

EENG 8460 Capstone Projects – Winter 2021 – Faculty: Goran Krstic

Student Name	Project Title	Expert Adviser
Chutikan Chansakulporn	A Comparison of Green Building Rating Systems: LEED vs. BREEAM	Brenda Martens, BSc, OBC, CSBA, LEED AP
Chad Myeongzae Choi	Evaluating Health and Safety of Low Flow Groundwater Sampling Method	Diane Grady, BASc, PhD
Rory Gallagher	Study of Low-Cost Sensors for Stream-Flow Monitoring	Zoran Milacic, BSc, PLog, EP
Will Gerrard	How Sea Level Tidally Influences Groundwater Table Elevations in Coastal Communities as a Case Study Completed in Squamish and Britannia Beach, British Columbia	Diane Grady, BASc, PhD
Vincent Guindon	Literature Review of Bioretention (Raingarden) System Stormwater Treatment for Non-Potable Water Reuse for Municipal/Land Development Application in the City of Vancouver, BC	Colleen Chan, PhD, PEng. - Civil Engineering program faculty, BCIT
Joanna Szu-Yu Huang	How to Reduce Avoidable Household Food Waste in Industrialized Countries Such as Canada?	Selena Lee-Anderson, JD, MA
Alex Leffelaar	Research Project for the Development of a New-Building Embodied Carbon Accounting Program in Nelson, BC	Rob Sianchuk, MASC
Satinder Sodhi	Impact of Face Masks on Waste Management During Covid-19 Pandemic	Brenda Martens, BSc, OBC, CSBA, LEED AP
Kalvin Zirk	Review and Design of Alternative Treatment of Contaminated Parking Lot Stormwater Runoff with Application to Fish-Bearing Watercourses	Colleen Chan, PhD, P.Eng. - Civil Engineering program faculty, BCIT

EENG 8460 Capstone Projects – Winter 2021 – Faculty: Zahra Toyserkani

Student Name	Project Title	Expert Adviser
Jason Chiang	Strategies to Minimize Combined Sewage Overflow (CSO) in the City of Vancouver prior to Sewer Separation	Dan Kovacek, BEng, PEng – Principle, DK Hydrotech Consulting
Grady Edge	Review and Statistical Analysis on Neurological Effects of Aluminum G17Salts Released During Mining	Goran Krstic, PhD, RPBio
Jevan Friedlander	Soil erosion modelling using RUSLE to examine the impact of climate change in the Squamish River drainage basin and potential impacts to hydropower storage and operation.	Jan Bielenberg, MSc, PEng. - Hydrotechnical Engineering, Civil Engineering program faculty, BCIT
Connor Grant	Life Cycle Assessment (LCA) on the Operational Requirements for a Proposed Biochar Production and Drinking Water Treatment System	Kelly Sveinson, MSc, PhD candidate – Chair, Applied Research Centre, Lanagara College
Zachary Lirenman	North Vancouver Anaerobic Digestion End-Use and Environmental Feasibility Study	Wilbert Yang, PEng – Director, Waste Planning Lead at Tetra Tech
Richard Pendziwol	Blue Carbon Sequestration Opportunities in the Coastal Lower Mainland Ecosystem	Sarah Cook, MSc, RPBio - Coastal and Ocean Resources Inc.
Craig Pilla	Assessing the Feasibility of a Community-Wide Rooftop Solar Garden Project in Castlegar, B.C.	Robert Macrae, MSc - Environmental Planning Technology (IEPT) Program faculty, Selkirk College

EENG 8460 Capstone Projects – Winter 2021 – Faculty: Olga Petrov

Student Name	Project Title	Expert Adviser
Darya Bisheh	City of Kelowna Annual Groundwater Budget Analysis	Yao Hung Lan, MAsc, PEng
Micah Koroll	Effects of Acclimatization on Coral Heat Stress Tolerance	Goran Krstic, PhD, RPBio
Emily Lai	Exploring the Use of Unmanned Aerial Vehicles (UAVs) for Monitoring the Vertical Distribution of Urban Air Contaminants in Metro Vancouver	Olga Petrov, PhD, Kyle Howe, MSc – Metro Vancouver
Peter Quan Le	Occupational Health Risk Assessment for Three Industrial Settings: the Automotive Repair Workshop, the Mineral Processing (Stone Crushing) Facility, and the Metallurgy (Fire Assay) Lab	Goran Krstic, PhD, RPBio
Dana May	The Urban Heat Island Effect in Densely Populated Urban Areas and its Implications on Eco-city Planning: Investigation of Vertical Temperature Profiles in Downtown Vancouver	Olga Petrov, PhD Eric Saczuk, PhD
Lucy Le Ouyang	Analysing Marine Debris at Locarno Beach in Vancouver, BC with Remote Piloted Aircraft Systems (RPAS)	Eric Saczuk, PhD
Trevor Poon	Evaluating the Use Thermal Sensors on Drones to 3D Map Building Heat Efficiency	Eric Saczuk, PhD