

RESEARCH Matters

This document is *INTERACTIVE*.
Links in **BLUE** are clickable!

Trent University, March 2021 Edition

The Office of Research & Innovation's monthly e-bulletin celebrates research at Trent University and provides service and funding opportunity information for researchers.



Dr. Cathy Bruce
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Dear Colleagues,

This month's Research Matters marks an important point of energy and momentum in the Office of Research and Innovation. We have a terrific newly formed team of Research Facilitators who will be supporting faculty with their research planning and proposals. We plan to introduce new professional development opportunities related to grant writing and tri-council research topics, a refreshed website for the ORI, and a grant incentive and support program later this spring and into the fall. Please stay tuned for announcements from the ORI on these developments. I continue to be amazed by the interesting and impactful research taking place by so many dedicated researchers at Trent U, and this is evidenced in Research Matters on a monthly basis. In fact, there is so much interesting research going on at Trent, it is hard to keep pace! To that end, if you have a research story you are willing to share with us, please do so. We aim to feature research stories in this publication but also on our upcoming new website.

With my best wishes for a warm spring and new growth,
Cathy

EDI ACTIONS IN THE ORI

Recognizing that equity, diversity and inclusion work is a long-term commitment, education and action process, the Research Matters newsletter will include periodic updates to the Trent Research Community on EDI actions related to research and the Office of Research and Innovation. Actions of the past three months include:

- Facilitator Team members completed EDI training through the Canadian Association of Research Administrators
- Trent Dimensions Charter Work Group initiated as part of EDI Subcommittee of TUFA/Trent Joint Committee begins meeting in March, 2021
- VPRI submitted an NSERC Grant Proposal focused on EDI supports for Trent University, in collaboration with the VP Academic and the VP Human Resources, January 2021
- OCUR EDI work group (which includes Trent's VPRI) presented a series of recommendations to the tri-council in February, 2021

Black in science: The legacy of racism in science and how Black scientists are moving the dial
Quirks and Quarks from CBC Radio



Racialized communities up against more than COVID-19



From the Office of **RESEARCH & INNOVATION**

TRENT'S NEW RESEARCH FACILITATOR TEAM

We are delighted to announce a new complement of Research Facilitators who have joined the Office of Research & Innovation. The research facilitation team will work collaboratively to support researchers at Trent and you can contact a Research Facilitator by emailing researchsupport@trentu.ca. Check out their biographies here!

Tara Flynn, M.Ed.

Tara has worked in the field of education research for the past 14 years. Over the last several years, as the Director of Research for the Trent Math Education Research Collaborative, Tara oversaw longitudinal studies involving hundreds of teachers, thousands of students, partnerships with other institutions (e.g., OISE), communities (e.g., Curve Lake First Nation) and 10 Ontario school boards. She has been directly involved in writing and editing successful grant applications in the amount of nearly \$900,000. Tara has published extensively and is co-author of two books including a methodology handbook on action research for educators.



Sean Lockwood, Ph.D.

Sean is a Classical archaeologist (BA, WLU; MA, McMaster; PhD, University of Cincinnati) who spent many years gaining practical research experience on multidisciplinary projects in Turkey. He also served as a faculty member in the Department of History at Boğaziçi University in Istanbul and in Ancient History and Classics at Trent University. Since 2015 he has been a research administrator, first at the University of New Brunswick, and more recently at Wilfrid Laurier University. At these institutions he has facilitated international research partnerships, overseen the day-to-day administration of a university research centre, and helped researchers raise and manage millions of dollars in funding from federal agencies.



Inna Seviaryna, Ph.D.

Inna holds M.Sc. degree in Biology and Ph.D. in Chemistry. She has worked for several years at the Institute for Diagnostic Imaging Research at the University of Windsor. Inna also has experience outside of the higher education space, having worked with the a hi-tech company in non-destructive evaluation and biomedical ultrasound. Inna has completed the Certificate in Research Administration through the Canadian Association of Research Administrators.



Announcements FROM THE ORI

Hello and happy March to the Trent University research community. The days are getting longer and research remains quite active at the university.

I am so excited to welcome our new Research Facilitation team to the Office of Research and Innovation. Tara Flynn, Sean Lockwood, and Inna Seviaryna bring a wealth and variety of experience and a unique depth of knowledge that will help us to enhance our research supports and services in both Peterborough and Durham. You can see our facilitation team featured in this issue of Research Matters.

I am also happy to share that we have launched a suite of direct email addresses to support communications with the research community. I invite you to use these addresses to reach out to us with all of your research questions. Look for our direct email addresses in this issue of Research Matters. Thank you for reading this issue. I look forward to continuing to support research at Trent.

*All the best,
Christopher Rooney*



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NEW! Direct email accounts for your research inquiries

To help researchers with their questions the Office of Research & Innovation is now using centralized email addresses for communications. The ORI team invites researchers to use these email addresses for research related questions and support.

Research Personnel Forms | research@trentu.ca

Research Programs | researchprograms@trentu.ca
CRC, MITACS, internal grants and awards

Certifications & Compliance | researchintegrity@trentu.ca
REB, ACC, RPC

Research Facilitators | researchsupport@trentu.ca
Grant applications, pre-award questions, agreements, eligibility

SSHRC Adjudication Committee Meetings

Due to the ongoing COVID-19 pandemic, SSHRC has investigated alternate approaches for holding adjudication committee meetings to respect travel restrictions and social distancing measures. As a result, all remaining SSHRC adjudication meetings for fiscal year 2020-21 will be held remotely by video-conference rather than as traditional, in-person meetings.

The actual peer review methodology will not change, and SSHRC has returned to its regular, pre-COVID processes for providing feedback to applicants. SSHRC awards funding through a rigorous and independent merit review process accessible to all disciplines, areas and approaches in the social sciences and humanities. This **independent external merit review** process adheres to internationally recognized best practices as the fairest, transparent and most effective way to allocate public research funds. If the COVID pandemic situation continues beyond the end of this fiscal year, the same approach may be used for funding opportunities to follow in 2021-22. For inquiries contact, Research grants: research@sshrc-crsh.gc.ca and Partnership grants: partnerships@sshrc-crsh.gc.ca

Announcements FROM THE ORI *continued*

SSHRC Partnership Engage Grant awards almost \$50k to Trent research

Marina Morgenshtern with Co-Applicants: **Dalon Taylor (Trent)** & **Gabriela Novotna (McMaster)** partnering with Sarah Hickman in the Regional Municipality of Durham, "Empowerment and Exclusion in Immigrant Experiences of Securing Professional Employment in the Region of Durham" for \$24,925

Dr. Whitney Lackenbauer with Co-Applicants: **Christopher Furgal (Trent)**, **Mark Stoller (Trent)** and Peter Kikkert (St. Francis Xavier University) Partnering with the 1st Canadian Ranger Patrol Group, Yellowknife, NT on "Youth Resilience and Community Resilience in Canada's Northern Territories: Measuring the Success of the Junior Canadian Rangers" for \$25,000



Graham D. Raby, Assistant Professor, Biology and his co-investigators granted almost \$300k from the GREAT LAKES FISHERY COMMISSION for "Solving and applying the bioenergetics equation for walleye"

Dr. Raby and his team aim to develop and apply bioenergetics models for walleye *Sander vitreus* via new empirical data, harnessing the full potential of GLATOS by using transmitters that measure temperature and activity levels, and marrying the telemetry data with experiments using modern respirometry techniques to generate more accurate data on metabolic rate. The work will build on a GLFC pilot project focused on refining respirometry methods for walleye. The project will test hypotheses about the drivers of migratory behaviours, the proximate causes of sexual size dimorphism, differences in growth among populations, and the effects of climate variability and warming (including winters) on walleye growth and reproductive output. The research work will take place between September 1, 2021 to August 30, 2025... congratulations to Dr. Raby and his co-investigators!



Hats off to Dr. Doug Evans, Professor Emeritus and Director, International Institute for Environmental Studies – Jiangsu Province award!

Dr. Doug Evans is the recipient of a 2021 Jiangsu Province International Science and Technology Cooperation Award. The Jiangsu provincial government in China every year assigns official awards to individual or entities that have achieved outstanding scientific or technology results in certain areas, and which have significantly contributed to the local socio-economic development and innovation ecosystem. Dr. Evans recognizes the significant efforts of the entire IIES organization to foster international cooperation with many Chinese organizations, and especially with Nanjing University, in receiving this prestigious award. It is the highest honour for an international recipient in Jiangsu Province to receive this award.

The award was announced on January 22 at the opening of the International Institute for Environmental Studies annual workshop. Please read more about the Institute, an original Trent University-Nanjing University partnership here www.ii-es.com

Announcements FROM THE ORI *continued*

Cleantech Commons NEW Partnership!

Our colleagues at Cleantech Commons recently signed a Memorandum of Understanding (MOU) with Bioenterprise, Canada's Food & Agri-Tech Engine, that will enable the two organizations to join forces in advancing clean technology innovations. Cleantech Commons executive director, Martin Yuill, told us that the partnership with Bioenterprise will provide enhanced business acceleration services to tenants of the university research park. "It will support the development of technologies designed to move us all closer to a net-zero future and generate sustainable, high-value cleantech jobs," Yuill says. Cleantech Commons will be home to start-ups, spinouts, and early-stage companies focused on clean, green, low carbon, and sustainable technologies.

It will provide student, faculty and research innovators and entrepreneurs with access to a range of value-added services, business support, mentorship, and professional advisory networks and services to help move their innovations through to commercialization.



Bioenterprise is Canada's Food & Agri-Tech Engine, bringing more than 15 years of industry experience and a national and international network of research institutions, academia, mentors and experts, government, and

industry to help small and medium-sized businesses in the agri-tech sector nationwide "Connect, Innovate, and Grow". Cleantech Commons' new partnership with Bioenterprise will make their agriculture and food expertise, national networks, and mentorship framework available to Cleantech Commons clients. Both organizations will also benefit from being able to access provincial and national funding opportunities through joint proposals that support innovation.

Click here to read the [Full Story](#).

Collaborative Research Consortium Program (CRCP) – An EaRTH Initiative

Centennial College, Ontario Tech University, Trent University and the University of Toronto Scarborough are pleased to announce the launch of the Collaborative Research Consortium Program (CRCP), an exciting new research opportunity. The overall aim of the Program is to provide initial seed funding for the development of high-quality collaborative research projects in areas of mutual strength and shared interest that advance the Environmental and Related Technologies Hub (EaRTH) Initiative. This seed funding is available for faculty/staff at the participating institutions to undertake short-term visits to initiate, deepen and extend collaborative research links with the goal of enabling principal investigators to make joint proposals to external funding sources for the next phase of their research. The theme for the 2021 year is Integrated Sustainable Energy Technologies.

Eligibility A proposal must involve a team of participants that includes at least one representative from each of the four collaborating institutions. The funding envelope comprises CAD\$50,000 per project, with up to three (3) projects selected for a funding period of one (1) year.

Timeline	
March 15, 2021	Deadline for submission of LOI
May 15, 2021	Deadline for submission of proposal
Early July 2021	Communication of results to applicants
From August 2021	Project start date

More information, including [the detailed program guidelines can be found here](#).



TRI-AGENCY FUNDING ANNOUNCEMENTS & OPPORTUNITIES *Important Dates*

HANDY TOOL! The Integrated Calendar for Tri-Agency & Interagency Funding Opportunities

Canada's federal research funding agencies—the Canadian Institutes of Health Research (CIHR), the Natural Sciences and Engineering Research Council (NSERC) and the Social Sciences and Humanities Research Council (SSHRC)—together with the Canada Foundation for Innovation (CFI), offer a wide-range of funding opportunities for researchers postdoctoral fellows, graduate students and research institutions.

The integrated calendar lists the principal funding opportunities offered by the four agencies, including agency-specific programs and ones that are jointly administered. The table includes links to the related program web page for more information on each opportunity. The Search tool and filters can be used to quickly return results of specific interest, such as agency-specific or interagency programs with upcoming deadlines.

The calendar link is available here: [Tri-Agency and interagency funding opportunities](#)

Upcoming Internal Opportunities due dates

VP, Research & Innovation Strategic Initiatives Fund | *Due March 15*

The Vice President Research & Innovation Strategic Initiatives Fund welcomes requests from all Trent faculty, research organizations, graduate and undergraduate student groups engaged in research, and university staff working within the research enterprise. Funds are directed towards research activities for which other sources of funding are not available. Requests from academic or administrative departments are not eligible to receive support from this fund.

Upcoming External Opportunities due dates

SSHRC Partnership Engage Grant | *Due March 15*

These grants provide short-term and timely support for partnered research activities that will inform decision-making at a single partner organization from the public, private or not-for-profit sector. The small-scale, stakeholder-driven partnerships supported through Partnership Engage Grants are meant to respond to immediate needs and time constraints facing organizations in non-academic sectors. In addressing an organization-specific need, challenge and/or opportunity, these partnerships let non-academic organizations and postsecondary researchers access each other's unique knowledge, expertise and capabilities on topics of mutual interest.

SSHRC welcomes applications involving **Indigenous research**, as well as those involving **research-creation**. For tools and resources to assist in the planning and implementation of your partnership, see SSHRC's **Partnerships Tool-Kit**.

NSERC Herzberg, Brockhouse, Polanyi and Strickland prizes

NSERC nominations are now being accepted for the Herzberg, Brockhouse, Polanyi and Strickland prizes. The nomination deadline for all four prizes is April 1, 2021.

NSERC has established these prizes to recognize and celebrate exceptional research. Specific awards focus on accomplishments that range from interdisciplinary accomplishments to lifetime achievements and influence.

A diverse range of top researchers or teams as candidates for the following prizes are encouraged and the Office of Research & Innovation will work with you on the application:

- The **Gerhard Herzberg Canada Gold Medal for Science and Engineering** is awarded annually for both the sustained excellence and overall influence of research work conducted in Canada in the natural sciences or engineering.
- The **NSERC John C. Polanyi Award** honours an individual or team whose Canadian-based research has led to a recent outstanding advance in the natural sciences or engineering. *(continued on p.7)*

TRI-AGENCY FUNDING ANNOUNCEMENTS & OPPORTUNITIES

Important Dates

- The **Brockhouse Canada Prize for Interdisciplinary Research in Science and Engineering** recognizes outstanding Canadian teams from different disciplines who came together to engage in research drawing on their combined knowledge and skills, and produced a record of excellent achievements in the natural sciences and engineering in the last six years.
- Newly announced in 2020, the **NSERC Donna Strickland Prize for Societal Impact of Natural Sciences and Engineering Research** honours an individual or team whose research in Canada has led to exceptional benefits for Canadians.

Mitacs-SOSCIP Cleantech Call

SOSCIP and Mitacs have partnered to launch a new initiative to support Ontario-based cleantech companies that are adopting AI & data science to boost their competitiveness. www.soscip.org/cleantech

For a limited time, SOSCIP is waiving the Project Access Fee for all new cleantech-related projects involving an Ontario-based industry/non-profit partner and a SOSCIP academic member institution. This opportunity is open to all research disciplines requiring computing support. Through a joint application, streamlined project funding is provided through the Mitacs Accelerate program. The application **deadline is March 31, 2021**.

Project Eligibility

- Projects involve an academic researcher and an Ontario-based industry/non-profit partner
- SOSCIP will waive project fees to our **Cloud Analytics**, Accelerated **GPU or Parallel-CPU** platforms
- Project funding is available through the Mitacs programs starting at \$15K
- Typical target industry sectors include agriculture, auto, nuclear, construction, transportation, oil & gas, manufacturing and mining.
- SOSCIP technical support team to provide individualized support from project implementation and ongoing during the project
- Collaborative projects can span 6-18 months
- Apply by **March 31st, 2021**
- For more information, please contact lyu@mitacs.ca

Bell Let's Talk-Brain Canada Mental Health Research Program

Objective: Supports novel and transformative research that will accelerate the integration of emerging scientific knowledge into developing and improving mental health care. The ultimate goal is the development of innovative solutions to ensure effective, sustainable, and accessible mental health care for all Canadians.

Funding: This program will award grants of up to \$950,000 each, over three years to 4 Canadian research teams. Interested teams are required to submit an LOI by March 16, 2021. Following peer reviews, selected teams will be invited to proceed to the Full Application stage with deadline of July 6, 2021.

Eligibility: The funding opportunity is open to teams of two or more independent investigators from different institutions, or distinct research groups within the same institution. Teams must include at least one member with expertise in integrated Knowledge Translation. Depending on the nature of the research project, teams should include one or more of the following as collaborators: People with Lived Experience (PWLE), carers, allied-health workers, and/or health administrators.

Please refer to the [Request for Applications](#) for additional details.

In Case You Missed it!

AMAZING TRENT RESEARCH STORIES IN THE NEWS!

Dr. Naomi Nichols, Associate professor in Sociology at Trent and Canada research chair in Community-Partnered Social Justice

Understanding Local Perspectives on COVID-19 Vaccination
Partnership between Trent University and Peterborough Public Health provides hands-on research opportunities for students



 [READ TRENT STORY](#)



DR. Neil Fournier, Psychology – CBC RADIO

What To Do When Stress Grips Your Vices
Psychology professor Dr. Neil Fournier weighs in on the psychology of our bad habits and how the pandemic has us reaching for sweeter moments

 [READ TRENT STORY](#)

 [READ CBC STORY](#)

**Featuring the Flying Squirrel Project at Trent University
CBC TV**

Wild Canadian Weather – Cold | Nature of Things
Offering remarkable stories of danger and beauty from all across the country, this is cold weather as you've never experienced it before.

 [WATCH EPISODE](#)



**Dr. Carlyle Smith, a professor emeritus of psychology
DISCOVER MAGAZINE**

Can a Dream Warn You About Cancer?

 [READ STORY](#)

In Case You Missed it!

AMAZING TRENT RESEARCH STORIES IN THE NEWS!

Dr. Kelly McGuire, chair of Gender & Social Justice

'Beyond Gender': Trent Expert Explores Why Women May be More Hesitant about the COVID-19 Vaccine



[READ TRENT STORY](#)



Trent Cultural Studies professor and CRC Dr. Anne Pasek

How Deep is the Internet's Carbon Footprint?

A group of international researchers, including Trent's Dr. Anne Pasek, is embarking on a project to determine the carbon footprint of the Internet, thanks to a \$200,000 USD grant by the Internet Society.



[READ TRENT STORY](#)

Psychology Research Emphasizes the Need for Supports for LGBTQ+ Youth Amidst the Pandemic

M.Sc. Psychology student Bre O'Handley in collaboration with Dr. Karen Blair, professor of Psychology, and the Social Relations, Attitudes and Diversity Lab at Trent University.



[READ STORY](#)

RESEARCH ETHICS BOARD 2020-21 SCHEDULE

A reminder that all faculty researchers and students must take the **online tutorial** for Human Ethics basic research prior to submitting applications to the Research Ethics Board. Applications must include the tutorial certificate.

Submissions for the Review Due Dates

March 22, 2021
 April 26, 2021
 May 24, 2021

Meeting Dates 2020-2021: 10 am-12 pm

April 21, 2021
 May 19, 2021
 June 23, 2021

ANIMAL CARE COMMITTEE 2020-21 SCHEDULE

Submissions for the Review Due Dates

March 17, 2021
 April 14, 2021
 May 19, 2021

Meeting Dates 2020-2021

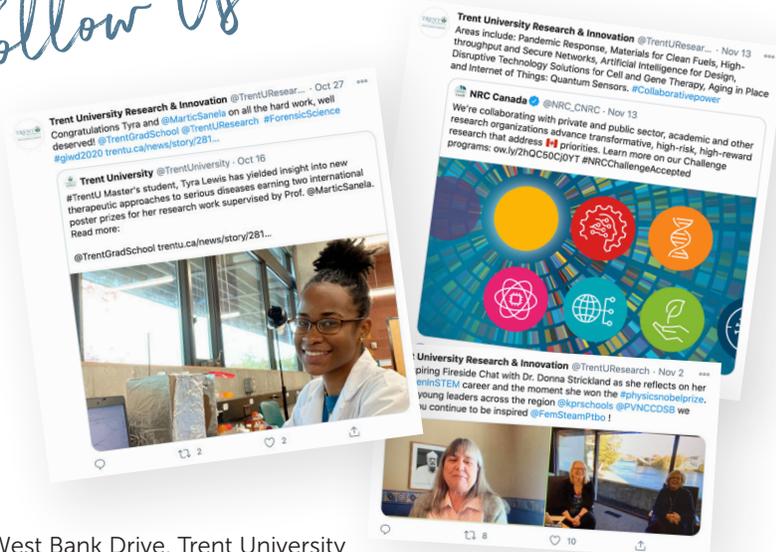
April 9, 2021
 May 14, 2021
 June 11, 2021

For general questions or for further information about the Research Ethics Board or the Animal Care Committee, please contact researchintegrity@trentu.ca.

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