

## **Acknowledgements**

The TRU Undergraduate Research and Innovation Conference would like to acknowledge the following list of sponsors, whose financial support makes this conference possible:

### **Conference Sponsors**

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Dr. Russell Currie, Dean School of Business and Economics  
Christine Adam, Dean of Students  
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Many thanks for your ongoing generosity and support. We could 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:** Kaitlyn Berry, Hayfaa Bibi Zafiirah Golap Khan, Andria Parker, and Amber Wilson (alumni)

**Faculty and Staff:** Lyn Baldwin, Bruce Campbell, Ila Crawford, Bart Cummins, Nancy Flood, Kathy Gaynor, John Hull, Wendy Krauzza, Brian Lamb, Mohammad Mahbobi, Blair McDonald, Andrew McKay, Robin Nichol, Susan Purdy, Ginny Ratsoy, Joanna Urban, Heidi Verwey, and Tom Waldichuk

# 9<sup>th</sup> Annual

## TRU Undergraduate Research and Innovation Conference

### Conference at a Glance

Friday March 28, 2014

<b>Time</b>	<b>Location</b>	<b>Event</b>
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 2013 Conference Proceedings -Showcase of final assignments from ANTH 4050 students
7:30 – 9:00 pm	Black Box Theatre	Selected one-act plays from the TRU Actors Workshop Theatre's 15 <sup>th</sup> Annual Directors Festival
9:00 – 10:00 pm	Art Gallery	Dessert buffet prepared by TRU Culinary Arts, and while viewing the Annual Visual Arts Diploma and Certificate Exhibition

## Saturday March 29, 2014

<b>Time</b>	<b>Location</b>	<b>Event</b>
8:30 – 9:00 am	IB Foyer	Registration & Breakfast
9:00 – 9:20 am	IB 1015	Opening Remarks: Katherine Sutherland, Associate Vice-President Academic
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
12:00 – 1:00 pm	IB 3035	Lunch
12:00 – 1:00pm	Panorama Room	SERV 1000 posters
1:15 – 2:15 pm		Concurrent Sessions C1, C2, C3, C4 & C5
2:30 – 3:30 pm		Concurrent Sessions D1, D2, D3 & D4
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 28, 2014**

**Student Poster Exhibit Presenters:**

Curtis Abney	Environmental Studies (David Clements)	Biological Inventory of Thomas Blaauw Eco-forest
J. Andrew Alexander	Biological Sciences (Steve Thomas)	Enrichment, Isolation, and Identification of Oil Degrading Bacteria from Abbotsford, BC, Canada
Sultan Alwehaibi	Computing Science (Andrew Park)	Visualizing Patterns and Trends in British Columbia Court Data
Debra Andrews	Geography (Tom Waldichuk)	Exploring Geography of Education: Undergraduate Research Conference Initiative and Development at a Small- city University
Jim Arner	Natural Resource Science (Brian Heise)	Diet Preferences of Northern Pikeminnow in the Southern Interior of B.C.
Jacob Bailey	Biological Sciences (Matt Reudink)	Effects of Habitat Characteristics on Nest box Selection and Reproductive Success in Mountain Bluebirds ( <i>Sialia curruoides</i> )
Corrie Belanger	Biological Sciences (Jon Van Hamme)	In vitro Inhibition of Methane Production in Bovine Rumen Fluid Cultures by Red Lake Earth
Katie Bennett	Biological Sciences (Jon Van Hamme)	Detection of the Fungal Pathogen <i>Batrachochytrium dendrobatidis</i> on Spadefoot Toads in the Kamloops region
Scott Borden	Chemistry (Kingsley Donkor)	Kinetics of Flavanoids and Polyphenols in Green Tea
Alex Buckley	Computing Science (Andrew Park)	An Agent-Based Modeling and Simulation of Residential Burglary in the Urban Environment

James Conway	Biological Sciences (Eve Stringham)	Excretory Cell Outgrowth as a Model for Investigating Wnt Ligands as Upstream Activators of <i>unc-53</i> in <i>Caenorhabditis elegans</i>
Lindsay Curry	English and Modern Languages (Karen Hofmann)	From Abstract to Concrete: A Poet's Journey
Tracy Davison	Psychology (Catherine Ortner)	Effects of Natural and Urban Settings on Emotion Regulation Strategy Used
Sarah Doucet	Education (Gloria Ramirez)	A Community of Literacy
Jovan Gill	Chemistry (Kingsley Donkor)	The Investigation of Atorvastatin and Fenofibrate in the Vitreous Humour of Diabetic Patients
Felicia Girouard	Business (Ehsan Latif)	Student Motivations to Volunteer
Hayfaa Bibi Zafiirah Golapkhan	Biological Sciences (Naowarat Cheeptham)	Isolation of, and Screening for, Potential Antibiotic-producing Actinomycetes from Tupper Cave System, British Columbia
Joseph Goody	Biological Sciences (Julia Mills)	Integrin-Linked Kinase Regulates Cellular Senescence of Retinoblastoma Cells in an Rb-Dependent Manner
Orri Greaves	Biological Sciences (Matt Reudink)	Moult Conditions Influence Plumage Colouration and Breeding Dynamics in Bullock's Orioles ( <i>Icterus bullockii</i> )
Peter Grypma	Mathematics/Natural and Applied Science (Sam Pimentel)	The SMART Filter as an Efficient Data Assimilation Method in Geophysical Fluid Dynamics
Zhi Chao Guo	Chemistry (Kingsley Donkor)	2- and 4(5)-Methylimidazole in Food Products by Capillary Electrophoresis

Ivan Hartling	Biological Sciences (John Church)	Determination of Vitamin K2 in Canadian Cheese Using Liquid Chromatography-Mass Spectrometry
Natascha Hedrich	Mathematics (Richard Taylor)	Best Phase Approximations using Allpass Filters
Kayla Holtslag	Biological Sciences (Nancy Flood)	Ambulatory Blood Pressure Monitoring in the TRU Sleep Clinic: Should High Blood Pressure and Sleep Apnea be Tested for and Treated Simultaneously?
Heather James	Interdisciplinary Studies (Gilles Viaud)	Jane Jacobs- The Woman Who Changed the Way We Think about Cities
Kevin Janz	Biological Sciences (Anthony Stea)	Pyrethroid Insecticides Inhibit the Electron Transport Chain in Mammalian Mitochondria
Kathleen Kallhood	Interdisciplinary Studies (Gilles Viaud)	Feminist Urban Geography: Intersections of Feminism and Sustainable Urban Design
Gavin Keusch	Computing Science (Kevin O'Neil)	Undergraduate Capstone Open Source Project - Kotlin
David Lacho	Anthropology (Christine Schreyer)	Undergraduate Language Research and Collaboration: Exploring the Possibility of Going Beyond the Empowerment Model
JinGyu Lee	Chemistry (Nelaine Mora-Diez)	Computational Study on the Repair Mechanism of Damaged Tripeptides with Dihydrolipoate
Marisa Leung	Natural Resource Science (Karl Larsen)	Plants & The American Pika: Comparing Vegetation Communities, Pika Harvesting and Plant Nutrition in Contradictory Habitats

Lara Loubser	Biological Sciences (David Clements)	Habitat Restoration and GIS mapping of <i>Rana aurora</i> and <i>Monadenia fidelis</i> in Blaauw's Ecoforest
Janelle Lowen	Environmental Studies (Karen Steensma)	Monitoring a Remediation Project on the Habitat of the Endangered Snail, <i>Allogona townsendiana</i>
Kateri Lucier-Laboucan	Architecture and Engineering Technology (Mindy Marshall)	This Isn't Home: Reshaping Neekanan (Our Home)
Jared Maida Jill McAllister	Natural Resource Science (Karl Larsen)	Investigating Prey Selection of the Western Rattle Snake ( <i>Crotalus oreganus</i> ) and Great Basin Gopher Snake ( <i>Pituophis cotenifer deserticola</i> ) in the Okanagan, British Columbia
Taran Main	Chemistry (Kingsley Donkor)	Levels of Atorvastatin and Fenofibrate in Vitreous Fluid from Diabetic Patients
Alison McClean	Biological Sciences (Naowarat Cheeptham)	Detection of <i>Clostridium difficile</i> toxin B using Matrix-assisted Laser Desorption/ionisation Time-of-flight Mass Spectrometry
Nathan Michaels	Biological Sciences (Cynthia Ross Friedman)	Fate Mapping Resident Glial Progenitor Cells in the Central Nervous System Following Spinal Cord Injury
Sophie Michaelsen	Natural Resource Science (Brian Heise)	The Effects of Rotenone on Zooplankton and Benthic Invertebrates
Tallon Milne	Chemistry (Heidi Huttunen-Hennelly & Kingsley Donkor)	Determination and Quantification of Taurine in Energy Drinks through Capillary Electrophoresis

Spencer Morran	Education (Carol Rees)	Investigating the Effect of a Summer Science Camp on Elementary Children's Content Knowledge and Attitudes Towards Science
Simon Oliver Russell Thorsteinsson Brittany Raschke	Geography (Tom Waldichuk)	Canada's Role In The Diffusion Of Ice Hockey In Japan
Fraser Parlane	Chemistry (Craig Montgomery)	Utilization of the Hydridophosphorane $HP(OC_6H_4NMe)_2$ as a Ligand in Ni(II) and Pt(II) Complexes
Michelle Phillips	Natural Resource Science (Wendy Gardner)	Establishment of <i>Pseudoroegneria spicata</i> , <i>Festuca scabrella</i> , <i>Erigeron filifolius</i> , and <i>Gaillardia aristata</i> from Seed using Hydro-seeding and Straw Matting Treatments
Vanessa Porter	Biotechnology (Ka Yin Leung)	Genome-wide Search for Type III Secretion System Effectors of <i>Edwardsiella tarda</i> using a Meta-analytical Approach
Jerin Roberts	Biological Sciences (Matt Reudink)	RFID Logging of Mountain Bluebirds
Jessika Robinson	Biological Sciences (Susan Purdy)	Hydroponics Vs Aquaponics
Morgan Roosenmaallen	Mathematics (Javad Tavakoli)	ChemiMani: Visualizing Nucleic Acid Constraint Manifolds
Mikhail Roy	Biological Sciences (Anthony Stea)	Toxic Effects of Herbicides on Cellular Respiration in Mitochondria
Jennifer Rumley	Environmental Studies (David Clements)	Restoration of Native <i>Camassia quamash</i> in Garry Oak Meadows: A Look at the Effect of Herbivory and Competition



Steven Sadler	Physics (Mark Paetkau)	Musical Hockey: The Sonification of Team Sports
Harjit Sidhu	Biological Sciences (Anthony Stea)	Identifying GMOs in Canadian Organic Foods via a PCR-based Method
William Sikkema	Biotechnology (Julia Mills)	Unraveling the Effect of Retinoblastoma Tumour Suppressor Expression on the ILK Interactome
Quinton Sirianni	Chemistry (Norman Reed)	Directed Ortho-Lithiation of Biphenyl Containing Different Tertiary Amide Directing Groups at the 4 and 4' Positions
Katie Sparrow	Chemistry (Kingsley Donkor)	Interaction of Nisin with Enzymes in Beef by Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry (MALDI-TOF MS)
Kendall Spooner	English and Modern Languages (Jan Duerden)	When Was Thin, In?: Examining the Thin Ideal and How It Coincides with the Rise of Feminism
Mark Ste Marie	Psychology (Catherine Ortner)	The Cognitive Costs of Emotion Regulation with Positive and Negative Stimuli
Lauren Steele	Biological Sciences (Matt Reudink)	Using Stable Isotopes to Determine The Overwintering Grounds Of An Aerial Insectivore: Vaux's Swift ( <i>Chaetura vauxi</i> )
Connor Sternig	Chemistry (Nelaine Mora-Diez)	A Computational Study on the Effects of Multiple Acid-base Equilibria on the Acidity of Acetohydroxamic Acid in Aqueous Solution
Katelyn Strangway	Biological Sciences (Lyn Baldwin)	The Effects of Grazing on the Seed Production and Soil Seed Bank Germinability of Invasive Weeds

Jenna Todd	Psychology (Reid Webster)	When is Speeding, Speeding?
Christa Van Zyl	Psychology (Sandra Vermeulen)	The Impact of Mortality Salience on Treatment Endorsements for the Marginalized Patient
Nicole Vance	Psychology (Sandra Vermeulen)	Perceptions of Motivation for Criminal Behaviour in Male and Female Offenders
Chris Voth	Chemistry (Craig D. Montgomery)	Reactions of $\alpha$ -Perfluoroalkoxides with Transition Metals
Jason Wassing	Computing Science (Kevin O'Neil)	Web Content Management via Direct Page Editing
Chantal White Jason Wright	Psychology (Catherine Ortner)	Personality and its Effects on Sustainability
Mike Wilson Derek Hanna Tiffany Rivette Rene Tardif	Geography (Tom Waldichuk)	Canadian Construction Companies in Japan: Challenges and Rewards
Hardy Wooldridge Jesse Bazergui Blake Majcher	Geography (Tom Waldichuk)	An Investigation of Japanese Influence in the Canadian Food Industry since the 1980s
TszYeung Yiu (Matthew )	Chemistry (Norman Reed)	Directed Ortho-Lithiation of Biphenyl Containing Identical Tertiary Amide Directing Groups at the 4 and 4' Positions
Bradley James Young	Interdisciplinary Studies (Iain Stewart-Patterson)	A Comparative Analysis of Leadership Styles Used at NOLS and Outward Bound

**Friday March 28, 2014**

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

Students participating in the exhibition are receiving their visual art studio certificates or diplomas this year. They have completed the required number of credits toward the two year credential. Some of the students will continue working toward a BFA and others will continue on to other disciplines to complete their education at TRU.

**Diploma Students:**

Emma Foreman

Siqi Xu (Jason)

Xiaoqing Zhai

Renata Knights

Rae Imeson

Kate Lochhead

Kristina Senger

Finn Modder

Sarah Wood

Allie Hendrickson

Alissa Nicholson

Amber Pattie

**Certificate Students:**

Brandice Mack

Maeghan Watkinson

Michelle Lonsdale

Dion Fortie

Elizabeth Spike

Paolino Caputo

Ziwei Chen

Kate Lochhead

Susan Miller

**Friday March 28, 2014**

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

**Walking the Talk: Moving Indigenous Studies from the Classroom to the Community**

A presentation by the students of Anthropology 4050: Canadian Status/Treaty Indian Reserve Communities.

In this session students will showcase their final assignments from the course ANTH 4050. Throughout the course we have discussed the complexities of the history of the reserve system in Canada, the nuances of the Treaty process, the rigidity of the Indian Act, the traumas of residential schools and lived implications of forced relocations on Indigenous communities. We have examined how colonial relations are spatialized and how this spacialization translates into lived social relations. This showcase represents our desire to share what we have learned and why it matters with our TRU community in the hopes of nurturing a space of understanding, compassion, and mutually respectful conversation.

Presenters:

Gudrun Andrews

Dalton Baptiste

Cara Basil-Dugas

Jessica Braidwood

Brittany Corby

Lisa Coriale

Leif Douglass

Aileen Edwards

Racheal Estok

Dennis Froese

Ashley Gerow

Megan Graham

Taylor-Rae Harvey

Kathleen Hood

Jason Johnston

Jessica Kent

Travis Kinniburgh

Sarah Lambert

Megan Law

Charlene Lorincz

Dancing Water Lulua

Jolene Michel

Seraphine Munroe

Shevani Nall

Haley Norberg

Kenneth Scott

Alanah Seaton

Steven Shortt

Sharondeep Sian

Jessica Slothouber

Marsha Spinks

Latham Wallace

Jason Wokna

Kathryn Youwe

Service Learning Student (for logistical support): Dustin McIntyre

Faculty Supervisor: Dr. Lisa Cooke

**Friday March 28, 2014**

**7:30 – 9:00 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:

**The Theodore Roosevelt Rotunda** by Jennifer Camp

Directed by Andrew Cooper

Ben – Josh Sunderman

Lillian – Jessica Buchanan

Lillian and Ben are attracted to one another. The only trouble is they've never met. They've only seen each other in the lobby of the American Museum of Natural History where they've each been mysteriously drawn.

**Awkward Silence** by Jay Reiss

Directed by Allison Clow

Man – Erik Stephany

Woman – Alley Barton

A man and woman are tired of the endless first dates and the boring, repetitive conversations that come with them. After being set up by a mutual friend, they must find a way to fight through the awkward silences if they have any hope of making a true connection.

**A Second of Pleasure** by Neil LaBute

Directed by Brooke Ballam

Jess – CJ Renee

Kurt – Joel Feenstra

Isn't it amazing when you realize one little thing can change your life? Kurt and Jess have a romantic getaway planned for the weekend, but at the last minute Jess realizes she doesn't want to go.

**On the Porch One Crisp Spring Morning** by Alex Dremann

Directed by Wyatt Purcha

Daughter – Maddy Henry

Mother – M'Lissa O'Neil

A delightful brunch, the splendid aroma of freshly brewed coffee filling the crisp morning air, and a peaceful breeze grazing the back porch under a warm blue sky. It's almost a shame someone is going to have to die.

Don't forget to head to the Art Gallery after the show for dessert!



**Saturday March 29, 2014**

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**Session A1:**

**9:30 - 10:30 IB 1008**

**Crimes and Punishments**

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Jessie Venos	Anthropology (Beth Bedard)	Some Historic Lessons from the Study of Eugenics
Colleen Fines	Social Work (Jennifer Murphy)	Aboriginal Over-representation within the Canadian Criminal Justice System: How an Indigenous Lens may Inform the CCJS Approach to Mental Health and Substance Use During Incarceration and Reintegration of First Nation, Inuit and Metis Individuals

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**Session A2:**

**9:30 - 10:30 IB 1010**

**Costs and Savings**

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Mark Ste Marie	Psychology (Catherine Ortner)	The Cognitive Costs of Emotion Regulation with Positive and Negative Stimuli
Simon Oliver	Geography (Gilles Viaud)	North American Affordable Housing Strategies: An Overview
Colin Macedo Deanna Owen	Economics (Belayet Hossain)	Tax Free Savings Accounts

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**Session A3:  
Challenging “Normal”**

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**9:30 - 10:30 IB 1015**

Heather James	Interdisciplinary Studies (Gilles Viaud)	Jane Jacobs - The Woman who Changed the Way We Think About Cities
Rene Tardif	Geography (Gilles Viaud)	The Spatial Process of White Flight: Examining Postwar Paradigm Shifts
Adina de Jong	English and Modern Languages (Karen Hofmann)	The Unnatural Order of Things

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**Session A4:  
Our Sense of Place**

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**9:30 - 10:30 IB 1020**

Tyler Pineau	Philosophy, History and Politics (Jenna Woodrow)	The Practical Person: Defining the World
Hailey Moore	Geography (Gilles Viaud)	Kevin A. Lynch: Mental Mapping and the Perceived City
Sarbjit Gill	Tourism (John S. Hull)	Understanding Employees' Sense of Place at a Snow-sports Resort and its Role in Serving as a Competitive Advantage for Retention of the Staff: The case of Sun Peaks Resort

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**Coffee Break**

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

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**Session B1:****11:00 - 12:00 IB 1008****Questions of Health and Well Being**

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Kayla Holtslag	Biological Sciences (Nancy Flood)	Ambulatory Blood Pressure Monitoring in the TRU Sleep Clinic: Should High Blood Pressure and Sleep Apnea be Tested for and Treated Simultaneously?
Olga Fomicheva	English and Modern Languages (Nina Johnson)	The Pharmaceutical Industry Has “Special” Interests in Disease
Shawna Holmes	Interdisciplinary Studies (Mark Wallin)	Emotional Attachment: Does Place Play a Role?

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**Session B2:****11:00 - 12:00 IB 1010****Being and Becoming Human**

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Gavin Hayes	English and Modern Languages (Ginny Ratsoy)	What We Are Becoming: Perspectives on the Posthuman in the Works of Margaret Atwood and Douglas Coupland
Jordan Ellis	Geography (Gilles Viaud)	In 'Ley'mans terms: An Examination of David Ley's Contributions to Human Geography
Elon Newstrom	Interdisciplinary Studies (Karen Hofmann)	Dasein's Danger

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**Session B3:****11:00 - 12:00 IB 1015****Food & Wine: The Bear Necessities**

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Mitchell Johnson	Biological Sciences (Rob Higgins)	Ants, Living in Coarse Woody Debris, as a Food Source for Bears in West-central British Columbia
Ivan Hartling	Biological Sciences (John Church)	Determination of Vitamin K2 in Canadian Cheese Using Liquid Chromatography-Mass Spectrometry
Matthew Paish Sarbjit Gill	Tourism (Lian Dumouchel)	Strategies for SME Wine Businesses for Global Competitiveness

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**Session B4:****11:00 - 12:00 IB 1020****Poetic Journeys**

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Justin Potestio	Philosophy, History and Politics (Annie St. John-Stark)	Protest on Paper: Britain's Anti-War Poets of World War One and Societal Perception
Ben Moore	Mathematics (Mohamed Tawhid)	Metaheuristic Algorithms
Lindsay Curry	English and Modern Languages (Karen Hofmann)	From Abstract to Concrete: A Poet's Journey

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**Lunch****12:00 - 1:00 IB 3035**

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Please pick up a boxed lunch in IB 3035, and then head over to the Panorama Room to view the Introduction to Community Service-Learning posters while you eat. There is also space to sit and eat in the 1<sup>st</sup> floor IB Foyer.

SERV 1000 has been offered at TRU since Fall 2009. Every semester each student volunteers at one of approximately 37 local not-for-profit organizations for a full semester. Students are required to contribute 24 hours of service as well as complete a variety of ongoing reflections related to their experiential learning. This poster session demonstrates the personal reflections on volunteer experiences of 27 students at 14 local organizations. This session also demonstrates how these experiences connect to their course work and what students will take back to their own communities after the course is over.

Students and their not-for-profit Organizations:

Chunyu Wu	New Life Mission
Maki Ito Mizue Tanaka Tetiana Shyshkova Suli Lin	JUMP
Can Wang Yugang Duan	BC SPCA
Yen-Shuo Chao Songhua Gu Kaidi Zheng	St. John Ambulance
Kassie Colonna Sukinah Alhaidan	YM/YWCA After School Kids Program
Blessing Chiduuro	Elizabeth Fry Society
Artem Zavhorodnii Sarah Alshahrani Abdulkarim Alqunaisi	Overlander Residential Care

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**Introduction to Community Service-Learning  
Posters**

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**11:00 – 5:00 Panorama Room**

Samriti Samriti  
Jiajie Cui  
Kai Song

ESL Scholarship Committee

Malak Aljadhi

South Sahali Elementary French Immersion Program

Naimul Alam

The X Radio

Yihang Wang

Kamloops Food Bank

Bader Alassaf

North Shore Community Centre

Yurika Kagebayashi  
Yuki Yamada

The Shores Retirement

Yaotao Wang  
Yanling Zheng

United Way Youth Program

Faculty Supervisor: Wendy Krauza

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**Session C1:  
Studying our Cities**

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**1:15 - 2:15 IB 1008**

Tracy Davison	Psychology (Catherine Ortner)	Effects of Natural and Urban Settings on Emotion Regulation Strategy Used
Debra Andrews	Philosophy, History and Politics (Tina Block)	Curiosity and Connection: An Undergraduate Perspective on Community Research
Michelle Gunnlaugson	Geography (Gilles Viaud)	Urban Poverty: A Spatial Comparison between Canada and the US

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**Session C2:  
Global Solutions**

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**1:15 - 2:15 IB 1010**

Mike Wilson Derek Hanna Tiffany Rivette Rene Tardiff	Geography (Tom Waldichuk)	Canadian Construction Companies in Japan: Challenges and Rewards
Sophie Michaelsen	Natural Resource Science (Brian Heise)	The effects of Rotenone on Zooplankton and Benthic Invertebrates
Kai Liang	Interdisciplinary Studies (Kellee Caton)	Travelation: How Travel Contributes to Learning

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**Session C3:  
Feminist Perspectives**

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**1:15 - 2:15 IB 1015**

Ashley Berard	Sociology (Monica Sanchez-Flores)	The Promotion of a Feminine Culture in Business: Examining The Body Shop and its Core Values
Kendall Spooner	English and Modern Languages (Jan Duerden)	When Was Thin, In?: Examining the Thin Ideal and How It Coincides with the Rise of Feminism
Kathleen Kallhood	Interdisciplinary Studies (Gilles Viaud)	Feminist Urban Geography: Intersections of Feminism and Sustainable Urban Design

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**Session C4:  
Solving Real World Problems**

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**1:15 - 2:15 IB 1020**

Ryan Khungay	Social Work (Jennifer Murphy)	Barriers to Community and Social Reintegration for Criminal Offenders
Nathan Michaels	Biological Sciences (Cynthia Ross Friedman)	Fate Mapping Resident Glial Progenitor Cells in the Central Nervous System Following Spinal Cord Injury
Aliakber Khanbhai	Economics (Ehsan Latif)	Effects of Personal, Social and Environmental Factors on Physical Activity among Canadian Prime Working Age Population

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**Session C5:  
Better Understandings, Better Cities & Societies**

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**1:15 - 2:15 IB 1014**

Hardy Wooldridge	Geography (Gilles Viaud)	A Mosaic of Marxist Thought: An Examination and Review of David Harvey's Career
Felicia Girouard	Business (Ehsan Latif)	Student Motivations to Volunteer

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**Session D1:****2:30 - 3:30 IB 1008****Harm Reduction Across Disciplines**

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Taran Main	Chemistry (Kingsley Donkor)	Levels of Atorvastatin and Fenofibrate in Vitreous Fluid from Diabetic Patients
Miranda Dean	Philosophy, History and Politics (Robin Tapley)	The Societal Harms of Mainstream Pornography
Shelley Gentry	Philosophy, History and Politics (Anne Gagnon)	The Strengths and Weaknesses of the 1998 Good Friday (Belfast) Agreement

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**Session D2:****2:30 - 3:30 IB 1010****Young at Heart**

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Samantha Shandal	English and Modern Languages (Ginny Ratsoy)	Hannah Honeybee and the Marvelous Garden: A Modern Canadian Writer's Exploration of Ecological Responsibility and Literature
Spencer Morran	Education (Carol Rees)	Investigating the Effect of a Summer Science Camp on Elementary Children's Content Knowledge and Attitudes Towards Science
Kary Fell	Geography (Gilles Viaud)	Place of Youth in Urban Geography

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**Session D3:****2:30 - 3:30 IB 1015****Carcinogenic Colas, and Other Crimes**

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Zhi Chao Guo	Chemistry (Kingsley Donkor)	2- and 4(5)-Methylimidazole in Food Products by Capillary Electrophoresis
Alex Buckley	Computing Science (Andrew Park)	An Agent-Based Modeling and Simulation of Residential Burglary in the Urban Environment
Jessica Colman Krysta Dawson Courtney Teichroeb	Sociology (Camilla A. Sears)	Questioning Perceptions of Crime and Crime Causation: Observations from Undergraduate Research Assistants

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**Session D4:****2:30 - 3:30 IB 1020****Propelled From the Past**

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Lachlan Gonzales	Philosophy, History and Politics (Wilson Bell)	"I've got a bigger rocket" The Soviet Space Race in the Cold War
Reece Legault	Geography (Gilles Viaud)	New Urbanism: Can the Built Environment Change Social Attitudes?
Taylor Fry	Journalism, (Blair McDonald)	"Trust me, I'm the Doctor"

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**Refreshment Break****3:30 - 4:00 IB Foyer**

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**Session E1:  
Online Communities**

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**4:00 - 5:00 IB 1008**

Ashley Berard	Sociology (Meridith Burles)	Examining the Creation of an Online Discourse while Negotiating Chronic Illness
Martin McFarlane	Visual and Performing Arts (Terryl Atkins)	All Aboard the Karma Train! Internet Forum Culture
Nicolas Zdunich Kayla Price Katie Janicky	Journalism, Communication, and New Media (Blair McDonald)	Social Media Presentation

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**Session E2:  
Boosts and Highs**

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**4:00 - 5:00 IB 1010**

Tallon Milne	Chemistry (Heidi Huttunen-Hennelly & Kingsley Donkor)	Determination and Quantification of Taurine in Energy Drinks through Capillary Electrophoresis
Lisa Hodgson	Psychology (Catherine Ortner)	Optimism Boost: The Benefits of Optimism on Depression
Josiane Currer-Briggs	Interdisciplinary Studies (Mark Wallin)	Outward Bound to Inward Bound: Youth Identity Formation Through Outdoor Education

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**Session E3:**  
**Bridging the Arts and Sciences**

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**4:00 - 5:00 IB 1015**

Orri Greaves	Biological Sciences (Matthew Reudink)	Moult Conditions Influence Plumage Colouration and Breeding Dynamics in Bullock's Orioles ( <i>Icterus bullockii</i> )
Steve Shortt	Adventure Studies (Sharman Learie)	Reflective Journaling, Natural History and Creative Writing as Tools for Growth of an Ecological Identity
Andrew Cooper	Visual and Performing Arts (George Johnson)	One Day: a One-Act Play

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**Session E4:**  
**Beer, Green Tea and Raspberry Cordial**

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**4:00 - 5:00 IB 1020**

Cameron Opperman	Business (Ehsan Latif)	The Effect of Alcohol Consumption on GPA
Scott Borden	Chemistry (Kingsley Donkor)	Kinetics of Flavanoids and Polyphenols in Green Tea
Ariel Little	English and Modern Languages (Elizabeth Reimer)	The East Gable Room: The Theme of Compromise, not Conformity in <i>Anne of Green Gables</i>

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**Session E5:****4:00 - 5:00 IB 1014****Human and Environmental Factors in Community**

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Carly Lawrence

Geography  
(Gilles Viaud)The Invasion and Succession of the  
Human Ecological Influence in Urban  
GeographyRussell Thorsteinsson  
Simon Oliver  
Brittany RaschkeGeography  
(Tom Waldichuk)Canada's Role in the Diffusion of Ice  
Hockey in JapanGabriel Cote-  
ValiquetteInterdisciplinary  
Studies  
(Robert Hood)

Ajax and International Students

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

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**NOTES:**

Lined area for notes with horizontal ruling lines.