THOMPSON RIVERS UNIVERSITY | Research & Graduate Studies

Research Newsletter

Tapping into 50 years

As part of TRU's 50th anniversary celebrations, the Research Office and TRU Advancement have teamed up to launch Tap into Research, a series of events designed to bring research into the community with public academics providing dynamic mini-lectures in the relaxed tasting rooms and coffee houses of Kamloops, and we need YOU! Our goal is to host an event every two weeks at venues throughout the city, and we wish to fill the speaker list well in advance. **Please contact Danna Bach if you are interested in participating as a speaker. Research teams are also encouraged to present.**

Join us!
• **Tap into Research with Michael Mehta, Jan. 20, 7-8 pm, Iron Road Brewing**
• **Tap into Research with Jeff McLaughlin, Feb. 4, 7-8 pm, Red Collar Brewing Co.**

Knowledge & a night out. The perfect pairing.

TAP INTO RESEARCH

Submit Now! Worth 1000 Words research photo contest

Faculty and students (graduate and undergraduate) are encouraged to enter Worth 1000 Words. The research photo contest offers up multiple cash prizes, as well as the opportunity to have your work displayed in the community. *Worth 1000 Words* is a contest designed for researchers to share the discovery processes taking place in their labs, classrooms and studios, and is our way of celebrating the ground-breaking knowledge-making that is taking place at TRU.

Worth 1000 Words
RESEARCH IN PICTURES

Read more

NEW! Research funding list-serves

To better serve our researchers, we are launching three Research Funding Distribution Lists (or list-serves), which will allow us to communicate research-related funding opportunities in a timely fashion, as the trend is toward short turnaround time for application intake. The distribution lists include Science and Engineering, Social Sciences and Humanities, and Health Research. We aim to include all tripartite faculty on our mailing lists. **A test email will be sent Jan.13**. If you do not receive an email, or you wish to opt out of this list, please contact Alana Lemke, Divisional Assistant.

Undergraduate Research & Innovation Conference Call for Proposals

The Call for Proposals for the 15th annual TRU Undergraduate Research and Innovation Conference is now open. The conference runs March 27-28, and provides an opportunity for students from all disciplines to share their work, and to showcase the depth and breadth of undergraduate research at TRU. Work is typically presented as a poster or as a 15-minute lecture, but creative readings, small art installations and other creative outputs are also encouraged. **Submit your proposal before Feb. 3.**

Urgent deadlines

TRU Internal Research Fund

Deadline: Jan. 15
Value: $3,000-$5,000
These are small seed funds designed to scaffold faculty development. Completion of an IRF project should significantly widen the applicant's sphere of influence in terms of their research and/or teaching.

Rural/Regional/Remote Communities Collaborative Research Grant (R3C)

Deadline: Jan. 20
Value: $40,000
The Interior University Research Coalition has partnered to offer the R3C. The goal of this special call is to establish inter-institutional and inter-disciplinary research teams to address issues of importance in BC non-metropolitan regions. Rural and remote communities are experiencing economic, social, and environmental changes in profound and complex ways that are important to understand in supporting the healthy and sustainable development of our society, our economy and our environment.

Northcote & Brink Professorship — Call for Applications

Deadline: Jan. 30 (this is a 3-year appointment)

Value: $10,000 per year
This Professorship honours the contributions of Dr. Tom Northcote and Dr. Bert Brink to ecology in BC. The purpose of the Professorship is to "expand Thompson Rivers University's knowledge of the connection between restoration of ecosystems and the social benefits to communities." This is a prestigious internal award that may be held by a tenured or tenure-track faculty member.

Research Highlights

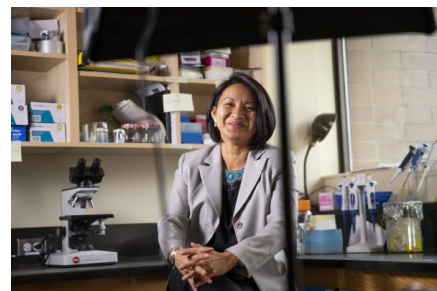### Bourque Bearskin awarded for research

Congratulations to **Dr. Lisa Bourque Bearskin** who was recognized by the Nurses and Nurse Practitioners of British Columbia (NNPBC) for Excellence in Advancing Nursing Knowledge and Research. The award was given out during a ceremony held in Vancouver in December. "The Nursing Awards of Excellence demonstrate the strength of the profession by showcasing nurses' exemplary work across all designations, domains of practice and sectors," said Michael Sandler, NNPBC Executive Director.

Open house showcases Technology Innovation Lab

BCLC's Technology Innovation Lab at Kamloops Innovation hosted an open house last month, drawing attention from local media. Recent research co-authored by **Dr. Laura Lamb** shows more tech entrepreneurs are choosing Kamloops as their home base, and this lab helps fuel the talent pipeline.The lab hosts TRU Co-Op students, providing them with hands on experience required for entry into the sector. At the open house, Pat Davis, BCLC Chief Information Officer, was joined by Nancy Bepple, TRU Co-Op Coordinator, and Lincoln Smith, Kamloops Innovation CEO and TRU's Director of Partnerships and Enterprise Creation.

The battle for the bats

Dr. Naowarat (Ann) Cheeptham and adjunct professor **Dr. Cori Lausen** lead a research team featured in a Telus Storyhive documentary on saving bats from the devastating White Nose Syndrome through the use of probiotics.

Read more

IH Patient Engagement in Research

Interior Health invites patient partners, caregivers, community members, care providers and health researchers to participate in a research project on patient engagement activity in research, system evaluation and quality improvement. For more information or to

participate in this project, please contact research@interiorhealth.ca.

Events

Philosophy, History, Politics (PHP) undergrad conference

When: Jan. 16-18
Where: Various locations across campus
Each January, undergraduate students from Canadian and American universities are invited to present their research papers at TRU. This event is one of the few undergraduate conferences in Canada that is organized by a committee of students, along with two faculty advisors..

Read more

Conversation Canada | A session with editor Scott White

When: Jan. 30, 9:30-11 am
Where: Mountain Room, CAC
The Office of Research and Graduate Studies welcomes Scott White, CEO and Editor-in-Chief of The Conversation Canada to campus for this interactive and engaging session. We invite all Conversation Canada authors to participate in this session, as well as those who are considering writing for this platform.
RSVP to Danna Bach, Research Communications

Startup Coffee | Caffeine & Entrepreneurial Conversations

When: Jan. 17, 1:30-2:30 pm
Where: Common Grounds, CAC
You don't need an idea to participate. Hear what others are working on and how to get involved in the entrepreneurial community on campus.

Read more

Startup Basics: Accounting

When: Jan. 30, 5:30-6:30 pm
Where: TRU Generator, Lower Level, HOL
Glean information from a local expert versed in startup accounting.

Read more

Startup Basics: Legal

When: Jan. 30, 6:30 - 7:30 pm
Where: TRU Generator, Lower Level, HOL
Start your business off on the right foot, legally speaking, with this helpful professional advice.

Read more

Excellence Award Nominations

Nominate a colleague or mentor!

Excellence in Research Scholarship

This award recognizes excellence in research, scholarship, or the production of creative works over a sustained period of time that represents a significant contribution to the field of inquiry. Award winners have an excellent publication record, will have successfully competed for external funds, and actively share their enthusiasm for new knowledge creation through the supervision of students, development of new courses, programs or teaching innovations.

Distinguished Scholar Award

This award recognizes the highest achievement in scholarship, achieved over a career. It recognizes TRU scholars whose research has had a significant impact, who have established an international reputation of excellence in research, scholarship, invention, or the production of creative works, who have made a significant contribution toward the training of highly qualified people through the mentorship and supervision of students, and who have enhanced the reputation of TRU through research.

Undergraduate/Graduate Research Mentor Awards

Undergraduate and graduate students are encouraged to nominate a faculty member for the Undergraduate Research Mentor Award, or the Graduate Research Mentor Award. These awards recognize excellence and are given to faculty who help students explore, inquire, and engage in new knowledge creation, and who provide meaningful guidance and support.

Submit complete nomination packages to research@tru.ca before Feb. 15

Funding Opportunities (external)

For information about upcoming external funding opportunities, visit the Funding Calendar
** Note: Deadlines noted below are EXTERNAL deadlines. To receive critical institutional approval and grant development support, please reach out to Anita Sharma or Megan Prins at least **two weeks prior** to the listed deadline.*

CIHR

Project Grants –Spring 2020

Deadlines: Registration, Feb. 5; Application, March 4
The Project Grant program is designed to capture ideas with the greatest potential for important advances in fundamental or applied health-related knowledge, health care, health systems, and/or health outcomes by supporting projects or programs of research proposed and conducted by individual researchers or groups of researchers in all areas of health. The best ideas may stem from new, incremental, innovative, and/or high-risk lines of inquiry or knowledge translation approaches.

SSHRC

Insight Development Grants

Deadline: Feb. 3
Value: $7,000 to $75,000
Insight Development Grants (IDG) enable the development of new research questions, as well as experimentation with new methods, theoretical approaches and/or ideas. IDGs foster research in its initial stages, but are not intended to support large-scale initiatives. Funding is available to both emerging and established scholars and 50% of the budget is reserved for emerging scholars.

Connection Grants

Deadlines: Feb. 1, May 1, Aug. 1, Nov. 1
Value: $7,000 - $25,000 for events and up to $50,000 for outreach activities
Connection Grants support events and outreach activities geared toward short-term, targeted knowledge mobilization initiatives. Events and outreach activities funded by a Connection Grant may often serve as a first step toward more comprehensive and longer-term projects potentially eligible for funding through other SSHRC funding opportunities listed in SSHRC's Funding search tool.

Partnership Engage Grants

Deadlines: March 15, June 15, Sept. 15
Value: $7,000 - $25,000
These grants respond to the objectives of the Insight and the Connection programs, and provide short-term support for partnered research activities that will inform decision-making at a single partner organization from the public, private or not-for-profit sector. These partnerships are meant to respond to immediate needs and time constraints facing organizations in non-academic sectors. SSHRC welcomes applications involving Aboriginal research, as well as those involving research-creation.

NSERC

Alliance Grants: Option 1- Phase 2 NOW OPEN

Deadlines: Ongoing
Value: $20,000 to $1 million per year
NSERC is pleased to announce the opening of the next phases of Alliance grants. Alliance grants are now open for Option 1 applications requesting over $30,000 annually from NSERC, and for applications requesting between $20,000 and $30,000, annually.

Option 2 applications requesting support for up to 90% or 100% of the costs of the project will be accepted in **early 2020**

Alliance grants encourage university researchers to collaborate with partner organizations, which can be from the private, public or not-for-profit sectors. These grants support research projects led by strong, complementary, collaborative teams that will generate new knowledge and accelerate the application of research results to create benefits for Canada.

> Alliance Grants: Option 1- Phase 1

Deadlines: Ongoing
Value: $150,000 to $1 million per year

*Please see **slide deck** from NSERC Research and Innovation Development Officer, Pam Giberson's presentation at TRU. And an Alliance Grant application **"Top Tips"** document.*

Government of Canada

Transport Canada – Rail Safety Improvement Program-Infrastructure, Technology and Research (RSIP-ITR) Funding

Deadline: Aug.1
Value: $500,000/1 year (% of federal funding shall not exceed 80% of expenditures)
Applicants Guide
The ITR component of the Rail Safety Improvement Program (RSIP) funds rail safety improvements that support measures to improve public safety at rail property and rail lines (both federally and provincially regulated). Funding is also available for research as well as testing and development of technologies that can enhance the safety of rail lines (both federally and provincially regulated).

Sustainable Development Goals Funding Program

Deadline: ongoing
Value: $100,000
In 2015, Canada and all other United Nations Member States, committed to implementing the 2030 Agenda for Sustainable Development, which set 17 Sustainable Development Goals (SDGs) to eliminate poverty, protect the planet and ensure prosperity by the year

2030. The SDG program supports projects aimed at building awareness of the 2030 Agenda, increase partnerships and networks, advance research, and further Canada's implementation of the 2030 Agenda.

Government of British Columbia

WorkSafeBC: Research Grant Competition Innovation at Work

Deadline: Feb. 14
Value: $50,000
Innovation at Work grants support small-scale research projects that lead to the development of practical solutions to address workplace health and safety issues. Research topics should align with WorkSafeBC research priorities.

Foundations

Michael Smith Foundation for Health Research - 2020 Innovation to Commercialization (I2C)

Deadlines: LOI : Jan. 27; full application: March 31
Value: Phase 1, $150,000/year; Phase 2, an additional two years of funding of up to $75,000/year contingent on successful renewal review and matching funding support from a non-BC government source
The Innovation to Commercialization (I2C) Program provides funding support to help BC health researchers advance their products or technologies towards practical application to improve health outcomes, benefit society, and enrich the health innovation ecosystem in BC through contributing to talent development and a strong, sustainable knowledge economy.

Vancouver Foundation: Develop and Convene Grants:

Deadline: Feb. 14
Value: $20,000
Develop grants are part of the Systems Change grant program. **Convene grants** are part of the Participatory Action Research grant program. Both are short-term grants of up to $20,000 for up to one year.

Vancouver Foundation: System Change: Test, Scale & Investigate grants

Deadline: Jan. 27
Value: $100,000
Systems Change grants support projects that take action to address the root causes of pressing social, environmental or cultural issues by influencing the behaviours of populations, organizations, and institutions. **Investigate grants** are Participatory Action Research grants. Participatory Action Research grants support research that is co-led by community members and researchers to learn more about the root causes of pressing issues impacting the health of communities.

Max Bell Foundation: Project Grants and Development Grants

Deadline: Ongoing
Value: $10,000-$200,000
Project Grants support clearly defined activities designed to achieve a specific objective that aligns with the Foundation's mission and criteria *and* that seek to support projects with a high likelihood of informing public policy and practice. Current program areas include: Health & Wellness, Education, the Environment. **Development Grants** support organizations who wish to undertake short-term (typically 4 month) work that will better position them to succeed with larger projects (e.g., environmental scanning, background research, project planning, proposal development etc.).

Spender Foundation Research Grants on Education: Small

Deadline: March 3
Value: $50,000
This program supports education research projects that will contribute to the improvement of education, broadly conceived. This program is "field-initiated" in that proposal submissions are not in response to a specific request for a particular research topic, discipline, design, method, or location. The goal for this program is to support rigorous, intellectually ambitious and technically sound research that is relevant to the most pressing questions and compelling opportunities in education.

Real Estate Foundation of BC: General Grant

Deadline: March 3
Value: $10,000-$50,000
REFBC grants supports research, public and professional education, policy analysis and law reform, other projects in the public or professional good. REFBC is interested in projects that support sustainable practices in: land use, built environment, fresh water, food lands, and the real estate profession.

Awards

1. **The CIHR Institute of Health Services and Policy Research (IHSPR)** is launching the 2020 competition of the **IHSPR Article of the Year Award**. Worth $12,000, this award is intended to recognize published research in a peer-reviewed journal that has significantly contributed to the advancement of the field of health services and policy research in Canada.
2. **Scholarships for Canadian academics, students and professionals: Canada-China Scholars' Exchange Program, 2020-2021:** Global Affairs Canada and the Chinese Ministry of Education are offering short-term scholarships to Canadians wishing to study abroad in China. Scholarships are awarded for studies, research, language studies or a combination of studies and language studies at participating Chinese institutions.
3. **CIHR – Undergraduate Summer Studentship Award:** The purpose of this funding

opportunity is to provide undergraduate students and health professional students with the opportunity to undertake health research projects with established investigators in an environment that provides strong mentorship.

Funding Opportunities (internal)

Research Coach

Deadline: Continuous intake
Value: Coaches are awarded a $1,500 scholarship
Research Coaches are awarded Research-Informed Learning Scholarships, giving them the opportunity to help instructors design a research project for a first- or second-year class and then provide guidance to students as they plan, research and then present their research projects via participation in the Undergraduate Research Conference. There are 30 scholarships available.

Funding Opportunities (students)

NSERC Undergraduate Student Research Award Program (USRA)

Deadline: Jan. 25
Value: $5,625

Note: NSERC recently made changes to this program. Supervisors are no longer required to hold an active grant, meaning any faculty member who is authorized to independently supervise a student is open to mentor. The student's research, however, must still sit within Natural Sciences and Engineering.
These awards are available to students in the natural sciences and engineering fields to engage in research over a 16-week period over the summer (May to August). These are competitive, federal awards. Before applying, discuss the opportunity with a faculty member with whom you would like to work.

Undergraduate Research Experience Award Program (UREAP)

Deadline: Feb. 28
Value: $6,000
The UREAP allows full-time students with at least 60 credits to get started in their own original research. It is a way to improve a resume, increase academic and professional success, and make your time in university more interesting and rewarding. Students seeking application assistance are encouraged to email studentresearch@tru.ca to be matched with an undergraduate research ambassador.

Undergraduate Astroparticle Physics Summer School

Deadline: Feb. 7

Organized by the Arthur B. McDonald Canadian Astroparticle Physics Research Institute and hosted by Queen's University and SNOLAB, this is a week-long undergraduate school that will introduce students to current topics in the field of astroparticle physics. This is a fantastic chance for students starting to consider graduate school options, or those with limited opportunities to learn from other institutes. The summer camp runs May 10-16, there is no registration fee, and meals and accommodations are provided, however, students will need to pay for transportation costs.

Knowledge Mobilization

Join the Experts List

The start of a semester is a great time to update your official Bio Page and join your colleagues on TRU's searchable Experts List. The list is a great resource, and can be used to mobilize your knowledge, build partnerships and attract graduate students. Complete this simple sign-up form to be added to the directory.

Research & Policy

Dr. Brian Heise authored a report presented to the Freshwater Fisheries Society of BC, the BC Ministry of Environment and Climate Change Strategy, and the Inter Ministry Invasive Species Working Group titled "A risk assessment of invasive goldfish (*Carassius auratus*) in British Columbia." This report provides insights for the provincial Early Detection, Rapid Response Program as it determines how to respond to goldfish infestations in BC.

Published books, chapters & articles

Clark, P., Chapleo, C., & Suomi, K. (2019). Branding higher education: An exploration of the role of internal branding on middle management in a university rebrand. *Tertiary Education and Management,* doi:10.1007/s11233-019-09054-9

Fraser, L. H. (2020). TRY—A plant trait database of databases. *Global Change Biology, 26*(1), 189-190. doi:10.1111/gcb.14869

Gharib, A., **Ejaz, W.**, & Ibnkahla, M. (2019). Enhanced multi-band multi-user cooperative spectrum sensing for distributed CRNs. *IEEE Transactions on Cognitive Communications and Networking, ,* 1. doi:10.1109/TCCN.2019.2953661

Kuntz, J. R., **Karl, J. M.**, Doan, J. B., Grohs, M., & Whishaw, I. Q. (2020). *Two types of memory-based (pantomime) reaches distinguished by gaze anchoring in reach-to-grasp tasks* doi:https://doi.org/10.1016/j.bbr.2019.112438

Naeem, M., **Ejaz, W.**, Iqbal, M., Iqbal, F., Anpalagan, A., & Rodrigues, Joel J. P. C. (2019).

Efficient scheduling of video camera sensor networks for IoT systems in smart cities. *Transactions on Emerging Telecommunications Technologies, n/a*, e3798. doi:10.1002/ett.3798

Nikku, B. R. (2019). Building disaster-resilient communities. In S. Todd, & J. Drolet (Eds.), *Community practice and social development in social work* (pp. 1-14). Singapore: Springer Singapore. doi:10.1007/978-981-13-1542-8_22-1 Retrieved from https://doi.org/10.1007/978-981-13-1542-8_22-1

Reid, D. (2020). Indigenizing and mentoring technology usage in undergraduate teacher education. *Handbook of research on literacy and digital technology integration in teacher education* (pp. 171-187). Hershey, PA, USA: IGI Global. doi:10.4018/978-1-7998-1461-0.ch010 Retrieved from http://services.igi-global.com/resolvedoi/resolve.aspx?doi=10.4018/978-1-7998-1461-0.ch010

Stokes, J., Bruce, V., & **Pawliuk, T.** (2019). Threshold concepts and the ontology of professional identity in human services curriculum design. (pp. 175-188). Leiden, The Netherlands: Brill | Sense. doi:https://doi.org/10.1163/9789004419971_012 Retrieved from https://brill.com/view/book/edcoll/9789004419971/BP000024.xml

Symes, S. A., Klafki, R., Packham, R., & **Larsen, K. W.** (2019). Winter activity patterns of the north american badger (taxidea taxus) at its northwestern periphery. *Journal of Mammalogy, ,* gyz171. doi:10.1093/jmammal/gyz171

Teixeira da Silva, Jaime A., Al-Khatib, A., & **Tsigaris, P.** (2019). Spam emails in academia: Issues and costs. *Scientometrics,* doi:10.1007/s11192-019-03315-5

Research news is always welcome. Please email research@tru.ca if you have news, events or accomplishments you'd like to share.