

2021 RESEARCH & INNOVATION TOWN HALL

December 8, 2021

DR. PHIL BARKER

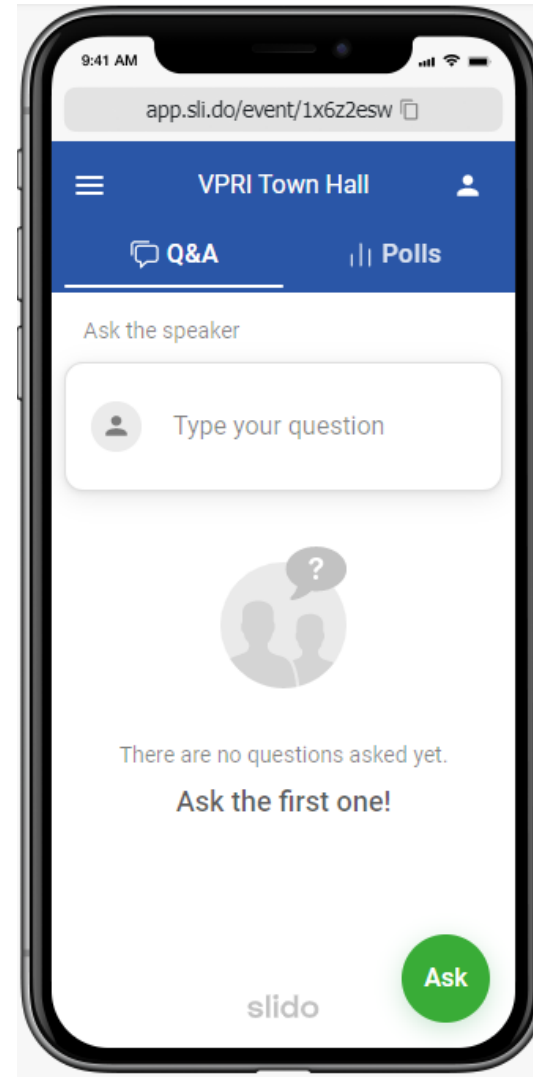
VICE-PRINCIPAL & ASSOCIATE VICE-PRESIDENT, RESEARCH & INNOVATION



AUDIENCE Q&A

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#VPRI



DOOR PRIZE GIVEAWAYS

- \$100 gift card to The Lookout Restaurant at Gray Monk Winery (Lake Country)
- \$100 gift card to Home Block at Cedar Creek Estate Winery (Mission)
- \$100 gift card to Old Vines Restaurant at Quail's Gate Winery (West Kelowna)



VPRI PORTFOLIO

Office of the VPRI

1. Strategic Initiatives
2. Institutional Programs
3. Internal Funding
4. Communications
5. Events & Engagement
6. Finance & Admin

Innovation UBC

1. University-Industry Liaison Office (UILO)
2. Entrepreneurship
3. STAR
4. Mitacs
5. Research Partnerships
6. Let's Talk Science
7. Cleantech Hub (IP1)

Office of Research Services

1. Research Facilitation
2. Research Administration
3. Ethics & Compliance
4. Indigenous Research Support
5. Major Awards

Shared Research Platforms

1. Animal Care Services
2. FiLTER
3. Plant Growth Facility
4. Research Data Centre
5. UBC STAR Hub
6. STAR Impact Research Facility

Research Institutes

1. Inclusion & Citizenship
2. Community Engaged Research
3. Healthy Living & Chronic Disease Prevention
4. Materials & Manufacturing
5. Biodiversity, Resilience & Ecosystem Services
6. Socio-Economic Development



NEW INNOVATION TEAM MEMBERS



James McCartney

Industry Project Officer, University Industry Liaison Office

Started Sept 2021



Colin Gervais

Program Facilitator, Entrepreneurship@UBCO

Started Aug 2021



NEW VPRI OFFICE TEAM MEMBERS



Nicole Bennett

Internal Programs Manager

Started Dec 2021



Jacqui Brown

Administrative & Special Projects Coordinator

Started Nov 2021



Asye Alemdar Thomson

Project Manager & Business Development, Cleantech Hub

Started May 2021

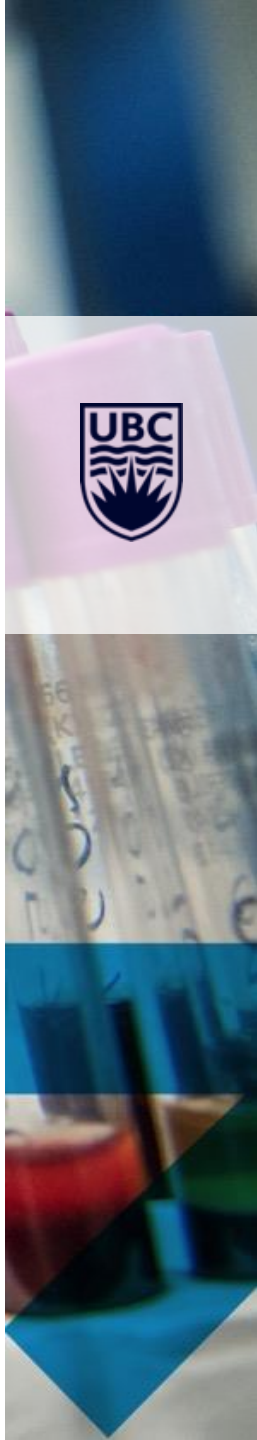


SUPPORTING RESEARCH EXCELLENCE



RAPIDLY EXPANDING RESEARCH ENTERPRISE

- **305** research faculty
- **28** designated research chairs (**7 new**)
- **19** interdisciplinary Clusters of Research Excellence (**2 new**)
- **15** Michael Smith Foundation for Health Research scholars (**3 new**)
- **5** research institutes



CHALLENGES STILL AHEAD

- Pandemic recovery
- Research space
- Shared research platforms
- Canada Research Chairs

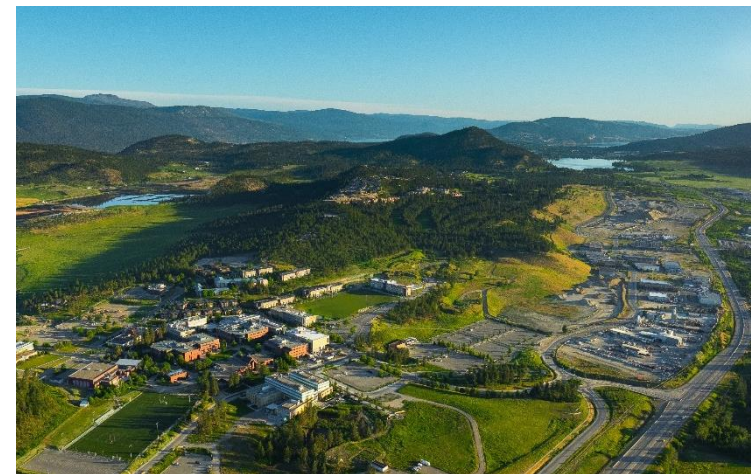


INFRASTRUCTURE UPDATES

- Innovation Precinct Building 1, including new Cleantech Hub – *now open*
- Innovation Annex 1
- Downtown Project
- Interdisciplinary Collaboration and Innovation (ICI) Building

NEW SHARED RESEARCH FACILITIES

- StatsCan Research Data Centre – *now open*
- Michael Smith Labs expansion to UBCO



NEW CANADA RESEARCH CHAIRHOLDERS (CRC)

1. Jennifer Davis, Faculty of Management

Canada Research Chair in Patient-Oriented Health Economics Research for Healthy Aging and Chronic Conditions (Tier 2)

2. Isaac Li, Faculty of Science (Chemistry)

Canada Research Chair in in Single-Molecule Mechanobiology (Tier 2)

3. Astrida Neimanis, Faculty of Creative & Critical Studies (English & Cultural Studies)

Canada Research Chair in Ecofeminism and Environmental Humanities (Tier 2)

NEW NSERC CWSE CHAIR

Jennifer Jakobi, Faculty of Health & Social Development (Health & Exercise Sciences)

NSERC Chair for Women in Science & Engineering (BC/Yukon Region)



NEW PRINCIPAL'S RESEARCH CHAIRHOLDERS (PRC)

New Faculty (recruitment stream)

1. **Lisa Tobber**, School of Engineering

Principal's Research Chair in Women in Engineering (Tier 2)

2. **Robert Szilagyi**, Faculty of Science (Chemistry)

Principal's Research Chair in Computational Chemistry (Tier 1)

Existing Faculty (retention stream)

3. **Solomon Tesfamariam**, School of Engineering

Principal's Research Chair in the Resilient and Sustainable Built Environment (Tier 1)



2021 MICHAEL SMITH FOUNDATION HEALTH RESEARCH SCHOLARS



Sarah Dow-Fleisner, Faculty of Health & Social Development, School of Social Work

Adaptation, development and positive trajectories in the context of childhood adversity



Sana Shahram, Faculty of Health & Social Development (School of Nursing)

Systems transformation for health equity



Christine Voss, Southern Medical Program

Physical activity and the clinical management of chronic diseases in children who reside in rural and remote communities in BC's Interior

These early-career health researchers are building leading-edge health research programs, training the next generation of scientists, and making significant contributions to their field.



MAJOR AWARDS AND HONOURS



Jeannette Armstrong, Faculty of Arts & Social Sciences

Royal Society of Canada Fellowship (2021)



Neil Cadger, Faculty of Creative & Critical Studies

Dorothy Somerset Award for Performance Development (2020)



Christine Schreyer

UBC Killam Faculty Research Fellowship (2020)



Jonathan Little

UBC Killam Accelerator Research Fellowship (2020)





Jeannette Armstrong

Associate Professor, Department of Community, Culture and Global Studies



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2021 RESEARCHERS OF THE YEAR



Julian Cheng

Natural Sciences & Engineering
Faculty Researcher of the Year

Jonathan Little

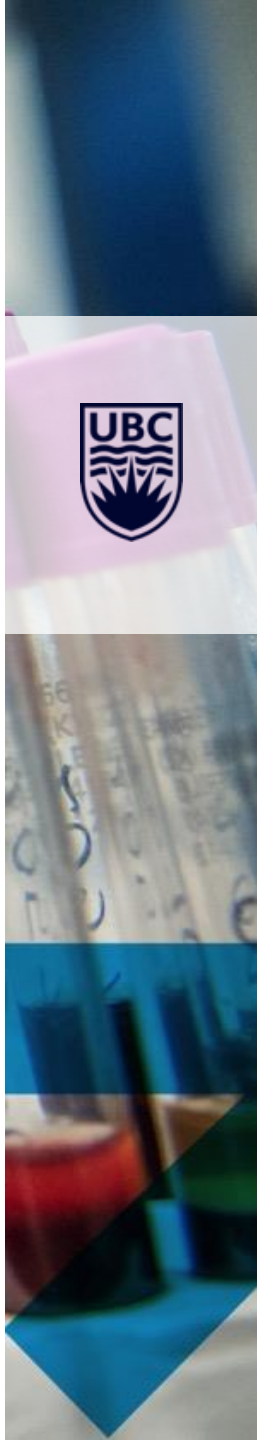
Health Researcher of the Year

Eric Li

Social Sciences & Humanities
Faculty Researcher of the Year

Michelle St. Pierre

Student Researcher of the Year



2021 RESEARCHER OF THE YEAR AWARD CELEBRATION

NOTABLE ACHIEVEMENTS: KNOWLEDGE EXCHANGE

- Tania Willard (FCCS) joined former Prime Minister Paul Martin at **CFI's Annual Public Meeting** this morning to discuss how new generations of students and researchers are integrating Indigenous insights into their work to address critical issues like climate change
- UBCO and Okanagan Nation Alliance co-hosted the 8th annual **One River Ethics Matter conference** (659 registered attendees from around the world, including Canada, United States, Brazil, Democratic Republic of the Congo, Nigeria, United Kingdom, Ireland and Vanuatu)
- Robert Godin (FoS) invited to attend recent **COP26 UN Climate Change Conference** in Glasgow, Scotland



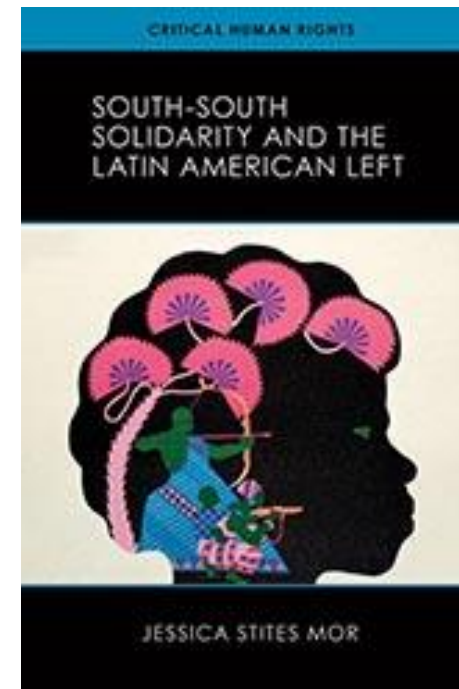
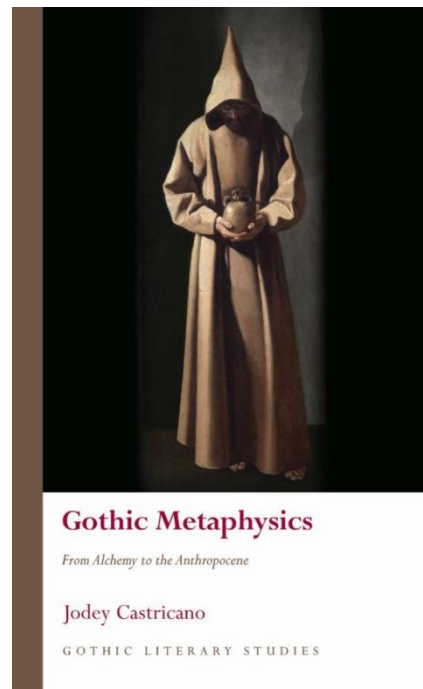
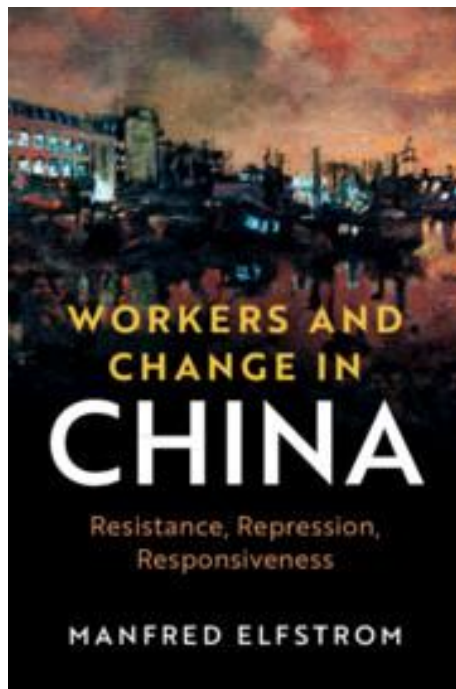
NOTABLE ACHIEVEMENTS: CREATIVE SCHOLARLY ACTIVITY

- John Tyler Binfet (OSE) developed the **School Kindness Scale**
- Kevin Chong (FCCS) judged **Hilary Weston Writers' Trust Prize for Nonfiction**
- Briar Craig (FCCS) organized int'l printmaking exhibition (**5th Okanagan Print Triennial**)
- Aleksandra Dulic (FCCS) exhibiting SSHRC-funded, interactive media exhibition (**Water Ways: The Past, Present and Future**) at Kelowna Museums
- Ilya Parkins (FASS) launched a new SSHRC-funded podcast series (**Redressing Weddings: Clothing and LGBTQ+ and Feminist Marriers**)
- Christine Schreyer and John Wagner (FASS) published an open access **Kala-English Dictionary** to preserve Indigenous language in Papua New Guinea
- Michael V Smith (FCCS) is producing a weekly live broadcast (**Soundtrack: a queer oral history project and open mic writing prompt**)



NOTABLE ACHIEVEMENTS: CREATIVE SCHOLARLY ACTIVITY

- New books published by Manfred Elfstrom (**Workers and Change in China: Resistance, Repression, Responsiveness**), Jodey Castricano (**Gothic Metaphysics: from Alchemy to the Anthropocene**), and Jessica Stites Mor (**South-South Solidarity and the Latin American Left**)

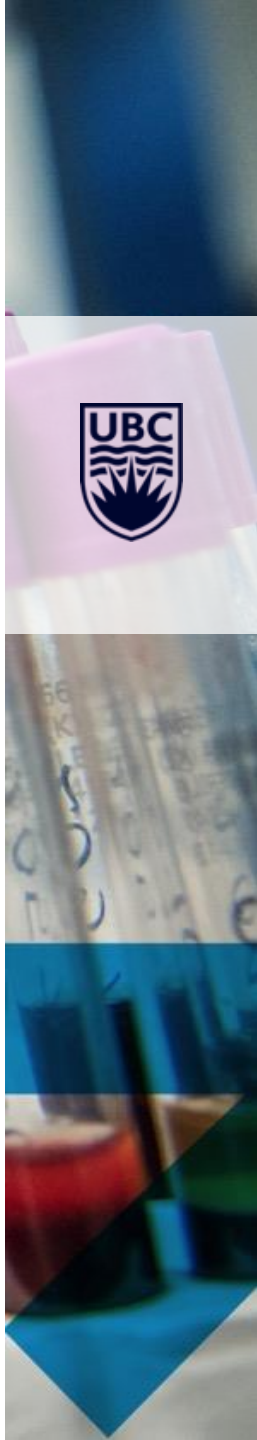


EMINENCE CLUSTERS OF RESEARCH EXCELLENCE

- We have funded **19 Clusters of Research Excellence** since the program launched in 2017

Our Clusters of Research Excellence are interdisciplinary networks of researchers focused on solving key challenges facing society.

- **Two new clusters funded in 2021:**
 1. Urban Indigenous Wellbeing (Donna Kurtz, Gabrielle Legault)
 2. Plastic Recycling (Mohammad Arjmand)





RESEARCH FUNDING & IMPACT



FUNDING SUCCESSES

\$38 M

RESEARCH FUNDING (2020/21)

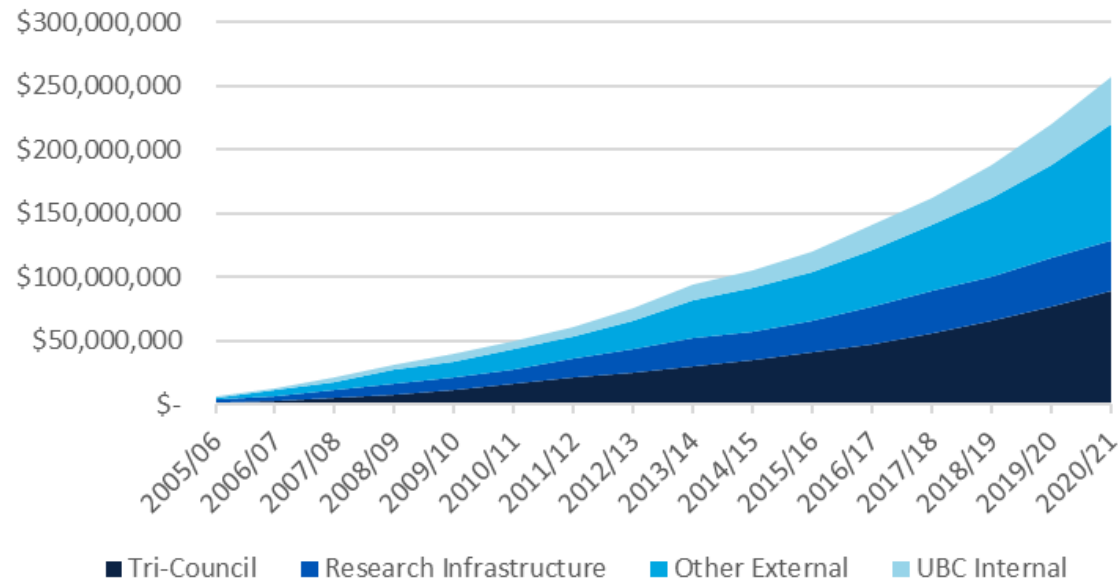
221%

INCREASE IN FUNDING (SINCE 2014/15)

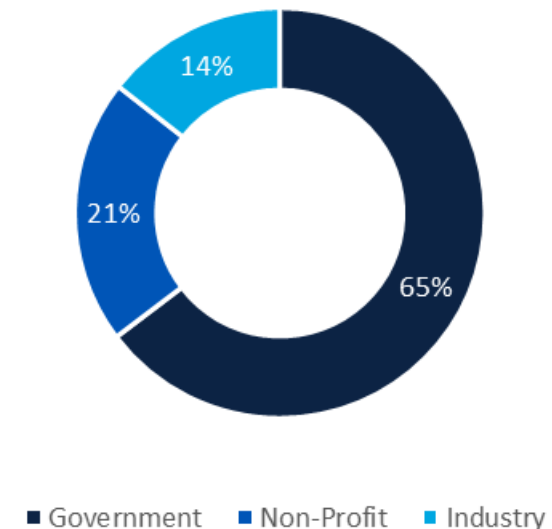
1,184

FUNDED PROJECTS (2020/21)

Cumulative Aggregate Funding



Cumulative External Funding Distribution (Sector)



TRI-AGENCY FUNDING HIGHLIGHTS

NSERC

- 20 Alliance Grants funded in 2020/21
- New “DG Intensive” launched to support Discovery Grant applications

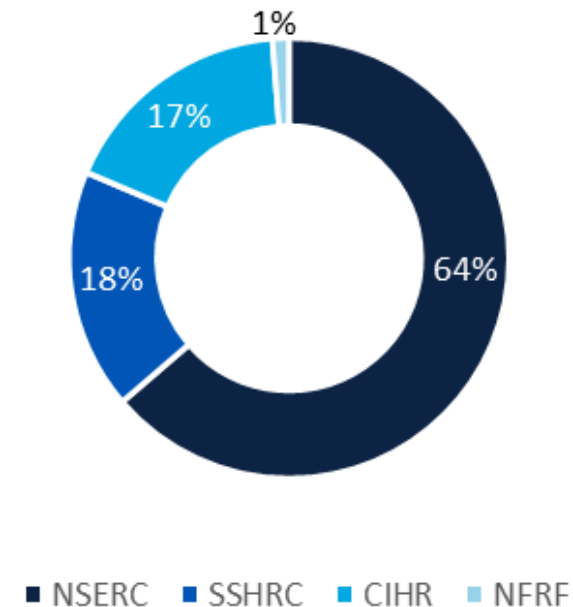
SSHRC

- 82% increase in Insight Development Grant award values (5 awards in 2021)

CIHR

- \$825K in new health foundation funding
- 4 Michael Smith Foundation for Health Research Trainee awards
- \$934K in Project Grant funding (spring 2021)

Cumulative Tri-Council Funding Distribution
(Agency)



CANADA FOUNDATION FOR INNOVATION (CFI) HIGHLIGHTS

- **\$1M** CFI/BCKDF funding received (2020/21)

John R. Evans Leaders Fund (JELF)

- 9 awards in 2020/21: this is the highest number of CFI-JELFs awarded to UBCO researchers in a single year; 100% success rates for FCCS, SoE and FoM
- 11 awards YTD 2021/22 + 5 pending CFI review; 100% success rate YTD for FASS, FCCS and FoS



UNIVERSITIES IN LOCAL ECONOMIC ECOSYSTEMS PROJECT

- 12-month VPRI-led research project (launched in Oct 2021) to examine knowledge circulation in small to medium-sized, university-anchored communities across Canada
- The research will focus on a participating subset of Canadian universities located in metropolitan areas containing approx. 100,000 to 300,000
- 50-60 interviews with employers, researchers, associations, intermediary organizations, and policy-makers to map and analyze the ecosystems
- Aim is to advance knowledge-driven, regionally-based, inclusive innovation that drives prosperity and well-being



PARTNERSHIP HIGHLIGHTS

- **\$1.3M MITACS** funding dispersed in Q1 and Q2 (April to Sept 2021)
- **UILO** facilitated over 135 project Collaborative Research Agreements with industry, government and not-for profit partners last calendar year (2020).
- Industry sponsored research continues to grow, rising from \$5.6M in 2019 → \$10.4M in 2020 → on track to be over \$11.5M in 2021



PARTNERSHIP HIGHLIGHTS

- **CREATE Immersive Technologies (CITech) Program**
1.6M NSERC Create Grant awarded in 2021 (first for the campus)
- **Rogers Communications \$4.8M investment over 4 years**
Wildfire Prevention and Smart Forests (Mathieu Bourbonnais):
Building community and ecological fire resilience using real-time monitoring of forest conditions through 5G and next-generation fuels
- **Over 100 SD 23 teachers (5x more than expected)**
plan to participate in SSHRC Partnership Project
Co-Curricular Making: Honouring Indigenous Connections to Land, Culture and the Relational Self (Margaret Macintyre Latta)



PARTNERSHIP HIGHLIGHTS

- New applied research initiative with the **City of Kelowna**; exploring two pilot projects based on challenge statements provided by the City:
 1. **Rapid Battery Charging Technology** – innovations and solutions to support the viability of a fully electrified bus fleet in the Okanagan Region; and
 2. **Alternate Transportation / Okanagan Rail Trail** – options to connect UBC Okanagan and Kelowna International Airport to Kelowna's downtown using the existing rail trail corridor.



LOOKING FORWARD TO 2022

- Campus as a Living Lab initiative
- Indigenous Strategic Plan (ISP) implementation within VPRI portfolio
- \$1.4 billion in new funding for Canada First Research Excellence Fund (CFREF) and up to \$7M/yr Canada Excellence Research Chairs (CERC)
- Researcher of the Year celebration in May



HOW TO STAY INFORMED

- Visit our website **research.ok.ubc.ca** and subscribe to our e-newsletters
- Follow-us on Twitter **@UBCO_Research**



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Research
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The VPRI office celebrates UBCO research, offers info & tips on funding/partnership opportunities, and supports UBCO researchers in pursuing impactful research.

📍 Kelowna 🔗 research.ok.ubc.ca 📅 Joined March 2011

479 Following 613 Followers

Edit profile



The **UBCO Research and Innovation** newsletter is published 2x per year (fall/winter and spring/summer), to keep our campus community informed and connected to UBCO research.

UBCO research faculty and key support staff should automatically receive both newsletters. Other UBCO staff interested in receiving updates may subscribe below.



The **UBC Research Digest** is a monthly summary of opportunities and deadlines curated from the research support service units in the VPRI portfolio on both campuses.

The digest is jointly distributed by the Offices of the Vice-President, Research and Innovation and the Vice-Principal, Research and Innovation (Okanagan).

FINAL DOOR PRIZE GIVEAWAY (VIRTUAL ATTENDEES)

- \$100 gift card to The Lookout Restaurant at Gray Monk Winery (Lake Country)
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Audience Q&A Session

① Start presenting to display the audience questions on this slide.



THE UNIVERSITY OF BRITISH COLUMBIA
Office of the Vice-Principal, Research & Innovation