

Acknowledgements

The TRU Undergraduate Research and Innovation Conference would like to acknowledge Dr. Will Garrett-Petts, Associate Vice-President Research and Graduate Studies, whose financial support makes this conference possible. Many thanks for your ongoing generosity and support.

We would also like to acknowledge the contributions of the following:

Conference Supporters

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...and all of the student and faculty volunteers who have given so generously of their time to make this event a success!

Conference Organizing Committee

Chair: Elizabeth Rennie

Students: Hayfaa Bibi Zafiirah Golap Khan, Erin Hrycan, Ian McParland, Dana Prymak, and Alanah Seaton

Faculty and Staff: Lyn Baldwin, Bruce Campbell, Ila Crawford, Bart Cummins, Nancy Flood, Kathy Gaynor, John Hull, Wendy Krauza, Brian Lamb, Mohammad Mahbobi, Blair McDonald, Kim Naqvi, Catherine Ortner, Susan Purdy, Ginny Ratsoy, Brenda Smith, Joanne Urban, Heidi Verwey, Tom Waldichuk, and Marjanovic Zoravko

10th Annual TRU Undergraduate Research and Innovation Conference

Conference at a Glance

Friday March 27, 2015

Time	Location	Event
12:00 – 5:00 pm	BMO Student Street	Student Poster Exhibit
5:00 – 7:00 pm	Culinary Arts Building	Reception: -Welcome and Research Mentor Awards from Will Garrett-Petts, AVP Research and Graduate Studies -Launch of the 2014 Conference Proceedings -Showcase of poster assignments from ECED 3450 students -Showcase of Engagement Ambassador e-portfolios
7:30 – 8:30 pm	Black Box Theatre	Selected one-act plays from the TRU Actors Workshop Theatre's 16 th Annual Directors Festival
8:30 – 9:30 pm	Art Gallery	Dessert buffet prepared by TRU Culinary Arts, and viewing of the Annual Visual Arts Diploma and Certificate Exhibition

Saturday March 28, 2015

Time	Location	Event
8:30 – 9:00 am	IB Foyer	Registration & Breakfast
9:00 – 9:20 am	IB 1015	Opening Remarks
9:30 – 10:30 am		Concurrent Sessions A1, A2, A3 & A4
10:30 – 11:00 am	IB Foyer	Coffee Break
11:00 – 12: 00 noon		Concurrent Sessions B1, B2, B3, B4 & B5
12:00 – 1:00 pm	IB 3035 Panorama Room	Lunch
1:15 – 2:15 pm		Concurrent Sessions C1, C2, C3, C4 & C5
2:30 – 3:30 pm		Concurrent Sessions D1, D2, D3, D4, D5 & D6
3:30 – 4:00 pm	IB Foyer	Refreshment Break
4:00 – 5:00 pm		Concurrent Sessions E1, E2, E3, E4 & E5
5:00 – 6:30 pm	Panorama Room	Closing Wine & Cheese

Friday March 27, 2015

Student Poster Exhibit Presenters:

Sabbir Ahmed	Economics (Ehsan Latif)	The Impact of Recession on Students' Labour Market Outcomes: Evidence from Canada
Hector Alzate	Computing Science (Andrew Park)	Agent-Based Modelling and Simulation for Crowd Behaviour and Control Studies
Jacob Bailey	Biological Sciences (Matt Reudink)	Egg Colouration in Mountain Bluebirds (<i>Sialia currucoides</i>): A Sexually Selected Indicator of Female Quality?
Colin Bailey	Natural Resource Science (Brian Heise)	Chara versus Marl: The Effect of Substrate on Benthic Invertebrate Communities in Lakes
Corrie Belanger	Biological Sciences (Jon Van Hamme)	Effects of Red Lake Earth on Cattle Rumen Methanogenesis
Lee Bergstrand Matt McInnes	Biological Sciences (Jon Van Hamme)	Assembly and Annotation of <i>Gordonia</i> sp. NB4-1Y Genome Version 2.0
Lee Bergstrand Matt McInnes	Computing Science (Keven O'Neil)	BioMagick: A Next Generation Bioinformatics File Format Converter.
Han Bo Alex Buckley	Computing Science (Andrew Park)	Computer Vision for Autonomous Navigation
Erica Bonderud	Biological Sciences (Matt Reudink)	Ecological Influences of extra-pair Paternity Rates in <i>Paridae</i> : A Meta-analysis
E. L. Briner	Psychology (Catherine Ortner)	Believing is Doing? Weighing the Costs and Benefits in Responding to Emotionally Evocative Situations

Madeline Brooks	Chemistry (Kingsley Donkor)	Liquid Chromatography-Mass Spectrometry Analysis of Potentially-Significant Benzophenones in Swimming Pool and River Waters
Eleonora Calviello	Teaching English as a Second Language (Emma Bourassa)	The Cuban Experience: A 2013 Field School and A Model for Global Competency
Devin Chattu	Chemistry (Kingsley Donkor)	Determination of Triclosan in Personal Care Products and Swimming Pool Samples by Liquid Chromatography-Mass Spectrometry
Kevin Cooley	Chemistry (Kingsley Donkor)	Analysis of Triglycerides in Cooking Oils Using MALDI-TOF Mass Spectrometry and Principal Component Analysis
Matthew Drayton	Chemistry (Kingsley Donkor)	Determination of Triclosan in Personal Care Products by Capillary Electrophoresis
Sunny Dulay Kaleb Ledoux Jennifer Newton	Biological Sciences (Cynthia Ross Friedman)	An Analysis of Stomatal Density in the Fruit of Lodgepole Pine Dwarf Mistletoe Using Scanning Electron Microscopy
Riley Endean	Chemistry (Sharon Brewer)	Synthesis of a Biomimetic Copper Water Oxidation Catalyst and ¹ H NMR Characterization: A Multidisciplinary Undergraduate Laboratory Experiment
Eric Esslinger	Biological Sciences (Don Nelson)	Splicing Overlap Extension PCR for the Synthesis of the <i>Drosophila melanogaster</i> Target of Rapamycin gene

Dean Evans Sarah McArthur	Biological Sciences (Matt Reudink)	The use of EthoVision Software as a Novel Method for Aiding in the Automated Processing of Behavioural Videos in Wild Mountain Bluebirds (<i>Sialia currucoides</i>).
Dana Eye	Biological Sciences (Matt Reudink)	Are Dominance Hierarchies in Mountain Chickadees (<i>Parus gambeli</i>) Associated with Individual Condition, Body Size, or Age?
Megan Fenkhuber	Philosophy, History and Politics (Annie St. John-Stark)	<i>The Womanish-Man</i> and <i>The Man-Woman</i> : Cross-dressing in Early Modern England
Lisa Hodgson	Psychology (Catherine Ortner)	How Parental Beliefs about Behaviour, Social Norms, and Control Predict Children's Engagement with Nature
Hao Jin	Computing Science (Andrew Park)	Development of a Serious Virtual Reality Videogame to Aid in ACL-injured Patients' Rehabilitation Program
Amanda Jorgensen	Biological Sciences (Lyn Baldwin)	The Influence of Host Quality on <i>Coleophora deauratella</i> Larval Abundance and Growth on Red and Alsike Clover
Jackson Kusack	Biological Sciences (Matt Reudink)	Moult Strategies in Western North American Passerines: Molt Migration
Cindy Lam	Biological Sciences (Naowarat Cheeptham)	Investigation of Matrix Assisted Laser Desorption/Ionisation Time-of-Flight Mass Spectrometry (MALDI-TOF-MS) for Detection of <i>Clostridium difficile</i> toxin A and B from Stool Samples
Jillian Lane	Biological Sciences (Don Nelson)	Genome Surgery: Editing DNA using the CRISPR-Cas system

Chia Yi Lee	Interdisciplinary Studies (Warveni Jap)	Culture Loss: Traditional Taiwanese Tea
Rachel LePage Kirsten Roche	Nursing (Michelle Funk)	The Voice of Transgender Sex Workers in Relation to their Experiences in Health Care
Ross Marchant	Natural Resource Science (Brian Heise)	Feeding Ecology of Rainbow Trout In White Lake B.C.
Lucas Martins	Natural Resource Science (John Church)	What is on Your Plate? Health Attributes of Meat, Poultry, and Fish Fatty Acids
Cohord Mason	Biological Sciences (Naowarat Cheeptham)	Screening of Cave Bacteria for Antimicrobial Activity against <i>Pseudomonas aeruginosa</i> Biofilms
Jillian McAllister	Biological Sciences (Karl Larsen)	A Systematic Look into the Food Preferences of Eastern Grey Squirrels (<i>Sciurus carolinensis</i>)
Matt McInnes Chris Foster	Computing Science (Kevin O'Neil)	Tracking Cattle with Infrared Imaging Drones
Denise McKeown	Philosophy, History and Politics (Annie St. John-Stark)	A Look at Changing Views and Beliefs about Animals from 900-1900
Eric Olsen Kelsey Branchflower Jennifer Lam	Economics (Peter Tsigaris)	Will Canada Meet its Carbon Emission Target by 2020?
Jeffrey Palmer Lucas Rietze	Computing Science (Musfiq Rahman)	How Safe Is Near Field Communication? - A Research Survey
Katiana Pyper	Biological Sciences (Jon Van Hamme)	Analysis of Protozoal, Archaeal and Bacterial Communities in Bovine Rumen Fluid before and after the Addition of Powdered Red Lake Earth in vitro

Arjun Randhawa	Biological Sciences (Naowarat Cheeptham)	Using Scanning Electron Microscopy to Study Microbial Community in Cave Speleothem Samples
Ian Rankin	Physics (Normand Fortier)	Remote Sensing of Airborne Particulates
Karli Rapinda	Psychology (Reid Webster)	Social Interest and Emotion in Relation to Motives for Volunteering
Keenan Ratuszniak Jon Melvin	Economics (Peter Tsigaris)	Benefits, Costs, Risks, Timing and Limitations of Three Methods to Combat Climate Change
Kelsey Reay	Chemistry (Kingsley Donkor)	Determination of Methyl and Propyl Parabens in Cosmetic Foundations using Liquid Chromatography-Mass Spectrometry
Jerin Roberts	Physics (Mark Paetkau)	Timing Resolution of M9 Prototype Muon Spectrometer at TRIUMF
Kelsie Sallis	Chemistry (Kingsley Donkor)	Determination of Thymol in Mouthwash Using Capillary Electrophoresis
Samantha Sandee	Biological Sciences (Louis Gosselin)	Does Bacterial Infection Cause Mortality of Juvenile Marine Invertebrates?
Isabel Sarmiento de Sotomayor Martinez	Biological Sciences (Matt Reudink)	Dominance Behavior of the Mountain Chickadee (<i>Poecile gambeli</i>) in Winter
Stefan Schielke	Computing Science (Kevin O'Neil)	BlackBerry 10 PhoneGap Plugins
Laura Smylie	Biological Sciences (Jon Van Hamme)	Protein Transplant: Purifying Two NtaA Proteins from <i>Gordonia</i> sp. NB4-1Y
Katie Sparrow	Biological Sciences (Matt Reudink)	Application of Nonaqueous Capillary Electrophoresis for Sensitive Determination of Major Carotenoids in Feathers of Bullock's Orioles

Brian Tong	Chemistry and Biological Sciences (Naowarat Cheeptham & Kingsley Donkor)	Chemical Analysis of Cave Speleothem Samples Using Flame Atomic Absorption Spectrometry
Stacey Turner Carley Rookes	Geography (Tom Waldichuk)	Edinburgh Heights: Rural-Urban Fringe
Marie-Elena Viaud	Natural Resource Science (Sheri Watson)	Coyote, Friend or Foe? A Literature Study on the Public Perception of the Widespread Mesocarnivore
David Waithe	Economics (Ehsan Latif)	Comparison of Male and Female Student Employment
Paige Wildeman	Chemistry (Kingsley Donkor)	Capillary Electrophoresis Method Development for the Determination of Carotenoids in Feathers of American Redstarts
Jennifer Wraight	Chemistry (Sharon Brewer)	Analytical Chemistry Lab Development: Investigation of Essential Oil in Cinnamon

Introduction to Community Service-Learning

Posters

SERV 1000 has been offered at TRU since the fall of 2009. Every semester each student volunteers at one of 40 local not-for-profit organizations for a full semester. Students are required to contribute 24 hours of service as well as critical reflection on this unique experiential learning opportunity. This poster session demonstrates 29 students' service experiences at one of 11 organizations. This session also demonstrates how these experiences connect to their course work and what students will take back to their own communities both here and abroad, after the course is over.

Students representing their not-for-profit Organizations:

Hyunji Park
Miho Shirane

New Life Mission

Adaeze Ogbolu
Francisca Nnona
Shanshan Yang
Hao Pang
Jeffrey Wai

JUMP

Xinxin Li
Boyoung Kim
Zong Kai Wei

BC SPCA

Wafi Almutairi
Fahad Alfaraj
Abdullah Alsaleem

St. John Ambulance

SeulMi Ryu
Ali Altaweel
Jisung Kwak

Overlander Residential Care

Johan Gustafsson

The X Radio

Ying Lin

Kamloops Food Bank

Toshiki Okado
Suvi Sivula
Hanan Swaleh
Yi Yang

Kamloops Immigrant Services

Junfan Wu
Kuri Kim
Vi Tran
Mohannad Alqurash
Sajad Shakhoor
Hussain Alshaqiqi

The ReStore – Habitat for Humanity

Yi Yang

Stuart Wood Elementary

Francisca Nnona

Royal Inland Hospital

Faculty Supervisor: Wendy Krauza

Friday March 27, 2015

5:00 -7:00 pm in the Culinary Arts Cafeteria

Look at me: I'm Learning Everyday! Using Pedagogical Narrations to make the Competence of Infants and Toddlers Visible

A presentation by the post-diploma students of Early Childhood Education 3450: Program Development for Infants and Toddlers

In this session, students will showcase their final assignments from the course ECED 3450. Throughout the course students have focused on best practices for infants and toddlers in group care that are enriching, developmentally appropriate, and based on the principles of caregiving. Students posed a research question related to infant and toddlers' sensorial or social development. Observations of infants and toddlers in their natural play environments, often group child care settings, were collected. Students connected current research to their observations to make children's learning meaningful and visible.

Alexandra Polson
Karley Ashdown

How do Toddlers Explore Light?

Amy Stump

How to Support Attachment in Infant and Toddler Programs

Amy Patrick
Dorothy Dubois

What is a Responsive Curriculum in an Infant/Toddler Program?

Chantelle White

How do Infants & Toddlers Engage with Light?

Cori LeBlanc

How do Infants and Toddlers Explore Touch?

Dasa Soth
Samantha Borowsky

How do Infants and Toddlers Express their Feelings and Emotions

Dee Dee John

How to Support Attachment in Infant and Toddler Programs

Jasmine West
Joanna Carmichael

How does the Environment Encourage Children to Develop Healthy Relationships?

Julie Mitchell

How do Infants and Toddlers Learn through Touch?

Loni Solomon

How does the Environment Encourage Children to Develop Health Relationships?

Reanne Radmacker

How do Infants and Toddlers Interact Using Materials?

Laura Paterson

Neme Elemamba

Faculty Supervisor: Margaret H. Patten

Friday March 27, 2015

5:00 -7:00 pm in the Culinary Arts Cafeteria

Engagement Ambassador e-portfolio Showcase

Engagement Ambassadors from the Centre for Student Engagement and Learning Innovation will showcase their progress on developing individual e-portfolios that connect their curricular and co-curricular learning and pay particular attention to their research opportunities. The ePortfolio has been a collaborative activity of the Engagement Ambassadors and the CSELI team since Fall 2014. During the process of building e-portfolios, the Engagement Ambassadors have had the opportunity to reflect on personal learning across disciplines of study and research opportunities. This showcase will provide an opportunity to share with other participants the lessons learned through the intentional practice of reflection that is central to the process of developing e-portfolios – a process that is uniquely transferable to enhancing the learning process in education, research, and, ultimately, career.

Student Engagement Ambassadors:

Tatiana Fedotova

Hayfaa Bibi Zafiirah Golap Khan

Hailee-Jean Lindgren

Preetam Rai Srivastav

Janice Yeung

Staff Supervisor: Brianna McIlquham

Friday March 27, 2015
7:30 – 8:30 pm in the Black Box Theatre
Actors Workshop Theatre: Directors Festival

Every year students from THTR 4000, the senior directing class, each stage a one-act play as their final projects, and these one-acts are presented as our final show of the season – The Directors Festival. Four of the 10 one acts will be presented as part of the Undergraduate Conference:

ROLL OVER BEETHOVEN by David Ives

Director	Maddy Henry
Dr. Goldenbaum	Maddison Hartloff
Robin	Tyrell Waterston

CUDDLE by Bekah Brunstetter

Director	Kory Cudmore
Carol	Pamela Tulliani
Anita	Morgan Benedict

TRACES OF MEMORY by Ann Wuehler

Director	CJ Renee
Phoebe	Emily Thibert
Ruth	Brittney Martens

FLARE by Edith Freni

Director	Jessica Buchanan
Passenger	Stephanie Morris
Pilot	Joel Feenstra

Lighting Board Operator	Rebeka Binder
Sound Board Operator	Kory Cudmore
Assistant Stage Manager	Celine Majcher
Production Stage Manager	Robin Arundel
Running Crew	Daniel Moen

Friday March 27, 2015

In the Art Gallery: TRU Annual Visual Arts Diploma/Certificate Exhibition

The Visual Arts Diploma and Certificate exhibition showcases the work of students who have completed a substantial number of credits in visual art. Many of them are going to continue in the visual arts program working towards a BFA, but some are studying in other disciplines while taking as many courses in visual arts as they can. Earning a diploma or certificate in visual arts is a wonderful way for students to integrate their learning and find new ways to know.

The gallery is open 9:00-5:00 weekdays and for the Undergraduate Conference will be open on March 27th in the evening, and March 28th during the day. A list of the names of students showcasing their work will be on the gallery wall during the exhibition, along with their artist statements.

Saturday March 28, 2015

Session A1:

9:30 - 10:30 IB 1020

**Venturing into Cultural Territory:
Colonial Legacies & Reinforced Stereotypes**

Jessica Braidwood	Interdisciplinary Studies (Lisa Cooke)	Alpine Ambiguity: Reconceptualizing Skiing's Place in British Columbia
Lyndsay Helfrich	Global Competency (Julie Taylor)	And on That Stereotypical Bombshell... A Critical Analysis of the use of Essentialism in the TV Show <i>Top Gear</i>
Andrea Giles	Anthropology (Lisa Cooke)	Settlers and Survival Sex: The Effect of Colonialism on Aboriginal Women in the Sex Trade

Session A2:

9:30 - 10:30 IB 1015

Frameworks, Labels, & Representations

Junqing Lu	Computing Science (Mahnhoon Lee)	JavaScript Framework for Three-Way Data Binding
Lisa Hodgson	Psychology (Catherine Ortner)	Do Self-focused and Matching Styles of Affect Labeling Produce Different Subjective Emotional Responses?
Kyla Tunstall	Sociology (Camilla Sears)	Media Representations of Sexual Assault and Restorative Justice

Session A3:**9:30 - 10:30 IB 1014****Is it Lunch?****Mango Trees, Vineyards, & Cooking Oil**

Ariel Little	English and Modern Languages (S. Leigh Matthews)	A Mango For Every Palate: Food as Identity in Madhur Jaffrey's <i>Climbing the Mango Trees</i>
Benjamin King	Natural Resource Science (John Church)	Potential use of Unmanned Aerial Vehicles (UAV's) in Vineyard Management
Kevin Cooley	Chemistry (Kingsley Donkor)	Analysis of Triglycerides in Cooking Oils Using MALDI-TOF Mass Spectrometry and Principal Component Analysis

Session A4:**9:30 - 10:30 IB 1010****Research across the World**

Kenna Sim	Anthropology (Dawn Farough)	Starting from the Bottom: Social Stratification and Social Mobility within an Eastern Slovak Romani Community
Chipman Purdey	Economics (Mohammad Mahbobi)	Brazil Exports, Determinants and the Great Recession
Queenie Lai	Tourism Management (Harold Richins)	Tourism Employees' Motivations and Satisfaction across Cultures: A Case Study of Workers in Sun Peaks, B.C. and Sabah, Malaysia

Coffee Break**10:30 - 11:00 IB Foyer**

Session B1:**11:00 - 12:00 IB 1020****Understanding Crime & Justice**

Clarice Silva	Anthropology (Lisa Cooke)	Effects of the Ongoing Cycle of Colonialism
Anastasia Yanushevskaya	Business Administration (Amy Tucker)	Sexual and Domestic Abuse within Our Society
Jennifer Friend	Social Work (Jennifer Murphy)	First Nations Courts: Utilizing Canadian Legislation to Implement Restorative Justice for Aboriginal Offenders

Session B2:**11:00 - 12:00 IB 1015****Environmental Explorations**

Amanda Jorgensen	Biological Sciences (Lyn Baldwin)	The Influence of Host Quality on <i>Coleophora deauratella</i> Larval Abundance and Growth on Red and Alsike Clover
Drew Fuoco	Tourism Management (Harold Richins)	Understanding Eco-tourist Motivations: A Case Study of Borneo's Eco-tourism Industry
Karin Solde	Anthropology (Lisa Cooke)	Mount Polley Represented in the Media

**Session B3:
Of Mice and Masculinity**

11:00 - 12:00 IB 1014

Justin Mufford	Biological Sciences (John Church)	The Development of A Non-Invasive Behavioral Model of Thermal Heat Stress In Laboratory Mice (<i>Mus musculus</i>)
Nicole Vance	English and Modern Languages (S. Leigh Matthews)	The Problem of Pocahontas: Colonialism, Stereotypes, and Personal Identity in Janet Campbell Hale's <i>Bloodlines. Odyssey of a Native Daughter</i>
Mike Neigel	Sociology (Camilla Sears)	Becoming a "Bro": An Analysis of 21st Century Masculinity

**Session B4:
Infection, Disease, & How We React**

11:00 - 12:00 IB 1010

Samantha Sandee	Biological Sciences (Louis Gosselin)	Does Bacterial Infection Cause Mortality of Juvenile Marine Invertebrates?
Erin Hrycan	English and Modern Languages (Ginny Ratsoy)	Pathologizing Postmodern Fiction: The Rise of Disease in Literature and How This May be Useful
E. L. Briner	Psychology (Catherine Ortner)	Believing is Doing? Weighing the Costs and Benefits in Responding to Emotionally Evocative Situations

Session B5:

11:00 - 12:00 IB 1008

Sex as a Variable:

Women's Roles & Female Behaviour

Kaitlyn Seifrit	Philosophy, History and Politics (Wilson Bell)	Women's Equality in the USSR
Tyler Pineau	Philosophy, History and Politics (Robin Tapley)	The Western Hero Myth And Women In War
Erica Bonderud	Biological Sciences (Matt Reudink)	Do Female Mountain Bluebirds (<i>Sialia currucoides</i>) Adjust Offspring Sex Ratio in Response to Male Attractiveness?

Lunch

12:00 - 1:00 IB 3035

Please pick up a boxed lunch in IB 3035, and then head over to the Panorama Room or back down to the 1st floor IB Foyer to eat.

Session C1: **1:15 - 2:15 IB 1020**
Challenging Perceptions:
Policing, Sex Workers, & Alcohol Abuse

Kenneth Scott	Anthropology (Lisa Cooke)	Deconstructing Police - Aboriginal Colonial Relationships
Rachel LePage Kirsten Roche	Nursing (Michelle Funk)	The Voice of Transgender Sex Workers in Relation to their Experiences in Health Care
Robert Long	English and Modern Languages (Jan Duerden)	Exploring Better Explanations for Alcohol Abuse by University Students

Session C2: **1:15 - 2:15 IB 1015**
The 'Happy City' Panel

Brayden Wilson Jacob Plato Whitney Mahar Radha Ortiz Jordan Sullivan Leif Douglass	Philosophy, History and Politics (Terry Kading)	The 'Happy City' Panel – Kamloops and Urban Ideals of Charles Montgomery
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Session C3: **1:15 - 2:15 IB 1014**
Seeing Culture: Confronting Aboriginal Erasure

Jason Johnston	Interdisciplinary Studies (Mark Wallin)	Aboriginal Tourism Business Plan
Jason Charlie	Philosophy, History and Politics (Jenna Woodrow)	Fusion and the Circle of Life: Demonstration and Participation
Katie Youwe	Anthropology (Lisa Cooke)	The Ground Under our Skis – European Settler Imagery and the Erasure of Indigenous Epistemologies at Sun Peaks

**Session C4:
Systems & Genomes**

1:15 - 2:15 IB 1010

Sant Parkash Singh	Computing Science (Mahnhoon Lee)	Client-side Stand-alone NoSQL Database
Brenden Mercer	Natural Resource Science (Brian Heise)	The Effects of Varying Wildfire Severity on Stream Invertebrate
Lee Bergstrand Matt McInnes	Biological Sciences (Jon Van Hamme)	Assembly and Annotation of <i>Gordonia</i> sp. NB4-1Y Genome Version 2.0

**Session C5:
Swimming Pools, Crystals, & Student Debt**

1:15 - 2:15 IB 1008

Sabbir Ahmed	Economics (Ehsan Latif)	The Impact of Recession on Students' Labour Market Outcomes: Evidence from Canada
Devin Chattu	Chemistry (Kingsley Donkor)	Determination of Triclosan in Personal Care Products and Swimming Pool Samples by Liquid Chromatography- Mass Spectrometry
Parta Ansari Pirsaraei	Biological Sciences (Cynthia Ross Friedman)	Rate of Crystal Formation and its Impact on Purity: An Investigation Using Scanning Electron Microscopy and X- Ray Spectroscopy

Session D1:**2:30 - 3:30 IB 1020****Deeper Understandings, Better Solutions**

Erica Howes	English and Modern Languages (Jan Duerden)	Change through Understanding: A Reflection on Homelessness, Public Perception, and Solutions
Brittany Corby	Anthropology (Lisa Cooke)	Exploring Culturally Sensitive Alternatives for Aboriginal Justice
Katherine McParland	Social Work (Jeanette Robertson)	Tuition Waivers for Former Youth in Care: An Equalizing Opportunity that Thompson Rivers University Should Adopt

Session D2:**2:30 - 3:30 IB 1015****Times of Change: Dealing with the Unfamiliar**

Alanah Seaton	Philosophy, History and Politics (Tina Block)	Victory Red: Make-up's Impact on the American Homefront
Justin Potestio	Sociology (Camilla Sears)	More than Just a Really Big <i>Sheuw</i> : The Beatles' <i>Ed Sullivan</i> Performance and Societal Deviance
Rod McCabe	English and Modern Languages (Ginny Ratsoy)	Square Pegs and Round Holes: Stories within Stories

**Session D3:
Industry Insights**

2:30 - 3:30 IB 1014Lee Bergstrand
Matt McInnesComputing Science
(Kevin O'Neil)BioMagick: A Next Generation
Bioinformatics File Format Converter

Spencer Prince

Economics
(Mohammad Mahbobi)Softwood Lumber Exports from British
Columbia to the United States: An
Econometric Approach

**Session D4:
Battlefields, Riots, & the CIA**

2:30 - 3:30 IB 1010

Hector Alzate

Computing Science
(Andrew Park)Agent-Based Modelling and Simulation
for Crowd Behaviour and Control
Studies

Eric Maher

Sociology
(Daniel Dorogi)How to Kill in the 21st Century: The
Resurgence of Mercenaries on the
Battlefield

Lachlan Gonzales

Philosophy, History
and Politics
(Michael Gorman)Cold Constructs: Creating a Society of
Fear in the 1960's

**Session D5:
Dressing to Impress**

2:30 - 3:30 IB 1008

Megan Fenkhuber	Philosophy, History and Politics (Annie St. John-Stark)	<i>The Womanish-Man</i> and <i>The Man- Woman</i> : Cross-dressing in Early Modern England
Jacob Bailey	Biological Sciences (Matt Reudink)	Egg Colouration in Mountain Bluebirds (<i>Sialia currucoides</i>): a Sexually Selected Indicator of Female Quality?

**Session D6:
Health & Rehabilitation**

2:30 - 3:30 IB 1007

Sunny Dulay	Sociology (Meridith Burles)	Content Analysis of Psychosocial Well- Being in Health Care Professionals through Online Discussions
Hao Jin	Computing Science (Andrew Park)	Development of a Serious Virtual Reality Videogame to Aid in ACL-injured Patients' Rehabilitation Program

Refreshment Break

3:30 - 4:00 IB Foyer

Session E1: 4:00 - 5:00 IB 1020
Exploring Education, Studying Students

Hector Alzate	Sociology (David MacLennan)	Tranquile: A Serious Game to Learn About Environmental Sustainability
Meena Balachandran	Teaching English as a Second Language (Jim Hu)	Strategies to Treat Language Problems in ESL Academic Writing: Teacher and Student Preferences
Debra Andrews	Sociology (Dawn Farough)	Two Surveys: An Analysis of Canadian Undergraduate Research Conferences

Session E2: 4:00 - 5:00 IB 1015
What Took Place: Written Reflections

Jordan Robinson	Biological Sciences (Lyn Baldwin)	Salmon Teachings
Zack Colbourne	English and Modern Languages (Karen Hofmann)	Blue Humour: A Story about Comedy, Discrimination, and "Fat Kids"
Leif Douglass	Anthropology (Lisa Cooke)	Place-Making in the Mountains of the South Interior

Session E3: 4:00 - 5:00 IB 1014
Confidence, Consciousness, & Crime

Breann Erickson	Interdisciplinary Studies (Amy Tucker)	Developing Sport-Confidence in Gymnastics Athletes
Justin Potestio	Philosophy, History and Politics (Tina Block)	The Gospel According to the Cosmic Conscious: The Counterculture and Christianity in late 1960s North America
Kenneth Scott	Sociology (Camilla Sears)	Media Representations of Incarceration and Drug Use

Session E4:**4:00 - 5:00 IB 1010****Access: To Equality, Services, & Education**

Christopher Herbert	Sociology (Dawn Farough)	The American Lie: Western Education and the Myth of Meritocracy
Ashley Pierobon	Social Work (Jeanette Robertson)	Researching Service Access from Adolescence to Adulthood of Individuals with Autism Spectrum Disorder
Tatiana Pelaez Jimenez Sean Duffee	Economics (Ehsan Latif)	Higher Education Premiums in Canada

Session E5:**4:00 - 5:00 IB 1008****Serious Science:****Computer Vision, Graph Theory, & Gassy Cows**

Han Bo Alex Buckley	Computing Science (Andrew Park)	Computer Vision for Autonomous Navigation
Ben Moore	Mathematics (Richard Brewster)	Graph Theory - Recolouring Problems
Corrie Belanger	Biological Sciences (Jon Van Hamme)	Effects of Red Lake Earth on Cattle Rumen Methanogenesis

Wine & Cheese**5:00 – 6:30 Panorama Room**
