BCIT Scholarly Activity Week 2025

Monday, November 17th to Thursday, November 20th

Monday November 17

Time	Туре	Presenter	Topic Title	Topic Description
1:15 -	Opening	Scholarly Activity Committee	Welcome to Scholarly Activity Week	Welcome to Scholarly Activity Week for 2025
1:25pm	Session			
1:30-2:00pm	Short Session	Brynn Tomie, Faculty, Radiation Therapy, School of Health Sciences	BEAM ON: The Role of Podcasts in Modern Teaching	BEAM ON – A BCIT Radiation Therapy Podcast is an interview-based series featuring faculty, alumni, and BC Cancer staff who share their clinical experiences with current and prospective students. These stories help bridge the gap between classroom learning and real-world practice, offering valuable insights into environments where students often have limited exposure. This presentation will explore how educational podcasts can enhance traditional teaching, walk through the process of launching a podcast at BCIT, and share student feedback on BEAM ON so far. Whether you're an educator, program coordinator, or student, podcasting may be a powerful tool to add to your teaching toolkit.
2:05-2:35pm	Short Session	Deirdre Grace, Librarian, Library	Using Statista: Beyond Business Research	Statista is known as a tool for gathering current business statistics, but it also contains information on politics, society, education, health and global indicators. This session will demonstrate Statista as a valuable tool for finding secondary data for research across multiple disciplines.
2:40-3:10pm	Short Session	Ali Al Jibouri, Faculty Maninder Kailay, Research Assistant Nga Phan, Research Assistant Chemical & Environmental Technology Program	Empowering Youth Innovation: Supercritical CO ₂ Extraction for Lithium- Ion Battery Recycling	This presentation will highlight a youth-led, grant-funded project focused on recovering valuable metals from spent lithium-ion batteries using supercritical carbon dioxide (scCO ₂) as a sustainable solvent. The project addresses both climate mitigation and the environmental challenges associated with improper battery disposal. The initiative is currently supported by the Wawanesa Climate Champions: Youth Innovation Grant and involves students from the Chemical and Environmental Technology Program at BCIT.

		School of Energy		
3:15-4:00pm	How-to	Michele Bridge, Faculty Development	Fund My Idea! - Description of Learning	Do you have an idea for a scholarly activity you'd like to pursue and curious about
		Coordinator & Instructional	and Teaching Grants at BCIT	how you could fund it? Join us to hear about the 4 grants administered by the
		Development Consultant, Learning &		Learning and Teaching Centre: Special Interest Grants (SIG), Travel Reimbursement
		Teaching Centre		for Enhancing Knowledge (TREK), Instructional Enhancement Grant (IEG) and the
				Learning and Teaching Innovation grant (LTI). These grants can financially support
				the successful completion of your scholarly pursuit. We'll cover the purpose of
				each grant with examples of recent successful proposals, the amount available for
				each grant, application schedules and the process of applying.

Tuesday November 18

Time	Туре	Presenter	Topic title	Topic Description
10:00-10:30	Short Session	Adrienne Fershau, Faculty, Emergency Specialty Nursing, School of Health Sciences	Silent Signs: Improving Patient Outcomes Through Early Identification of Strangulation Injuries Using SHASTA	Non-fatal strangulation (NFS) is a significant predictor of escalating interpersonal violence and carries high risks of hypoxia, anoxic brain injury, and lethality, yet it often goes undetected due to subtle or absent external injuries and underrecognition of neurological symptoms. This Doctor of Nursing Practice (DNP) project aimed to implement and evaluate the Strangulation Hypoxia Anoxia Symptom Traumatic brain injury Assessment (SHASTA) tool within a forensic nursing service in British Columbia to improve the identification, documentation, and management of patients experiencing NFS. The standardized use of SHASTA shows promise for transforming forensic nursing practice with potential for broader adoption across Canadian healthcare systems.
10:35 – 11:05am	Short Session	Won Ohm (PhD), Faculty, Building Science, School of Construction and the Environment	An overview of building acoustics research at BCIT	To cover some of the research highlights on building acoustics and its industrial applications
11:10- 11:40am	Short Session	Lea Ducharme, Virtual Simulation Lead Ray Lee, Program Head, MRI	Enhancing MRI Education Through Virtual Reality: A Collaborative Pilot Between the MRI Simulation and Computing Students	Access to MRI equipment for educational purposes is often limited by safety concerns, high operational costs, and logistical barriers, leading to inequities in simulation-based learning opportunities. In response, BCIT's MRI program collaborated with Computing students to co-create a Virtual Reality (VR) MRI department. This applied, interdisciplinary project exemplifies BCIT's commitment

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		Emily Tang, Specialized Faculty		to practical innovation and industry-informed education by providing a scalable,
				low-cost, and immersive learning environment that enables students to practice
		School of Health Sciences		MRI procedures without exposure to magnetic fields. This presentation will share
				key lessons learned, practical implementation strategies, and considerations for
				adapting VR simulation to other specialized healthcare education contexts.
11:45 -	Lightening-	Mimi Xia, Mediaworks Media and	Augmenting Operations Management	We will showcase an innovative approach using the library makerspace and 3d
12:30pm	Round	Maker Technology Specialist, Library	Education with Makerspaces & 3D	printing technology to introduce students to core concepts in Project Management
-			Printing	and Operations Strategy. By engaging students in the selection and production of
		Alistair Boakes, Mediaworks Media		physical prototypes using readily available maker technologies, we move beyond
		and Maker Technology Specialist,		the theory into a hands-on learning environment that mirrors real-world
		Library		manufacturing. We will present a modular course assignment where students
				research, plan, and produce a simple product prototype using makerspace tools.
		Linda Butterfield, Faculty, Operations		We will also discuss how physically building a prototype allows students to reflect
		Management, School of Business +		on constraints, queuing issues, and continuous improvement opportunities.
		Media		
		Joan Shellard, Faculty, Biotechnology,	Cross-disciplinary biotechnology lab	A silver lining from the COVID-19 pandemic was a commitment from both the
		School of Health Sciences and Applied	modules that mirror an industrial	Provincial and Federal governments to create biomanufacturing capacity in Canada
		Research	bioprocess	and the consequent need for skills training in these processes. Instructors Joan
				Shellard, Rob Forsyth and Hsin Kuo developed bioprocessing methods that closely
				match those used by the biopharmaceutical industry for the biomanufacturing of
				mAbs and these new lab modules were rapidly incorporated into last Fall's Process
				Systems, Biochemistry and Analytical Chemistry courses. Our 'inaugural' cohort of
				Biotech students grew and sampled animal (CHO) cells in a 2L bioreactor, followed
				by downstream bioprocessing, mAb purification and analysis. The results were
				great! Gram quantities of mAb were obtained with excellent purity and quality and
				Biotech students are now well-prepared for jobs in animal cell bioprocessing.
		Jeff Verbeem, Librarian, Library	Building from Scratch : Exploring the	From infrastructure to housing, scarcely a week goes by without an announcement
			Role of the Library in Skilled Trades	of a new initiative that utilizes the skilled trades. BCIT is at the forefront of trades
		Leah Guffroy, UBC Student - Master of	Education	education in BC and we are soon to host a state-of-the-art trades building to help
		Library & Information Studies		meet a growing demand. With all this activity we wondered: how can the library
				best support trades education? In this presentation, a BCIT Librarian and a
				practicum student in UBC's Master of Archival Studies and Library & Information
				Studies program will reflect on their year-long collaboration to try to answer this

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				question. Surveying a range of scholarly activities including small 'r' research,
				poster presentations, an article and more, we'll look at what we've learned and the
				many questions that remain in this often overlooked area of library work.
LUNCH				
1.20 2.00	Chart Cassian	Passurale Fiere Faculty Nursing	Land acknowledgments gratitude	In Canada, September 30th is the National Day of Truth and Reconciliation, a day to
1:30-2:00pm	Short Session	Pasquale Fiore, Faculty, Nursing	activities by nursing students	honor and work to reconcile Canada's First Peoples colonization experience.
		School of Health Sciences	activities by hursing students	Committing to this national responsibility, BCIT explores meaningfully nursing
		School of Fleatth Sciences		students' understanding of how Indigenous communities have suffered negatively
				from Colonialism. We highlight Indigenous stewardship of the environment, which
				preserves land, water, and resources we benefit from daily. At the beginning of
				each class, a land acknowledgment is offered. To echo the inspiring work of various
				authors, we worked on an extra layer of commitment, learning, and self-
				investment among nursing students and faculty when stating land
				acknowledgment, we have developed with our students an activity for them to
				choose how they would like to offer their gratitude in class opening session.
				As an outcome, we notice more meaningful and rich discussions since we have
				empowered students to decide how they would participate and be truly part of
				offering gratitude as a community of active learners, this result was even reflected
				in a positive appreciation on the faculty evaluation.
2:05-2:35pm	Short Session	Jennie Moore, Director Institute	Green Building and Infrastructure: from	The BCIT Centre for Architectural Ecology provides a platform for faculty
		Sustainability and Centre for Ecocities	isolated buildings to sustainable urban	collaboration in research about nature-based solutions and climate adaptive
			systems	infrastructure to advance sustainability in the built environment. This provides an
		Rodrigo Mora, Faculty, Building		essential dimension of the transition from cities to ecocities as part of an urban
		Science		restoration transformation. This presentation follows the evolution of a singular
				focus on buildings in one educational program, to a growing alignment with many
		Colleen Chan, Faculty, Civil		BCIT educational programs in multiple disciplines in regard to i) Building Science
		Engineering		and ii) Nature-based solutions group. The evolution in the research agenda for the
				BCIT Centre for Architectural Ecology demonstrates the leadership of BCIT faculty
		School of Construction and the		to advance the state of practice in sustainability that meets multiple Sustainable
		Environment		Development Goals (SDGs) including: SDG 6 - Clean Water and Sanitation, SDG 11 -

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				Sustainable Cities and Communities, SDG 12 - Responsible Consumption and
				Production, SDG 13 - Climate Action, SDG -15 Life on Land, and more.
2:40-3:10pm	Short Session	Eric Hawthorne, Research Associate,	Project Experience, Benefits and	This presentation describes and analyses the Energy OASIS microgrid at the British
		Smart Microgrid Applied Research	Lifecycle Analysis of BCIT's Energy	Columbia Institute of Technology (BCIT), which was developed as a testbed for
		Team, Centre for Applied Research &	OASIS Microgrid	sustainable energy solutions and electric vehicle (EV) charging. Launched in 2014,
		Innovation		the microgrid integrates a 250 kW solar photovoltaic (PV) array, a 500 kWh battery
				energy storage system (BESS), and an advanced energy management system to
				provide renewable energy to EVs and assist local power grid stability. The Energy
				OASIS microgrid has not only facilitated hands-on education and research
				opportunities but has also inspired subsequent projects and collaborations in
				sustainable energy practices. The findings from this project underscore the
				potential of microgrids in supporting clean energy transitions and enhancing
				community awareness of renewable technologies. Ultimately, BCIT's experience
				with Energy OASIS positions it as a leader in applied research for future smart grid
				developments.

Wednesday November 19

Time	Туре	Presenter	Topic Title	Topic Description
10:00-	Short Session	Barry Pointon, Faculty, Physics	Revealing the Cosmos by Making New	Applied research is vital to make the tools for scientific exploration. Since 2019
10:30am			Tools	BCIT has supported Dr. Barry Pointon and teams of students making analysis
		School of Computing & Academic		software and hardware contributions to the great Super-Kamiokande (SK) and
		Studies		Hyper-Kamiokande (HK) physics experiments. SK is located 1 km under a mountain
				in Japan and has made Nobel-awarded contributions to our understanding of both
				the sub-atomic world and the Cosmos. HK is under construction and will be a world
				leading particle detector, eight times larger than SK. As part of international
				collaborations, Dr. Pointon and BCIT students achieved great success in R&D for
				these experiments, especially in helping prepare the world to observe the next
				galactic supernova. In this talk, I will describe this work, as well as the spin-offs that
				benefit the global scientific community and the students I teach at BCIT.

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10:35 - 11:05am	Short Session	Bridget McClarty, Faculty, School of Construction & the Environment	Awe, Spirituality, and Connection to Nature: Emerging Themes in Environmental Education	What does it mean to have a meaningful or spiritual connection to nature, and what is the role of awe is such a connection? Emergent themes from a qualitative study using virtual interview methods suggest opportunities for incorporating slowand decolonized place-based environmental education practices.
11:10- 11:40am	Short Session	Shannon Kelly, Faculty & Program Head, Communications, School of Computing & Academic Studies Jamie Finley, Research Assistant, BCIT Applied Research - NRG	Best practices for inclusive and accessible environments for Deaf students, faculty, and staff in STEM fields	Creating an inclusive and accessible environment is essential to the success of Deaf students, faculty, and staff in STEM fields. In this sharing session, fellow researcher Shannon Kelly (Communication Department) will interview BCIT Deaf researcher Jamie Finley (Applied Research - NRG) about how he used BCIT's Learning and Teaching Innovation Grant funding to create comprehensive resources for supporting Deaf students and Deaf researchers & staff, and for working with ASL Interpreters. Whether you are a faculty member, staff member, or colleague, the tools and tips Jamie has created will help ensure that all individuals can fully participate, contribute, and thrive in STEM settings. Jamie and Shannon will preview the contents of these modules which include practical guidance, strategies, and resources to help foster effective communication, collaboration, and engagement in classrooms, labs, and workplaces. https://www.bcit.ca/applied-research/natural-health-food-products/working-with-us/stem-resource/ ASL Interpretation will be provided for this session.
11:45am - 12:15pm	Short Session	Haroop Sharda, Faculty & Scholarship Capacity Lead, Nursing Kimberley O'Donovan, Faculty, Nursing Jaskaran Oberoi, BCIT Year3 BSN Student Avneet Kaur, BCIT Year3 BSN Student School of Health Sciences	Learning in the Margins: Experiences of Undergraduate Nursing Students and Clinical Faculty in Hallway Healthcare Environments	Hallway healthcare, also referred to as corridor or overflow care, is a growing phenomenon in hospital systems strained by chronic capacity challenges. This practice, which involves delivering care in hallways, corridors, and other non-designated treatment areas, raises significant concerns related to patient safety, dignity, and the quality of care (Ontario Premier's Council, 2019; BC Nurses' Union, 2025). This presentation presents a study that investigates how hallway healthcare environments influence the teaching and learning experiences of undergraduate nursing students and faculty. The project illustrates the value of student-led research, faculty-student partnerships, and applied inquiry in advancing a scholarly culture within polytechnic nursing education. We anticipate that the implications will be relevant to nurse educators, leadership, and our clinical partners working to ensure equitable and effective clinical learning and teaching experiences.
LUNCH				

Time	Туре	Presenter	Topic Title	Topic Description
1:30-	How-to	Amy Chen, Communications Team,	Sharing your story through BCIT's	Do you have a research project, event, or initiative you want to amplify? The BCIT
2:15pm			official communication channels	Communications team will guide you through BCIT's official communication
-		Therese Guieb, Communications		channels and show you how to effectively share your story with a wider audience,
		Specialist		including those within and outside of BCIT. You'll learn how to craft a compelling
				and newsworthy story, discover the best ways to collaborate with the
		BCIT Marketing and Communications		Communications team, and gain practical tips to strengthen your storytelling for
		Department		institute channels and traditional media. You'll also learn from examples of BCIT
				faculty who have successfully shared their stories in the media and see what made
				them resonate.

Thursday November 20

Time	Туре	Presenter	Topic Title	Topic Description
10:00-	Short Session	Haroop Sharda, Faculty & Scholarship	Flourishing in Formation: A Mixed	Nursing students face intense academic demands, clinical stressors, and emotional
10:30am		Capacity Lead, Nursing	Methods Study of Self-Care in	labor throughout their education (Sharda & Nowell, 2025). While institutions
			Undergraduate Nursing Education	increasingly recognize the importance of well-being in student success, little is
		Devna Sunil, BCIT Year2 BSN Student		known about how nursing students define, practice, and sustain self-care during
				their undergraduate journey as this definition spans across emotional, mental,
		BCIT School of Health Sciences		physical, social, spiritual, and cultural dimensions. This presentation presents our
				study being conducted in partnership between BCIT and Douglas College and has
				received funding through the BCcampus Research Fellows program (2025–2027). In
		Ruhina Rana, Research Coordinator		alignment with BCIT's commitment to the Okanagan Charter and guided by the
		and Faculty, School of Health Sciences,		IDEAS framework (specifically the conceptual definition of well-being as a
		Douglas College		component of the framework), we aim to understand undergraduate nursing
				students' perceptions and practices of self-care and identify the personal,
				institutional, and systemic factors that influence their well-being. In doing so, the
				research will generate actionable insights to inform educational design, support
				services, and well-being initiatives that are meaningful to students.
10:35 -	Short Session	Caio Henrique da Motta Nunes, BCIT	Experimental Study of an Occupant	Master of Applied Science in Building Science student will present research.
11:05am		Master of Applied Science Student,	Centric Control for Low-Energy Indoor	
		Building Science, School of	Environmental Quality in an Office with	
		Construction & the Environment	High Solar Exposure	

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11:10-	Short Session	Pasquale Fiore, Faculty, Nursing	Connectivity activity among nursing	Nursing instructors are dedicated to their students' success; we discuss what we
11:40am		School of Health Sciences	instructors fostering collegiality	can do to improve our class activities and provide guidance to new faculty. In the
				last 5 years, BCIT has experienced increased numbers of faculty in the Nursing
				Department with a mandate to graduate more students to respond to healthcare
				system shortages. At this same time how can we build collegiality among
				instructors in this dynamic growth? Do we know each other? The literature
				discusses the challenges of developing collegiality among instructors, as well as
				some possible solutions. This presentation will share how the department sought
				to break this isolation for the term 1 team, fostering a sense of community by developing a connectivity activity among peers.
11:45 -	How to	Michal Aibin, Program Head, Master	From Idea to Impact: Partnering with	In this talk, I will show how our team turned a drone-based wildfire idea into a
12:30	TIOW to	of Science, Applied Computing &	Industry and Government for a Drone-	funded project worth \$1 million. I will walk through each step: choosing the shared
12.30		Research Faculty	Based Wildfire Prediction Project	goal with an industry partner, matching the plan to NSERC and Mitacs rules, and
		The search is a searcy	Basea Whallie Fredriction Froject	writing a clear scope that links technical tasks to risk and budget lines. I will then
		School of Computing & Academic		cover project launch: forming a data plan, setting timelines, and how to hire
		Studies		students. Next, I review year-one field results from British Columbia, including
				thermal mapping flights and AI fire-spot models. I close with tips on public reports,
				joint press notes, and next steps for tech transfer. Attendees leave with a simple
				checklist they can reuse for any mixed grant-industry project.
LUNCH				

Time	Туре	Presenter	Topic Title	Topic Description
1:30-	How-to	Shannon Kelly, Faculty & Program	Navigating BCIT resources for scholarly	Presented by the FSA Caucus on Applied Research and Advanced Studies (CARAS):
2:15pm		Head, Communications, School of Computing & Academic Studies Borna Noureddin, Faculty & Program Head, Computing, School of Computing & Academic Studies Adrianna D'Ilio, Faculty, Nursing, School of Health Sciences Zaa Joseph, Advisor, Indigenous Initiatives and Partnerships	work: including research funding, infrastructure, and release time	Faculty and staff share best practices for how they navigated BCIT resources, including research funding, and work loading, including release time, to pursue scholarly activities. Adrianna D'Ilio (Faculty, Nursing) is the Board Liaison for CARAS who will moderate the panel. Borna Noureddin (Faculty, Computing) drew on BCIT's Institutional Research Fund for the first phases of his research, co-leads the Digital Tools and Social Transformation Collaboration, and currently holds a Natural Sciences and Engineering Research Council of Canada (NSERC) Discovery Horizons grant. Shannon Kelly (Faculty, Communication) has used several sources of BCIT funding over the years to support her research, including Instructional Enhancement Grants and BCIT's Institutional Research Fund, along with external funding from the Social Sciences and Humanities Research Council of Canada. Zaa Joseph (Advisor & Specialized Faculty, Indigenous Initiatives and Partnerships) has accessed BCIT resources including PD funding, to advance his scholarship, including obtaining degrees at the Masters level, most recently pursuing his second Masters,
2:20- 2:50pm	Short Session	Hong Sy, Researcher, Natural Health and Food Products Research Group (NRG) Mohamed Albadry, Researcher, Natural Health and Food Products Research Group (NRG) Centre for Applied Research & Innovation	From Classroom to Collaboration: Embedding Students in Industry Projects at NRG	this one in Counselling. This presentation will showcase how students are integrated into applied research projects in collaboration with industry partners. Drawing on examples from the Natural Health & Food Products Research Group (NRG), we will highlight strategies that provide students with hands-on learning opportunities using industry-driven research. We will explore both the benefits and challenges of incorporating students into real-world projects, and share stories that illustrate the value of student participation through engagement of industry projects
2:55- 3:45pm	How-to	Jennie Moore, Director Institute Sustainability and Centre for Ecocities Simon Lam, Director, Respect, Diversity & Inclusion	Applying an IDEAS Lens in Scholarship Activities	This workshop provides an introduction to the IDEAS Lens and related resources to support IDEAS-informed scholarship at BCIT. This includes exploring how a research question might be informed or adapted using an IDEAS Lens, and considerations for research design, investigation, reporting, and peer review. Participants will be invited to connect with peers through table discussions and reflect on inspiration, current or potential research activities, next steps to engage in scholarly activity using an IDEAS Lens, and possible funding sources.

Time	Туре	Presenter	Topic Title	Topic Description
3:50-	Closing	Scholarly Activity Committee	Wrap-up	Reflections and looking ahead
4:00pm				