

REPORT ON RESEARCH EXCELLENCE

2023



*Emperor penguin
adult with chick
(Aptenodytes forsteri),
Snow Hill, Antarctica*

AN EXTRAORDINARY FORCE FOR CHANGE

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It is my pleasure to share with you Trent University's 2023 Report on Research Excellence, our yearly report of the incredible research, innovation, and discoveries of our researcher community, and a testament to the impact and the force of Trent research on a local to global scale.

2023 signaled the year in which Trent University's new Strategic Research Plan was released. The 2023-2028 Strategic Research Plan was developed through extensive consultation to provide direction and

support for the intensification of research activity and impact at Trent. The plan is grounded in a commitment to an interconnected research ecosystem with six research priority areas – Student Engagement with Research; Enhanced Communication of Research; Faculty Support & Mentorship; Research Funding & Partnerships; Research Leadership; and, Research Collaboration. I hope that these priorities will help to underpin the growth and integrity of Trent University's research activity in the years ahead.

In 2023, I am very excited to report that we saw significant increases in grant application funding and application success rates at Trent. Trent researchers and the ORI also expanded our commitment to research beyond Trent's campuses through broader partnerships and collaborations. And in a related noteworthy feature, Trent has been ranked in the Research Infosource Winners' Circle for University Research Partnerships & Collaborations.

From research collaborations with industry, colleges and universities, and with government partners, to responsive community-based research projects – research is thriving at Trent University.

I invite you to peruse the pages of our 2023 annual report, as we share highlights of the extraordinary research endeavours of Trent University faculty, students, and research centres, who are generating new knowledge, solidifying Trent's commitment to research excellence, and unleashing our spirit of innovation.

A handwritten signature in black ink that reads "Cathy Bruce". The signature is fluid and cursive, written in a professional style.

DR. CATHY BRUCE
Vice-President, Research & Innovation

TRENT'S RESEARCH AWARD WINNERS



2023 DISTINGUISHED RESEARCH AWARD

Dr. Hugh Elton, Ancient Greek & Roman Studies

Highest honour conferred on Trent faculty for research and scholarly activity

As an internationally renowned scholar, **Dr. Hugh Elton** is a leading expert in Roman military history and the political and cultural history of the Late Roman Empire. Throughout his career, Prof. Elton has been a prolific researcher, with an incredible publication record. Through his research focused on the Eastern Frontier (cultural and political boundary covering a large part of Central Asia), Prof. Elton has contributed extensively to our knowledge of the development and impact of the Empire Frontier in the area we now know as Türkiye.

EARLY CAREER RESEARCHER AWARDS

Dr. Jenn Cole, Chanie Wenjack School for Indigenous Studies, and Gender & Social Justice

Dr. Kimberly Ritchie, Trent/Fleming School of Nursing

Recognizing promising, early career Trent University researchers



Dr. Jenn Cole's work – focused on Indigenous performance and gender and community engagement – has led to a unique combination of artistic expression and academic outputs. Prof. Cole has an extensive publication record, including a peer-reviewed monograph, peer-reviewed journal articles, and a list of widely accessible articles and creative works crafted for the community.



A leading expert in mental health, trauma, aging, and healthcare work, **Dr. Kimberly Ritchie's** extensive research program spans supporting trauma-informed organizational practices for healthcare workers with support from a Canadian Institutes of Health Research grant. She is also the principal investigator on a project studying the mental health and well-being of veterans.

RESEARCH IMPACT AWARD

Dr. Finis Dunaway

Celebrating researchers stewarding original and impactful research



Award-winning author, and acclaimed historian, **Dr. Finis Dunaway** is renowned for his work setting a new standard in establishing visual analysis as an important aspect of environmental history. An author of three books, Prof. Dunaway is recognized for his original approach to publication of research – reaching a considerably larger audience than traditional academic publications and amplifying the impact of environmental history.

SPOTLIGHT ON FACULTY RESEARCH



The Art of Evidence Based Storytelling

As a National Geographic Society explorer and storyteller, Trent's **Dr. Neil Osborne** – a professor in the School of the Environment – has had his photography featured in *National Geographic* and the *Smithsonian Magazine*. Through his work, Prof. Osborne showcases ecological marvels and works to bridge the gap between storytelling and climate change science. Through his creative approach to knowledge mobilization, Prof. Osborne seeks to bear witness to the consequences of global warming through the power of photography.

Prof. Osborne's incredible images, including the image on the cover of this report, create an opportunity to showcase complex problems faced by society, such as the urgency of the climate crisis, to a broader audience, including his students, fostering real-world connections as part of environmental communication.

Photo credit © Neil Ever Osborne/
www.neileverosborne.com

Toward Disability and Migrant Justice in Home Care



Dr. Mary Jean Hande, assistant professor of Sociology, has a particular interest in home care provided by immigrant care workers. With support from a Social Sciences and Humanities Research Council (SSHRC) Partnership Engage Grant, Professor Hande is implementing a research project utilizing a community-based, community-

driven process that will help direct changes to the home care system. Through a partnership with the Disability Justice Network of Ontario (DJNO) and Trent University's Canada Research Chair Dr. Bharati Sethi, Prof. Hande and her research team have ambition to build a pilot home care model with the intent to showcase what a system meeting the needs of immigrant home care workers and low-income disabled and older people could look like.

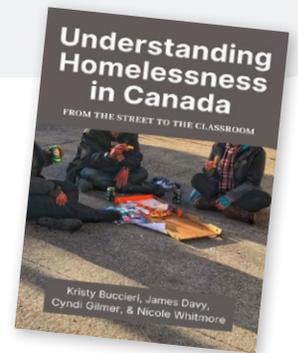


Learn more

Trent's researchers are advancing knowledge and innovation

Innovative "Talking Textbook" Wins Awards

A celebrated Trent online educational resource, *Understanding Homelessness in Canada: From the Street to the Classroom*, received awards from both the Online Learning Consortium and the Open Education Awards for Excellence for its innovative approach to educating a new generation of students about homelessness. A collaborative project involving individuals with lived experience of homelessness and key members of the research team, including **Dr. Kristy Buccieri** and **Dr. Cyndi Gilmer**, as well as expertise from Trent Online, the multidimensional approach ensures learners can choose a format that suits their preferences and learning styles.





Can Wollastonite Revolutionize Agriculture?

While wollastonite, composed of calcium and magnesium silicates, has already been used as an agricultural amendment to enrich soil nutrients and promote plant growth, School of the Environment professor and Canada Research Chair, **Dr. Ian Power** is leading a study to uncover its untapped potential to combat climate change and revolutionize agriculture. Prof. Power's study aims to sequester carbon dioxide (CO₂) by applying wollastonite rock to agricultural fields, utilizing the Trent Research Farm as an ideal place to study wollastonite's potential. Supported by Trent University graduate and undergraduate students, this innovative research seeks to discover a novel method for mitigating greenhouse gas emissions, while also enhancing soil health and crop production.

Illuminating the Path of Innovative Research through SSHRC's Ideas Lab

Pilot Program Breaks Down Disciplinary Boundaries

Dr. Bharati Sethi, a distinguished researcher and Canada Research Chair in Care Work, Ethnicity, Race and Aging, was selected to participate in the first stage of a new initiative, the Imagining Canada's Future (ICF) Ideas Lab. The Ideas Lab, led by the Social Sciences and Humanities Research Council (SSHRC) of Canada, is a program to create research partnerships and projects, transcending disciplinary boundaries, sparking fresh research approaches, nurturing knowledge exchange, and setting the stage for future interdisciplinary ventures. Stemming from her passion for forging connections across diverse boundaries, Prof. Sethi sees the Ideas Lab as an opportunity to leverage work across traditional boundaries to tackle the complex challenges we face in our modern world. Under the theme of *Global Health and Wellness for the 21st Century*, a current initiative of the Ideas Lab underscores the notion that no single area of research can result in comprehensive solutions to these complex situations.





Bringing History to Life

On a mission to meticulously map the diverse array of structures that grace the grounds of Ka'kabish, an ancient Maya city in north-central Belize, **Dr. Helen Haines**, Trent University Durham GTA Anthropology professor, and her team of students have achieved outstanding results, revealing the existence of over 100 buildings organized into 12 distinct groups. This discovery paints a vivid picture of Ka'kabish as a thriving metropolis that flourished for over two millennia – a testament to its significance in ancient Maya civilization.

What Can Polar Bears Tell Us About Climate Change?



Dr. Paul Szpak, Canada Research Chair in Environmental Archaeology and director of the Trent Environmental Archaeology Lab and Water Quality Centre, is co-leading an international collaboration study with researchers from 11 institutions exploring how shifts

in the environment in the last 20,000 years have impacted Arctic polar bear populations. Drawing on a wealth of data, including an impressive collection of polar bear skulls (some as old as 200 years), the research paints a holistic picture of polar bear evolution and its correlation with climate dynamics – offering insight into how these animals adapt to environmental changes while also serving as a warning about the potential harm climate change can have on their future.



Enhancing Canada's Care System for Indigenous Children

Trent Durham GTA Child and Youth Studies course instructor **Landy Anderson's** newly published book, *The Foster Parent Survival Guide: How to Care for a Traumatized Child*, brings an authentic, powerful, and informed approach to best supporting Indigenous children in the foster care system, emphasizing the importance of maintaining their cultural connection through their placement family. With a deep passion for this area of care, Prof. Anderson's work advocates for a transformative approach to the foster care system – one that fosters healing and rejects complacency.

SPOTLIGHT ON STUDENT RESEARCH



Trent Graduate Research Predicts Extinction of a Population of At-Risk Turtles

Despite current conservation measures, research from **Dr. Anne-Christine Auge**, Trent University Environment & Life Sciences Ph.D. graduate, predicts that a population of Blanding's turtles in Kanata, Ontario could be extinct within the next ten years if conditions don't improve. Dr. Auge studied the at-risk population of turtles during her degree, tracking them over four summers to determine population size, survival, movements, and juvenile recruitment in an area of intensive development. Comparing her research with findings from a research team studying in the early

2010s, Dr. Auge found that the turtle population had declined significantly in the last decade.

The study, a collaboration between Dr. Auge, **Dr. Dennis Murray**, Canada Research Chair in Integrative Wildlife Conservation at Trent, as well as University of Ottawa and University of Winnipeg researchers, was recently published in *Animal Conservation* and is expected to add a significant contribution to the field of conservation biology.

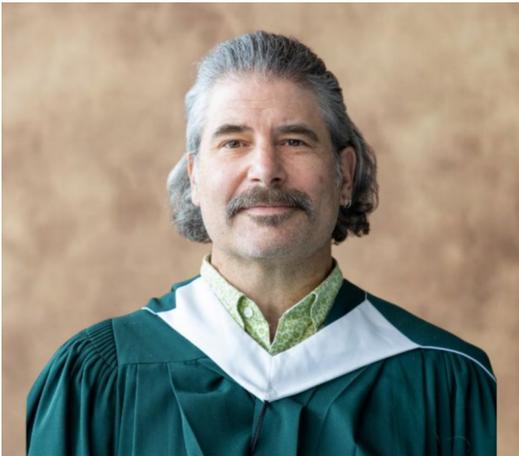
Filling Demographic Gaps in Mental Health Research

Studying in Trent's Psychology Ph.D. program and working with supervisor **Dr. James Parker** in the Emotion and Health Research Laboratory – supported through funding by the Canada Foundation for Innovation (CFI) in 2001 with a mandate to extend current knowledge about emotion and health – **Colin Henning** is working to build knowledge about adults through ADHD and emotional intelligence research. Identifying that most research on emotional intelligence has been focused on people between the ages of 18 to 25, his work investigates whether emotional intelligence predicts relationship satisfaction for the lesser studied cohort of older adults.



Read more

News stories about the research being conducted at Trent



Major Research Project Leads to Award-Winning Success

After a career in the arts, media, and travel, **David Newland** engaged in a different kind of exploration of Canada, completing an M.A. in English (Public Texts) and achieving award-winning success in his academic journey at Trent University. While earning his graduate degree, his major research paper titled “*Paper Nation: Conceiving Canada in the Confederation Day Globe.*” was honoured with the Canadian Studies Network award for best M.A. paper. Now a Ph.D. student in Trent’s Canadian Studies program, studying alongside supervisors **Professor David Newhouse**, director of the Chanie Wenjack School for Indigenous Studies, and **Dr. Heather Nicol**, director of the School for the Study of Canada, his research will explore the important topic of settler place-making in Indigenous territory.



Ph.D. Student Among 100 Global Women in Polar Science

Trent Ph.D. student **Alexandra Derian** has been featured as one of 100 Women in Polar Science by Women in Polar Science (WiPS), a global initiative that aims to elevate the profile of female scientists working in polar research. As a student in the Environmental & Life Sciences Ph.D. program at Trent, with **Dr. Paul Szpak**, Derian’s research examines Arctic fox diet and ecology in response to Inuit and Paleo-Inuit hunting practices over the past 2,000

years. Integrating historical perspectives, ecological considerations, and the impacts of climate change on Arctic fox populations, her research analyzes stable isotopes in animal bones to reconstruct the diets of ancient communities – providing insights into the subsistence strategies and resource utilization of past populations by understanding what types of food were consumed by the animals.

SHOWCASING RESEARCH EXCELLENCE

RECOGNIZING TRENT'S EXCEPTIONAL RESEARCHERS

Trent Researchers Appointed to Royal Society of Canada



Trent professors **Dr. Antonio Cazorla-Sánchez** and **Dr. Andrew Tanentzap** were honoured with one of the highest academic distinctions available

to scholars, artists, and scientists in the country with appointments to the Royal Society of Canada. Recognized for his impactful contribution to historical research and scholarship, Dr. Cazorla-Sánchez was elected by his peers as a Fellow of the Royal Society of Canada. Dr. Tanentzap, internationally recognized researcher and Canada Research in Chair Climate Change and Northern Ecosystems, joins the 2024 class as a member of the College of the Royal Society of Canada.

Distinguished Career Award Honours Dr. Cheryl McKenna Neuman



Recognizing decades of internationally acclaimed research, the International Society of Aeolian Research (ISAR) awarded **Dr. Cheryl McKenna Neuman** their Distinguished Career Award. A renowned expert in aeolian science, Prof. McKenna

Neuman's significant contributions include the design and operation of the Trent Environmental Wind Tunnel – which simulates the aeolian transport processes and allows for the study of the physics of particle motion, wind erosion, dust emission, air quality, and climate effects at this world-class research facility.

Trent Philosophy Professor Receives International Recognition



Dr. Kathryn Norlock, professor of Philosophy and Trent University's Kenneth Mark Drain Chair in Ethics, was named Eastern Society for Women in Philosophy's 2022 Distinguished Philosopher. The prestigious award honours Professor

Norlock's work in advancing accessible and high-quality feminist philosophical scholarship. Prof. Norlock's immense contributions include founding and co-editing of *Feminist Philosophy Quarterly*, which through support by Social Sciences and Humanities Research Council of Canada (SSHRC) Aid for Scholarly Journals funding, has been able to continue provide the online, peer-reviewed journal at no cost to authors or readers.

Dr. Momin Rahman Receives ISA LGBTQA Caucus Eminent Scholar Award



Recognized for exceptional research, remarkable mentorship, and impactful contributions to Muslim LGBTQIA+ politics, sexualities, and queer citizenship, Trent sociology professor, **Dr. Momin Rahman** was honoured with the 2023 International

Studies Association (ISA) LGBTQA Caucus Eminent Scholar Award. Prof. Rahman's leading scholarship on the understudied intersection of queer and Muslim populations has resulting in significant contributions to the global progress of LGBTQ rights.

Expanding our Canada Research Chairs Program

In 2023 Trent University initiated a search for a new Tier 2 SSHRC Canada Research Chair

Dr. May Chazan, Tier 2 Canada Research Chair in Feminist and Gender Studies

Dr. Whitney Lackenbauer, Tier 1 Canada Research Chair in the Study of the Canadian North

Dr. Dennis Murray, Tier 1 Canada Research Chair in Integrative Wildlife Conservation

Dr. Naomi Nichols, Tier 2 Canada Research Chair in Community-Partnered Social Justice

Dr. Anne Pasek, Tier 2 Canada Research Chair in Media, Culture and the Environment

Dr. Ian Power, Tier 2 Canada Research Chair in Environmental Geosciences

Dr. Bharati Sethi, Tier 2 Canada Research Chair in Care Work, Ethnicity, Race and Aging

Dr. Paul Szpak, Tier 2 Canada Research Chair in Environmental Archaeology

Dr. Andrew Tanentzap, Tier 2 Canada Research Chair in Climate Change and Northern Ecosystems

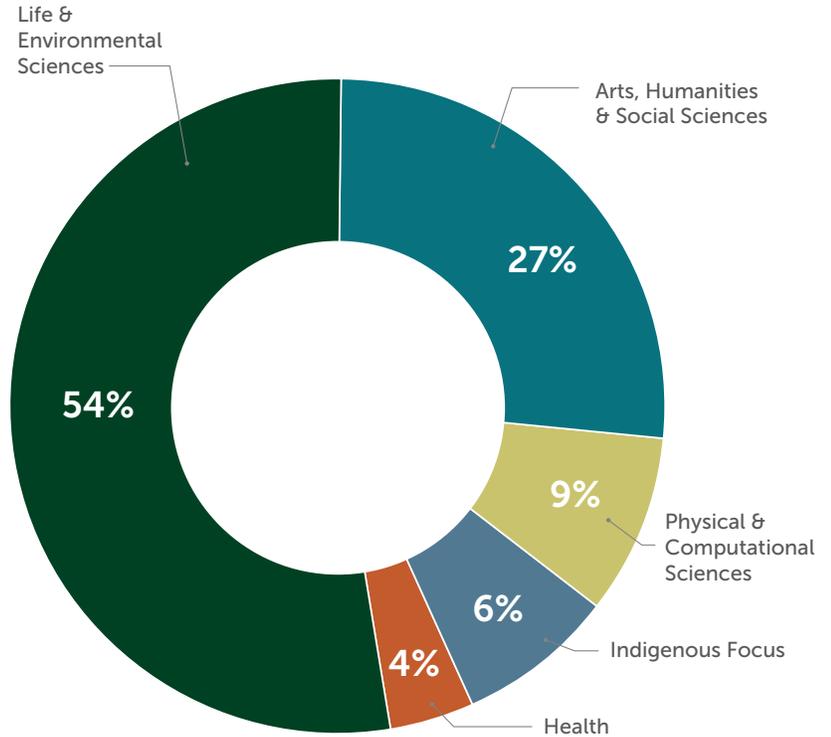
Dr. Marguerite Xenopoulos, Tier 1 Canada Research Chair in Global Change of Freshwater Ecosystems



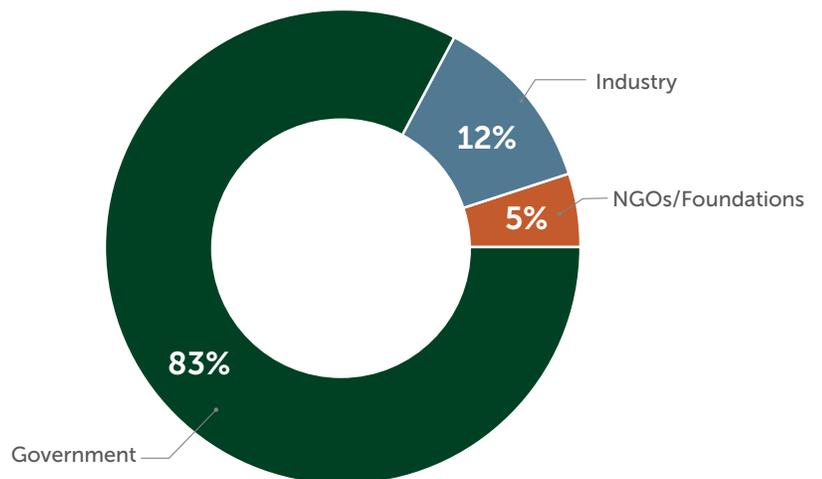
Get to know
Trent's CRCs

TRENT RESEARCH BY THE NUMBERS 2023

2023 ACTIVE RESEARCH GRANTS



RESEARCH FUNDING BY SOURCE



RANKINGS HIGHLIGHTS

MACLEAN'S UNIVERSITY RANKINGS*

#1 UNDERGRADUATE UNIVERSITY IN ONTARIO FOR 13 YEARS IN A ROW

#1 HIGHEST QUALITY IN ONTARIO

#2 MOST INNOVATIVE IN ONTARIO

TRENT RANKS IN TOP 10 IN CANADA

Research Infosource Rankings*

#1 IN CANADA International Government Research Income Growth (Winners Circle)

#2 IN ONTARIO (#3 IN CANADA) Cross-sector Collaboration Publications (Winners Circle)

#3 IN ONTARIO (#8 IN CANADA) Corporate Research Income Growth

#4 IN ONTARIO (#10 IN CANADA) Corporate Research Income Total

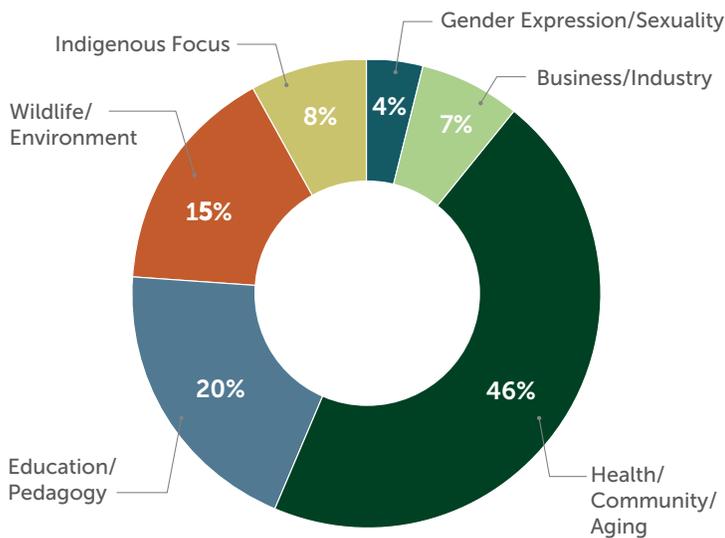
#4 IN ONTARIO (#6 IN CANADA) International Government Research Income

#3 IN ONTARIO (#9 IN CANADA) Cross-Sector Collaboration Publication Growth

* Reflects undergraduate category

Active Ethics Certifications

HUMAN & ANIMAL RESEARCH PROJECTS 2023



TRI-AGENCY GRANT INTENSIFICATION

FROM 2021/22 - 2022/23

180% INCREASE

IN NATURAL SCIENCES AND ENGINEERING RESEARCH COUNCIL OF CANADA (NSERC) GRANT FUNDING

20% INCREASE

IN SOCIAL SCIENCES AND HUMANITIES RESEARCH COUNCIL (SSHRC) GRANT FUNDING SUCCESS RATE

TRAINING THE NEXT GENERATION OF TALENT

1,235
GRADUATE STUDENTS

20+
PH.D. & MASTER'S PROGRAMS

TRENT RESEARCH IN THE NEWS

150+ TRENT NEWS STORIES & PRESS RELEASES on student and faculty research, funding and research partnership announcements

850+ MEDIA MENTIONS of Trent researchers Between Jan. 2023 and Dec. 2023

#TRENTURESEARCH ACROSS THE WEB

Research is also a prominent feature on the University's main social media channels with the tag #TrentURearch.

40,377
TOTAL PAGE VIEWS

411,114
TOTAL IMPRESSIONS
across social media

IMPRESSIONS ACROSS SOCIAL MEDIA

 **68,903**

 **39,126**

 **112,786**

 **190,299**

CLEANTECH COMMONS AT TRENT UNIVERSITY

Trent University is home to Cleantech Commons, a new 85-acre hub for collaborative green economy research, innovation, commercialization, and entrepreneurship. With a focus on attracting clean technology investment, Cleantech Commons will provide experiential learning and jobs for students, and support scalable growth companies, startups, and university spinout ventures. The Trent Enterprise Centre at Cleantech Commons is designed to provide programming and value-added services, along with shared laboratory, piloting, and demonstration facilities to help translate research outcomes into clean, low-carbon, and sustainable solutions for climate, energy, and environmental challenges.

CREATING A BETTER TOMORROW



Uncovering the Fate of Microplastic Waste

Trent School of the Environment professor **Dr. Julian Aherne** and Environmental & Life Sciences Ph.D. student, Brittany Welsh's research on plastic debris in global aquatic systems is shining a light on microplastic concentrations in freshwater systems. Their work, one of the first studies to provide a global perspective on concentrations of plastic debris larger than 250 microns, looks at plastic debris in surface water samples collected across 38 lakes and

reservoirs located in 23 countries, across six continents, with varying population densities and environmental conditions. A truly collaborative project that was featured in the journal *Nature* and in *The Globe and Mail*, Trent's researchers partnered with 79 researchers belonging to the Global Lake Ecological Observatory Network (GLEON) to paint a picture of the fate of plastic waste in the environment.



Advancing Global Leadership in Healthy Aging

At the forefront of advancing knowledge and solutions in healthy aging in Canada, a delegation of leading researchers and aging experts representing the Trent Centre for Aging and Society (TCAS) – **Dr. Elizabeth Russell, Dr. Liana Brown, Dr. Nadine Changfoot, Dr. Stephanie Tobin, and Dr. Raheleh Saryazdi** – joined the 2023 G7 Research Summit on Healthy Aging. While highlighting Trent's leadership and expertise in interdisciplinary aging scholarship, the multiday event provided participants an enriching opportunity to engage with a diverse community of researchers, scholars, and advocates of aging and aging studies.

Research Collaboration Aims for Sustainable Solutions to Fertilizer Use

In pursuit of innovative, sustainable solutions to traditional fertilizer use, Trent's **Dr. Huy Dang** and **Dr. Karen Thompson** are leveraging interdisciplinary collaboration on a research project with Canadian fertilizer innovators V6 Agronomy. Pairing Professor Dang's environmental chemistry lab with Professor Thompson's soil microbiology lab, the project, funded with support from a Natural Sciences and Engineering Research Council of Canada (NSERC) Alliance Grant, seeks to advance next-generation fertilizers that are not only highly effective, but that come with a reduced environmental impact as well. Before moving on to larger field-scale trials, the project will benefit from the Trent Research Farm, providing a research landscape for intermediate scale testing, with the final product to be integrated into the production lines of V6 Agronomy's Ontario-based fertilizer manufacturing facility.



Earth District's Partnerships and Programs Continue to Grow

The Earth District, a consortium of post-secondary institutions that includes Trent University, Centennial College, Fleming College, Ontario Tech University, and University of Toronto Scarborough, continues to grow, expanding its impactful programming and developing new clean, green partnerships throughout the province.

In the fall of 2023 Earth District members signed a memorandum of understanding with Alstom – global leaders in smart and sustainable rail mobility, including the electrification of rail transport – to elevate student research, training, and career development opportunities.

Through the Earth District's partnership with the Ontario Vehicle Innovation Network (OVIN), the Switch Program – a recipient of \$500,000 of funding through OVIN – delivered programming to both high school and post-secondary students focused on future career opportunities within the in-demand automotive and mobility sectors.

PARTNERSHIPS IN ACTION IN 2023



Crossing Disciplinary and Geographic Boundaries

This year, a research initiative with Ho Chi Minh City University of Technology (HCMUT) in Vietnam is laying the groundwork for future collaboration to tackle environmental challenges. Building on a collaboration through the International Institute for Environmental Studies (IIES), the idea is to create an international lab approach to investigating three environmental concerns: pollution, sustainable agriculture and carbon capture. To get the project moving, a team of Trent faculty – including **Dr. Huy Dang** as lead researcher, **Dr. Karen Thompson**, Canada Research Chair **Dr. Ian Power**, and professor emeritus **Dr. Douglas Evans** – as well as

graduate students and alumni visited Vietnam in the fall of 2023. On this international field trip, the team collected samples from ecologically diverse landscapes including the Can Gio Mangrove and Cat Tien National Park, two essential UNESCO Biosphere Reserves in Southern Vietnam.

The partnership with HCMUT has now been extended to the Université Grenoble Alpes in France, as a third University, with the goal of providing students with enriching research opportunities and generating new scientific knowledge.



Trent University Welcomes Fulbright Research Chair in Comparative Canada-US Studies

Trent welcomed **Professor Kellen Zale** as the 2023 Fulbright Canada Research Chair in Comparative Canada U.S. Studies. Prof. Zale joined Trent from the University of Houston Law Centre bringing her expertise and research focus in land use, housing affordability, and short-term rental markets while investigating the shared challenges between Canada and the U.S. and examining innovative solutions for treating short-term rentals under property taxation systems in different jurisdictions.



Ontario University Partnership Drives Economic Development

The Northern and Rural Innovation Cluster – a growing partnership between Trent University, Laurentian University, Lakehead University, and Nipissing University – is leveraging the expertise of post-secondary institutions and industry partnerships for a wide array of projects related to intellectual property and entrepreneurship, research data management and security, policy development, course/curriculum development, networking and joint symposia, and government relations.

Through funding provided by Intellectual Property Ontario (IPON), and in alignment with Ontario’s Critical Minerals Strategy, the Cluster focuses on three key areas – critical minerals, electrification of vehicles, and cleantech – to accelerate both the development and adoption of new technologies in Ontario.

International Summit on Environmental and Social Change in the Arctic

Trent’s growing relationship with the University of Edinburgh will see the two institutions host an international summit in 2024 with a focus on tackling the complex sustainability challenges of remote environments. Taking place in Scotland, the *Northern Science, Northern Stories: An Exploration of Resilient Communities Summit* will bring together scientists, Indigenous Knowledge Holders, and artists through workshops, panels, a field trip, and arts-based outputs. Funded through two government grants – the Scottish government’s Arctic Connections Grant, and a Canadian Social Sciences and Humanities Research Council (SSHRC) Connections Grant – the multiday event is co-led by Trent University School of the Environment professor and director of the School for the Study of Canada, **Dr. Heather Nichol** and builds on Trent’s legacy of international knowledge sharing and interdisciplinary approaches to complex problems.





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