

## Past Honours Thesis Titles in SEOS

### 2024

- ARNDT, Graham** (Supervisor – Dante Canil and Rebecca Morris)  
CO<sub>2</sub> degassing and metal enrichments during magma-carbonate interactions in the Jurassic Bonanza Arc
- BEALE, Susan** (Supervisor – Adam Monahan)  
A deep learning method to predict significant wave height
- DOUVILLE, Georgia** (Supervisors – Blake Dyer and Kim Poole)  
Geochemical analysis of mineral licks used by mountain goats (*Oreamnos americanus*) in Mount Revelstoke & Glacier National Parks
- HARDCASTLE, Noa** (Supervisor – Anne-Sofie Ahm)  
Evaporation and carbonate chemistry disequilibrium in alkaline lakes
- KUIJT, Anja** (Supervisor – Ruohong Jiao)  
Aridification of central Asia during the Late Cenozoic analyzed through oxygen and carbon isotopes
- MURRAY, Paige** (Supervisor – Dante Canil)  
Taking the temperature of the Anahim Hotspot, British Columbia
- PUSHKAREVA, Anastasiya** (Supervisors – Adam Coulter and Ruohong Jiao)  
Petrographic and geochemical analysis of the "Catch" Cu-Au discovery, south-central Yukon
- THOMPSON, Maya** (Supervisor – Anne-Sofie Ahm)  
Fluid and mineral carbonate biogeochemistry and microbial mats of Caribou Plateau alkaline lakes
- TUPPER, Brooklyn** (Supervisors – Dante Canil and Rebecca Morris)  
Clinopyroxene phenocrysts as a measure for arc magma-carbonate interaction timescales - the Jurassic Bonanza arc, Vancouver Island, Canada

### 2023

- BEAUPRÉ-OLSEN, Isabelle** (Supervisor – Laurence Coogan)  
Mineralogy of Fe-bearing hydrothermal plume particles at the Endeavour mid-ocean ridge
- FERRI, Matteo** (Supervisors – David Moynihan and Ruohong Jiao)  
Peak metamorphic temperature across the Big Salmon mountain range, south-central Yukon
- NICKOLOFF, Anna** (Supervisors – Andrew Weaver and Michael Eby)  
Oceanic response to implementation of widespread ocean thermal energy conversion
- OLIM, Sophia** (Supervisors – Andrew Weaver and Michael Eby)  
Ocean thermal energy conversion and direct air capture of carbon emissions
- REYDA-MOLNAR, Meghan** (Supervisor – Roberta Hamme)  
Investigating productivity in Saanich Inlet through the lens of the spring/neap tidal cycle
- ROZEN, Nimrod** (Supervisor – Diana Varela)  
Concentrations and distributions of phytoplankton-derived carbon gels in the north-east Pacific and Arctic Oceans
- RUSHTON, Taylor** (Supervisor – Roberta Hamme)  
Effects of hydrostatic pressure on RBRcoda<sup>3</sup> optical dissolved oxygen sensors
- STEPHENS, Matthew** (Supervisor – Jon Husson)  
The dolomite problem: exploring ways to measure the amount of dolomitization within carbonate sequences

**VALCOURT, Andrea** (Supervisors – Victoria Arbour and Andy Fraass)

Merycoidodon (susp.) skull, the first one ever found in BC

**YAMAMOTO, Savanna** (Supervisor – Lucinda Leonard and Mike Wei)

Mapping aquifers using electrical resistivity surveying on eastern Vancouver Island in the Beaufort Watershed

## 2022

**ANDREWS, Quinn** (Supervisors – Bill Halliday and Stan Dosso)

Song repertoire of bowhead whales in the eastern Beaufort Sea

**GEMMELL, Keighan** (Supervisors – Colin Goldblatt and Carsten Abraham)

The impact of the meridional temperature gradient on the spatial distribution of chemical weathering fluxes

**JOBIN, Malakai** (Supervisor – Jon Husson)

Using early diagenetic aragonite fans to investigate the global carbon cycle during the end Triassic mass extinction

**LANG, Kristyn** (Supervisors – Hansi Singh and Ariel Morrison)

*To be updated in Aug*

**MCLEOD, Eleanor** (Supervisor – Lucinda Leonard)

A fault in our backyard - using geophysics to investigate crustal fault activity on the Saanich Peninsula

**MURTONEN, Shannon** (Supervisor – Jon Husson)

Do carbon isotope excursions recorded in Ediacaran carbonates accurately reflect the global carbon cycle? Insights from the Canadian Rocky Mountains

**WALKER, Julia** (Supervisors – Ed Nissen and John Cassidy)

Forecasting earthquake aftershocks like weather: Is it possible?

## 2021

**DINGWALL, Jacob** (Supervisors – Bill Halliday and Stan Dosso)

Characterizing the environmental and anthropogenic drivers of underwater sound in the Amundsen Gulf

**DYCK, Brendan** (Supervisor – Adam Monahan)

The effect of climate change on the diurnal atmospheric tide

**GOERZEN, Chet** (Supervisors – Honn Kao and Lucinda Leonard)

Mud volcano imaging using ambient seismic noise

**JOBIN, Malakai** (Supervisor – Jon Husson)

Using early diagenetic aragonite fans to investigate the global carbon cycle during the end Triassic mass extinction

**KAMBUR, CateLee** (Supervisor – Ruohong Jiao)

Thermal history modeling of southern Vancouver Island using apatite fission-track data

**MCLEOD, Ellie** (Supervisor – Lucinda Leonard)

A fault in our backyard: Using geophysics to investigate crustal fault activity on the Saanich Peninsula

**PURDON, Cassandra** (Supervisor – Roberta Hamme)

Bubble dynamics in the Labrador Sea: Assessing accuracy of gas exchange parametrization through comparison with autonomous N<sub>2</sub> measurements

**SOETAERT, Grayson** (Supervisor – Roberta Hamme)

An examination of deep-water renewal events in Saanich Inlet, B.C.

## 2020

**DEKKER, Isaac** (Supervisor – Jon Husson)

High-resolution isotopic characterization of the Upper Miette Group (Byng Formation): Mt. Fitzwilliam, British Columbia

**KOCAY, Brandi** (Supervisor – Laurence Coogan)

Iodine in calcite as a tracer of the redox evolution during seawater-seafloor reaction

## 2019

**FITZ-GERALD, Wylee** (Supervisor – Roberta Hamme)

Dynamics of dissolved oxygen in the Labrador Sea as observed by robotic profiling floats

**FODE, Dominic** (Supervisor – Jon Husson)

Constructing a quantitative stratigraphic database: an investigation into the sedimentary rock record across Australia

**GRUNSKY, Anna** (Supervisor – Jon Husson)

Iodate concentrations of the Shuram excursion in the Wonoka Formation

**HOLMES-SMITH, Carmen** (Supervisor – Adam Monahan)

Seasonal climatology study of diurnal, semidiurnal, and terdiurnal components of atmospheric tide from reanalysis

**McDONALD, Victoria** (Supervisor – Colin Goldblatt)

Climate sensitivity dependence on background climate state

**SAVIDGE, Elena** (Supervisor – Ed Nissen)

Examining a magnitude 6.0 earthquake triplet in the Kerman region of Iran

**VANWIJEREN, Connor** (Supervisor – Jon Husson)

Characterizing the Triassic/Jurassic boundary through stratigraphy of northern Vancouver Island carbonates

## 2018

**GRUNDY, Ryan** (Supervisor – Dante Canil)

Melting and cooling of the mantle at oceanic spreading centers: an example from central British Columbia

**KAFRISSEN, Sile** (Supervisor – Diana Varela)

A high resolution study of primary productivity and nutrient dynamics in Saanich Inlet, a temperate fjord

**LOEWEN, Ada** (Supervisors – Johannes Gemmrich and Jody Klymak)

Observations of wave dispersion under sea ice in Antarctica

**PIMM, Forest** (Supervisor – Colin Goldblatt)

Archean Atmospheric Ammonia: exploring the  $\text{NH}_3$  contribution to early Earth warming

**SZABO, Justin** (Supervisor – Roberta Hamme)

Dissolved oxygen variability in NE Pacific coastal waters

## 2017

**BOZOIAN, Sarah** (Supervisor – Adam Monahan)

Periodic variability in land and sea breezes, as well as in atmospheric tides

**EVANS, Hilary** (Supervisors – Lucinda Leonard and Trevor Lewis)

Harnessing the heat of the Earth: reclaiming an old mine for new energy

**FINLEY, Theron** (Supervisors – Lucinda Leonard and Kristin Morell)

Bending the Olympic Orocline: a model for crustal fault activity in the Cascadia forearc

**HANNESON, Cedar** (Supervisors – Colin Goldblatt and Catherine Johnson)

The interplanetary magnetic field in the inner Heliosphere: dependence on heliospheric distance  
**OWEN, Erica** (Supervisors – Randy Enkin and Stan Dosso)  
Methods for testing the conductivity and chargeability of rocks  
**RAFTERY, Erinn** (Supervisor – Laurence Coogan)  
Developing a Rb/Sr technique to date celadonites, with applications to the oceanic potassium cycle

## 2016

**AKAM, Carlee** (Supervisor – Kristin Morell)  
Mapping the Carmanah Group across the western extent of the Leech River and San Juan faults  
**CARROLL, Simon** (Supervisor – Dante Canil)  
Clinopyroxene as a record of the composition and history of the Late Triassic Stuhini arc magmas, NW British Columbia  
**MALESKA, Sarah** (Supervisor – Adam Monahan)  
A characterization of the urban heat island effect in Victoria  
**PALMER, Samantha** (Supervisors – Stan Dosso and John Cassidy)  
Relocating earthquakes in the Juan de Fuca Strait and surrounding regions  
**PAUL, Collin** (Supervisors – John Cassidy and Stan Dosso)  
Rupture analysis of the April 24 2014 6.5 Mw offshore Vancouver Island earthquake  
**SMITHWICK, Brendan** (Supervisors – Gwyn Lintern and Lucinda Leonard)  
Piezometer deployment strategy for marine slope stability research in Kitimat Fjord, British Columbia  
**THOMAS, Alison** (Supervisor – Vera Pospelova)  
Reconstructing sea surface salinity change in the western North Pacific over the last ~ 18,000 years, using Operculodinium centrocarpum process  
**THORLAKSON, Maria** (Supervisors – Kristin Morell and Lucinda Leonard)  
Potentially active crustal fault strands in the Colwood Delta: geophysical and LiDAR investigation

## 2015

**CONLIN, Michael** (Supervisor – Kristin Morell)  
Landslides in the Olympic Mountains  
**DEWEY, Maura** (Supervisor – Colin Goldblatt)  
Quantification of the runaway greenhouse limit on Earth  
**MARTIN, Curtis** (Supervisor – Diana Varela)  
Nutrient transformations from surface to deep waters in Saanich Inlet, a highly productive fjord

## 2014

**AROELLA-JARVIE, Grace** (Supervisor – Vera Pospelova)  
Sediment trap study of dinoflagellate cyst production in Effingham Inlet (BC, Canada) and the impact of the 1999 La Nina event on phytoplankton  
**BEAUJOT, Francine** (Supervisors – John Volpe and Vera Pospelova)  
Colonization and succession of marine algae and barnacles on artificial substrate, in 2013 at Ogden Point, Victoria, Canada  
**DAVIDSON, Ashley** (Supervisor – Jay Cullen)  
Long-term analysis of dissolved trace Fe along the Line P transect  
**DONOVAN, Jinny** (Supervisors – Steve Rowllins and Dante Canil)  
A mineralogical and fluid inclusion study of hydrothermal quartz veins from the OK porphyry Copper-Molybdenum deposit, southern Coast Mountains, British Columbia, Canada

**FAJBER, Robert** (Supervisor – Adam Monahan)

A sequential unscented Kalman filter approach to dynamical sea surface wind modelling

**GOSSELIN, Jeremy** (Supervisors – Stan Dosso and John Cassidy)

Shear-wave velocity structure beneath Haida Gwaii from inversion of teleseismic data

**GRONDAHL, Carter** (Supervisor – Dante Canil)

Trace elements in magnetite from porphyry deposits: applications in mineral exploration

**LUO, Fei** (Supervisors – Adam Monahan and Knut von Salzen)

High precision estimation of modeled aerosol radiative forcing

**ZHANG, Wenbo** (Supervisor – Kristin Morell)

Testing the oroclinal hypothesis for the Olympic Mountains, Washington State, USA

## **2013**

**GRAHAM, Audrey** (Supervisor – Jan Dettmer and Stan Dosso)

Inference of shear-wave velocity structure for seismic hazard assessment

**JASECHKO, Glenn** (Supervisor – Jay Cullen)

Methods for the detection of silver nanoparticles

**KAVANAGH, Lucas** (Supervisor – Colin Goldblatt)

The use of lithified raindrop imprints in constraining past atmospheric density

**LUCK, Pearce** (Supervisor – Laurence Coogan)

Trace element evidence of a subduction initiation setting with variable melt conditions at the Troodos ophiolite, Cyprus

**McEWEN, Gerri** (Supervisor – Stephen Johnston)

Structural analysis of Harling Point, Victoria, BC

**QUINN, Kei** (Supervisors – Stephen Johnston and Charles Greig)

Geologic mapping at Bitterroot Resources' North Brenda property

**VANDEKERKHOVE, Shawn** (Supervisors – Stephen Rowins and Stephen Johnston)

Using mineral paragenesis, fluid inclusions and geochemistry to understand the Three Firs Cu-Au porphyry deposit

## **2012**

**CLARKE, Jordan** (Supervisors – Tom Pederson and Jordi Guimerà)

New approach to groundwater recharge modelling in the Andean high cordillera

**GIBSON, Rohanna** (Supervisor – Stephen Johnston)

Bedrock mapping and structural analysis of Killermun Lake region, southwest Yukon - mineral potential and tectonic significance

**HOWARTH, Lani** (Supervisors – Stephen Rowins and Dante Canil)

Petrochemistry and mineralogy of Archean plutonic rocks associated with the Troilus gold-copper deposit, Quebec, Canada

**MCMILLAN, Julia** (Supervisor – Vera Pospelova)

Dinoflagellate cysts in the Chukchi Sea during the Holocene: a pilot study

**STONE, Rebecca** (Supervisor – Dante Canil)

Design and application of an experimental bench top volcanic fumarole

**WENKER, Stefanie** (Supervisor – Stephen Johnston)

Large scale buckling: oroclines

## 2011

**AMBROSE, Tyler** (Supervisor – Stephen Johnston)

The composition of impurities in placer gold nuggets and the distribution of lode gold: elucidating the source of placer gold in the ATLIN placer camp

**HARRICHHAUSEN, Nicolas** (Supervisor – Stephen Johnston)

Structural geology of the SPN property: south central British Columbia

**KOESSLER, Matthew** (Supervisor – Ross Chapman)

In-situ estimation of the thermal properties of seafloor sediment in a gas hydrate field

**MOUNTJOY, Danielle** (Supervisor – Dante Canil)

Granitoid-hosted magnetite as an indicator mineral for porphyry Cu ore deposits

**RAHEMTULLA, Shehin** (Supervisor – Ross Chapman)

The acoustic tracking of marine mammals with the VENUS hydrophone array

**STAMMERS, Liana** (Supervisor – Kathy Gillis)

The partitioning of trace elements into epidote: tracing hydrothermal fluid composition at the East Pacific Rise hydrothermal systems

**ZYLA, TESS** (Supervisor – George Spence)

Tracking methane bubble plumes on the north Cascadia margin

## 2010

**BISHOP, Kyla** (Supervisor – Adam Monahan)

Empirical statistical downscaling of surface winds at Sand Heads, Strait of Georgia, British Columbia

**CLOUSTON, Ryan** (Supervisor – Jody Klymak)

Time-dependent sub-maximal exchange flows Over a sill

**LEROUX, Graham** (Supervisors – Stephen Johnston and James Logan)

Geological and structural relationships on the western margin of the Naver pluton, central British Columbia (NTS 093G/08)

**MANNING, Cara** (Supervisors – Roberta Hamme and Karen Casciotti)

Investigation of the nitrous oxide cycle within an anoxic coastal pond in Cape Cod, MA

**PRICE, Andrea** (Supervisor – Vera Pospelova)

A high-resolution sediment trap study of organic-walled dinoflagellate cyst production and biogenic silica flux in Saanich Inlet (BC, Canada)

## 2009

**ADAMS, Kyla** (Supervisor – Vera Pospelova)

Dinoflagellate stratigraphy of the Trent River Formation

**BEZZOLA, Martina** (Supervisor – Dante Canil)

A petrographic and geochemical study of mid Cretaceous and possible Tertiary intrusions in the southeastern Selwyn Basin, Yukon (NTS 95E)

**BRYAN, Michelle** (Supervisor – Laurence Coogan)

Experiments and empirical studies of the cooling rates of large lava flows

**BURNS, Michael** (Supervisor – Laurence Coogan)

Lithium in low temperature clays: in-situ analysis of the trace element distribution in alteration minerals from the Troodos ophiolite, Cyprus

**DOUGLAS, Lisa** (Supervisor – Michael Whitarcar)

Characterization of diesel releases using stable sulphur and carbon isotope ratios and molecular properties

**KENNEDY, Kirsten** (Supervisor – Vera Pospelova)

Copepod eggs: a discussion on morphology, abundance, and distribution in British Columbian marine sediments

**PATERSON, Brenna** (Supervisors – Eileen Van der Flier-Keller and Brian Bornhold)

Sensitivity of coastal areas to sea level change and erosion associated with predicted climate change: application of shorezone data in the Sitka Area, southeast Alaska

**PATERSON, Kevin** (Supervisors – Kevin Telmer and Ray Lett)

Lithogeochemical study of the Spanish Mountain gold deposit, British Columbia (NTS 093A/11W)

**SAWATZKY, Matt** (Supervisors – Stephen Johnston and Jack Stevens)

Structural controls on auriferous mineralization of the Aurbel zone, Val D'Or mining district, Abitibi, Quebec

**VAN DEN BERGHE, Martin** (Supervisor – Dante Canil)

A study of the West Coast Crystalline Complex in Victoria

## 2008

**DOYLE, Jessica** (Supervisor – Stephen Johnston)

The geology, geochemistry and structural geology of the Hope Bay Break: an analysis of the highly strained rocks exposed with the “krank” of the Koignuk River, Hope Bay Greenstone Belt, Nunavut

**STYAN, Jolene** (Supervisor – Dante Canil)

Constraints on the Jurassic Bonanza Island Arc crustal section using hornblende barometry: northern Vancouver Island

**WESTBERG, Eric** (Supervisor – Kevin Telmer)

Determining coastal aquifer parameters using pump tests and the tidal method

## 2007

**HORTON, Stephen** (Supervisors – Eileen Van der Flier-Keller and Jeff Bond)

The paleogeography of Glacial Lake Laberge, south Central Yukon Territory

**JONNES, Sheila** (Supervisors – Dirk Tempelman-Kluit and Stephen Johnston)

Bedrock geology and mineral potential of Mouse Mountain (NTS 093G/01), central British Columbia, Canada

**MACAULEY, Jennifer** (Supervisor – Stephen Johnston)

Structure and geology northeast of Bosk Lake, south-central British Columbia

## 2006

**BROWN, Kristina** (Supervisor – Jay Cullen)

Monitoring salmon aquaculture in BC and the role of sediment in the measurement of porewater free sulphide

**HUDSON, Benjamin** (Supervisor – Laurence Coogan)

Trace element geothermobarometry in the oceanic lithosphere: implications for the study of large-scale heat transfer in the Earth system

**LLOYD, Janis** (Supervisor – John Dower)

The influence of seamount effects and Haida eddies on the distribution of zooplankton at Bowie Seamount, northeast Pacific Ocean

## 2005

**BIANCO, Evan** (Supervisor – George Spence)

Seismic evidence for consolidation and fluid expulsion within the northern Cascadia accretionary prism

**CHARNELL, Courtney** (Supervisor – Dante Canil)

Origin, provenance and significance of diamond indicator minerals, Laberge Group, northwestern British Columbia

**JOHNSTON, Kendra** (Supervisor – Laurence Coogan)

Testing magma chamber models using textural analysis of gabbroic rocks from Hess Deep, eastern equatorial Pacific

**PERK, Neil** (Supervisor – Laurence Coogan)

Petrology and geochemistry of primitive gabbros from Pito Deep: implications for the formation of lower oceanic crust at fast-spreading mid-ocean ridges

**TURNER, Derek** (Supervisors – Laurence Coogan and Stephen Johnston)

Geochemical and petrological analysis of the Tally Ho shear zone and Takhini deformation zone, south central Yukon

**VINCENT, Jeremy** (Supervisor – Michael Whitticar)

Correlation of petroleum biomarkers using ion trap mass spectrometry

## **2004**

**ADKINS, Stuart** (Supervisor – Victor Levson)

Calibration of a mass wasting potential map: Vancouver Island, British Columbia

**CHURCH, Amber** (Supervisor – Kevin Telmer)

Mercury concentrations of the Mazama ash: implications for the atmospheric mercury budget

**KENNY, Sylvia** (Supervisors – Mike Wei and Kevin Telmer)

Factors related to variable well yield in a fractured metamorphic bedrock aquifer, District of Highlands, Vancouver Island, BC

**KUHN, Tyler** (Supervisor – Chris Barnes)

Early Late Ordovician conodonts from the Mithaka Formation, Georgina Basin, central Australia

**PEARSON, Justine** (Supervisor – Richard Hebda)

A quantitative palaeoclimate estimate from a Late Cretaceous leaf fossil assemblage of the Protection Formation, British Columbia and its relevance to the Baja BC model

**SACK, Patrick** (Supervisors – Mitch Mihalynuk and Stephen Johnston)

Gold cassiterite and composition of the placer gravels in the Feather Creek area: clues to a lode source near Atlin, B.C.

**STRUYK, Nicola** (Supervisor – Tom Pedersen)

Carbon and nitrogen isotopes: determining the existence of the 8200 year event in the northeast Pacific Ocean

**WIGHT, Kara** (Supervisor – Stephen Johnston)

Structural relationship between the Laberge Group and Sinwa Formation on Copper Island, southern Atlin Lake, NW British Columbia

## **2003**

**FERREIRA, Lee** (Supervisor – Kevin Telmer)

The groundwater of Saanich Peninsula, Vancouver Island, Canada: controls on hydrogeochemistry

**PETERS, Cheryl** (Supervisor – Kevin Telmer)

Mercury profiles in lake sediments: evidence for remobilization

**ROTELLA, Melissa** (Supervisor – Kathryn Gillis)

Fluid evolution at the magmatic-hydrothermal boundary: a case study from the Oman ophiolite using fluid inclusions

**SIMON, Karen** (Supervisor – George Spence)



Multichannel seismic processing and interpretation of seismic crustal structure in Georgia Basin

**SHAW, Alexandra** (Supervisor – Vaughn Barrie)

The Fraser Ridge: an outcropping Pleistocene high in the Fraser Delta

**WADA, Ikuko** (Supervisor – Kelin Wang)

Slab geometry, in-slab stress state, and bending of the Philippine Sea plate beneath southwest Japan

## 2002

**BLACK, Robin** (Supervisor – Stephen Johnston)

Geology and metamorphism of Cassiar terrane, Truitt Creek Map Sheet, 105 L1, south-central Yukon

**BOLTON, Amy** (Supervisors – Suzanne Paradis and Stephen Johnston)

Polymetallic volcanic-hosted evolution of southwestern Vancouver based on freshwater lake sediment records

**DELAHAYE, Emily** (Supervisors – George Spence, Taimi Mulder, and Mark Stasuik)

Single station detections for low-level seismicity in the Garibaldi volcanic belt, southwestern British Columbia

**FERGUSON, Paul** (Supervisor – Kevin Telmer)

Quantifying the magnitude and rate of carbon accumulation in eastern Canadian lake sediments through the Holocene

**HEFT, Kerri** (Supervisor – Kathryn Gillis)

The compositional variability of altered upper oceanic crust: insights from the Troodos ophiolite

**JORNA, Jessica** (Supervisors – Vaughn Barrie, Brian Bornhold and Eileen Van der Flier-Keller)

Offshore aggregate mining in the Prince Rupert region

**LARSON, Kyle** (Supervisors – Stephen Johnston and Randolph Enkin)

Solitary Mountain is not alone: paleomagnetic results from the Late Cretaceous Solitary Mountain volcanic suite, south-central Yukon.

**RUKS, Tyler** (Supervisor – Kathryn Gillis)

Hydrothermal and emplacement metamorphism within a Vancouver Island ophiolite: a fluid inclusion study of the Metchosin Igneous Complex

## 2001

**EVERS, Kevin** (Supervisor – Stephen Johnston)

An alpine peridotite in the Dawson Range, Yukon-Tanana Terrane, Yukon: petrology and geochemistry

**MADSEN, Julianne** (Supervisors – William LeBarge and Eileen Van der Flier-Keller)

The Quaternary history and placer deposits of Gladstone Creek, southwest Yukon

**PRESS, Roberta** (Supervisors – Kevin Telmer and Doug Bright)

An ICP-MS-based method for the determination of otolith microchemistry for climate impact studies

**WALKER, Lauren** (Supervisor – R. J. Hebda)

Late Pleistocene and Holocene vegetation, climate, sea level and fire history at Effingham Island Bog, Vancouver Island, British Columbia

**WATSON, Bryce** (Supervisor – Dave Lefebure)

The distribution, geology and origin of skarn alteration at Lewis Point, northern Vancouver Island, BC

## 2000

**BICHLER, Ahren Johannes** (Supervisors – Peter Bobrowsky and Stephen Johnston)

A review of coastal zone sciences: management and mapping

**CANHAM, Emma** (Supervisor – Stephen Johnston)

Stratigraphy, structure and lithogeochemistry of the Finlayson Arm region of the Pacific Rim terrane, Vancouver Island

**HUMPHRIES, Stefan** (Supervisor – Kevin Telmer)

The geochemical characterization of groundwater in the province of British Columbia, Canada

**JOHNSTONE, Sandra** (Supervisor – Stephen Johnston)

Lithology, structure and geochemistry of the southernmost Pacific Rim terrane, Victoria, British Columbia

**L'HEUREUX, Elizabeth** (Supervisor – Dante Canil)

Geochemical and petrological analysis of Simpson Peak batholith, NW British Columbia

**MILLIKEN, Sean** (Supervisor – Dante Canil)

Trace element geochemistry of garnets from the Cross Kimberlite

**MOHORUK, Carrie** (Supervisor – Kevin Telmer)

The trace and rare earth element geochemistry of well water from the Tapajos River Basin, Brazil

**PASS, Heidi E.** (Supervisors – Kevin Telmer and Stephen Cook)

Assessment of multi-element stream geochemistry as an exploration tool for volcanic massive sulfide deposits: Big Salmon Complex, northern British Columbia

**PERON, Tanya** (Supervisor – Kevin Telmer)

Toxic metals in the environment: geochemical analysis of lake sediments from Kejimikujik National Park, Nova Scotia

**REINECKE, Melanie** (Supervisors – Stephen Johnston and Maurice Colpron)

Meta-volcanic sequence from Little Salmon Range, Yukon-Tanana Terrane, central Yukon: stratigraphy, geochemistry and paleotectonic Setting

**TUTT, Daniel** (Supervisor – Suzanne Paradis)

Geology and geochemistry of the ACE Cu-Au-Ag-Zn-(Pb) Property, Barkerville subterranean, east central BC (09 3A/NW)

**WAHL, Kimberley** (Supervisors – Stephen Johnston and JoAnne Nelson)

Geochemical and petrographic comparison between Quesnellia and the Logjam project area, Northwestern British Columbia (NTS 1040/14W)

## 1999

**BARAZZUOL, Lisa** (Supervisor – Michael Whitticar)

Characterization by carbon isotopes of intracanopy CO<sub>2</sub> Flux and mixing in a mature Douglas-Fir forest

**BATEMAN, Daniel** (Supervisor – Eileen Van der Flier-Keller)

Anastomosing channel systems in west-central Alberta during the Mid-Cretaceous

**BOWMAN, Charlotte** (Supervisor – Peter Bobrowsky)

Late Pleistocene to Holocene evolution of southwestern Vancouver based on freshwater lake sediment records

**GLEESON, Tom** (Supervisors – Stephen Johnston and JoAnne Nelson)

Stratigraphy, structure, geochronology, and provenance of the Logjam area, northwestern British Columbia (NTS 1040/14W)

**HARTLEY, Alison** (Supervisor – Kathryn Gillis)

Hydrothermal and emplacement metamorphism of the Metchosin Igneous Complex, Vancouver Island, British Columbia

**NEVOKSHONOFF, Glen** (Supervisor – Dante Canil)

The petrology and geochemistry of the Metchosin Igneous Complex

**WATSON, Michelle** (Supervisor – Dante Canil)

Clinopyroxene dissolution: an experimental study with implications for kimberlite emplacement

## 1998

**CONEYS, Anna** (Supervisor – Jim Bishop)

The geochemistry of Vancouver Island natural waters. Case Study: Sooke Lake Reservoir

**HOBDAI, Jennifer** (Supervisor – Victor Levson)

Glacial dispersal curves: a method of mineral exploration in the Babine Copper Porphyry Belt, British Columbia

**MODELAND, Sheldon** (Supervisor – Dante Canil)

Geology of volcanic rocks on southern Vancouver Island

**ROBERTS, Michael** (Supervisor – Kathryn Gillis)

The role of magmatic fluids and phase separation at the sheet dike-plutonic transition: a fluid inclusion from the Troodos Ophiolite, Cyprus

**SINNETT, Geoff** (Supervisor – Mel Best)

Groundwater flow and contaminant transport modelling of the Burgoyne Bay septage facility Saltspring Island, British Columbia

**SKAPPAK, Stacia** (Supervisor – Michael Whitaric)

Petroleum potential of Lower Middle Devonian and pre-Devonian formations in northeastern British Columbia

**SPENCE, Joseph** (Supervisor – Kathryn Gillis)

The Wark-Colquitz Metamorphic Complex: magma injection, subsolidus differentiation or anatexis

**SULLIVAN, Corwin** (Supervisor – Chris Barnes)

Lower Ordovician (Arenig) conodonts from the Cow Head Group, western Brook Pond, Newfoundland

**TACKABERRY, Deanne** (Supervisors – Kathryn Gillis and Donald MacIntyre)

Petrography, lithogeochemistry, and VMS potential of mid-Cretaceous Rocky Ridge volcanics, Babine Lake area, central British Columbia

## 1997

**DE LEEUW, Stefan** (Supervisor – Jim Bishop)

Canadian joint global ocean flux study: particulate biogenic silica in the north Pacific

**LEDWON, Anastasia** (Supervisors – Peter Bobrowsky and Eileen Van der Flier-Keller)

Exploring lake sediment coring methodology: A case study of Deserted Lake, British Columbia

**LEONG, Peter** (Supervisor – Kathryn Gillis)

High level hydrothermal alteration associated with a felsic intrusive suite on the Eddon Plateau, northwestern British Columbia

**VON HAUFF, Heather** (Supervisor – Mel Best)

Ground water modelling of the White Rock Upland, Fraser Valley, B.C.

**WRIGHT, Donald** (Supervisor – Kathryn Gillis)

Metamorphic geology of the Kenny Creek Mount Olson area: implications for the relationship between the Sitlika assemblage and Cache Creek Group, central BC

## 1996

**WHITSETT, Jeff** (Supervisor – George Spence)

Seismic modelling of methane hydrates found in the northern Cascadia accretionary prism off Vancouver Island

**WIEBE, Edward** (Supervisors – Andrew Weaver and Gregory Flato)

The circulation of the Greenland Sea as obtained from hydrographic and ice drift data

## 1995

**JENNINGS, Barbara** (Supervisors – Paul Schiarizza and Eileen Van der Flier-Keller)

Sedimentology and stratigraphy of Callovian strata in the Mt. Nemaia Range, southeastern coast belt, southwestern British Columbia, and the implications of timing of terrane accretion.

**MANSON, Gavin** (Supervisors – Peter Bobrowsky and Eileen Van der Flier-Keller)

Modeling sand and gravel deposits and aggregate resource potential, Vancouver Island, B.C.