Past Honours Thesis Titles in SEOS

2024

ARNDT, Graham (Supervisor – Dante Canil and Rebecca Morris)

CO₂ 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 american) is 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 centr-Aenthacouston south

ne-Sofie Ahm)

hemistry and microbial mats of Caribou Plateau alkaline

nte Canil and Rebecca Morris)

sure for arc magma-carbonate interaction timescales - the

nd, Canada

2023

or – Laurence Coogan)

mal plume particles at the Endeavour mid-ocean ridge

Moynihan and Ruohong Jiao)

oss the Big Salmon mountain range, south-central Yukon

drew Weaver and Michael Eby)

n of widespread ocean thermal energy conversion

Weaver and Michael Eby)

nd direct air capture of carbon emissions

or – Roberta Hamme)

Inlet through the lens of the spring/neap tidal cycle

phytoplankton-derived carbon gels in the north-east Pacific

erta Hamme)

Varela)

Rcoda³ optical dissolved oxygen sensors

on Husson)

ys to measure the amount of dolomitization within

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

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

2019

FITZ-GERALD, Wylee (Supervisor - Roberj0.493g (r)2.33,(o)-3 (b)-5.1 (b)-5.1 (b4 (, W)-sdiu3g 19.219 -1.224m8 ID 2)-5

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

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 Mhar. Brogc. Po. (tr.) T. (1) 10.003 vg3f-0.001 Tc 0.001 Tw -10.459 -2.224 Td (M)-1.3 ()2.2 (ood) 3 rrd (1) ()0 hen-3epo42 Tjs than od3La(S)-6.5 (t) 0.7 ep)-6.1 (h)-0.6 (en)-6.1 (J)-4.4 (o)-4 (h)-0.6 (n) 0.7 e, J. (7) cen9 (r)-0.7 e224 RTj1 (r

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

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 E

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

VAN DEN BERGHE, Martin (Supervisor – Dante Canil) A s

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

65)n([dī421-1850173 126483113)a(it30 12011b)d(51000 137)N(2)tb(12)n(8421487)-)Ĭ0 12011(6)n(386n (2.6-b)d(1.1e(84210C(2.44-b)d)nbare6(i7/1r-0.7√v0.470 mTw08K)d(fr)s7(h(a,)i)-47(i

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 **HOBDAY**, **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 io46L v-2.te(ta)x793(n) 186(1)47t1(1)0)60300 5.72:00.8830 Tw -36.41 -1.219 Td(i)Tj-0.4M3w 5.660t

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.