012.
- Mandri, C.M. Determining rotational direction of rotation structures using prolate shaped grains within till, 2012.
- McMahon, M. Spectral Reflectance Characteristics of Kimberlite Indicator Minerals and Other Selected Mineral Grains, 2012.
- Arnold, H. Micromorphology of Last Glacial Maximum Grounding Line Sediments around the Antarctic Peninsula, 2012.
- Krueger, A. Freshwater dinoflagellates as proxies of cultural eutrophication: a case study from Crawford Lake, Ontario, 2012.
- Mantilla-Duran, F. Central North Atlantic Paleooceanography during the Middle Pleistocene (ca. 726–603 ka): Insights from the Dinoflagellate Cyst Record, 2013.
- Mahdaviourshari, M. Dinoflagellate Cysts from the Latest Miocene through Middle Pleistocene of the Caribbean Sea, ODP Site 1000: Biostratigraphy, Paleooceanography, and Shoaling of the Central American Seaway, 2014.
- Paez, M. The Cenozoic Gonyaulacacean Dinoflagellate Genera *Operculodinium* Wall, 1967 and *Protoceratium* Bergh, 1881 and their Phylogenetic Relationships, 2014.

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- Rice, J.M.            Glacial stratigraphy and micromorphology of the Pine Point Pb--Zn mining district, Northwest Territories, 2014.
- Volik, O.            Non-pollen Palynomorphs and Thecamoebians as Proxies of Environmental and Anthropogenic Change: a case study from Lake Simcoe, Ontario, Canada, 2014.
- Hore, A.            Structural analysis, layer thickness measurements and mineralogical investigation of the large interior layered deposit within ganges chasma, valles marineris, Mars, 2015.
- Minin, M.            Quantification and Extraction of Surface Features from Digital Terrain Models, 2015.
- Nikitczuk, M.        Investigating Microbial Trace-fossils and Abiotic Alteration in Hydrovolcanic Tuffs of the Fort Rock Volcanic Field, Oregon, 2015.
- Schmidt, Gene        Geology of Hebes Chasma, Valles Marineris, Mars, 2015.
- Wagner, K.           Ribbed Moraines and subglacial geomorphological signatures of interior-section palaeo-ice sheet dynamics, 2015.