



## Okanagan Senate

THE FIRST REGULAR MEETING OF THE OKANAGAN SENATE  
FOR THE 2018/2019 ACADEMIC YEAR

THURSDAY, 27 SEPTEMBER 2018

3:30 PM | ASC 130

**1. Senate Membership – Dr Kate Ross****a. New Members**

Dr Barbara Rutherford, Dean pro tem. of the Faculty of Arts & Sciences, to replace Dr Wisdom Tettey (resigned)

Dr Dwayne Tannant, Dean *pro tem.* of the College of Graduate Studies, to replace Dr Miriam Grant (end of term)

Dr Blye Frank, Dean of the Faculty of Education

Dr Patricia Lasserre, Provost and Vice-Principal (Academic) *pro tem.*, to replace Dr Cynthia Mathieson (end of term)

**b. Vice-Chair of Senate**

Dr Peter Arthur's term as Vice-Chair of Senate has expired. Pursuant to Rule 7 of the Senate, Dr Deborah Buszard is nominated as Vice-Chair; however, any other Senator has until 3 pm on 27 September 2018 to nominate him or herself for the position by sending an email to that effect to [christopher.eaton@ubc.ca](mailto:christopher.eaton@ubc.ca). Should a second or further nominations be received, an election shall occur at 3:25 pm on 27 September 2018 at ASC 130 to determine the Vice-Chair of Senate until May 2019.

**c. Nominating Committee**

Due to the resignation of Dean Tettey and the leave of Dr Loeppky, two vacancies for non-student members of Senate exist on the Senate Nominating Committee. Nominations may be made to [christopher.eaton@ubc.ca](mailto:christopher.eaton@ubc.ca) by 12 October 2018. Pursuant to Rule 24 (e) of the Senate, if more than





two persons is nominated, an election shall occur at the next meeting of Senate.

2. **Minutes of the Meeting of 17 May 2018– Dr Santa Ono** (approval)  
(docket pages 4-17)
3. **Business Arising from the Minutes – Dr Santa Ono**
4. **Remarks from the Chair and Related Questions – Dr Santa Ono**  
(information)
5. **Remarks from the Deputy Vice-Chancellor and Relation Questions – Prof. Deborah Buszard**
6. **From the Board of Governors – Dr Santa Ono**

Confirmation that material from the following meetings as approved by Senate were subsequently approved by the Board of Governors as required under the University Act (information):

### **February 2018**

New awards

Curriculum proposals from the faculties of Arts & Sciences, Applied Science, Creative & Critical Studies, and Health & Social Development

2018-2019 Enrolment targets

### **March 2018**

New awards

Curriculum proposals from the faculties of faculties of Arts and Sciences, Creative and Critical Studies, Education, Health and Social Development, and from the College of Graduate Studies

### **April 2018**

New awards

Curriculum proposals from the faculties of Arts & Sciences and Creative & Critical Studies

Merger of the Faculty of Education (Okanagan) with the Faculty of Education (Vancouver) to form the Faculty of Education, establishment of Okanagan and Vancouver divisions of the Faculty of Education, establishment of the Okanagan School of Education, consequential changes to appointments, units, programs, and courses.

### **May 2018**



New awards

New programs: Doctor of Philosophy in Kinesiology, Bachelor of Applied Science in Manufacturing Engineering

Curriculum proposals from the faculties of Applied Science, Arts & Sciences, Creative & Critical Studies, and Education

**7. Candidates for Degrees – Dr Santa Ono**

The list as approved by the faculties is available for advance inspection at the Senate office, and will also be available at the meeting.

The Chair of Senate calls for the following motion:

*That the candidates for degrees as recommended by the faculties, be granted the degrees for which they were recommended, effective September 2018, and that a committee comprised of the Registrar, the dean of the relevant faculty, and the Chair of Senate be empowered to make any necessary adjustments (approval) (2/3 majority required).*

**8. Admissions & Awards Committee – Dr Greg Wetterstrand**

- a. Suspension of Admission to the UBC Vantage College Management Stream for the 2019 Winter Session (approval)(docket pages 18-21)
- b. New and Revised Awards (approval) (docket pages 22-25)

**9. Agenda Committee – Dr Peter Arthur**

Approvals granted on behalf of Senate over the Summer Months under Rule 25 (d) of the *Rules and Procedures of Senate* (information) (docket page 26)

**10. Nominating Committee – Dr Jannik Eikenaar**

- a. Changes to Committee Appointments (approval) (docket page 27)
- b. Term of the Education Student Senator (approval) (docket pages 27)

**11. From the Provost – Dr Patricia Lasserre**

Annual Report on Research Institutes (information) (docket pages 28-220)

**12. Other Business**





# OKANAGAN SENATE

## MINUTES OF 17 MAY 2018

**DRAFT**

### Attendance

**Present:** Dr S. Ono (Chair), Dr K. Ross (Secretary), Dr S. Alam, Mr U. Anyaoha, Dr P. Arthur, Dr P. Barker, Ms H. Berringer, Dr D. Buszard, Dr R. Campbell, Dr D. Carter, Mr Y. Chen, Dr J. Cioe, Dr J. Corbett, Ms T. Ebl, Dr J. Eikenaar, Ms L. Fraser, Dean M. Grant, Dr M. Hoorfar, Dr J. Hossain, Dr J. Jakobi, Dr R. Lawrence, Dr M. Legault, Dr Y. Lucet, Dr B. Marcolin, Dr C. Mathieson, Dr S. McNeil, Ms K. Morgan, Mr J. Naqvi, Dr S. O'Leary, Dean J. Olson, Dr F. Pena, Dr M. Reekie, Dr D. Roberts, Dr R. Sadiq, Dean R. Sugden, Dean B. Traister, Mr J. Traplin, Dr G. Wetterstrand.

**Regrets:** Mr M. Campbell, Ms C. Comben, Mr I. Cull, Dean *Pro Tem*. B. Frank, Mr L. Gordon, Dr J. Gustar, Ms M. Harper, Dr J. Johnson, Dr L. Lalonde, Dr S. Lawrence, Dr J. Loeppky, Ms B. MacBean, Ms R. Snider, Mr V. Tamondong, Dean W. Tettey, Dr P. Wylie.

**Clerk:** Mr C. Eaton

### Call to Order

The Chair of the Senate, Dr Santa J. Ono called the meeting to order at 3:04 pm

### Senate Membership

The Registrar informed Senate of the resignation of Mr Calvin Jacob Cruz as a student member of Senate; a by-election will be called in the early fall to fill this seat.

The registrar further informed Senate that as a result of the call for nominations issued at the previous meeting nominations have been received for Mr Yeuting Chen and Mr Jackson Traplin. As there are two candidates for two positions they were acclaimed as elected to the Senate Nominating committee until 31 March 2019 and thereafter until replaced

### Minutes of 26 April 2018

Steve McNeil  
Peter Arthur

}

*That the Minutes of the Meeting of 26 April 2018  
be adopted as corrected:*

*Correction: Dr McNeil was present.*



**Approved****Remarks from the Chair**

Dr Ono noted that this had been a significant year for UBC and its Okanagan campus. He highlighted the launch of the Blue & Gold Campaign, adoption of strategic plan, apology and opening of the Indian Residential School History and Dialogue Centre. At UBC Okanagan, The President advised that we have seen the highest ever number of students – 9,120 students registered, and for the first time since the inception of the campus, the government is allocating more funded seats here for domestic students. We will be growing by more than 150 seats, supporting the creation of a new degree program in Advanced Manufacturing Engineering, as well as a significant expansion of our computer science program. Dr Ono also noted that UBC signed the Interior University Research Coalition memorandum of understanding in the fall, and hosted the Prime Minister's Town Hall back September with 2,500 people in attendance for the latter event.

In terms of campus development; Dr Ono noted that the \$35M Teaching and Learning Centre (The Commons) is currently being built and is on track to open before the start of the next academic year, and that work is on the way to create two new residence buildings. The Housing Commons and the Skeena Residence will total 440 new residence beds.

Dr Ono welcomed Dean James Olson of the Faculty of Applied Science to his first meeting of the Okanagan Senate, and also noted in the gallery the presence of Professor Carol Jaeger the Associate Dean Academic of the Faculty.

Senator Cioe asked what types of support were expected from the Blue and Gold campaign.

The President replied that thankfully a lot of it was not designated too specifically but some donors do have areas they wish to support. He suggested we need to consider in particular what proportions should be merit or need based.

Senator Cioe raised the issue due to the lack of funding for graduate students on the Okanagan Senate.

The President agreed that this needed to be an area of focus.

**Remarks from the Deputy Vice-Chancellor**

Dr Buszard referred Senators to her distributed activities report for a summary of her activities over the spring. Additionally, she noted that earlier in the month UBC Okanagan held its Celebration of Learning week with many award winners and other forms of recognition for





excellent teaching and learning. In particular she highlighted the first Killam teaching award made for the Okanagan campus awarded to Dr. Steve McNeil.

The Deputy Vice-Chancellor noted a number of senior administrators leaving the Okanagan campus this summer and expressed her thanks to all of them. In particular she paid tribute to Susan Crichton, Faculty of Education; Miriam Grant, outgoing Dean of Graduate Studies; Wisdom Tettey, outgoing Dean of Arts & Sciences; and, Cynthia Mathieson, outgoing Provost.

Finally, Dr Buszard updated senate on the search for a new Provost to succeed Dr Mathieson. A first round of interviews has been completed and the search committee would be moving on to a second round with a short-list of candidates

### Candidates for Degrees

Miriam Grant	}	<i>That the candidates for degrees., as recommended by the faculties, be granted the degrees for which they were recommended, effective May 2018, and that a committee comprised of the Registrar, the dean of the relevant faculty, and the Chair of Senate be empowered to make any necessary adjustments.</i>
Ramon Lawrence		

Approved

### Academic Building and Resources Committee

The Chair of the Senate Academic Building and Resources Committee and the Council of Senates Budget Committee Okanagan Sub-Committee, Dr Ramon Lawrence, presented.

### ANNUAL REPORT

Dr R. Lawrence outlined that his committee had two primary areas of responsibility: space and the budget.

### Budget

- The Committee actively engaged with senior administration during the budget process and appreciates the level of consultation and collaboration.
- The Okanagan Budget reflects institutional priorities and is developed using driver-based metrics. The Committee has provided feedback on potential challenges and opportunities with the budget model.
- The Committee investigated issues in different funding levels per student at the Okanagan campus compared to Vancouver and how these funding differences are affecting student





experience and performance. There are opportunities to improve system-wide UBC metrics by investing resources to minimize these differences.

### **Academic Space**

- The Committee receives regular updates on campus planning and building activities.
- There is considerable excitement about the new Teaching and Learning Centre to help improve teaching space on campus. There remain challenges related to research and lab space especially related to growing programs in Engineering and Sciences.
- Accessibility to campus is improving especially with upcoming completion of John Hindle Drive

### **Admission & Awards Committee**

Dr Marianne Lagault, Chair of the Senate Admissions & Awards Committee, presented.

#### **NEW AND REVISED AWARDS**

*See Appendix A: Awards Report*

#### **REVISIONS TO POLICY J-51 ADMISSION BASED ON INTERIM GRADES FOR APPLICANTS FOLLOWING CANADIAN EXTRA-PROVINCIAL CRITERIA**

#### **REVISIONS TO POLICY J-52 ADMISSION FOR SECONDARY SCHOOL APPLICANTS FOLLOWING THE BC/YUKON CURRICULUM**

#### **REVISIONS POLICY J-53 COURSE-SPECIFIC MINIMA FOR SECONDARY SCHOOL APPLICANTS**

#### **MASTER OF MANAGEMENT: CHANGES IN ADMISSION REQUIREMENTS**

#### **MASTER OF SOCIAL WORK: CHANGES IN ADMISSION REQUIREMENTS**

#### **MASTER OF SCIENCE IN COMPUTER SCIENCE: CHANGES IN ADMISSION REQUIREMENTS**

Marianne Legault  
Jan Cioe

}

*That Senate accept the new and revised awards as listed and forward them to the Board of Governors for approval; and that a letter of thanks be sent to the donors;*

*That Senate approve Policy J-51.1: Admission Based on Interim Grades for Applicants following Canadian Extra-Provincial Criteria, effective for admission to the 2019 Winter Session;*

*That Senate approve revisions to the 'Criteria for Including Secondary School Courses in an*





*Admission Average,' effective for admission to the 2019 Winter Session and thereafter;*

*That Senate approve Policy J-52.2: Admission for Secondary School Applicants Following the BC/Yukon Curriculum, effective for admission to the 2019 Winter Session;*

*That Senate approve Policy J-53.1: Course Specific Minima for Secondary School Applicants, effective for admission to the 2019 Winter Session and thereafter;*

*That Senate approve changes in admission for applicants to the Master of Management, effective for the 2018 Summer Session and thereafter;*

*That Senate approve changes in admission requirements for applicants to the Advanced One-Year Master of Social Work and the Foundational Two-Year Master of Social Work, effective for admission to the 2018 Winter Session and thereafter; and*

*That Senate approve changes in admission requirements for applicants to the Master of Science in Computer Science, effective for admission to the 2018 Winter Session and thereafter*

Approved

## **Appeals on Standing and Discipline Committee**

The Chair of the Committee, Dr Robert Campbell, presented.

### **ANNUAL REPORT**

Dr Campbell advised that as set out in their written report, in the past year the Committee had heard no appeals of academic misconduct, one appeal of non-academic misconduct (which was allowed), and one appeal of academic standing (which was dismissed).

## **Curriculum Committee**





## MAY CURRICULUM REPORT

*See Appendix B: Curriculum Report*

Peter Arthur James Olson	}	<i>That Senate approve and recommend to the Board of Governors for approval four revised programs, four revised courses and three new courses brought forward by the Faculty of Arts and Sciences, one new course brought forward by the Faculty of Education, two new courses brought forward by the Faculty of Creative and Critical Studies and one new program and nineteen new courses brought forward by the Faculty of Applied Science.</i>
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Approved

Senator Roberts expressed a concern with the variability in credit values for master-level theses.

*By general consent the motion as divided to consider the proposal for thesis credit values separately.*

Peter Arthur James Olson	}	<i>That Senate approve and recommend to the Board of Governors for approval three new courses brought forward by the Faculty of Arts and Sciences, one new course brought forward by the Faculty of Education, two new courses brought forward by the Faculty of Creative and Critical Studies and one new program and nineteen new courses brought forward by the Faculty of Applied Science.</i>
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Approved

Peter Arthur James Olson	}	<i>That Senate approve and recommend to the Board of Governors for approval the revisions to thesis courses and programs for the Master of Science in Biochemistry and Microbiology, Biology, and Chemistry.</i>
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Senator Roberts said that such a large variation in credit values for theses and this wasn't rational.

Dean Grant said that this was the norm for graduate programs.

Jan Cieo referenced the relative workloads across programs for theses and other courses.

Senator McNeil said that this was a function of UBC saying that a master's degree was 30 credits. He suggested that this change wasn't really to the thesis rather it was to the number of courses otherwise required. These were research intensive degrees and forcing them to take more courses diminished their degree.

Dr Buszard said we should consider the quality for theses not the credit weights. There are some disciplines and some universities with zero coursework and some with significant coursework

Approved

### **Joint Report of the Admissions and Awards and Curriculum Committees**

The Chair of the Curriculum Committee, Dr Arthur, presented for the two committees.

#### **New Policy: O-127: Diploma Programs**

#### **New Policy: O-128: Academic Credit Certificate Programs**

Peter Arthur	}	<i>That Senate approve Policies O-127: Diploma Programs and O-128: Academic-Credit Certificate Programs, effective 17 May 2018.</i>
Marianne Legault		

Approved

### **NEW PROGRAM: DOCTOR OF PHILOSOPHY IN KINESIOLOGY**

### **REVISIONS TO INTERDISCIPLINARY GRADUATE STUDENTS PROGRAM THEMES**

#### *Appendix C: Ph.D. in Kinesiology and IGS Themes*

Peter Arthur	}	<i>That Senate approve the Ph.D. in Kinesiology program brought forward from the Faculty of</i>
Marianne Legault		





*Health and Social Development and the revised Interdisciplinary Graduate Studies (IGS) program and themes and related new courses brought forward from the Faculty of Arts and Sciences and the Faculty of Creative and Critical Studies.*

Approved

### Academic Policy Committee

The Chair of the Senate Academic Policy Committee, Dr Jan Cioe, presented.

#### REVISIONS TO ACADEMIC REGULATIONS: REQUIREMENTS TO RECEIVE A DEGREE OR DIPLOMA

Jan Cioe	}	<i>That the Academic Calendar section,</i>
Deborah Roberts		<i>"Requirements to Receive a Degree or Diploma",</i>
		<i>be revised to include academic-credit certificates</i>
		<i>as set out in the attached form</i>

Approved

#### REVISIONS TO ACADEMIC REGULATIONS: SCHOOL OF SOCIAL WORK

Jan Cioe	}	<i>That the revisions to the School of Social Work</i>
Deborah Roberts		<i>Academic and Program Regulations be approved</i>
		<i>as set out in the attached form.</i>

Approved

#### REVISIONS TO ACADEMIC REGULATIONS: COURSE WITHDRAWAL DATES

Jan Cioe	}	<i>That the deadline to withdraw from a course and</i>
Tamara Ebl		<i>receive a W on the transcript is moved to the</i>
		<i>second week of November (Term 1) and the</i>
		<i>second week of March (Term 2) for the Winter</i>
		<i>Session, and that the date is equivalently delayed</i>
		<i>for two-term courses and courses held in the</i>
		<i>Summer Session, effective for the Winter</i>





*Session of the 2018/19 academic year.*

Senator Eikenaar asked if we could clarify the deadlines by linking them to instructional weeks.

*By general consent, the motion was amended to change the withdrawal date to a corresponding number of days from the first day of classes in each term.*

A senator asked if there had been progress on discussions on changing the withdrawal without penalty date.

The Registrar replied that we are creating a tuition refund policy that would give us more latitude there. By general consent, the motion was amended.

Approved as  
Amended

## Learning and Research Committee

The Chair of the Senate Learning and Research Committee, Dr Deborah Roberts, presented.

### Emeritus Appointments

Deborah Roberts	}	<i>That the attached list of individuals for emeritus status be approved and that, pursuant to section 9(2) of the University Act, that they be added to the Roll of Convocation.</i>
Deborah Buszard		

Approved

## Nominating Committee

### VICE CHAIR OF SENATE

Jannik Eikenaar	}	<i>That Dr Peter Arthur be elected Vice-Chair of Senate from 1 June 2018 to 31 August 2018 and thereafter until replaced.</i>
Deborah Roberts		





Approved

## STUDENT COMMITTEE ASSIGNMENTS

Jannik Eikenaar  
Deborah Buszard

}

*That Ms Brittany MacBean and Mr Jassim Naqvi be appointed to the Council Budget Committee (Academic Building and Resources Committee) until 31 March 2019 and thereafter until replaced, to replace Mr Daniel Kandie and Ms Kelly Lu;*

*That Ms Lois Fraser and Mr Venedict Tamondong be appointed to the Academic Policy Committee until 31 March 2019 and thereafter until replaced, to replace Ms Gillianne Hardy-Legault and Ms Kelsey DesRoches, and that the term of Ms Megan Harper be extended on the Committee until 31 March 2019 and thereafter until replaced;*

*That Mr Uchebba Anyaoha and Mr. Shao Yuan Chong be appointed to the Admission and Awards Committee until 31 March 2019 and thereafter until replaced, to replace Ms Kristen Morgan and Mr Kyle Lee;*

*That Ms Lois Fraser and Ms Yeuting Chen be appointed to the Agenda Committee until 31 March 2019 and thereafter until replaced, to replace Ms Emily Lewis and Ms Kelly Lu;*

*That Ms Rachelle Snider, Mr Jackson Traplin, and Mr. Jassim Naqvi be appointed to the Appeals on Standing and Discipline Committee until 31 March 2019 and thereafter until replaced, to replace Ms Gillianne Hardy-Legault, Ms Brittni MacKenzie-Dale and Ms Kristen Morgan;*

*That Ms Kristen Morgan and Mr Venedict Tamondong be appointed to the Curriculum Committee until 31 March 2019 and thereafter until replaced, to replace Mr Arash Aghshahi and Ms Hillary Tjioe;*

*That Ms Kristen Morgan and Ms Meghan Harper be appointed to the Learning and Research*





*Committee until 31 March 2019 and thereafter until replaced, to replace Ms May Ly and Mr Kyle Lee; and*

*That Ms Megan Harper be appointed to the Council Elections Committee until 31 March 2019 and thereafter until replaced, to replace Ms Katarina Trapara.*

Approved

### **Adjournment**

Seeing no other business, the meeting was adjourned at 4:40 p.m.





## Appendix A: Awards Report

### *New Award:*

#### **Findlay Family Bursary in Engineering**

Bursaries totalling \$2,000 have been made available through an endowment established by the Findlay family for third-year students in the engineering program in the School of Engineering in the Faculty of Applied Science at the University of British Columbia, Okanagan campus. The bursaries are adjudicated by Enrolment Services. (First award available for the 2018 Winter Session)

### *Previously approved award with changes in terms or funding source:*

#### **River Timothy Sidley Memorial Award**

##### **Amended Description:**

A \$7,500 award is offered by the family and friends of River Timothy Sidley to a second, third, or fourth-year student in the Faculty of Arts and Sciences at the University of British Columbia, Okanagan campus. The award will be given to a student attending the Bamfield Marine Science Centre Fall Program who has demonstrated academic excellence. The award is made on the recommendation of the Faculty.

*Rationale: Donor and Faculty wish to include second year students.*





## **Appendix B: Curriculum Report**

### **FACULTY OF ARTS AND SCIENCES**

B.Sc. in Statistics Major (revised program)

DATA 101 (3) Making Predictions with Data (new course)

M.Sc. and Ph.D. in Biochemistry and Microbiology (revised program)

M.Sc. and Ph.D. in Biology (revised program)

M.Sc. and Ph.D. in Chemistry (revised program)

BIOC 549 (21) M.Sc. Thesis (revised course credits)

BIOL 599 (21) M.Sc. Thesis (revised course credits)

CHEM 549 (23) M.Sc. Thesis (revised course credits)

INDG 404 (3) Indigenous Peoples' United Nations and Global Issues (new course)

COSC 210 (4) Software Construction (new course)

MATH 160 (3) Mathematical Reasoning for Arts and Education (revised course)

### **FACULTY OF EDUCATION**

EDUC 160 (3) Mathematical Reasoning for Arts and Education (new course)

### **FACULTY OF CREATIVE AND CRITICAL STUDIES**

CULT 316 (3) Narrative Film Production (new course)

CULT 317 (3) Digital Documentary Production (new course)

### **FACULTY OF APPLIED SCIENCE**

B.A.Sc. in Manufacturing Engineering (new program)

MANF 230 (4) Manufacturing Engineering Laboratory (new course)

MAN 270 (3) Production Systems Management I (new course)

MANF 330 (6) Manufacturing Engineering Project I (new course)

MANF 368 (3) Engineering Measurements and Instrumentation (new course)

MANF 370 (3) Production Systems Management II (new course)

MANF 386 (3) Industrial Automation (new course)

MANF 430 (6) Manufacturing Capstone Design Project (new course)

MANF 450 (3) Life Cycle Analysis and Sustainability (new course)

MANF 455 (3) Factory Planning (new course)

MANF 460 (3) Supply Chain Tactics and Strategies (new course)

MANF 465 (3) Digital Enterprise (new course)

MANF 470 (3) Production Systems Management III (new course)

ENGR 401(3) Bioinstrumentation (new course)

ENGR 402 (3) Biotechnology: Fundamentals and Applications (new course)

ENGR 403 (3) Corrosion Science (new course)

ENGR 456 (3) Electrochemical Energy Storage Systems (new course)

ENGR 469 (3) Polymer Engineering (new course)

ENGR 507 (3) Bio-Microelectromechanical Systems (new course)

ENGR 508 (3) Specialty Alloys: Fundamentals, Applications and Development (new course)





## **Appendix C: Ph.D. in Kinesiology and IGS Themes**

### **FACULTY OF HEALTH AND SOCIAL DEVELOPMENT**

Ph.D. in Kinesiology (new program)

### **FACULTY OF ARTS AND SCIENCES**

Interdisciplinary Graduate Studies Program Themes:

1. Community Engagement, Social Change and Equity Theme

M.A. and Ph.D. in Interdisciplinary Graduate Studies Program (revised program)

IGS 586 (3-6) Community Engagement, Social Change, and Equity

Theme Seminar (new course)

2. Global Studies Theme M.A. and Ph.D. in Interdisciplinary Graduate Studies Program (revised program)

IGS 587 (3) Global Politics, Culture and Theory (new course)

IGS 588 (3) Global Studies Panorama (new course)

3. Power, Conflict and Ideas Theme

M.A. and Ph.D. in Interdisciplinary Graduate Studies Program (revised program)

IGS 589 (3) Governance Frameworks of governance systems and public

Policy (new course)

IGS590 (3) Power and Ideas (new course)

IGS 591 (3) Society and Conflict (new course)

IGS 592 (3) History Theory and Method (new course)

4. Sustainability Theme

M.A. and Ph.D. in Interdisciplinary Graduate Studies Program (revised program)

IGS 584 (3) Sustainability Theme Seminar (new course)

IGS 585 (3) Knowledge Mobilization and Sustainability Policy

5. Urban, Rural and Regional Dynamics Theme

M.A. and Ph.D. in Interdisciplinary Graduate Studies Program (revised program)

IGS 583 (3) Urban, Rural and Regional Dynamics (new course)

### **FACULTY OF CREATIVE AND CRITICAL STUDIES**

Interdisciplinary Graduate Studies Theme:

Digital Arts and Humanities Theme

M.A. and Ph.D. in Interdisciplinary Graduate Studies Program (revised program)

IGS 502 (3/6) Seminar in Digital Arts and Humanities (new course)





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THE UNIVERSITY OF BRITISH COLUMBIA

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27 September 2018

**To: Okanagan Senate**

**From: Admissions and Awards Committee**

**Re: Admissions Proposal – Suspension of Admission to the UBC Vantage College Management Stream for the 2019 Winter Session**

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The Committee has reviewed and recommends to Senate for approval the suspension of admission to the UBC Vantage College Management Stream for the 2019 Winter Session.

The rationale for the proposal is outlined in the attached memorandum. As indicated in the memorandum, a parallel proposal is proceeding through the Vancouver Senate approval process.

The following is recommended to Senate:

**Motion:** *That Senate approve suspension of admission to the UBC Vantage College Management stream for the 2019 Winter Session*

Respectfully submitted,

Dr. Greg Wetterstrand  
Chair, Admissions and Awards Committee



**MEMO****Submitted to:**

UBC Okanagan Senate, Admissions and Awards Committee (September 10<sup>th</sup>, 2018)  
and, UBC Vancouver Senate, Admissions Committee (September 26<sup>th</sup>, 2018).

**Re:** Proposal for calendar changes to add notations indicating that “Admission to the UBC Vantage College Management stream is suspended for the 2019 winter session.”

August 29, 2018

UBC Vantage College is proposing the following calendar changes adding notations that admissions to the Management stream is suspended for the 2019 winter session. Three specific locations in both the UBC Okanagan and UBC Vancouver calendars have been identified and a brief synopsis of the context for this decision is outlined here.

**Calendar changes:**

For the Okanagan Calendar,

<http://www.calendar.ubc.ca/okanagan/index.cfm?tree=18,287,1091,1364>

Under the heading “**Transition from UBC Vantage College**”, add the notation:

*“Admission to the UBC Vantage College Management Stream is suspended for the 2019 winter session. Current students enrolled in the program are not affected.”*

For the Vancouver Calendar,

<http://www.calendar.ubc.ca/vancouver/index.cfm?tree=2,309,0,0#23351>

Following the text “students applying to the Management stream in the Vantage Program”, add the notation:

*“Admission to the UBC Vantage College Management Stream is suspended for the 2019 winter session.”*

<http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,307,943,0>

Under the “**Management stream**” heading, add the same notation:

*“Admission to the UBC Vantage College Management Stream is suspended for the 2019 winter session.”*

**Context:**

Enrolment in the Vantage One Management program is low and retention of Vantage One Management students into the Bachelor of Management program at the UBC Okanagan campus has also been low.

**Table: Transition flows from Vantage One to UBC-O (headcounts)**

Intake Year	2015W	2016W	2017W	2018W*
Management	18	31	37	23
Intake – Transition		2015- 2016	2016- 2017	2017- 2018
at UBCO	--	9	9	13



Following a meeting between UBC Vantage College, the Faculty of Management, and the Provost and Vice-Principal at UBC Okanagan (held at UBCO in July 2018), UBC Vantage College decided to suspend enrolment in the Vantage One Management program for one year and no students will be admitted to the program for the September 2019 intake. All other Vantage One programs (i.e., Vantage One Arts, Vantage One Engineering, and Vantage One Science) will continue to enroll students. Over the past four years, enrolment in the Vantage One Management stream has remained well below the ideal cohort size for the program. Retention of Vantage One Management program students into the Bachelor of Management program at the UBC Okanagan campus has also been low, in part because many students who begin in the Vantage One Management stream students have transferred into other programs.

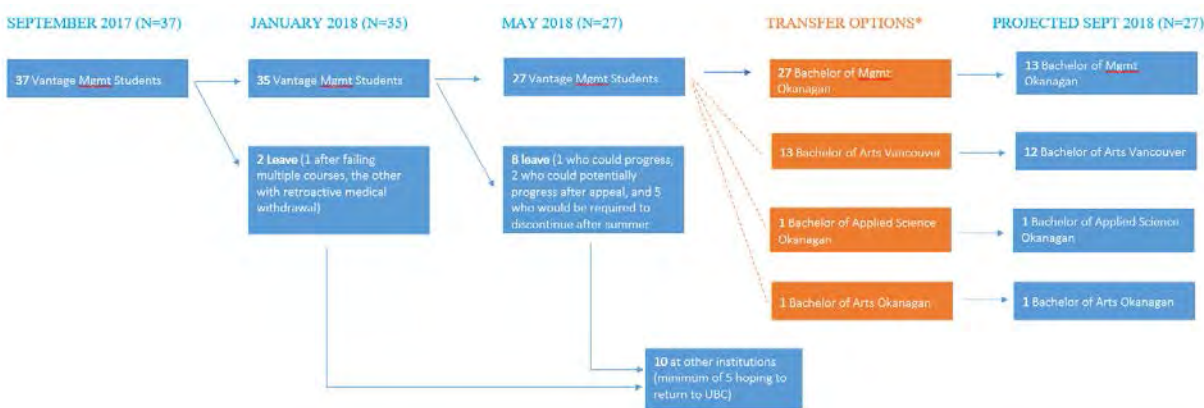
The current intake of Vantage One Management students (2018-2019) and continuing students will not be affected. All current Vantage One Management related activities will continue as planned for 2018-2019 (i.e., all academic courses and a full set of programs/services are available and will be delivered as planned for students entering the Vantage One Management program in September 2018). As well, it is not anticipated that suspending enrolment will affect previous students who have come through the Vantage One Management program.

This decision to suspend enrolment for the Vantage One Management program for one year will be revisited in the summer of 2019. In the meantime, the Provost and Vice-Principal at UBC Okanagan is planning to launch a taskforce this fall which will engage key stakeholders at UBC Okanagan, and with UBC Vantage College, and evaluate the best options to move forward specifically for UBC Okanagan programs.

Other Supporting data:

#### Transfer routes and/or alternate options pursued by Vantage One Management students (from 2017W intake)

The chart below represents the 37 Vantage Management students who began their program in September 2017 and records the number of students who stay in the intended program as well as the number of students who pursue (or are required to pursue) alternate options.



\*NUMBER OF STUDENTS ELIGIBLE FOR TRANSFER, APPLIED FOR TRANSFERS AND/OR MET COMPETITIVE REQUIREMENTS





## Curriculum Proposal Form

### New/Change to Course/Program – Okanagan campus

<b>Category: 1</b>	
<b>Faculty/School:</b> Vantage College <b>Department/Unit:</b> N/A <b>Faculty/School Approval Date:</b> <b>Effective Session:</b> 2019W	<b>Date:</b> 20180910 <b>Contact Person:</b> Joanne Fox <b>Phone:</b> 604.827.0339 <b>Email:</b> joanne.fox@vantagecollege.ubc.ca
<b>Type of Action:</b>  Suspension of intake to Vantage College Management Stream for 2019 Winter Session.	
<b>Rationale:</b>  See covering memo.	
<b>Proposed Academic Calendar Entry:</b>  ...  <b>Transition from UBC Vantage College</b>  <u><b>Admission to the UBC Vantage College Management Stream is suspended for the 2019 winter session. Current students enrolled in the program are not affected.</b></u>  UBC Vantage College students in the Management Stream who pass all courses with an average of at least 60% and who achieve at least 60% in WRDS 150 will be eligible for Year 2 of the B.Mgt. degree program.  ...	<b>Draft Academic Calendar URL:</b> <a href="http://www.calendar.ubc.ca/okanagan/proof/edit/index.cfm?tree=18,287,1091,1364">http://www.calendar.ubc.ca/okanagan/proof/edit/index.cfm?tree=18,287,1091,1364</a>  <b>Present Academic Calendar Entry:</b>  ...  <b>Transition from UBC Vantage College</b>  UBC Vantage College students in the Management Stream who pass all courses with an average of at least 60% and who achieve at least 60% in WRDS 150 will be eligible for Year 2 of the B.Mgt. degree program.  ...



# THE UNIVERSITY OF BRITISH COLUMBIA



September 27, 2018

## Development and Alumni Engagement

The University of British Columbia | Okanagan campus  
1138 Alumni Ave. Adm103  
Kelowna, BC V1V 1V7

Tel 250.807.8565 | Fax 250.807.9211

<http://supporting.ok.ubc.ca/welcome.html>

**From: Senate Admissions and Awards Committee**

**To: Okanagan Senate**

**Re: New and revised awards recommended for approval by the Okanagan Senate Admissions and Awards Committee**

- a. Proposed award: Kelowna Toyota Rising Star in Nursing Leadership Award
- b. Proposed award: Kohler Canada Bursary in Engineering
- c. Proposed award: UBC Blue & Gold Bursary
- d. Proposed award: Alumni UBC Blue & Gold Bursary
- e. Proposed award: Irma Kurtz Memorial Award for Rural and Remote Practice for Indigenous Nursing Students
- f. Proposed award: Faculty of Medicine Summer Student Research Award
- g. Revised Award: Golder Associates Award in Earth and Environmental Sciences
- h. International Major Entrance Scholarship Transition Bursary (Okanagan)

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The Senate Admissions and Awards Committee is pleased to recommend the following to Senate:

**Motion:** *That the Senate approve the new and revised awards as listed and forward them to the Board of Governors for approval; and that letters of thanks be sent to the donors.*

## NEW AWARDS

Proposed Award: **Kelowna Toyota Rising Star in Nursing Leadership Award**

A \$1,200 award has been made available through an endowment established by Kelowna Toyota for a third or fourth-year student in the School of Nursing in the Faculty of Health and Social Development at the University of British Columbia, Okanagan campus. Preference is given to a student who has demonstrated active involvement, in the form of leadership or engagement, within the School of Nursing, the university campus or their community. The award is adjudicated by the School of Nursing. (First award available for the 2018/19 Winter Session)



Proposed Award: **Kohler Canada Bursary in Engineering**

Bursaries totalling \$2,000 have been made available through an endowment established by Kohler Canada for third- or fourth-year students in the mechanical engineering program in the School of Engineering in the Faculty of Applied Science at the University of British Columbia, Okanagan campus. The bursaries are adjudicated by Enrolment Services. (First award available for the 2019/20 Winter Session)

Proposed Award: **UBC Blue & Gold Bursary**

Bursaries totalling \$10,200 have been made available through an endowment supported by various donors, along with matching funds from The University of British Columbia for undergraduate students at the UBC Vancouver Campus and UBC Okanagan Campus who demonstrate financial need. The bursaries are adjudicated by Enrolment Services with 80 percent of the UBC Blue & Gold Endowment Fund's annual spending allocation going to support the Vancouver Campus and 20 percent going to support the Okanagan Campus. (First Award Available in the 2018/2019 Winter Session)

Proposed Award: **Alumni UBC Blue & Gold Bursary**

Bursaries totalling \$3,200 have been made available through an endowment established in honour of the alumni UBC 100th anniversary, along with matching funds from the University of British Columbia, for undergraduate students at the UBC Vancouver Campus and the UBC Okanagan Campus who demonstrate financial need. The bursaries are adjudicated by Enrolment Services with 80 percent of the Alumni UBC Blue & Gold Endowment Fund's annual spending allocation going to support the Vancouver Campus and 20 percent going to support the Okanagan Campus. (First Award Available in the 2018/2019 Winter Session)

Proposed Award: **Irma Kurtz Memorial Award for Rural and Remote Practice for Indigenous Nursing Students**

A \$1,000 award is offered by family and friends of Irma Kurtz to a fourth-year Indigenous student in the School of Nursing in the Faculty of Health and Social Development at the University of British Columbia, Okanagan campus. Preference is given to a Métis, First Nations, or Inuit student who is pursuing a nursing career in rural and remote communities. The award is made on the recommendation of the School of Nursing. The award is established in loving memory of Irma Kurtz who, as a Métis woman, daughter, sister, mother and grandmother, loved the north and had a deep connection to the land, water, wildlife and serenity it provided for physical, emotional, social and spiritual health. (First award available for the 2018/19 Winter Session)



Proposed Award: **Faculty of Medicine Summer Student Research Award**

Awards of up to \$3,200 each are available to undergraduate students conducting summer research projects through the Faculty of Medicine Summer Student Research Program. Students enrolled in the MD undergraduate program or in a direct entry undergraduate program at UBC are eligible. Students are required to submit an application to the UBC Vancouver Faculty of Medicine Dean's Office to be considered for the award. The awards are made on the recommendation of the UBC Vancouver Faculty of Medicine. (First award available for the 2018/19 Winter Session)

**REVISED AWARDS**

Revised Award: **Golder Associates Award in Earth and Environmental Sciences**

Award Title: **Golder Associates Award in Earth and Environmental Sciences**

Existing description:

A \$1,000 award is offered by Golder Associates to a third-year student in the Bachelor of Science Program in the Irving K. Barber School of Arts and Sciences at the University of British Columbia, Okanagan campus. Preference is given to an **Indigenous** student who: has demonstrated academic excellence; has graduated from a high school in the Province of British Columbia; is majoring in Earth and Environmental Sciences; and who fosters teamwork in the classroom or participates in environmental initiatives. The award is made on the recommendation of the School.

Proposed Award Title: **Golder Associates Award in Earth and Environmental Sciences**

Amended Description:

A \$1,000 award is offered by Golder Associates to a third-year student in the Bachelor of Science Program in the Irving K. Barber School of Arts and Sciences at the University of British Columbia, Okanagan campus. Preference is given to an Indigenous student who: has demonstrated academic excellence; has graduated from a high school in the Province of British Columbia; is majoring in Earth and Environmental Sciences; and who fosters teamwork in the classroom or participates in environmental initiatives. The award is made on the recommendation of the School.

Rationale: Donor wishes to give preference to Indigenous students

Revised Award: **International Major Entrance Scholarship **Transition Bursary** (Okanagan)**

Award Title: **International Major Entrance Scholarship (~~Bursary~~)**

Existing description:



~~Bursary funding for IMES students continuing at UBCO who do not meet academic requirement for UBC IMES #21440 -grace period~~

Proposed Award Title: **International Major Entrance Scholarship Transition Bursary (Okanagan)**

Amended Description:

**The Transition Bursary is offered to undergraduate students at UBC who fail to meet the renewal criteria for the International Major Entrance Scholarship (Okanagan) but who have experienced circumstances that affected their performance in the previous Winter Session. The Transition Bursary is a one-time award of up to the full cost of tuition and fees offered by the International Student Initiative to these students to support the student while they work to regain their award eligibility. The award is made on the recommendation of Enrolment Services in consultation with the International Student Initiative.**

Rationale: The updated, more complete award description offers more detailed information on purpose and eligibility for the bursary. A review of all transition bursaries funded by the ISI is underway to standardize and update these descriptions to best reflect the purpose of the bursaries and practices in assigning them.





17 September 2018

To: Senate  
From: Agenda Committee

Re: Matters Approved Under Delegated Authority over the Summer Months

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Rule 25 (d) of the *Rules and Procedures of Senate* delegates the following power to the Agenda Committee:

*“To - by a resolution of  $\frac{3}{4}$  in favour when a quorum is established as being present - approve any matter - except for amendments to the Rules and Procedures of Senate- on behalf of the Senate during the months of June to August (inclusive).”*

That rule further provides that *“matters approved under this power must be reported to Senate at its next regular meeting for information.”*

The Agenda Committee reports to the Senate that it approved three recommendations made by the Senate Nominating Committee over the summer months so that search committees could be formed for senior administrators. These resolutions were as follows:

*That Ms Manuela Reekie be appointed to a President’s Advisory Committee for the Selection of an Associate Vice-President Health.*

*That Dr Trudy Kavanagh be appointed to a President’s Advisory Committee for the Selection of a Vice-President, Students.*

*That Dr Peter Arthur be appointed to a President’s Advisory Committee for the Selection of a Vice-President, External Relations.*

*NB: As Dr Arthur is a member of the Agenda Committee, he recused himself from consideration of this motion.*





17 September 2018

To: Senate  
From: Nominating Committee  
  
Re: A) Committee Adjustments  
B) Faculty of Education – Student Senator

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### **A) Committee Adjustments**

In light of changes to the membership of Senate over the summer months, the Nominating Committee would recommend the following changes to the membership of committees of Senate:

*That Dr Barabra Rutherford and Dr Dwayne Tannant be appointed to the Academic Policy Committee until 31 August 2020 and thereafter until replaced, to replace Dr Wisdom Tetley and Dr Miriam Grant.*

### **B) Faculty of Education – Student Senator**

As senators will note, last spring the seat for a student from the Faculty of Education on Senate went unfilled despite repeated calls for nominations. The student members of Senate have suggested that due to the scheduling of most Bachelor of Education programs, the April to March term of office is not feasible. Ordinarily, once established terms of office on Senate cannot be modified due to the operation of several provisions of the *University Act*; however, in similar circumstances (where no one was willing to stand for office in the spring or summer), the Vancouver Senate was able to modify its term of office for its student from the Faculty of Education when it fell vacant over the summer months to fall from October to October. The Nominating Committee agrees with the students' suggestion that the Okanagan Senate should attempt the same, and thus recommends as follows:

*That the Senate declare that from 2018 forward, the term of office for the Faculty of Education student member of Senate shall be from October 15 to October 14 of the following year.*





**a place of mind**  
THE UNIVERSITY OF BRITISH COLUMBIA

Office of the Provost & Vice-Principal Academic

**MEMORANDUM**

**Date:** September 21, 2018  
**To:** Okanagan Senate  
**From:** Patricia Lasserre, Provost and Vice-Principal, *pro tem.*  
**Re:** Annual Report of Research Institutes

A handwritten signature in blue ink, appearing to read 'Patricia Lasserre', written over a horizontal line.

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Pursuant to Senate Policy 0-5, please find attached the annual reports of the Research Institutes on the Okanagan campus and a summary of their activities prepared by the Vice-Principal Research, Dr. Phil Barker.

These reports and summary will be presented to Senate by Dr. Barker for information only pursuant to Policy 0-5.



2017/2018  
APRIL MARCH

# ANNUAL REPORT

# BRAES

Okanagan Institute for Biodiversity,  
Resilience, and Ecosystem Services

[braes.ok.ubc.ca](http://braes.ok.ubc.ca)

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THE UNIVERSITY OF BRITISH COLUMBIA



## BRAES as a place of:

### RESEARCH

BRAES is committed to producing world-class research that will distinguish UBC Okanagan as a place of excellence in the fields of biodiversity and environmental sustainability. We are continually striving to enhance our research capacity and impact, locally and globally. In so doing, we increase our ability to train, nurture and empower the next generation of leaders.

### LEARNING

BRAES is a place of lifelong learning, creating opportunities for institute members and the broader community to engage in knowledge sharing activities. In addition, through its dedicated research facilities and organization of scientific activities, BRAES provides an enhanced training environment for undergraduate and graduate students.

### ENGAGEMENT

BRAES values community engagement and non-academic partnerships as a means of leveraging the relevance and impact of our work. BRAES members have on-going collaborations with more than 50 government, non-government, community, and international organizations.

### INTERNATIONALISM

BRAES aims to be a portal for global engagement, connecting our campus community to the world. Our members currently carry out research on seven continents, with active projects in places such as the Great Barrier Reef, the Galapagos Islands, the Nepalese Himalayas and the South African Succulent Karoo.

### INNOVATION

Today's environmental challenges are wicked problems, for which no clear solution exists. By facilitating interdisciplinary collaboration, BRAES creates a place for ideas to incubate, leading to innovative outcomes that respond to the needs and imperatives of today's society.



# BRAES

## at a Glance

### 2017-2018



30 faculty members

Over 170 student and postdoctoral trainees

6000 sq. ft. of dedicated research laboratory space

Numerous affiliated laboratories

\$3.2 million in research funding in 2017-2018  
Of which \$2.7 million are directly managed by UBC

140 scientific publications in 2017-2018

Partnerships with more than 55 non-academic organisations



# BRAES Highlights 2017-2018

I. Walker

**More than 20 MSc, MFA and PhD Graduates**

**More than 100** events including: research forums, research seminars, invited guest speakers, workshops, research group meetings and social events

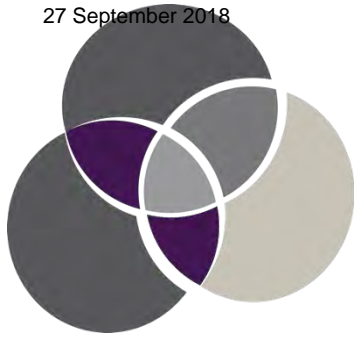
**Co-hosting conferences and events with partner organizations**

**More than 1500 attendees** to BRAES events from the campus community and the general public

New events led by students such as as the **Agroecological Exchange**.

Web-streaming from UBC Vancouver of the **Biodiversity Seminar Series** organized by the Biodiversity Research Centre.





INSTITUTE FOR  
COMMUNITY  
ENGAGED RESEARCH



INSTITUTE FOR COMMUNITY ENGAGED  
RESEARCH - ICER

ANNUAL REPORT 2017-2018



# ICER ANNUAL REPORT 2017-2018

## Highlights 2017-2018

The Institute for Community Engaged Research (ICER) connects researchers from a diverse range of disciplinary backgrounds. We share a commitment to research that supports diversity, equity, and social justice. The Institute facilitates the participation of community members, organizations, students (both graduate and undergraduate, domestic and international), and academics in undertaking effective research. It is a hub for building relationships, collaboration, and effective knowledge creation and exchange. This past year, ICER has been highly successful in achieving these goals.

This year, ICER's annual report devotes considerable attention to clearly articulate the relationship of ICER's mission and vision to UBC's new strategic Plan - *Shaping UBC's next century*. This planning document is designed to identify priorities and guide research, learning and service over the next ten years. We clearly recognize its importance. We believe that the main thrust of the plan closely aligns with ICER's existing mission and vision and that the Institute and its constituent members are clearly positioned to take a critical and central role in moving this vision forward on the Okanagan campus.

### ACADEMIC MEASURES

In the 2017-2018 reporting period ICER members<sup>1</sup>:

- Secured **\$1,423,578** from 33 new grants and contracts, and manage a further **\$2,320,965** in 28 ongoing grants and contracts, and are involved in grants currently under review worth **\$4,572,825**
- Authored and coauthored over 38 peer-reviewed articles, and have 19 articles submitted or under review
- Supervise 54 Masters and 46 Ph.D. students
- Graduated 12 Masters and 4 Ph.D. supervised students

### ACTIVITIES AND PROJECTS

In the 2017-2018 reporting period ICER members:

- Held a strategic visioning process with Institute's membership
- Hosted the Starting a Conversation series with 8 speakers from September 2017 – March 2018 attended by 55 students, staff and faculty

---

<sup>1</sup> Please note 19/33 members provided their reporting materials and 2/33 were on leave.



## ICER ANNUAL REPORT 2017-2018

- Hosted the Feminist Research speaker series with 5 speakers attended by 48 students, staff and faculty
- Obtained funding to develop the UBC Okanagan Research Portal with RSEDIC and Innovation Library
- Collaborated with the En'owkin Centre to develop Reconciliation Training materials and processes and deliver training workshops for the City of Kelowna
- Continued the ICER Scholarship Program for UBC Okanagan Graduate Students

### OUTREACH AND COMMUNICATION

- Partnered with more than 31 community organizations and other research institutes
- Hosted events that have been attended by more than 250 participants
- Received considerable media attention through events such as the Homeless Mapping Research Project
- Enhanced UBC Okanagan's visibility and reputation locally and internationally

### REVIEWING STRATEGIC GOALS 2016-2017

- Form an editorial board for ICER press (in-process;)
- Foster relationships with the community at large to facilitate opportunities to address social issues through research and knowledge mobilization opportunities (ongoing)
- Develop relationship with Student Learning Services around community research opportunities (considerable effort resulting in actively supporting nascent city studio program)
- Work with the UBC Okanagan Development office to pursue other funding opportunities (assistance with Central Okanagan Foundation grant, ongoing)
- Continue to pursue excellence in Community Engaged Research

### LOOKING AHEAD TO 2017-2018

- Our newly formed editorial board will develop editorial policies for ICER press,
- We will carry on fostering and supporting relationships with the community - the portal project will provide opportunities to support this initiative,
- We will further consolidate the relationship with Student Learning Services – this will be partially achieved through our co-initiative with the City Studio program,
- We will work with the UBC Okanagan Development office to pursue other funding opportunities - in pursuant of additional funds to support specific programs such as the ICER Scholarship, and



## ICER ANNUAL REPORT 2017-2018

- We will continue to pursue excellence in Community Engaged Research and growing the Institute to include, represent and support researchers and community partners working in our field of research.

We have continued to nurture relationships with other UBC Okanagan institutes and departments who work in the realm of community engaged research. We also continue to reach out and partner with a growing number of community organizations.

ICER researchers work in communities around the globe and throughout the Pacific Rim. We maintain active affiliations with many partner organizations. We have sustained our commitment to strong research partnerships that support knowledge creation and exchange. Partnerships which in turn promote equality, equity, and justice at the local, national, and international levels. As this Annual Report demonstrates, these broad objectives are clearly represented in the activities that ICER has initiated, supported and facilitated over the past year.



Jon Corbett  
Director of the Institute for Community Engaged Research  
July 31, 2018

ICER respectfully acknowledges the Syilx Okanagan Nation and their peoples, in whose territory we live and work.





Institute for Healthy Living and Chronic Disease Prevention

GENERATING INNOVATIVE SOLUTIONS  
TO SUPPORT HEALTHY LIVING

**Annual Report 2017 - 2018**

March 31, 2018

Institute for Healthy Living and Chronic Disease Prevention



**Institute for Healthy Living and  
Chronic Disease Prevention**

PARTNERS IN RESEARCH FOR BETTER HEALTH





## Our Vision

The Institute for Healthy Living and Chronic Disease Prevention is an innovative and collaborative research centre that places UBC Okanagan in the forefront of community-based health promoting research through advancing research methods, building research capacity and fostering the use of knowledge in ways that benefit individuals, families and communities, and reduce the burden of chronic disease.

## Our Mission

The mission of the Institute for Healthy Living and Chronic Disease Prevention is to create and use new knowledge to enhance healthy living and chronic disease prevention through the development of interdisciplinary and community-based collaborations.

**In 2017-2018 over 2320 people attended our knowledge exchange events.**



## EXECUTIVE SUMMARY

The Institute for Healthy Living and Chronic Disease Prevention (IHLCDP), now in its tenth year, has continued to expand its activities to support the growth and impact of health research through new research initiatives, community partnerships, and innovative knowledge products. Over the past year, our IHLCDP Associates have obtained over \$3.4 million dollars in external research funding, published over 120 articles in leading peer-reviewed journals, and received career awards as well as awards for their research achievements and knowledge projects. In addition, IHLCDP Associates have been actively involved in establishing research clusters on our campus. The outstanding research of our IHLCDP Associates has been frequently featured on the UBCO website and in the media.

Other achievements during the past year include the following:

- Our researchers were provided with expanded opportunities for knowledge exchange and community engagement with 44 IHLCDP hosted or co-hosted events, drawing an attendance of 2300 people.
- A new IHLCDP website was developed to profile the emergence of research clusters, new partnerships (e.g., SMP Chronic Disease Prevention Program; Work Wellness and Disability Prevention Institute; First Nations Health Authority), and featured research.
- The Institute led UBCO's involvement with Interior Health and other stakeholders in continuing to build the Regional Alliance for Rural Health to support action-oriented, community-engaged research collaborations that strengthen health and wellbeing in rural communities and enrich educational programs.
- Through our Campus Health VOICE project, we have engaged faculty and students in research and action to promote wellbeing on campus, and participated on the UBC Wellbeing Steering Committee and the Wellbeing at UBC Okanagan Advisory Committee.
- Research teams have benefits from consultations and support with development and implementation of knowledge exchange activities and partnerships.
- Research training opportunities have been provided for undergraduate and graduate students.



# Annual Report 2017-2018



THE UNIVERSITY OF BRITISH COLUMBIA  
Materials & Manufacturing Research Institute (MMRI)

[mmri.ubc.ca](http://mmri.ubc.ca)

Collaborative Expertise for Innovative Solutions

#### Contact

MMRI, The University of British Columbia  
EME 2131, 1137 Alumni Avenue  
Kelowna, BC Canada V1V 1V7  
+1 (250) 807-9108 [info.mmri@ubc.ca](mailto:info.mmri@ubc.ca)



# SUMMARY & HIGHLIGHTS

- **July 1, 2017:** The Director appointed by the VPR, UBC Okanagan.
- **September 1, 2017:** Institute website launched; hiring process of the institute staff began.
- **January 1, 2018:** The MMRI Research Engineer joined the institute.
- **January 29, 2018:** The MMRI Administrative Assistant joined the institute.
- **February-April, 2018:** Multiple meetings held between the MMRI Director and Department Heads and Leads of other major initiatives at UBC as related to materials and manufacturing clusters to harmonize the institute's activities and ensure its bi-campus collaboration mechanism.
- **May 24, 2018:** MMRI Research Cluster Leads appointed on both campuses, as well as Lead for a cross-disciplinary Design-for-Industry 4.0 research and training initiative at UBC.
- **June 1, 2018:** The Management Committee formally formed and met in July.
- **June 6, 2018:** Formal call for profile submissions announced, for both original and new members.
- **40** profiles collected from academic members (UBC and external) towards building a comprehensive people-expertise-facility matchmaking database.
- **27** companies approached MMRI since July 2017 to initiate university-industry collaborative projects.
- **10** collaboration opportunities facilitated between faculty members in different disciplines and universities.
- **\$5,935,036** received by academic members as research grants.
- **13** team-based multidisciplinary proposals coordinated by MMRI.
- **173** peer-reviewed articles published by MMRI members.
- **8** events organized/sponsored to promote the institute and identify potential new opportunities for partnership.
- **A Contribution to Organizations (CTO)** funding approved by the National Research Council-Industrial Research Assistance Program (NRC-IRAP) for MMRI to provide multidisciplinary technical services in materials and manufacturing to SMEs in B.C.
- **Accelerate Okanagan's** blog series on Advanced Manufacturing initiated and managed by MMRI.
- **Member success stories** continually promoted on UBC as well as major external media outlets.



# GOALS

Materials and Manufacturing Research Institute (MMRI) is a multidisciplinary, interdepartmental research hub at the University of British Columbia (UBC) fostering collaboration between local, national and international R&D sectors.

**Mission:** The mission of MMRI is to build on existing strengths of UBC on materials and manufacturing research and create new opportunities for multidisciplinary research in related emerging areas through shared knowledge and network-based funding.

**Vision:** MMRI will be a role model to link ‘core’ and ‘applied’ science and contribute to knowledge advancement in multidisciplinary research areas of advanced materials and manufacturing through close partnership between faculty at the University of British Columbia and other sectors of academia, industry and government organizations, and by world-class training of students and scientists, and dissemination of high-quality research.

**Research Strategy:** Today’s global research in the areas of advanced materials and manufacturing is all about making value-added products that are smarter, more durable, and more energy-efficient. New materials with improved multi-functional (e.g. mechanical, thermal, electrical, chemical, and biological) properties are being researched as key enablers for major industrial innovations and for the competitiveness of enterprises across the entire technological spectra. At the same time, innovations in manufacturing methods are being pursued to enhance the quality of products through new material processing technologies, while minimizing environmental impact and manufacturing costs. Once integrated optimally, advanced materials and manufacturing research significantly contribute to the economic prosperity and social well-being of industrial regions and countries.

A key challenge in the above ‘materials’ and ‘manufacturing’ integration, however, is that the processing technologies and manufacturing standards can vary rapidly and widely for a given material category and from one target application to another. As an example, the same light and yet very strong fiberglass composite material can and (economically) should be designed and manufactured differently when it is used in a relatively small mechanical component, versus in a large building structure against earthquake damage. As another example, the fabrication method and dispersion levels applied during manufacturing of nano-scale electromagnetic devices in biomedical applications must be quite different than those intended for aerospace structures under lightening risk.

As such, in order to maximize the efficiency and applicability of materials research projects in the real manufacturing world, it is strongly believed that the structure of a new research institute should be of multidisciplinary nature and based on an ‘application-based’ strategy, rather than the traditionally accepted ‘material-type’ based strategy. This is the working principle of our institute.



The logo for RSEDIC is centered at the top of the page. It features the acronym 'RSEDIC' in a large, bold, dark blue sans-serif font. Below the acronym, the full name 'Regional Socio-Economic Development Institute of Canada' is written in a smaller, lighter blue sans-serif font. The background of the entire top section is a photograph of a modern building with a glass and steel facade, viewed from a low angle looking up.

# RSEDIC

Regional Socio-Economic Development Institute of Canada

## **Annual Report 2017-2018 Academic Year**

### **Executive Summary:**

The Regional Socioeconomic Development Institute of Canada (RSEDIC) was created in 2015 to connect with communities, both locally and internationally. Working at the forefront of UBC Okanagan's core strategic research themes, RSEDIC's purpose is to impact regional economies, and to provide interdisciplinary research and training opportunities for faculty and graduate students. RSEDIC houses a number of active interdisciplinary research projects, and is involved in major cross-campus initiatives. 2017-2018 was a transitional year for RSEDIC, with the addition of an Associate Director and a Research Project Manager. Strategic planning for the Institute was undertaken in October 2017, where a vision for RSEDIC was developed.



2017/2018  
APRIL MARCH

# ANNUAL REPORT

# BRAES

Okanagan Institute for Biodiversity,  
Resilience, and Ecosystem Services

[braes.ok.ubc.ca](http://braes.ok.ubc.ca)

I. Walker



a place of mind

THE UNIVERSITY OF BRITISH COLUMBIA



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# BRAES Highlights 2017-2018

I. Walker

**More than 20 MSc, MFA and PhD Graduates**

**More than 100** events including: research forums, research seminars, invited guest speakers, workshops, research group meetings and social events

**Co-hosting conferences and events with partner organizations**

**More than 1500 attendees** to BRAES events from the campus community and the general public

New events led by students such as as the **Agroecological Exchange**.

Web-streaming from UBC Vancouver of the **Biodiversity Seminar Series** organized by the Biodiversity Research Centre.



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## BRAES Objectives and Directions 2018-2019



- Continuing to provide an enriched graduate training environment
- Providing support for the activities of new Eminence funded research clusters in areas of strategic importance for BRAES
- Seeking new sources of funding for BRAES operations and laboratory space upgrades
- Increasing the Institute's national and international visibility through improved communication materials (*website, brochure, newsletters & research profiles*)
- Continued high impact, regionally and globally relevant research



## 1. BRAES STRATEGIC DIRECTIONS



### 1.1 Vision

To advance efforts to protect species and ecosystems through interdisciplinary research, training and community engagement.

### 1.2 Mission

To conduct fundamental and applied research in biodiversity and conservation that has regional and international impact.

To become a leading international centre for the training of highly qualified undergraduate, graduate and postgraduate personnel. These researchers will be uniquely positioned to bridge disciplinary barriers to inform and guide effective conservation research and management strategies.

To foster strategic partnerships with First Nations, government, industry, and non-governmental organizations and to maintain active engagement with community stakeholders through educational outreach and stewardship activities.

### 1.3 Links with UBCO Research and Strategic Plans

Through our research and community engagement projects in ecology, sustainability

and environmental science, BRAES fully supports the UBC strategic vision of *pursuing excellence in research, learning and engagement to foster global citizenship and advance a sustainable and just society across British Columbia, Canada and the world.*

BRAES Research Activities are strongly aligned with two of the eight areas of research priority identified in the 2009 UBC Okanagan Strategic Research Plan: *Managed Land Use, Agriculture and Natural Products* and *Sustainable Environments and Populations*. Our work is also aligned with the emerging *Ecological Resilience and Recovery* theme of research priority as articulated in the 2017-2022 UBC Okanagan Strategic Research Support Plan. BRAES research output contributes to supporting campus strategic goals of increasing the impact and quality of scholarship and increasing our competitiveness to obtain external research funding.

Lastly, BRAES activities are highly interdisciplinary and strongly place-based. Our members practice community-engaged research, working with a broad range of partner organizations, including First Nations, local, regional and provincial governments as well as not-for-profit organizations and the private sector. In all of our projects, BRAES members are seeking to contribute their expertise to advance positive change towards a sustainable world.



## 2. BRAES OPERATIONS



### 2.1 Governance

The VP Research at UBC Okanagan appoints the Institute Director who is a tenured Associate Professor or higher rank and who is presently a UBC Okanagan faculty member. The BRAES director reports to the VP Research.

The Director is responsible for coordinating the operations of BRAES, including its administrative staff and budget. The Institute has a Steering Committee that consists of the Director (Chair), the Deans of the Irving K. Barber School of Arts and Sciences (IKBSAS) and the Faculty of Creative and Critical Studies (FCCS), 3 or 4 faculty Institute members and 1 Graduate student member. Faculty steering committee members are elected by the membership for a 3 year period. The graduate student member is elected by other student members of BRAES for a 1 year term.

The Director supervises the Coordinator who is responsible for the day-to-day Institute activities and for planning, coordination, and communication within the Institute.

#### Current Steering Committee Members:

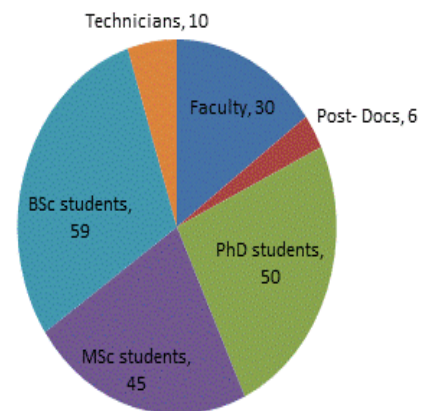
- Dr. Lael Parrott, Institute Director
- Dr. Michael Evans, Dean's delegate, IKBSAS.

- Dr. Greg Garrard, Dean's delegate, FCCS.
- Dr. Melanie Jones
- Dr. Bob Lalonde
- Dr. Rebecca Tyson
- Graduate Student: Rachel Field
- Carolina Restrepo-Tamayo, Institute Coordinator

### 2.2 Membership

As of March 2018 BRAES has about 200 members distributed as follows: 30 Faculty Members, 6 Post-Doctoral Researchers, 50 PhD Students, 45 Masters Students, 59 Undergraduate Students and 10 Technicians (see Figure 1).

**Fig. 1 : BRAES MEMBERS 2017-2018**





For a detailed list of faculty members please consult Appendix 1.

## 2.3 Staff and Administration

The institute has a director who is appointed by the VP Research. Dr. Lael Parrott is the current director.

BRAES has a part-time coordinator who is responsible for planning, coordination, and communication within the BRAES Institute by:

- Organizing BRAES conferences, workshops, training sessions, retreats and annual general meetings.
- Preparing the Institute's annual activity reports
- Preparing budgets and forecasting requirements
- Facilitating collaborative agreements involving researchers, granting agencies and departments within the institute
- Promoting BRAES research to the broader community, in collaboration with university media relations officers
- Securing industry and other partners of BRAES for long-term collaborations
- Writing grants for BRAES and working with the Development Office to secure external funding for BRAES
- Developing and maintaining the BRAES web site
- Developing an annual budget in collaboration with the institute director



### 3. BRAES RESEARCH



#### 3.1 Context

BRAES research has focused on identifying and managing species and habitats at risk, understanding and predicting biotic responses to environmental change, and sustaining resources and ecosystem services in natural and managed landscapes.

Our underlying motivation is to increase scientific understanding of ecological systems and to inform management and planning decisions that promote the preservation of biodiversity and ecosystem services in terrestrial, marine and aquatic systems.

BRAES members work from the genetic to landscape scales and use a wide range of field, laboratory and quantitative methods. BRAES facilitates multidisciplinary collaboration, leading to innovative research that transcends traditional approaches to ecology and conservation.

#### 3.2 Research Themes

BRAES research falls under six inter-related themes (Figure 2).



FIGURE 2: BRAES RESEARCH THEMES

#### Conservation Biology

Conservation biology focuses on the identification and description of habitats necessary to support species at risk, and the development of scientific tools to support the conservation of these habitats. BRAES researchers use a range of tools to examine how species may respond to changing environments, habitat loss, and modified landscapes. The results of this research are applied to address the effectiveness of conservation laws and policies and to inform decision-makers on how best to conserve biodiversity in terrestrial, marine and freshwater ecosystems.



## **Landscape and Natural Resource Management**

Research under this theme integrates ecology with human impacts on the landscape, searching for the most environmentally sustainable methods to use our natural resources. Projects include studying the impacts of forestry on forest hydrology and biodiversity, ecological restoration following human disturbances, modeling the impacts of land use change on key ecosystem services, advanced agro technology, and land use planning to sustain biodiversity.

## **Water Conservation & Quality**

Water provisioning is a key ecosystem service on which humans depend and which is critical to supporting all terrestrial life-forms. Research in this area focuses on sustaining this ecosystem service by enhancing the quality of the terrestrial and aquatic environments that filter and modulate fresh water supplies. Projects include studies of ecotoxicology in aquatic ecosystems, water quality monitoring, and relationships between land use and water quality and availability.

## **Computational Ecology**

Research in computational ecology combines quantitative methods with data to model and describe population and community dynamics in time and space. Methods range from statistical modeling of diversity and heterogeneity to the development of dynamic models using analytical or simulation-based approaches. These tools can be used to predict the effect of natural or human-caused disturbances on species and ecosystems or to predict the spatial spread of an invasive species across a landscape, for example. This theme reflects the

strong links in BRAES between the mathematical and ecological sciences, leading to development of innovative methods in environmental modelling and data analysis.

## **Social-Ecological Systems**

This theme lies at the interface between the environment and society. The study of social-ecological systems relates to how humans shape and are reshaped by their natural environments, and includes the study of cultural perceptions of the environment. Research under this theme explores the nature of social-ecological resilience, adaptation of human communities to environmental change, and how cultural representations of nature influence human behavior.

## **Biodiversity and Ecological Interactions**

This theme involves the study of the inter-relationships between biodiversity and ecosystem processes, from genetic to ecosystem and landscape scales. BRAES researchers working under this theme study diverse questions related to community assembly, invasive species, population dynamics and ecological connectivity, for example. A strong emphasis within this theme is on soil microbiology: understanding the contribution of mycorrhizal fungi and other micro-organisms to soil fertility and nutrient cycling in natural and agro-ecosystems. The fundamental work carried out under this theme provides the scientific foundation for conservation, restoration, and management efforts and for understanding relationships between biodiversity and ecosystems services provisioning.



### 3.3 Record of Publications, Students and Research Funding 2017-2018:

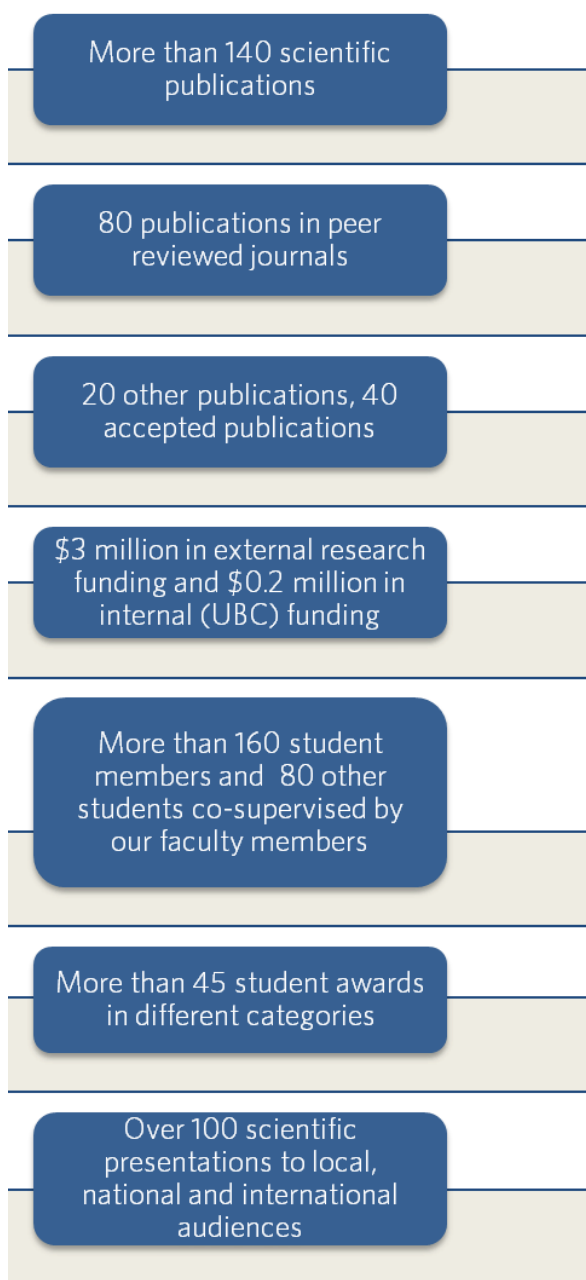


FIGURE 3: BRAES RESEARCH RECORDS  
2017-2018

See Appendix 2 for a selected list of publications

### Table 1: Sources of external funding:

%	Funding Organization
24.3%	NSERC
13.1%	Agriculture and Agri-Food Canada
7.3%	Canada Foundation for Innovation
5.5%	BCKDF
4.0%	SSHRC
3.4%	Canada Research Chairs
3.0%	Habitat Conservation Trust Fund
2.5%	Liber Ero Foundation
2.5%	Nunavut Arctic College
17.2%	Others

\* Sources: RISE and members annual reports.

For a selected list of our members projects please go to appendix 4

### 3.4 Space and existing resources

A CFI grant was secured in 2004. This helped support the construction of the 3rd floor of the Science Building, including about 6000 square feet of BRAES laboratory facilities that are equipped with state-of-the-art instrumentation. More specifically, the facilities include: Molecular Lab, PCR Product Room, DNA Sequencing Room, Prep Room, Clean Cold Room, Dirty Cold Room, Equipment Room, Dirty Ecology Lab, Microscope Room, Culture Room, Computing/GIS Room, Physiology Lab, and the Radiation Lab

These facilities are being used by BRAES members to conduct their research and to accomplish the BRAES mission. BRAES members have been very productive in 2017-2018 with about 150 publications and over \$3.0 million in grant funding. This level of productivity would not be possible without the



facilities.

### 3.5 Partnerships

BRAES values partnerships within the University and with government, non-government, community, and international organizations. Partnerships include activities such as joint research projects, funding agreements, student supervision, dissemination or application of research.

Below, we list a few of the groups with whom we have established collaborations:

#### Within The University of British Columbia

- Institute for Community Engaged Research—ICER (Okanagan)
- BC Regional Innovation Chair in Water Resources and Ecosystem Sustainability (Okanagan)
- Beatty Biodiversity Research Centre (Vancouver)
- Centre for Applied Conservation Biology (Vancouver)

#### Canadian governmental agencies

- Environment Canada
- Canadian Wildlife Service
- Parks Canada
- Agriculture Canada
- BC Ministry of Forest, Lands and Natural Resources Operations
- BC Parks
- Canadian Food Inspection Agency
- Department of Defense
- City of Armstrong
- Natural Resources Canada
- Regional District of Central Okanagan

- City of Kelowna
- District of Lake Country
- Okanagan Basin Water Board
- BC Ministry of Agriculture
- Canadian Department of Fisheries and Oceans

#### International governmental agencies

- US National Park Service
- US National Forest Service
- Montana Fish, Wildlife and Parks
- US Department of Agriculture
- L'Institut National de la Recherche Agronomique (France)

#### Not for profit organizations

- Island Conservation
- Okanagan Basin Water Board (OBWB)
- BC Wildlife Federation
- Conservation Northwest
- Okanagan Collaborative Conservation Program (OCCP)
- South Okanagan Similkameen Conservation Program (SOSCP)
- Wildlife Conservation Society
- American Museum of Natural History
- Water Stewardship Council
- Nature Trust of BC
- Great Northern Landscape Conservation Cooperative
- British Columbia Institute of Agrology Okanagan Chapter

#### Private sector

- Tolko
- Tree Fruit Growers Association Dobson Engineering Ltd.
- Summit Environmental
- Summerhill Winery
- Ecoscape Environmental Consultants Ltd.



### 3.6 Interdisciplinary Research

BRAES researchers work in a range of environments and locations around the globe. They maintain active affiliations with many partner organizations, including government ministries and NGOs. BRAES is committed to promoting research partnerships and carrying out interdisciplinary research that will directly inform environmental policy and management decisions.

Affiliated research groups and laboratories:

- Biodiversity and Landscape Ecology Research Facility
- Complex Environmental Systems Laboratory
- The Ecological and Conservation Genomics Lab
- Fragment Analysis and DNA Sequencing Services (FADSS)
- Forest and Mycorrhiza Ecology & Ecophysiology Research Group
- Soil Microbial Ecology Group

#### Vertebrate Conservation Discussion Group

The group is formed by: Dr. Karen Hodges, Dr. Michael Russello, Dr. Jason Pither, Dr. Adam Ford, and their lab members. This group meets weekly from September through April.

#### Computational Ecology Research Group

The group is formed by: Dr. Lael Parrott, Dr. Rebecca Tyson, Dr. Robert Lalonde, Dr. Jason Pither and their lab members. The group meets weekly through the academic year.

#### Soil Microbial Ecology Group

The group is formed by: Dr. Louise Nelson, Dr. Melanie Jones, Dr. Dan Durall, Dr. Miranda Hart, Dr. John Klironomos and their lab members.

### 3.7. Research Groups within BRAES

Our Institute has formed thematic research groups that meet every week to present their recent work, to discuss research papers of interest, or to have invited guests present their work.

The current groups are:



## 4. BRAES ACTIVITIES



### 4.1 Speaker Series, Seminars, Workshops, Conferences and Forums

#### 4.1.1. BRAES partners in the classroom speakers series

This speaker series brings BRAES' non-academic partners to campus to speak about the work they do and the challenges and issues they face in their professions. The talks are held during scheduled undergraduate class times so that our undergraduate students have the opportunity to interact with scientists and practitioners working in non-academic environments. All BRAES members and the general public are also invited to attend. An informal networking session follows each talk to facilitate discussion and interaction with the speaker.

#### 4.1.2 Distinguished Guest Speakers

BRAES hosts 2-3 distinguished scientists per year to speak on environmental topics of broad interest. The guest stays on our campus for about a week to have the opportunity to interact and meet with our members, and deliver a public talk.

#### 4.1.3 Research Seminars

In addition to our distinguished speakers series, BRAES organizes research seminars, where other academics visiting our campus present their research to our members and the campus community.

#### 4.1.4 Workshop Series

The series includes a succession of workshops that are offered during the school year on relevant topics of interest to researchers in the university community and BRAES partner organizations.

#### 4.1.5 Biodiversity Research Seminar Series streaming from the Biodiversity Research Centre in Vancouver

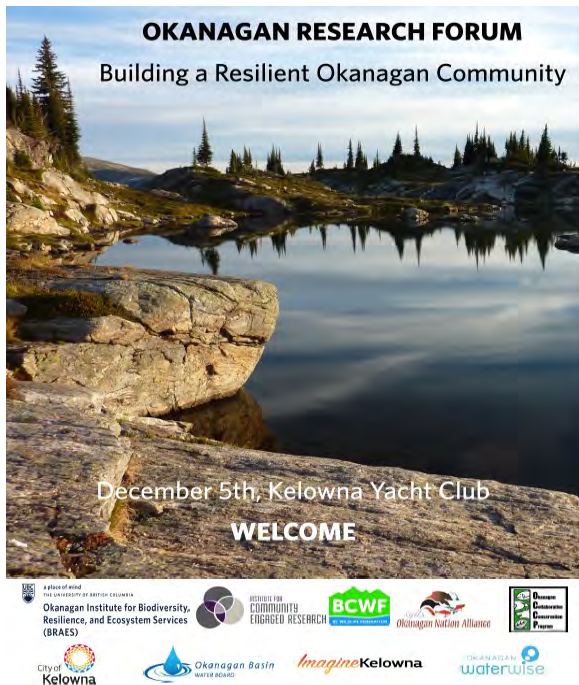
In January 2016, BRAES began a partnership with the UBC Biodiversity Research Centre to stream to our campus their renowned Biodiversity Research Series. Every Wednesday at noon the Centre hosts invited researchers in biodiversity to speak in the Beaty Auditorium at the UBC Biodiversity Museum. From September 2017 through April 2018, we were able to stream from UBC Vancouver 23 presentations and we had 2 live presenters in Kelowna that were streamed into the Beaty Auditorium. Based on this success, we will continue working together with the Biodiversity Research Centre for the 2018-2019 academic year.



#### 4.1.6 Okanagan Research Forum

BRAES and its partner organizations host every two years the Okanagan Research Forum. The next Forum will take place in December 2018.

The most recent forum took place on December 2016 with the topic “Building a Resilient Okanagan Community”.



In 2018, the forum topic will be: “Eating the Okanagan, Exploring Change in our local food systems”. The event will be hosted by the UBC Institute for Biodiversity, Resilience, and Ecosystem Services (BRAES) and the UBC Institute for Community Engaged Research (ICER), in collaboration with partner organizations. The Forum will encourage knowledge sharing and dialogue between UBC Okanagan researchers and the broader community, including government and local organizations. This year’s theme is a particularly relevant topic for the Okanagan

considering the pressures agricultural producers in the region face due to climate change, population growth, consumption, production and changes in land use.

#### 4.1.7 Agroecological Exchange



The 2018 Central Okanagan Agro ecological Exchange was a very successful event cosponsored by BRAES, The Central Okanagan Food Policy Council, The Okanagan Fruit tree project among others.

The event was lead and developed by BRAES graduate students, with attendance of more than 65 participants, including community members, farmers, students and researchers.



This was an engaging event that improved connectivity between UBCO and the local community. For researchers, this was an opportunity to do some great local outreach, sharing their knowledge in their subject area with farmers and community members. For those involved in local food production, this was a great opportunity to find out what kind of agricultural research is going on at UBCO and pose ideas and questions specific to the problems they face day to day. The goal was to share the attendees' collective agro ecological knowledge. This event will be hosted again in 2019.

on March 13 we cohosted the workshop: "Macrophotography of microscopic things" with 30 participants. This is a very important partnership for the Institute and we are working together in planning new events for the 2018-2019 academic year.

#### **4.1.8 BRAES Posters Hall**

The BRAES posters session was launched in March 2017, as part of Celebrate Research week. Since this time, the hall in the Science building on the 3rd floor, features posters from all our members; the hall is updated with new posters frequently.

#### **4.1.9 BRAES Social Events**

Once or twice a year our institute hosts a social event where all our members have the opportunity to share stories and successes in an environment different than the research one. Last year BRAES hosted one social event at the end of April.

#### **4.1.10 Partnership with BC Institute of Agrologists (BCIA)**

Every year as part of our partnership with the BCIA, both organizations cohost different events. During the 2017-2018 academic year BRAES and BCIA organized two events, on October 20th the workshop: "Watershed, fish and stream habitats: Water systems in boreal tropical forests" with about 40 participants, and,

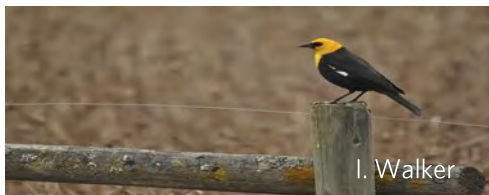


**Table 2: Summary of BRAES Events, 2017-2018**

BRAES EVENTS 2017-2018							
Year	Date	# of Events	Speaker	Type of Event	Event Name	Attend-ants	Virtual
2017	Jul-20	1	Dr. Justin Travis	Invited Speaker	Towards and improved Forecast for Biodiversity under Climate change	25	
2017	Jul-21	1	Dr. Greta Bocedi	Workshop	Introducing Range Shift-er: a platform for spatial, ecological and eco-modelling	15	
2017	Oct-20	1	Various	Workshop	Watershed, fish and stream habitats water systems in boreal and tropical forests	37	
2017	Nov-30	1	Dr. Colleen St. Clair	Distinguished Guest Speaker	Proactive Use of Reactive Behavior could enhance wildlife management	38	60
2017	Dec-05	1	Dr. Toby Spribille	Guest Speaker	How did lichen body plans evolve	24	
2018	Jan-18	2	Craig Pettitt	Film + Presentation	Primeval: enter the Inco-mappleux	108	
2018	Jan-25	1	Dr. Tom Sullivan	Invited Speaker	Salvage Logging and habitat Creation with woody debris: T conserve or not?	24	
2018	March	3	Various	Educational Walks	Birds, bugs and botany	15	
2018	Mar-07	1	Dr. Patricia Bowen	Classroom speaker Series	Use of drones and sensors to monitor and manage vineyards	20	
2018	Mar-13	1	Various	Workshop	Macrophotography of Microscopic Things	28	
2018	Mar-28	1	Dr. Nate Swanson	Distinguished Guest Speaker	Investigating tree community structure and dynamics: from phylogenies and traits to transcriptomes	65	75
2018	Apr-08	1	Various	Workshop	Agroecological exchange	65	
2017-2018		25	Various, see list attached	Biodiversity Seminar Series		325	
2017-2018		36	Computational Ecology Research Group (CERG)	Research Group Meetings		288	
2017-2018		24	Vertebrates Research Group	Research Group Meetings		240	
Sub totals						1317	135
100 Events						TOTAL	1452



## 4.2 Outreach Activities



### Website

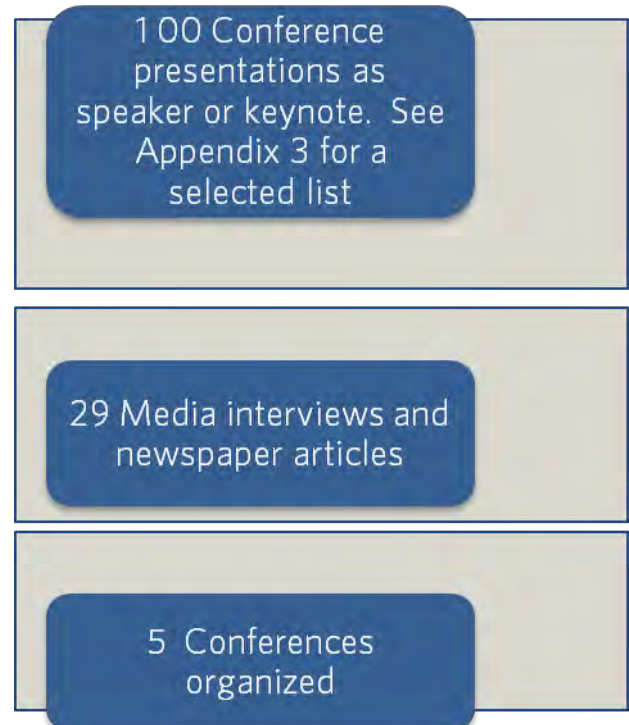
The Institute has an active website that is updated regularly with new information and activities. The website can be found here: <http://BRAES.ok.ubc.ca/>

### Outreach Activities:

BRAES, as stated in its goals, is working more and more with non-academic partners. During 2017-2018 BRAES co-hosted several events with partner organizations, see table 2 on page 18 for more information about our events.

### BRAES Outreach at a Glance

BRAES members were involved many other activities such as conference presentations, invited talks, meetings and workshops, media interviews and publications among others:







Invited Speakers



Community Events



Biodiversity Seminar Series



Agroecological Exchange



Research Group Meetings



Activities with Partners



## 5. BRAES CONTACT INFO

For general information or inquiries about  
BRAES, please visit our website at:  
<http://braes.ok.ubc.ca/> or contact:

### **Dr. Lael Parrott**

Director, the Okanagan Institute for Biodiversity,  
Resilience, and Ecosystem Services

Tel: 250-807-8122

Email: [lael.parrott@ubc.ca](mailto:lael.parrott@ubc.ca)

Or

### **Carolina Restrepo-Tamayo**

Coordinator, The Okanagan Institute for  
Biodiversity, Resilience, and Ecosystem Services

Tel: 250-807-9023

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## **APPENDIX 1: BRAES FACULTY MEMBERS**

- John Braun, Arts and Sciences
- Sylvie Desjardins, Arts and Sciences
- Aleksandra Dulic, Creative and Critical Studies
- Michael Deyholos, Arts and Sciences
- Daniel Durall, Arts and Sciences
- Sylvia Esterby, Arts and Sciences
- Adam Ford, Arts and Sciences
- Greg Garrard, Creative and Critical Studies
- Kevin Hanna, Arts and Sciences
- Miranda Hart, Arts and Sciences
- Karen Hodges, Arts and Sciences
- Nancy Holmes, Creative and Critical Studies
- John Janmaat, Arts and Sciences
- Melanie Jones, Arts and Sciences
- Laura Hooker, Arts and Sciences
- John Klironomos, Arts and Sciences
- Robert Lalonde, Arts and Sciences
- Karl Larsen Thompson Rivers University
- Bruce Mathieson, Arts and Sciences
- Susan Murch, Arts and Sciences
- Louise Nelson, Arts and Sciences
- Lael Parrott, Arts and Sciences
- Michael Pidwirny, Arts and Sciences
- Jason Pither, Arts and Sciences
- Scott Reid, Arts and Sciences
- Michael Russello, Arts and Sciences
- Rebecca Tyson, Arts and Sciences
- John Wagner, Arts and Sciences
- Ian Walker, Arts and Sciences
- Adam Wei, Arts and Sciences



## **APPENDIX 2: BRAES SELECTED LIST OF PUBLICATIONS**

A selected list of our member's publications  
can be requested from our Coordinator



## **APPENDIX 3: BRAES SELECTED LIST OF PRESENTATIONS**

A selected list of our member's presentations can be requested from our Coordinator.



## **APPENDIX 4: BRAES SELECTED LIST OF FUNDED RESEARCH PRO- JECTS**

A selected list of our member's Research projects can be requested from our Coordinator.



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a place of mind

THE UNIVERSITY OF BRITISH COLUMBIA

**Okanagan Institute for Biodiversity,  
Resilience, and Ecosystem Services  
(BRAES)**



## APPENDIX 2: BRAES SELECTED LIST OF PUBLICATIONS 2017-2018

1. Li, Q., **Wei**, X., Zhang, M., Liu, W., Giles-Hansen, K., and Wang, Y. 2018. The cumulative effects of forest disturbance and climate variability on streamflow components in a large forest-dominated watershed. *Journal of Hydrology*, 557:448-459. (IF: 3.48)
2. Li, Q., **Wei**, X., Yang, X., Giles-Hansen, K., Zhang, M., Liu, W. 2018. Topography significantly influencing low flows in snow-dominated watersheds. *Hydrol. Earth Syst. Sci.*, 22, 1947-1956, <https://doi.org/10.5194/hess-22-1947-2018> (IF: 4.43)
3. Wang, L., **Wei**, X., Bishop, K., Reeves, A. D., Ursino, N., and Winkler, R. 2018. Vegetation changes and water cycle in a changing environment. *Hydrol. Earth Syst. Sci.*, 22, 1731-1734, <https://doi.org/10.5194/hess-22-1731-2018>. (IF: 4.43)
4. Wu, D., Yu, X., Chu, S., Jacobs, D.F., **Wei**, X., Wang, C., Long, F., Chen, X. and Zeng, S. 2018. Alleviation of heavy metal phytotoxicity in sewage sludge by vermicomposting with additive urban plant litter. *Science of the Total Environment*, 633: 71-80. (IF:4.9)
5. Del Campo, A., X. **Wei**, Y. Wang, M. Gonzalez-Sanchis, A. García-Prats, I. Bautista. 2018.. Managing forests for water and enhanced climate resilience. *Streamline* (in press)
6. Lu, F. Huifeng Hu, Wenjuan Sun, Jiaojun Zhu, Guobin Liu, Wangming Zhou, Quanfa Zhang, Peili Shi, Xiuping Liu, Xing Wu, Lu Zhang, Xiaohua **Wei**, Limin Dai etc. 2018. The effects of national ecological restoration projects on carbon sequestration in China from 2001 to 2010. *Proceedings of the National Academy of Sciences (PNAS)* (in press). (IF:9.66)
7. Zheng, J., Juan A. Blanco, Xiaohua **Wei**, Chunjiang Liu. 2018. Optimal management for sustained productivity of *Metasequoia glyptostroboides* plantation forests in Shanghai. *Urban Forestry and Urban Greening*, 9(2), 64; doi:10.3390/f9020064 (IF:1.95)
8. **Wei**, X., Q. Li, et al. 2017. Vegetation cover - another dominant factor in determining global water resources in forested regions. *Glob Change Biol*. DOI:10.1111/gcb.13983 (IF:8.5)  
Meine van Noordwijk, Xiaohua **Wei**, Julia Jones, Irena F. Creed et al. 2018. CHAPTER 4. FOREST LANDSCAPE HYDROLOGY IN A 'NEW NORMAL' ERA OF CLIMATE AND LAND USE CHANGE. In *FORESTS and WATER: A Global Assessment Report Prepared by the Global Forest Expert Panel on Forests and Water* (Editors: Irena F. Creed and Meine van Noordwijk). IUFRO World Series (in press).
9. Meine van Noordwijk, Irena F. Creed, Julia Jones, Xiaohua **Wei**, et al. 2018. Chapter 2: The science of ten forest-water system perspectives as basis for assessing climate-forestwater-people relations. In *FORESTS and WATER: A Global Assessment Report Prepared by the Global Forest Expert Panel on Forests and Water* (Editors: Irena F. Creed and Meine van Noordwijk). IUFRO World Series (in press).
10. Goheen J, Augustine DJ, Veblen KE, Kimuyu DM, Palmer TM, Porensky LM, Pringle RM, Ratnam J, Riginos C, Sankaran M, Charles GK, **Ford AT**, Hassan AA, Jakopak R, Kartzinel TR, Kurukura S, Louthan AM, Odadi WO, Otieno TO, Wambua AM, Young HS, Young TP "Conservation lessons from large-mammal manipulations in East African savannas: the KLEE, UHURU, and GLADE experiments." (In Press) *Annals of the New York Academy of Sciences* doi: N/A. Date Accepted: April 6, 2018 IF = 4.71
11. Jacob AL, Moore JW, Fox CH, **Sunter E**, **Gauthier D**, Westwood AR, Ford AT. (In Press) "Cross-sectoral input for the potential role of science in Canada's environmental assessment." *FACETS* doi: 0.1139/facets-2017-0104 IF = NA, journal is too new.



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23. **Vanbianchi, C.**, M.A. Murphy, J. Pither, W. Gaines and K.E. Hodges. 2017. Habitat selection by Canada lynx: making do in heavily fragmented landscapes. Biodiversity and Conservation DOI 10.1007/s10531-017-1409-6. (accepted 7/17)
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27. **Jensen, Evelyn**, Joshua Miller, Danielle Edwards, Ryan Garrick, Adalgisa Caccone and Michael Russello. Temporal mitogenomics of the Galapagos giant tortoise from Pinzón reveals potential biases in population genetic inference. *JOURNAL OF HEREDITY* (accepted March 19, 2018). (TS) **(COVER)**
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30. Miller, Joshua M., Maud Quinzin, Nikos Poulakakis, Luciano Beheregaray, Ryan Garrick, Michael Russello, Claudio Ciofi, Danielle Edwards, Elizabeth Hunter, Washington Tapia, Danny Rueda, Jorge Carrión, James Gibbs, Adalgisa Caccone (2017) Identification of Genetically Important Individuals of the Rediscovered Floreana Galápagos Giant Tortoise (*Chelonoidis elephantopus*) Provide Founders for Species Restoration Program. *SCIENTIFIC REPORTS* 7: 11471 (8 pages). (accepted August 25, 2017). (TS)
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38. M.A. Mata, P. Greenwood, and R. Tyson (2018) The relative contribution of direct and environmental transmission routes in stochastic avian flu epidemic recurrence: An approximate analysis *Bulletin of Mathematical Biology* DOI 10.1007/s11538-018-0414-6 (accepted & published online Mar 2018)
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61. to *Environmetrics*, March, 2018.
62. Xiong, Y., Hu, X.J. and Braun, W.J. On the use of Moran's I statistic with spatio-temporal observations.
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64. Albert-Green, A., Braun, W.J., Dean, C.B. and Miller, C. A hierarchical point process with
65. application to storm cell modelling. Submitted in revised form to *Canadian Journal of Statistics*, April, 2018.
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70. Schultz, M. C., J. Zhang, X. Luo, O. Savchenko, L. Li, M. Deyholos and J. Chen (2017). "Impact of Low-Intensity Pulsed Ultrasound on Transcript and Metabolite Abundance in *Saccharomyces cerevisiae*." *Journal of Proteome Research* 16(8): 2975-2982. (Q1; ranked 14/78 in Biochemical Research Methods)
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74. Carturan, B., Parrott, L. and Pither, J. 2018. A modified trait-based framework for assessing the resilience of ecosystem services provided by coral reef communities. *Ecosphere*, accepted March 30, 2017.
75. Reiter, D., Meyer, W., Parrott, L., Baker, D. and Grace, P. 2017. Increasing the effectiveness of environmental decision support systems: lessons from climate change adaptation projects in Canada and Australia. *Regional Environmental Change*, in press version published online November 25, 2017.
76. Reiter, D., Meyer, W. and Parrott, L. 2017. Why Do NRM Regional Planning Processes and Tools Have Limited Effect? Presenting the Perspective of the End User. *Climate Risk Management*, 18, 66–74.
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ecological model of boat and whale movements in the St. Lawrence River Estuary (Canada). *Ecological Modelling*, 354, 72–87. (IF: 2.594)

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81. Carturan, B., Parrott, L., and Pither, J. Accepted March 28, 2018. A modified trait-based framework for assessing the resilience of ecosystem services provided by coral reef communities. *Ecosphere*. (TS) (IF: 2.49; rank: 53/153 in Ecology; Q2)
  
82. Pither, J., Pickles, B.J., Simard, S., Ordonez, A., and Williams, J.W. Accepted March 22, 2018. Belowground biotic interactions moderated the post-glacial range dynamics of trees. *New Phytologist*. (TS) (IF: 7.33; rank: 9/212 in Plant Sciences; Q1)
  
83. Tasmin, N., Abulizi, N., Pither, J., Hart, M.M., and D.L. Gibson. 2017. Linking the gut microbial ecosystem with the environment: does gut health depend on where we live. *Frontiers in Microbiology*. 8:1935. Link. (TS) (IF: 4.076; rank: 26/125 in Microbiology; Q1)
  
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85. Vanbianchi, C., Gaines, W.L., Murphy, M.A., Pither, J. and Hodges, K.E. 2017. Habitat selection by Canada lynx: making do in heavily fragmented landscapes. *Biodiversity and Conservation*. 26(14):3343-3361. Link. (TS) (IF: 2.265; rank: 13/54 in Biodiversity Conservation; Q1)
  
86. Van der Heyde M, Bennett JA, Pither J, Hart M. 2017. Longterm effects of grazing on arbuscular mycorrhizal fungi. *Agric Ecosyst Environ* 243:27-33. doi: <https://doi.org/10.1016/j.agee.2017.04.003>. Link. (TS) (IF: 4.099; rank: 1/56 in Agriculture - Multidisciplinary; Q1)



**APPENDIX 3: BRAES SELECTED LIST OF PRESENTATIONS 2017-2018**

1. Wei, Xiaohua, an invited presentation at International Ecological Congress, Beijing, August 20-25, 2017, "Forest cover change and water yield in large forested watersheds: A global synthetic assessment"
2. Wei, Xiaohua, an invited presentation at Guangxi Institute of Botany (GXIB), Guangxi Zhuang Autonomous Region and Chinese Academy of Sciences, August 15, 2017, "Research design"
3. Wei, Xiaohua, an invited presentation at Chinese Bamboo Center, Beijing, June 4, 2017, "An ecological perspective on forest-water relationship"
4. **Abby Wang** and Xiaohua Wei, a poster at American Geophysical Union conference, in Dec. 11-15 2017, New Orleans, USA, "The effects of thinning on forest carbon and water coupling in a young lodgepole pine forest."
5. Ford AT\* (2018) The carnivore carnival: from community ecology to coexistence. Oral Presentation, March 23rd. Natural Resources and Environmental Studies Institute (NRESI) Colloquium Series. Prince George, BC. [National]
6. Ford AT\* (2017) Trophic traps: Inferring species relationships from camera trap imagery. Oral Presentation, May 8th. Canadian Society of Ecology and Evolution. Victoria, BC. [National]
7. Ford, AT\*. (2017) The ecological impact of large carnivores: context and mechanisms. Richard E. Peter Biology Conference, University of Alberta, Edmonton, AB. Keynote speaker. [National]
8. Ford, AT\*. (2017) A new agenda for wildlife research in the Okanagan BC Wildlife Federation, Kelowna Chapter, Kelowna Fish and Game Club, Kelowna, BC. [Local]
9. Ford, AT. (2018). Habitat models using resource selection functions. Vertebrate Conservation Group Seminar Series, University of British Columbia- Okanagan Campus.
10. Ford AT. 2017 Trophic traps: Inferring species relationships from camera trap imagery. Oral Presentation, June 24th. American Society of Mammalogists Conference. Moscow, ID.
11. Colla S\*, McCune J, Carlsson A, Davy C, Favaro B, Ford AT, Fraser K, Martins E. Assessing public commitment to endangered species protection: A Canadian case study. Poster Presentation May 8th. Canadian Society of Ecology and Evolution. Victoria, BC.
12. Jacob A\*, Moore JW, Fox CH, Sunter E, Ford AT. Canada's crossroads for sustainable development and the environment. Oral Presentation, May 8th. Canadian Society of Ecology and Evolution. Victoria, BC.
13. Ford, AT. (2017). Conducting graduate research overseas. Vertebrate Conservation Group Seminar Series, University of British Columbia- Okanagan Campus.
14. Ford, AT, Barreto M, Clevenger AP, Cooke SJ, Nguyen V, Kessel S, Hussey N, Young N, Davy CM, Fraser KC, Fryxell J, Whittington J, Heuer K, Hebblewhite, M, Davies K, Flockhart DT, Martins E (2017). Policy Implications of Movement Ecology Movement Ecology of Animals: The Development of an Animal Movement Paradigm (Gordon Research Conference), Ventura, United States.
15. **Hutchen, J.** and K.E. Hodges 5/17. Scale dependent behavioral responses of snowshoe hare in western conifer forests post-fire. Canadian Society for Ecology and Evolution annual meeting, Victoria, BC.



16. **Gooliaff, TJ** and K.E. Hodges. 5/17. Spatial and temporal patterns of bobcat and lynx distributions in British Columbia. Canadian Society for Ecology and Evolution annual meeting, Victoria, BC.
17. Hodges, K.E., **C. Vanbianchi, J. Hutchen, and L. Volkmann**. 8/17. Connectivity for forest wildlife in the face of a fiery future. Ecological Society of America annual meeting, Portland, OR.
18. **Mancuso, K.**, C. Bishop, K.E. Hodges, A. Huang, M.B. Lancaster, and A.M. Bezener. 8/17. Two riparian songbird species at the periphery of their breeding range. American Ornithological Society / Society of Canadian Ornithologists joint meeting, East Lansing, MI.
19. **Lawson, K.**, K.E. Hodges, and F.I. Doyle. 9/17. Effects of biosolids on grassland wildlife in British Columbia. The Wildlife Society annual meeting. Albuquerque, NM.
20. **Jensen, Evelyn**, Adalgisa Caccone and Michael Russello (2017) Looking through the bottleneck: genomic analysis of historical and contemporary patterns of genetic variation in the Pinzón Island Galápagos tortoise. Canadian Society of Ecology and Evolution, Victoria, BC, Canada. Spoken. (TC) (CSEE PhD Excellence and Diversity Award Symposium)
21. **Waterhouse, Matthew**, Liesl Erb, Erik Beever, and Michael Russello (2017) Assessing genomic divergence in American pika along elevational transects reveals insights into thermal adaptation. Joint Meeting of the Society for the Study of Evolution and the Society for Systematic Biology, Portland, OR, USA. Spoken. (TC)
22. **Ford, Brett**, Richard Weir, Karl Larsen and Michael Russello (2017) Investigating Population Structure and Barriers to Gene Flow in the American Badger of British Columbia (*Taxidea taxus jeffersonii*) to Inform Conservation Action. Joint Meeting of the Society for the Study of Evolution and the Society for Systematic Biology, Portland, OR, USA. Spoken. (TC)
23. **Jensen, Evelyn**, Adalgisa Caccone and Michael Russello (2017) Looking through the bottleneck: genomic analysis of historical and contemporary patterns of genetic variation in the Pinzón Island Galápagos tortoise. Joint Meeting of the Society for the Study of Evolution and the Society for Systematic Biology, Portland, OR, USA. Spoken. (TC)
24. **Sjodin, Bryson**, Robyn Irvine, Gregg Howald, and Michael Russello (2017) Invasive rat colonization history and movement dynamics in Haida Gwaii. Invasive Species Research Conference, Kamloops, BC, Canada. Spoken. (TC)
25. **Miller, Joshua M.**, Maud C. Quinzin, Nikos Poulakakis, Luciano B. Beheregaray, Ryan C. Garrick, Michael A. Russello, Claudio Ciofi, Danielle L. Edwards, Elizabeth A. Hunter, Washington Tapia, Danny Rueda, Jorge Carrión, James P. Gibbs, Adalgisa Caccone (2017) Reviving a Lost Species: The Case of the Floreana Galápagos Giant Tortoise *Chelonoidis elephantopus*. Joint Meeting of the Society for the Study of Evolution and the Society for Systematic Biology, Portland, OR, USA. Spoken. (TC)
26. **Sjodin, Bryson**, Robyn Irvine, Gregg Howald, and Michael Russello (2017) Invasive rat colonization history and movement dynamics in Haida Gwaii. Joint Meeting of the Society for the Study of Evolution and the Society for Systematic Biology, Portland, OR, USA. Poster. (TC)
27. **Schmidt, Danielle**, Purnima Govindarajulu, Karl Larsen and Michael Russello (2017) Investigating Western rattlesnake population genetics and demographics to inform management and conservation. Joint Meeting of the Society for the Study of Evolution and the Society for Systematic Biology, Portland, OR, USA. Poster. (TC)



28. Elliott, Lucas and Michael Russello (2017) Genetic monitoring of a sockeye salmon repatriation to improve interactive fisheries management . Joint Meeting of the Society for the Study of Evolution and the Society for Systematic Biology, Portland, OR, USA. Poster. (TC)
29. Elliott, Lucas and **Michael Russello** (2017) Sensitivity analysis of single nucleotide polymorphism number and informativeness for differentiating advanced-generation hybrid classes in recently diverged stocks of sockeye salmon. World Recreational Fisheries Conference, Victoria, BC, Canada. Poster. (TC)
30. October 12, 2017 Russello, Michael (2016) Challenges and opportunities for genetics-based fisheries management of recently diverged stocks. Okanagan Basin Water Board, Kelowna, BC, Canada. (Invited)
31. July 19, 2017 Russello, Michael (2016) Genomic Changes Associated with Sockeye Salmon Ecotype Divergence Provide Tools for Recreational Fisheries Management. World Recreational Fisheries Conference, Victoria, BC, Canada. (Invited)
32. E. Ansink, E., Janmaat, J., Michelsen, A., Peterson, J., Scheierling, S., Schwabe, K., Taylor, G., and Torrell, G. "The co-evolution of water resource economics and water resource management." 13th Meetings of the International Water Resource Economics Consortium, Waterloo, Ontario, September 2017.
33. Janmaat, J., Picault, J. and Cebry, A. "Measuring multiple impacts of adaptation strategies: The case of Alderson Creek, North Okanagan." BC Agricultural Climate Adaptation Research Network workshop, Abbotsford, British Columbia, December 2017.
34. Janmaat, J. and Rahimova, N. "Water Reallocation Within Irrigation Districts: Options." Canadian Economics Association meetings, Antigonish, NS, June 2017.
35. Janmaat, J. "Dam(N) Economics." Keynote presentation, Canadian Dams Association annual meeting, Kelowna, British Columbia, October 2017.
36. Janmaat, J. "Nepal Climate Extremes Tournament." US Army Corp. of Engineers Practical Playfulness Workshop, St. Paul, Minnesota, May 8, 2017.
37. Nelson L, Munro P, Gebretsadikan T, Voegel T, Picault J, Forge T, Neilsen D, Jones M. 2018. Expanding cherry production in British Columbia under climate change: considering the use of organic amendments and post-harvest deficit irrigation in new and old orchards. Pacific Regional Society of Soil Science Workshop: the role of soil in climate change adaptation. Vancouver BC March 24, 2018
38. O'Brien S, Whiteside MD, Sholto-Douglas D, Antipova O, Bailey V, Boyanov MI, Dohnalkova A, Durall DM, Gursoy D, Jones MD, Kovarik L, Lai B, Roehrig C, Soriano Hoyuelos C, Sullivan S, Vogt S, Kemner KM. 2017. Synchrotron-based micro and nanotomographic investigations of soil aggregate microbial and pore structure. American Geophysical Union Fall Meeting, New Orleans, December, 2017. Invited
39. Nelson L, Munro P, Gebretsadikan T, Voegel T, Jones M. 2017. Expanding cherry production in British Columbia under climate change: Considering the biological quality of soil in new sites. The BC Agricultural Climate Adaptation Research Network Workshop, Abbotsford BC Dec 7, 2017.
40. Gebretsadikan TM, Munro P, Forge T, Neilsen D, Jones MD, Nelson LM. 2017. The effect of post-harvest deficit irrigation and organic amendments on the expansion of sweet cherry production under climate change in the Okanagan Valley. BC Agricultural Climate Adaptation Research Network Workshop. Abbotsford, BC. December 7, 2017.



41. Munro P, Forge T, Neilsen D, Jones M, Nelson L. 2017. Soil biota from newly established orchards are more beneficial to early growth of cherry than biota from older orchards. Future Integrated Pest Management in Europe 3.0. 16-20 October, 2017. Riva del Garda, Italy.
42. Midwood AJ, Hannam KD and M.D. Jones. 2017. Bicarbonates dissolved in irrigation water contribute to soil CO<sub>2</sub> efflux. 6th International Symposium on Soil Organic Matter. Harpenden, UK. 3-7 September 2017.
43. Forge T, Neilsen D, Neilsen G, Munro P, Nelson L, Jones M. 2017. Utility of compost and wood mill waste amendments to mitigate severe replant stress of sweet cherry in the Okanagan Valley of British Columbia. International Symposium on Growing Media, Soilless Cultivation, and Compost Utilization in Horticulture. Portland OR, Aug 20-25, 2017.
44. Smith JM, Whiteside MD, Jones MD. 2017. Can pine germinants supply nitrogen to their ectomycorrhizal fungal partner? Canadian Society of Plant Biologists Annual Meeting. July 2017. Vancouver
45. J. Marley, J.H. Salkeld, T. Hamilton, S.E. Senger, R.C. Tyson, and L. Parrott (Feb 2018) Individual-based modelling of black bear (*Ursus Americanus*) foraging in Whistler, BC: Reducing human-bear interactions,
46. Workshop on Coupled Human and Natural Systems Modelling, Fields Institute, Toronto
47. B. Vallaeys, R.C. Tyson, W.D. Lane, E. Deleersnijder, and E. Hanert (Feb 2018) A Levy-flight diffusion model to predict transgenic pollen dispersal, Workshop on Pollinators and Pollination Modelling, Fields Institute, Toronto
48. B. Baumgaertner, R.C. Tyson, and S.M. Krone (Oct 2017) Centering and polarization in opinion dynamics,
49. 6th International Conference on Mathematics and its applications, Tucson, AZ
50. Kokkoris V, Hart MM. CSEE Victoria Fungal bio-fertilizers may suppress local plant communities
51. Kokkois V, Hart MM. ICOM Prague Nature vs nature, Fungal bio-fertilizers may suppress local plant communities
52. Kokkoris V, Hart MM BGS symposium Nature vs nature, Fungal bio-fertilizers may suppress local plant communities
53. Richards A, Hart MM Using covercrops to mitigate grapevine disease. BGS Symposium (poster)
54. Thomsen, C. "'Magic' mushrooms: Are AM fungi useful in agriculture?" Oral presentation, British Columbia Institute of Agrologists Workshop, Kelowna, BC, 2018.
55. Thomsen, C, Bowen, P, and M Hart. "Fungal 'biofertilizers' as a potential source of microbial invasion." Poster presentation, UBC Okanagan Biology Graduate Symposium, Kelowna, BC, 2017.
56. Thomsen, C, Bowen, P, and M Hart. "Fungal 'biofertilizers' as a potential source of microbial invasion." Poster presentation, BC Wine Grape Council Conference, Penticton, BC, 2017.
57. Thomsen, C, Bowen, P, and M Hart. "Fungal 'biofertilizers' as a potential source of microbial invasion." Poster presentation, BC Invasive Species Council Conference, Kamloops, BC, 2017.



58. Thomsen, C, Bowen, P, and M Hart. "Fungal 'biofertilizers' as a potential source of microbial invasion." Poster presentation, Canadian Society for Ecology and Evolution, Victoria, BC, 2017.
59. Vukicevich E, Morales D, Lowery DT, Úrbez-Torres JR, Bowen P, Hart M (2017) The effect of groundcover management on vine performance and fungal root endophyte communities. Soil Health Summit/Soil Ecology Society conference. June 2017. Fort Collins, Colorado. Poster session.
60. Vukicevich E, Lowery DT, Úrbez-Torres JR, Bowen P, Hart M (2017) Living mulch and vine competition. BCWGC annual conference. July 2017. Penticton, BC. Poster session.
61. Vukicevich E, Lowery DT, Úrbez-Torres JR, Bowen P, Hart M (2017) Living mulches in vineyards. Watersheds; Fish and Stream Habitats; Water systems in boreal and tropical forests event, BC Institute of Agrologists. October 20, 2017. Kelowna, BC. Poster session.
62. Tasnim N, Gill S, Dai B, Gibson DL & Hart M (2017) Impact of forest and city soil exposure on mouse gut microbiota and immune responses. Interdisciplinary Student Health Conference, 2017, Kelowna, BC (P)
63. Pogiatis A, Klironomos J, BowenP, Hart MM, Holland T (2017) Comparative response of six grapevine rootstocks to inoculation with arbuscular mycorrhizal fungi. Soil Health Summit/Soil Ecology Society conference. June 2017. Fort Collins, Colorado. Poster session.
64. Wallace, R.L., Hirkala, D.L. and Nelson, L.M. 2018. Biological control of grey mold of apple during commercial storage with *Pseudomonas fluorescens* and potential mechanisms of action. Canadian Society of Microbiologists Annual meeting, Waterloo ON June 2017. TS
65. Voegel, T.M. and Nelson, L.M. 2017. Crown gall of grapevines: quantification of *Agrobacterium vitis* in nursery stock and vineyard soil. Poster presentation at 18th Annual Enology and Viticulture Conference and Tradeshow, July 17-18, 2017, Penticton. TS
66. Watson, T.T., Nelson, L.M., Neilsen, D., Neilsen, G.H., and Forge, T.A. 2017. Pre-plant incorporation of compost as a non-fumigant alternative to promote the establishment of fruit trees at old orchard sites. International Society of Horticultural Sciences. International Symposium on Growing Media, Soilless Cultivation, and Compost Utilization Portland OR, Aug 20-25, 2017. TS
67. Gebretsadikan, T.M., Munro, P., Forge, T.A., Neilsen, D., Jones, M.D., and Nelson, L.M. 2017. The effect of post-harvest deficit irrigation and organic amendments on the expansion of sweet cherry production under climate change in the Okanagan Valley. Biology Graduate Symposium, UBCO, Sept 12, 2017.
68. Hans, G.K., Nichol, C.F. and Nelson, L.M. 2017. Activity of ammonia-oxidizing Archaea and Bacteria and their relationship with nitrous oxide emissions in an in vitro microcosm experiment. Biology Graduate Symposium, UBC Okanagan, Sept. 12, 2017.
69. Munro, P. , Forge, T.A., Neilsen, D., Jones, M.D. , and Nelson, L.M. 2017. Soil biota from newly established orchards are more beneficial to early growth of cherry than biota from older orchards. Biology Graduate Symposium, UBCO Sept 12, 2017. TS
70. Larrabee, M.M., Voegel, T.M. and Nelson, L.M. 2017. A novel duplex droplet digital PCR assay for the quantification of the postharvest pathogens *Botrytis cinerea* and *Alternaria* spp. using DNA binding dye chemistry. Biology Graduate Symposium, UBCO Sept 12, 2017. TS
71. Wallace, R.L., Hirkala, D.L. and Nelson, L.M. 2017. Biological control of grey mold of apple during commercial storage with *Pseudomonas fluorescens* and potential mechanisms of action. Poster presentation at UBCO Biology Graduate Student Research Symposium, Sept 12, 2017.



72. Voegel, T.M. and Nelson, L.M. 2017. Crown gall of grapevines: quantification of *Agrobacterium vitis* in nursery stock Poster presentation at 38th Annual Crown Gall Conference, October 7-8, 2017, Corvallis, Oregon. TS
73. Munro, P., Forge, T.A., Neilsen, D., Jones, M.D., and Nelson, L.M. 2017. Soil biota from newly established orchards are more beneficial to early growth of cherry than biota from older orchards. Future IPM 3.0, Riva del Garda, Italy, Oct 17-20, 2017. Winner of one of three Graduate Student Awards for Poster Presentation. TS
74. Larrabee, M.M., Voegel, T.M. and Nelson, L.M. 2017. A novel duplex droplet digital PCR assay for the quantification of the postharvest pathogens *Botrytis cinerea* and *Alternaria* spp. using DNA binding dye chemistry. BC Regional Meeting of the Canadian Phytopathological Society, Nov 2-3, 2017. 1st prize, Student Poster Competition. TS
75. Gebretsadikan, T.M., Munro, P., Forge, T.A., Neilsen, D., Jones, M.D., and Nelson, L.M. 2017. The effect of post-harvest deficit irrigation and organic amendments on the expansion of sweet cherry production under climate change in the Okanagan Valley. The BC Agricultural Climate Adaptation Research Network Workshop, Abbotsford BC Dec 7, 2017. TS
76. Nelson, L., Munro, P., Gebretsadikan, T., Voegel, T., Jones, M. 2017. Expanding cherry production in British Columbia under climate change: Considering the biological quality of soil in new sites. The BC Agricultural Climate Adaptation Research Network Workshop, Abbotsford BC Dec 7, 2017. TS
77. Nelson, L., Munro, P., Gebretsadikan, T., Voegel, T., Picault, J., Forge, T., Neilsen, D., Jones, M. 2018. Expanding cherry production in British Columbia under climate change. Annual Meeting of the Certified Organic Associations of British Columbia. Abbotsford BC Feb 24, 2018. (N.B. presentation not delivered due to adverse weather, but presentation placed on members' website after the meeting). TS
78. Nelson, L., Munro, P., Gebretsadikan, T., Voegel, T., Picault, J., Forge, T., Neilsen, D., Jones, M. 2018. Expanding cherry production in British Columbia under climate change: considering the use of organic amendments and post-harvest deficit irrigation in new and old orchards. Pacific Regional Society of Soil Science Workshop: the role of soil in climate change adaptation. Vancouver BC March 24, 2018. TS
79. Carturan, B., Pither, J. and Parrott, L. 2017. A methodology for evaluating the resilience of ecosystem services: a coral reef case study. Presented at the Canadian Society for Ecology and Evolution Annual Meeting, May 9-12, 2017. Victoria, BC.
80. Friberg, R., and Parrott, L. 2017 Assessing community resilience to socioeconomic impacts of MPB. Presented at the TRIA Net AGM, May 25-26, 2017, Jasper, AB.
81. Bass, M., Parrott, L. and Heckbert, S. 2017. Socioeconomic analyses of MPB invasion scenarios. Presented at the TRIA Net AGM, May 25-26, 2017, Jasper, AB.
82. Reiter, D., Meyer, W. and Parrott, L. 2017. Increasing the Effectiveness of Environmental Decision Support Systems: Lessons from Climate Change Adaptation Projects in Canada and Australia. Annual Meeting of the Environmental Studies Association of Canada (ESAC), May 30th – June 1st, 2017, Ryerson University, Toronto, ON.
83. Carturan, B., Parrott, L. and Pither, J. 2017. Exploring the relationship between functional diversity and resilience in coral communities using an agent-based model. Ecological Society of America Annual Meeting, August 6-10



**APPENDIX 4: BRAES SELECTED LIST OF FUNDED RESEARCH PROJECTS**

Source of information: RISE

PI Name	Sponsor	Amount Funded 2017-2018	Project Start	Project End	Project Title
Braun, John	UBCO IKE Barber School of Arts and Science	\$5,000.00	01/09/2014	30/06/2019	Research Allowance
Braun, John	Engineering Research Council of Canada (NSERC)	\$14,000.00	01/09/2014	31/03/2019	Smoothing and Bootstrapping with Application to Forest Fire Modelling
Braun, John	Canada Foundation for Innovation	\$27,606.93	12/12/2016	31/12/2017	Data Visualization Laboratory with Application to Wildfire Science
Desjardins, Sylvie	UBCO IKE Barber School of Arts and Science	\$5,000.00	01/07/2012	29/06/2020	Research allowance
Deyholos, Michael	UBCO IKE Barber School of Arts and Science	\$5,000.00	01/07/2014	30/06/2019	Research Allowance
Deyholos, Michael	Agriculture and Agri-Food Canada	\$7,882.30	01/04/2014	31/03/2018	Genetic improvement of drought tolerance in flax
Deyholos, Michael	British Columbia Institute of Technology	\$7,250.00	01/01/2015	31/03/2019	Analysis of Breadfruit cultivar essential oil and its potential as novel insect repellants
Deyholos, Michael	Genome Canada	\$5,200.00	15/10/2015	30/09/2018	(FiCoGEN) - application to the ground transportation industry
Deyholos, Michael	Engineering Research Council of Canada (NSERC)	\$34,000.00	01/04/2016	31/03/2019	The dynamic cell wall of plant fibers
Deyholos, Michael	Saskatchewan Flax Development Commission	\$15,525.00	01/07/2016	31/10/2018	Linseed straw management: pre-breeding for reduced stem strength
Deyholos, Michael	Engineering Research Council of Canada (NSERC)	\$81,176.00	01/04/2017	31/03/2022	NSERC / IRC Industrial Research Chair in Sustainability
Deyholos, Michael	Economic Development Canada	\$3,750.00	01/01/2018	30/06/2019	The Cannabis Bioproducts Toolbox
Deyholos, Michael	Province of British Columbia	\$3,750.00	01/01/2018	30/06/2019	The Cannabis Bioproducts Toolbox
Deyholos, Michael	Supra THC Services	\$3,750.00	01/01/2018	30/06/2019	The Cannabis Bioproducts Toolbox
Deyholos, Michael	Valens AgriTech Limited	\$3,750.00	01/01/2018	30/06/2019	The Cannabis Bioproducts Toolbox



PI Name	Sponsor	Amount Funded 2017-2018	Project Start	Project End	Project Title
Deyholos, Michael	Engineering Research Council of Canada (NSERC)	\$5,000.00	01/08/2017	31/12/2017	GC/MS System for Biological Chemistry
Deyholos, Michael	UBCO VP Research	\$2,500.00	01/08/2017	31/12/2017	GC/MS System for Biological Chemistry
Dulic, Aleksandra	Canada Foundation for Innovation	\$2,963.00	01/04/2013	31/03/2019	The Centre for Culture and Technology
Dulic, Aleksandra	Humanities Research Council of Canada (SSHRC)	\$37,163.00	15/03/2017	31/03/2021	Water Ways - the Past, Present and Future of Okanagan Waterscape
Dulic, Aleksandra	UBCO Faculty of Creative and Critical Studies	\$10,000.00	15/03/2018	01/05/2019	Celestial Bodies: Seven Stories of the Night Sky
Durall, Daniel M.	British Columbia Wine Grape Council	\$8,904.04	01/04/2013	31/01/2018	Population dynamics of yeast fermenting Pinot noir and Chardonnay Wine
Durall, Daniel M.	Engineering Research Council of Canada (NSERC)	\$35,000.00	01/04/2016	31/03/2021	physiological ecology of fungi in wine fermentations and mycorrhizas
Durall, Daniel M.	British Columbia Investment Agriculture Foundation	\$4,500.00	01/04/2016	30/09/2017	yeasts for use in developing aroma and flavour complexity in wine
Durall, Daniel M.	British Columbia Wine Grape Council	\$14,000.00	17/11/2017	17/11/2019	Saccharomyces Uvarum from Okanagan White Wine Grapes and From their Spontaneous
Durall, Daniel M.	UBCO I.K. Barber School Endowment	\$8,000.00	01/04/2017	31/12/2017	(Newman) Evaluation of wine yeast viability in chemically defined grape juice medium
Durall, Daniel M.	Engineering Research Council of Canada (NSERC)	\$25,000.00	17/11/2017	16/11/2019	Saccharomyces uvarum from Okanagan white wine grapes and from their spontaneous fermentations
Durall, Daniel M.	Engineering Research Council of Canada (NSERC)	\$25,000.00	01/12/2017	31/05/2018	Spontaneous Fermentations of Chardonnay Must at Tinhorn Creek Vineyard
Ford, Adam	British Columbia Knowledge Development Fund (BCKDF)	\$163,000.00	24/07/2017	30/06/2019	Facility for the restoration of ecological processes
Ford, Adam	Canada Foundation for Innovation	\$4,406.13	24/07/2017	30/06/2019	Facility for the restoration of ecological processes
Ford, Adam	Canada Foundation for Innovation	\$163,000.00	24/07/2017	30/06/2019	Facility for the restoration of ecological processes
Ford, Adam	UBCO IKE Barber School of Arts and Science	\$36,270.00	24/07/2017	30/06/2019	Facility for the restoration of ecological processes



PI Name	Sponsor	Amount Funded 2017-2018	Project Start	Project End	Project Title
Ford, Adam	Engineering Research Council of Canada (NSERC)	\$29,000.00	01/04/2017	31/03/2022	Wildlife restoration ecology in human-modified landscapes
Ford, Adam	Habitat Conservation Trust Fund	\$5,000.00	01/04/2017	31/03/2018	Enhancing Wolf Monitoring in the Kootenay Region
Ford, Adam	Habitat Conservation Trust Fund	\$1,625.65	01/04/2017	31/03/2018	The role of predators in black-tailed deer ecology
Ford, Adam	Canada Research Chairs	\$100,000.00	01/10/2016	30/09/2021	CRC - Wildlife Restoration Ecology
Ford, Adam	UBCO IKE Barber School of Arts and Science	\$30,000.00	01/10/2016	30/09/2021	CRC - Wildlife Restoration Ecology
Ford, Adam	UBCO I.K. Barber School Endowment	\$8,000.00	01/04/2017	31/12/2017	(Campbell) Modelling wildlife habitat in the Canadian environmental assessment process
Ford, Adam	Liber Ero Foundation	\$75,000.00	15/09/2017	14/09/2018	Building a climate change dispersal network for Canada's protected areas
Garrard, Greg	UBCO Faculty of Creative and Critical Studies	\$2,500.00	09/08/2017	08/08/2018	Exploring collaborative graduate training in environmental humanities in the Pacific Northwest
Garrard, Greg	UBC Hampton Research Endowment Fund	\$2,500.00	09/08/2017	08/08/2018	Exploring collaborative graduate training in environmental humanities in the Pacific Northwest
Garrard, Greg	UBCO SSHRC Institutional Grant	\$4,968.00	01/01/2018	31/12/2018	Exploring Collaborative Graduate Training Models in North America and Europe
Garrard, Greg	UBCO Faculty of Creative and Critical Studies	\$2,500.00	01/09/2017	31/03/2019	Bridging to reapply for SSHRC Partnership Development Grant
Hanna, Kevin	Nunavut Arctic College	\$72,125.00	01/11/2016	31/10/2019	Supporting community information needs in an environmental assessment in Nunavut
Hanna, Kevin	Government of North West Territories	\$23,000.00	01/04/2016	31/03/2019	Decisions regarding Cumulative Effects under the MVRMA
Hanna, Kevin	UBC Northern Scientific Training Program	\$2,600.00	01/04/2017	31/03/2018	Impact Decision Making in the Mackenzie Valley, Northwest Territories
Hanna, Kevin	UBC Hampton Research Endowment Fund	\$1,000.00	15/06/2017	14/06/2018	Implementing Cumulative Effects Assessment in Canada
Hanna, Kevin	UBCO IKE Barber School of Arts and Science	\$1,000.00	15/06/2017	14/06/2018	Implementing Cumulative Effects Assessment in Canada



PI Name	Sponsor	Amount Funded 2017-2018	Project Start	Project End	Project Title
Hanna, Kevin	UBCO VP Research	\$5,000.00	28/09/2017	27/09/2018	Canadian local governments: an update to the national portrait
Hanna, Kevin	Humanities Research Council of Canada (SSHRC)	\$11,826.00	15/03/2018	31/03/2023	Connecting cumulative effects assessment to decision-making
Hart, Miranda	Canada Foundation for Innovation	\$5,000.00	01/04/2013	31/03/2019	Soil biodiversity laboratory
Hart, Miranda	Agriculture and Agri-Food Canada	\$50,015.11	01/04/2013	31/03/2018	through the management of the root microbiotica in the Canadian Prairie
Hart, Miranda	Agriculture and Agri-Food Canada	\$27,943.49	01/04/2014	31/03/2018	inoculating vines with arbuscular mycorrhizal fungal inoculants
Hart, Miranda	Agriculture and Agri-Food Canada	\$2,650.26	01/04/2014	31/03/2018	pulse-based cropping systems: Phosphorus sources for organic growers of the Prairie, and
Hart, Miranda	UBCO Internal Research Funds	\$1,000.00	23/05/2017	28/02/2018	(Kokkoris) ICOM 9 (9th International conference on Mycorrhiza)
Hodges, Karen E.	Habitat Conservation Trust Fund	\$42,940.00	01/04/2017	31/03/2019	Determining the value of post-fire landscapes for American marten
Hodges, Karen E.	Seattle City Light	\$51,750.00	01/05/2016	31/03/2020	Determining the value of post-fire landscapes for American marten
Hodges, Karen E.	Engineering Research Council of Canada (NSERC)	\$28,000.00	01/04/2017	31/03/2022	Ecology and conservation of peripheral populations in the face of increasing disturbance
Hodges, Karen E.	Habitat Conservation Trust Fund	\$38,759.00	01/04/2017	31/03/2019	Ecology of small mammals in post-fire and salvage-logged landscapes
Hodges, Karen E.	UBCO Internal Research Funds	\$1,000.00	19/03/2017	31/12/2017	(Mancuso) American Ornithological Society and Society of Canadian Ornithologists meeting
Hodges, Karen E.	UBCO I.K. Barber School Endowment	\$8,000.00	01/04/2017	31/12/2017	(Buers) How the use of biosolids affect American kestrel nest site selection and foraging behavior
Hodges, Karen E.	Engineering Research Council of Canada (NSERC)	\$5,600.00	01/06/2017	30/11/2017	Responses of insects and birds to biosolid application on grasslands
Hodges, Karen E.	SYLVIS Environmental Services Inc.	\$7,000.00	01/06/2017	30/11/2017	Responses of insects and birds to biosolid application on grasslands
Hodges, Karen E.	Upland Bird Society	\$12,500.00	01/05/2017	31/10/2018	Spatial Ecology of dusky grouse



PI Name	Sponsor	Amount Funded 2017-2018	Project Start	Project End	Project Title
Hodges, Karen E.	Environment and Climate Change Canada	\$24,562.50	16/08/2017	31/03/2019	Migratory Species at Risk Overwintering and Stop Over Locations
Holmes, Nancy	Humanities Research Council of Canada (SSHRC)	\$10,000.00	30/11/2015	24/03/2019	creative community engagement for sustainable environmental impact
Holmes, Nancy	World Wildlife Fund Canada	\$6,900.00	13/03/2018	29/06/2018	The Kelowna Bee Ambassador Program
Holmes, Nancy	UBCO Faculty of Creative and Critical Studies	\$2,000.00	15/01/2018	01/09/2018	May 1st 2018 deadline- to host a workshop and symposium at UBCO/Kelowna
Janmaat, John	UBCO IKE Barber School of Arts and Science	\$19,500.00	01/01/2012	31/12/2021	Regional Innovation Chair in Water Resources and Ecosystem Sustainability)
Janmaat, John	Development Institute of Canada (RSEDIC)	\$3,500.00	15/06/2017	15/12/2017	Can I Drink It? Value of Residential Water Quality
Janmaat, John	UBC Hampton Research Endowment Fund	\$2,500.00	15/06/2017	14/06/2018	Do homeowners really care about drinking water quality?
Janmaat, John	UBCO IKE Barber School of Arts and Science	\$2,500.00	15/06/2017	14/06/2018	Do homeowners really care about drinking water quality?
Janmaat, John	Humanities Research Council of Canada (SSHRC)	\$7,000.00	20/07/2017	30/09/2018	Connecting with Water Award
Janmaat, John	Fraser Basin Council	\$10,360.00	01/10/2017	28/02/2018	Cultus Lake Environmental Services Valuation: Phase i
Jones, Melanie D.	Engineering Research Council of Canada (NSERC)	\$29,000.00	01/04/2013	31/03/2023	Ecophysiology of ectomycorrhizal symbioses
Jones, Melanie D.	Agriculture and Agri-Food Canada	\$192,796.24	09/02/2017	31/03/2021	and N sotrage and associated greenhouse gases at a regional scale
Jones, Melanie D.	UBCO Internal Research Funds	\$8,080.17	01/04/2017	30/09/2017	Nitrogen Distribution in Lodgepole Pine Germinants
Klironomos, John	Engineering Research Council of Canada (NSERC)	\$57,000.00	01/04/2013	31/03/2023	Functional Diversity in Arbuscular Mycorrhizal Symbioses
Klironomos, John	UBCO Internal Research Funds	\$1,000.00	19/03/2017	31/12/2017	(Pogiatzis) European Geosciences Union (EGU) General Assembly 2017
Klironomos, John	UBCO Internal Research Funds	\$1,000.00	23/05/2017	28/02/2018	(Bennett) International Conference on Mycorrhizas



PI Name	Sponsor	Amount Funded 2017-2018	Project Start	Project End	Project Title
Murch, Susan	Engineering Research Council of Canada (NSERC)	\$28,062.00	01/04/2013	31/03/2023	Chemistry of Natural Non-Protein Amino acids
Murch, Susan	British Columbia Institute of Technology	\$22,500.00	01/01/2016	31/03/2018	Molecular & Chemical Approaches to Ensure the Safety and Authenticity of Botanical Products
Murch, Susan	Skagit Horticulture, LLC	\$66,392.30	20/04/2017	08/05/2018	Micropropagation and Chemistry of Hops (Humulus Lupulus)
Nelson, Louise M.	Agriculture and Agri-Food Canada	\$34,412.84	01/04/2013	31/03/2018	New biological control agents for postharvest diseases of pome fruit
Nelson, Louise M.	Moss Rock Park Foundation	\$50,000.00	01/04/2015	31/12/2018	Expanding Cherry Production in British Columbia under Climate Change
Nelson, Louise M.	BC Cherry Association	\$2,500.00	01/04/2016	31/03/2019	Monitoring cherry postharvest rot and predictive analysis
Nelson, Louise M.	Agriculture and Agri-Food Canada	\$70,084.00	09/02/2017	31/03/2021	and N sotrage and associated greenhouse gases at a regional scale
Nelson, Louise M.	Engineering Research Council of Canada (NSERC)	\$9,045.00	01/06/2017	31/03/2018	Crown Gall Disease of Grapevines: Quantification of Agrobacterium vitis in Vineyard Soil
Nelson, Louise M.	UBCO Internal Research Funds	\$1,000.00	23/05/2017	28/02/2018	Media, Soilless Cultivation, and Compost Utilization in Horticulture
Nelson, Louise M.	British Columbia Wine Grape Council	\$11,306.00	01/06/2017	31/03/2018	Crown Gall Disease of Grapevines: Quantification of Agrobacterium Vitis in Vineyard Soil
Nelson, Louise M.	BC Cherry Association	\$12,500.00	01/09/2017	31/10/2018	Monitoring cherry postharvest rot and predictive analysis
Nelson, Louise M.	Economic Development Canada	\$8,750.00	01/09/2017	31/10/2018	Monitoring cherry postharvest rot and predictive analysis
Nelson, Louise M.	Province of British Columbia	\$8,750.00	01/09/2017	31/10/2018	Monitoring cherry postharvest rot and predictive analysis
Parrott, Lael	Canada Foundation for Innovation	\$3,865.00	01/04/2015	31/03/2021	Seeking sustainability: Innovating modelling and analysis of complex human-environment systems
Parrott, Lael	Engineering Research Council of Canada (NSERC)	\$38,065.00	29/06/2013	30/06/2018	for the mountain pine beetle epidemic - Sub Theme 4
Parrott, Lael	Engineering Research Council of Canada (NSERC)	\$34,000.00	01/04/2014	31/03/2019	landscapes: Scenario analysis tools to assist environmental conservation and planning decisions

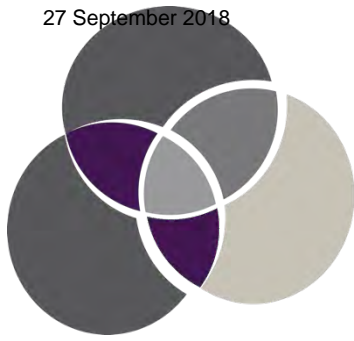


PI Name	Sponsor	Amount Funded 2017-2018	Project Start	Project End	Project Title
Parrott, Lael	British Columbia Ministry of Agriculture and Lands	\$30,000.00	06/03/2017	20/03/2018	Regional Species at Risk Strategy on Agricultural Lands (Phase 3)
Parrott, Lael	The Alpine Club of Canada	\$5,000.00	01/09/2017	31/05/2018	The ACC Mountain Observation App and Interactive Website
Parrott, Lael	and Development Corporation (ARDCorp)	\$20,000.00	08/02/2018	31/12/2018	Generation of Biodiversity/Species at Risk (SAR) Mapping for additional areas of Okanagan Valley
Pidwirny, Michael	Canada West Ski Areas Association	\$7,500.00	01/04/2017	31/03/2018	Select Ski Resorts Belonging to the Canada West Ski Areas Association
Pither, Jason	Canada Foundation for Innovation	\$3,236.00	01/04/2011	31/03/2018	Biodiversity and Landscape Ecology Research Facility (BLERF)
Pither, Jason	Engineering Research Council of Canada (NSERC)	\$24,000.00	01/04/2014	31/03/2019	Beta diversity patterns and their origins
Russello, Michael	Canada Foundation for Innovation	\$1,344.00	01/04/2009	31/03/2018	CFI Infrastructure Operating Fund
Russello, Michael	Engineering Research Council of Canada (NSERC)	\$34,000.00	01/04/2014	31/03/2019	The genomic basis of adaptation to changing environments: applications to wildlife conservation
Russello, Michael	Parks Canada Agency	\$11,000.00	29/09/2016	30/04/2019	Haanas National Park Reserve, National Marine Conservation Area Reserve and Haida Heritage
Russello, Michael	UBCO Internal Research Funds	\$1,000.00	23/05/2017	28/02/2018	(Waterhouse) Evolution 2017
Russello, Michael	UBCO Internal Research Funds	\$1,000.00	23/05/2017	28/02/2018	(Ford) Evolution 2017
Russello, Michael	Engineering Research Council of Canada (NSERC)	\$4,112.00	01/08/2017	31/12/2017	Qubit 3.0: a next-generation fluorometer for advancing genomics research
Russello, Michael	Freshwater Fisheries Society of British Columbia	\$21,200.00	17/07/2017	31/12/2017	Genetic broodstock identification of Meadow Creek kokanee stock reinforcement
Russello, Michael	British Columbia Ministry of Environment	\$17,500.00	11/08/2017	30/03/2018	genetics and demographics to inform management and conservation
Russello, Michael	Lands and Natural Resource Operations	\$4,500.00	25/10/2017	31/03/2018	Okanagan Lake Kokanee Genetic Stock Identification
Russello, Michael	Natural Resource Operations and Rural	\$9,540.00	17/01/2018	01/03/2018	Skaha Lake Kokanee/Sockeye Genetic Stock Identification



PI Name	Sponsor	Amount Funded 2017-2018	Project Start	Project End	Project Title
Russello, Michael	Natural Resource Operations and Rural	\$10,000.00	14/03/2018	31/03/2019	Skaha Lake Kokanee/Sockeye Genetic Stock Identification
Tyson, Rebecca	Engineering Research Council of Canada (NSERC)	\$33,000.00	01/04/2016	31/03/2021	in mixed landscapes under spatiotemporal anthropogenic forcing
Tyson, Rebecca	Engineering Research Council of Canada (NSERC)	\$82,670.00	30/09/2017	29/09/2020	Arrangements to Maximize Pollination Services by Wild Bees in Cultivated Blueberry
Wagner, John R.	National Science Foundation (US)	\$558.81	15/09/2016	29/02/2020	through an Interdisciplinary, Community-Based Study of Aquatic Environment
Wagner, John R.	UBC VP Research & Innovation	\$9,505.00	21/03/2018	20/03/2019	Columbia River Field Course
Wei, Xiaohua Adam	Engineering Research Council of Canada (NSERC)	\$27,000.00	01/04/2015	31/03/2020	Cumulative Effects of Forest Disturbance on Hydrology in a Sub-boreal Watershed
Wei, Xiaohua Adam	Engineering Research Council of Canada (NSERC)	\$32,000.00	01/04/2016	31/03/2020	The effects of reforestation on forest and water coupling at multiple spatial scales
Wei, Xiaohua Adam	Canada Foundation for Innovation	\$4,000.00	01/04/2016	31/03/2022	CFI Infrastructure Operating Fund





INSTITUTE FOR  
COMMUNITY  
ENGAGED RESEARCH



INSTITUTE FOR COMMUNITY ENGAGED  
RESEARCH - ICER

ANNUAL REPORT 2017-2018



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# ICER ANNUAL REPORT 2017-2018

## Highlights 2017-2018

The Institute for Community Engaged Research (ICER) connects researchers from a diverse range of disciplinary backgrounds. We share a commitment to research that supports diversity, equity, and social justice. The Institute facilitates the participation of community members, organizations, students (both graduate and undergraduate, domestic and international), and academics in undertaking effective research. It is a hub for building relationships, collaboration, and effective knowledge creation and exchange. This past year, ICER has been highly successful in achieving these goals.

This year, ICER's annual report devotes considerable attention to clearly articulate the relationship of ICER's mission and vision to UBC's new strategic Plan - *Shaping UBC's next century*. This planning document is designed to identify priorities and guide research, learning and service over the next ten years. We clearly recognize its importance. We believe that the main thrust of the plan closely aligns with ICER's existing mission and vision and that the Institute and its constituent members are clearly positioned to take a critical and central role in moving this vision forward on the Okanagan campus.

### ACADEMIC MEASURES

In the 2017-2018 reporting period ICER members<sup>1</sup>:

- Secured **\$1,423,578** from 33 new grants and contracts, and manage a further **\$2,320,965** in 28 ongoing grants and contracts, and are involved in grants currently under review worth **\$4,572,825**
- Authored and coauthored over 38 peer-reviewed articles, and have 19 articles submitted or under review
- Supervise 54 Masters and 46 Ph.D. students
- Graduated 12 Masters and 4 Ph.D. supervised students

### ACTIVITIES AND PROJECTS

In the 2017-2018 reporting period ICER members:

- Held a strategic visioning process with Institute's membership
- Hosted the Starting a Conversation series with 8 speakers from September 2017 – March 2018 attended by 55 students, staff and faculty

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<sup>1</sup> Please note 19/33 members provided their reporting materials and 2/33 were on leave.



## ICER ANNUAL REPORT 2017-2018

- Hosted the Feminist Research speaker series with 5 speakers attended by 48 students, staff and faculty
- Obtained funding to develop the UBC Okanagan Research Portal with RSEDIC and Innovation Library
- Collaborated with the En'owkin Centre to develop Reconciliation Training materials and processes and deliver training workshops for the City of Kelowna
- Continued the ICER Scholarship Program for UBC Okanagan Graduate Students

### OUTREACH AND COMMUNICATION

- Partnered with more than 31 community organizations and other research institutes
- Hosted events that have been attended by more than 250 participants
- Received considerable media attention through events such as the Homeless Mapping Research Project
- Enhanced UBC Okanagan's visibility and reputation locally and internationally

### REVIEWING STRATEGIC GOALS 2016-2017

- Form an editorial board for ICER press (in-process;)
- Foster relationships with the community at large to facilitate opportunities to address social issues through research and knowledge mobilization opportunities (ongoing)
- Develop relationship with Student Learning Services around community research opportunities (considerable effort resulting in actively supporting nascent city studio program)
- Work with the UBC Okanagan Development office to pursue other funding opportunities (assistance with Central Okanagan Foundation grant, ongoing)
- Continue to pursue excellence in Community Engaged Research

### LOOKING AHEAD TO 2017-2018

- Our newly formed editorial board will develop editorial policies for ICER press,
- We will carry on fostering and supporting relationships with the community - the portal project will provide opportunities to support this initiative,
- We will further consolidate the relationship with Student Learning Services – this will be partially achieved through our co-initiative with the City Studio program,
- We will work with the UBC Okanagan Development office to pursue other funding opportunities - in pursuant of additional funds to support specific programs such as the ICER Scholarship, and



## ICER ANNUAL REPORT 2017-2018

- We will continue to pursue excellence in Community Engaged Research and growing the Institute to include, represent and support researchers and community partners working in our field of research.

We have continued to nurture relationships with other UBC Okanagan institutes and departments who work in the realm of community engaged research. We also continue to reach out and partner with a growing number of community organizations.

ICER researchers work in communities around the globe and throughout the Pacific Rim. We maintain active affiliations with many partner organizations. We have sustained our commitment to strong research partnerships that support knowledge creation and exchange. Partnerships which in turn promote equality, equity, and justice at the local, national, and international levels. As this Annual Report demonstrates, these broad objectives are clearly represented in the activities that ICER has initiated, supported and facilitated over the past year.



Jon Corbett

Director of the Institute for Community Engaged Research

July 31, 2018July 31, 2018

ICER respectfully acknowledges the Syilx Okanagan Nation and their peoples, in whose territory we live and work.



# ICER ANNUAL REPORT 2017-2018

## Goals

### ICER'S STRATEGIC GOALS

#### Vision

The Institute for Community Engaged Research (ICER) is dedicated to knowledge creation and exchange that promotes equality, equity, and justice at the local, national, and international levels.

#### Mission

ICER supports socially engaged research with communities internationally, nationally, and in the Okanagan Valley. Sharing a commitment to research that supports diversity, equity, and social justice, the Institute facilitates the participation of community members, organizations, students, and academics as co-researchers. ICER is a hub for building relationships, collaboration, and effective knowledge creation and exchange through research clusters operating across disciplinary and institutional boundaries. ICER operates fluidly in response to and in recognition of changing social issues.

### LINKS WITH UBC STRATEGIC AND RESEARCH PLANS

*"I believe that a university is a place of academic excellence but it needs to also be an institute that can reach out to society at every social level and be inclusive in the way it connects with all types of people."*

*From: Shaping UBC's next century: Strategic Plan 2018-2028*

The ICER mission and vision are closely aligned with the new UBC Strategic Plan, *Shaping UBC's next century: Strategic Plan 2018-2028* as well as the *UBC Okanagan Strategic Research Support Plan - 2017-2022*. The new campus wide strategic plan emphasizes the importance of three themes Inclusion, Collaboration and Innovation – these all lie at the heart of ICER's mission. Throughout the *Shaping* document, research and learning that focuses on historically underserved, marginalized or excluded populations has become a central and defining focus of UBC's mission. ICER is uniquely positioned to take a critical and central role in moving this vision forward on the Okanagan campus.



# ICER ANNUAL REPORT 2017-2018

## **Coherence with UBC Strategic Plan**

ICER's relation to UBC research and strategic goals is clear throughout the *Shaping UBC's next century* document. Points of particular mutual significance are outlined below.

### ***Core Area 1: Indigenous people and places.***

ICER's membership includes Indigenous faculty, it actively supports Indigenous graduate and undergraduate students through providing a range of educational opportunities (including scholarships, work study positions, mentoring, and space to locate their research), and consistently engages in research projects in collaboration with and of concern to Indigenous people and communities throughout the Okanagan Valley (this is demonstrated by our partnerships with the En'owkin Centre on the City of Kelowna Reconciliation project and collaborations with the Okanagan Nations Alliance).

## **Research Excellence**

Strategy 6: Collaborative Clusters: Enable interdisciplinary clusters of research excellence in pursuit of societal impact

ICER's existing research cluster structure is designed to facilitate inter-disciplinary excellence, impact, and relevance, thus making the institute a good example of an "established research cluster that consists of networks of diverse researchers working in pursuit of common aims."

Strategy 7: Research Support: Strengthen shared infrastructure and resources to support research excellence

A core role that ICER plays is providing the administrative and material (equipment, space and resources) support to a diverse range of inter disciplinary researchers, students and community partners whose research directly seeks to have a social impact.

Strategy 8: Student Research Broaden access to, and enhance, student research experiences

Through our support for student symposia, access to research space and equipment, our scholarship program, work study positions, research assistantships and support navigating through the UBC administrative systems, ICER provides an invaluable service to enhancing the undergraduate and graduate experience – especially for underserved populations.



## ICER ANNUAL REPORT 2017-2018

**Strategy 9: Knowledge Exchange** Improve the ecosystem that supports the translation of research into action

Through our Starting a Conversation and special speaker series, graduate brown bag lunches as well as public events (held both on and off campus), ICER directly supports the mobilization and translation of research to both our campus community, as well as in our publics throughout the Okanagan region.

**Strategy 10: Research Culture:** Foster a strong and diverse research culture

ICER tirelessly strives to foster relationships, connections and partnerships across all disciplines on the UBC Okanagan campus. We strive to embrace the highest standards of integrity, collegiality and service, and help support and create opportunities for our researchers to engage with external research partners; and disseminate discoveries in influential ways.

### ***Local and Global Engagement***

Engaging ethically through the exchange of knowledge and resources for everyone's benefit.

**Strategy 16: Public Relevance:** Deepen the relevance and public impact of UBC research and education

Through symposia, speakers' series and our support for and involvement in public events, ICER plays an important role in communicating, promoting and deepening the relevance and public impact of UBC Okanagan research in Kelowna and throughout the Okanagan Valley. The Institute is increasingly playing a role of mediating research relationship, hosting public events, brokering partnerships and providing an entry point for community groups to engage with our faculty and students on campus.

**Strategy 17: Indigenous Engagement:** Support the objectives and actions of the renewed Indigenous Strategic Plan

ICER's membership includes Indigenous faculty, we actively support Indigenous graduate and undergraduate students through providing a range of educational opportunities (including scholarships, work study positions, mentoring, and space to locate their research), and consistently engage in research projects in collaboration with and of concern to Indigenous people and communities throughout the Okanagan Valley, British Columbia and Canada.

**Strategy 20: Coordinated Engagement:** Co-create with communities the principles and effective practices of engagement, and establish supporting infrastructure

ICER contributes to the ongoing and iterative development of "an integrated research community" by bringing together interdisciplinary configurations of scholars in research defined by, and for "a



## ICER ANNUAL REPORT 2017-2018

locally responsive, globally conscious community.” By creating research opportunities that articulate diverse points of view, and facilitating new and various solutions to social problems, our research also contributes to “a flexible, adaptable, and sustainable community.” Individually and collectively, the members of the Institute have demonstrable track records for producing high quality scholarship that effectively and respectfully builds on community partnership.

### **Coherence with the UBC Okanagan Strategic Research Support Plan - 2017–2022**

The Aspire campus-wide consultation identified a core commitment to transformative student learning, research excellence and community engagement, with a “strong emphasis that UBC Okanagan has placed on developing partnerships locally, provincially, nationally and internationally.” Specifically, the Okanagan Leadership Team in 2016 identified six focused thematic areas in which the campus has critical mass and demonstrated interdisciplinary strength, these areas included ‘Society, Change, and Justice’. Furthermore, the Strategic Research Support Plan encourages the development of research clusters that seek respectful engagement with Indigenous and other local communities, taking into consideration the tenets of community-based research.

ICER is very well positioned to contribute each of these aspects in regards to both servicing faculty research, supporting graduate students in the CESCE theme and facilitating experiential learning opportunities, and providing a physical and virtual entry-point for community organizations and First Nations communities working on social justice and Indigenous related issues.

### **Coherence with UBC Aboriginal Strategic Plan**

Several ICER members are deeply engaged in Aboriginal and Indigenous research. Undertaking work with communities, in support of issues relevant to those communities. This deep engagement is well reflected in the projects that ICER has co-organized, hosted and sponsored over the past year. In addition, we have as founding partners for the Institute, the Okanagan Nation Alliance and the En'owkin Centre; the inclusion of these organizations and associated individuals provide a strong foundation for future collaborations addressing Indigenous issues in the Okanagan.



# ICER ANNUAL REPORT 2017-2018

## ICER Governance and Membership

### GOVERNANCE

#### Steering Committee Members 2018-2019:

- Jon Corbett, Institute Director
- Mike Evans
- Jeannette Armstrong
- Lawrence Berg
- Judy Gillespie
- Rachelle Hole
- Leyton Schnellert
- Brigitte le Normand (replacing Jessica Stites-Mor on the Committee)
- Community Member\* - Jill Worboys Interior Health /Community Food Policy Council
- Student Member\* - vacant

\*At the 2017-18 AGM held in June 2018, the membership unanimously declared that a representative from the student body and from the community should sit on the Steering Committee. Jill Worboys, Public Health Dietician and board member for The Central Okanagan Food Policy Council accepted the nomination to sit as the community member. In September 2018, student nominations will be invited to sit on the steering committee for the 2018-19 year.

### MEMBERSHIP

As of March 2018, ICER membership was as follows:

- 31 Full members (Faculty)
- 10 Associate members
- 7 International / National Collaborating Centers and Institutes
- 100 Graduate students
- 1 Technician
- 1 Staff

### NEW MEMBERSHIP

Over the past year, at UBC Okanagan two new faculty members and one staff member, and from the community three members have joined the Institute:

For a detailed list of the ICER membership, please consult Appendix A.



## ICER ANNUAL REPORT 2017-2018

### SPACE AND FACILITIES

The ICER space in Arts 368 plays a central role in the ability of the Institute to provide services to our membership (faculty, graduate and undergraduate students, and community). It is used in diverse ways, ranging from providing a unique space to host small and intimate research talks, through to accommodating research planning and management meetings with faculty, students and community partners. It is used throughout the winter, fall and summer periods.

The space is currently used to host:

- Presentations, symposia and speakers' series (including the ICER Speaker Series, the Starting a Conversation Series, the Graduate Brown Bag Lunch series and the Gender and Women's Studies Speaker Series);
- Graduate student meetings, presentations and defenses (including the graduate students Brown Bag Lunch series, and the Graduate Student Forum preparation and planning meetings);
- Community members meetings, planning sessions, research exploration (including all the community gatherings for the City of Kelowna Reconciliation training workshops, the CUHub project and the Rutland Community Kitchen projects);
- Faculty membership meetings (including all the planning meetings required to co-develop the Community Engagement, Social Change and Equity Interdisciplinary Graduate Studies theme, as well as provide the space to create a number of research project management, planning and funding application meetings);
- Social events (including supporting the Community Culture and Global Studies tea break gathering, and the welcoming of new graduate students on their arrival to the campus).

Providing desk space and access to a computer workstation remain a core service to our graduate students, faculty on sabbatical and visiting scholars. However, as a part of our recent visioning exercise we are reducing the number of computer workstations in the space, and instead focusing on co-learning spaces where our members can use their own laptops, informal meeting corners within the Institute, drop-in desk spaces and a standing desk area. We will maintain five workstations and have removed three.

We are in the process of modernizing our audio-visual hardware to include the ability to cast/stream presentations and media to our Smartboard.

ICER also has a well-maintained inventory of multimedia equipment (video, photographic and audio devices) that are used to support research and ICER related events. These are available and used by faculty members, their graduate students and community partners.



# ICER ANNUAL REPORT 2017-2018

## STAFF AND ADMINISTRATION

Dr. Jon Corbett is the current director of the Institute.

Joanne Carey is the current institute coordinator (0.5 FTE). Joanne works in conjunction with the director in the areas of planning, coordination, and communication regarding the Institute by:

- Organizing ICER-supported symposia, guest speakers, conversation starters series, quarterly meetings, AGM, general meetings and other events, as needed
- Preparing the Institute's annual activity reports
- Monitoring the budget (in conjunction with the relevant financial office in the Office of Research Services)
- Promoting ICER research to the broader community in collaboration with university media relations officers
- Assisting with HR related to work-study, undergraduate, graduate student and staff appointments
- Developing and maintaining the ICER newsletter, web site, and social media (Twitter and Facebook)
- Coordinating the production of ICER Press publications
- Assisting with research reporting, administration and grant-writing.



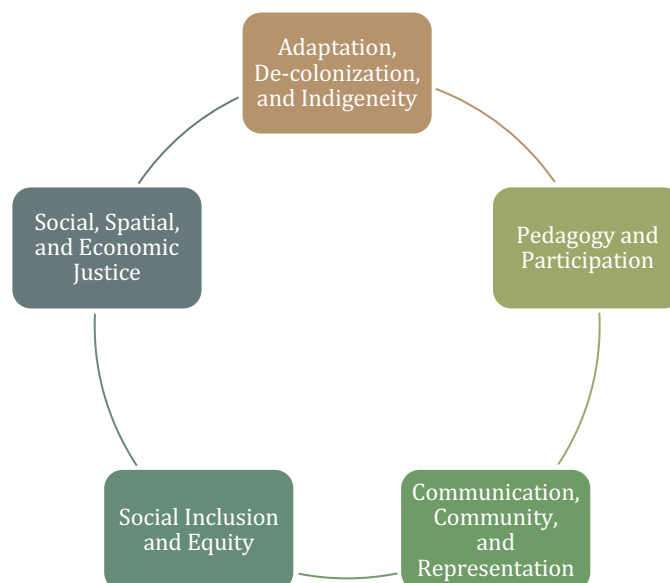
# ICER ANNUAL REPORT 2017-2018

## Academic Measures

The scope of practice among ICER's membership includes teaching, research, and the integration of both into community engaged relationships and research. We are committed to:

- Conducting innovative research in our identified research themes,
- Providing world-class training opportunities for graduate, postdoctoral and community researchers,
- Offering meaningful opportunities for undergraduate research experience, and
- Fostering a vibrant local community of researchers from within and beyond the University and facilitating linkages into a wider community of international scholars and scholarship.

Faculty and associate members of ICER conduct research across a very broad range of disciplines and employ any number of methods and methodologies in their research. As an Institute, we are committed to being flexible and responsive to community priorities and interests as well as those of university members. Our research focus, beyond research that engages and contributes to solutions and positive outcomes for communities, is necessarily open-ended. Nonetheless, we and our community partners have developed five "research clusters" that frame the research undertaken within the ICER. These clusters include community, faculty, and student participants working on related projects. The intention of the clusters is to provide clarity around our research interests and strengths, and to define smaller more focused communities of practice within the wider Institute.





# ICER ANNUAL REPORT 2017-2018

## GRANTS

This year ICER members<sup>2</sup> secured **\$1,423,578** from 33 new grants and contracts and manages a further **\$2,320,965** in 28 ongoing grants and contracts. ICER members are involved in grants currently under review worth **\$4,572,825**.

### ICER New Grants 2016-17 (please note that ICER members are in bold text):

Funding body	Title	Grant - ICER member received	Larger shared Grants	Grant - Total Amount	Period	PI	Co-I	Collaborator	Role of Institute member
SSHRC		\$7,000		\$7,000	07/2017-07/2018	John Janmaat			PI
Fraser Basin Council		\$10,360		\$10,360	09/2017-02/2018	John Janmaat			PI
SSHRC	Bridge Funding	\$5,000		\$5,000	06/2017-12/2017	John Janmaat			PI
RSEDIC	Seed Fund	\$3,500		\$3,500	06/2017-04/2018	John Janmaat			PI
UBC Partnership Recognition Fund		\$1,500		\$1,500	2017-2018				
CIHR Strategy for Patient-Oriented Research (SPOR): Patient-Oriented Research Collaboration Grants	Building Citizen Engagement in the Translating Research in Elder Care (TREC) Program	\$80,000		\$80,000	2018 - 2019			Colin Reid	Collaborator: Colin Reid

<sup>2</sup> Please note 19/33 members provided their reporting materials and 2/33 were on leave.



# ICER ANNUAL REPORT 2017-2018

<b>Interior Savings Credit Union</b>	Mapping for Change Phase 2	\$15,000		\$15,000	2018-2019	Jon Corbett	Shelley Cook		PI
<b>Central Okanagan Foundation</b>	Mapping for Change Phase 2	\$15,000		\$15,000	2018-2019	Jon Corbett	Shelley Cook		PI
<b>Central Okanagan Foundation</b>	Kelowna Food Assessment	\$10,000		\$10,000	2017-2018	Jill Worboys	Jon Corbett		Co-I
<b>SSHRC</b>	Insight Grant: Rijeka in Flux	\$272,000		\$272,000	2018-2022	Brigitte LeNormand	Jon Corbett		Co-I
<b>UBC Okanagan, Office of the VPR</b>	Identifying Exemplar Participatory Mapping projects	\$5,000		\$5,000	2018-2019	Jon Corbett			PI
<b>SSHRC</b>	Awards to Scholarly Publication	\$8,000		\$8,000					Allison Hargreaves
<b>FCCS</b>	Travel Grant	\$1,500		\$1,500	2018	Virginie Magnat			
<b>Genome Canada</b>	Silent Genomes: Reducing health care disparities and improving diagnostic success for children with genetic diseases from Indigenous populations		\$2,500,000.00	\$2,500,000.00	2017-2021		Michael Burgess		Co-applicant with 17 others
<b>CIHR</b>	Deliberative public engagement to inform cancer control decision-	\$193,782		\$193,782	2017-2021	Michael Burgess et al			PI



## ICER ANNUAL REPORT 2017-2018

	making in Canada								
<b>CIHR</b>	Selling Health: How do pharmacists consider their ethical conduct in relation to front-of-stores sales?	\$50,000		\$50,000	2017-2019		Michael Burgess		Co-I
<b>CIHR</b>	Practice, Policy, and Ethical Implications of Physician-Assisted Death for Nursing: A Knowledge Synthesis and Qualitative Investigation	\$98,175		\$98,175	2017-2020		Michael Burgess		Co-I
<b>SSHRC</b>	Distinct concepts of diversity and their ethical-epistemic implications for science	\$24,500		\$24,500	2017-2020		Michael Burgess		Co-I
<b>CIHR</b>	PHSI development funds. C Eliciting public values to inform cancer drug decision-making across Canada	\$20,000		\$20,000	2017-2018	Michael Burgess			PI
<b>UBC Partnership Fund</b>	The Okanagan Immigrant Collective	\$1,500		\$1,500	2018				



# ICER ANNUAL REPORT 2017-2018

	Board Retreat								
<b>FCCS Research Support Fund</b>	Decolonizing Diaspora: Feminist Dialogues and Representations on Turtle Island	\$1,000		\$1,000	2017				
<b>UBC Partnership Fund</b>	Confluence: A Women's Water Circle	\$1,500		\$1,500	2017		Ruthann Lee		Co-I
<b>FCCS Events Support Fund</b>	Confluence: A Women's Water Circle	\$500		\$500	2017				
<b>UBC Equity Enhancement Fund</b>	Confluence: A Women's Water Circle	\$5,000		\$5,000	2017-2018	Ruthann Lee			PI
<b>SSHRC Connection Grant</b>	Interdisciplinary Workshop on Reproductive Mobilities: Dialogue, Exchange, and New Research Directions	\$24,844		\$24,844	2017	Susan Frohlick			PI
<b>UBC Hampton Research Fund</b>		\$3,000		\$3,000	2017	Susan Frohlick			
<b>SSHRC Knowledge Synthesis Grant</b>	Evaluation approaches for community change initiatives to address Aboriginal child and family well-being	\$25,000		\$25,000	May 2017-Dec 2018	Judy Gillespie			



## ICER ANNUAL REPORT 2017-2018

<b>UBC VP Research Top-up to SSHRC Knowledge Synthesis Grant</b>	Evaluation approaches for community change initiatives to address Aboriginal child and family well-being	\$5,250		\$5,250	May 2017- Dec 2018	Judy Gillespie			
<b>SSHRC Insight Development Grant</b>	Building Capacity to Investigate Interprofessional Child Welfare Expertise	\$38,000		\$38,000	April 2017- Nov 2018	Judy Gillespie			
<b>MITACS</b>	Framework for dialogue and learning with parents and professionals in the Central Okanagan	\$15,000		\$15,000	April 2016 - April 2017	Judy Gillespie			
<b>SSHRC</b>	Creating conditions for social innovation: factors that support cross- and intra-sector partnerships for direct social service non-profits.	\$173,000		\$173,000	2017-2021				
<b>SSHRC Insight Development Grant</b>		\$297,150		\$297,150	2017-2021		John Wagner		Co-I
<b>Collaborative Research Mobility Award (UBC/UW)</b>		\$12,516.76		\$12,516.76	2018	John Wagner			PI



# ICER ANNUAL REPORT 2017-2018

		Grant - ICER member received	Larger shared Grants	Grant - Total Amount				
	<b>TOTAL NEW</b>	<b>\$1,423, 578</b>	<b>\$2,500,0 00</b>	<b>\$3,923,5 78</b>				

Total number of new grants = 33

## ICER 2016-2017 Continuing Grants:

Funding body	Title	Grant - ICER member received	Larger shared Grants	Grant - Total Amount	Period	PI	Co-I	Role of Instit e member
<b>National Science Foundation</b>	Documen ting Endanger ed Language s Program	\$299,474. 85		\$299,474.8 5	2016 to 2020		Christi ne Schrey er, John Wagne r	Co-I
<b>UBC Okanagan</b>	HSS Grant	\$4,750		\$4,750	2017 to 2018 (extensi ons)	Christi ne Schrey er		PI
<b>UBC Okanagan</b>	Teaching grant	\$7,000		\$7,000	?	John Janma at		PI
<b>BC Conservation Fund</b>		\$50,000		\$50,000	09/2015 -?	John Janma at		PI
<b>BC Farm Adaptation Innovator Program</b>		\$75,000		\$150,000	04/2015 - 02/2018		John Janmaa t	Co-I
<b>I.K. Barber Learning Fund/ Office of the Vice Principal/ IKBSAS</b>	Communi ty Engagem ent Portal	\$27,000		\$27,000	2017- 2019	Jon Corbet t		PI
<b>Mitacs/Real Estate Foundation/Mit subishi Foundation</b>	A collabora tive web- based decision- support tool for First Nations	\$157,000		\$157,000	2016- 2018	Jon Corbet t		PI



# ICER ANNUAL REPORT 2017-2018

<b>Social Sciences and Humanities Research Council</b>	Open data policies in British Columbia	\$138,500		\$138,500	2016-2020	Ian Parfitt	Corbett, +3	Co-I
<b>Social Sciences and Humanities Research Council</b>	TYDE: Transitioning Youth with Disabilities and Employment	\$138,001		\$138,001	2016-2017	Rachelle Hole	Joan Bottorff, Jon Corbett, Leyton Schnellert, Tim Stainton & Richard Young	Co-I
<b>Canadian Wildlife Federation</b>	Android reporting tool	\$20,000		\$20,000	2016-2018	Jon Corbett		PI
<b>Firelight Group</b>	Managing First Nations Referral Systems	\$14,000		\$14,000	2015-2020	Jon Corbett		PI
<b>SSHRC</b>	Insight Grant	\$94,090		\$94,090	2016	Virgini e Magnat		
<b>SSHRC</b>	Connection Grant	\$24,745		\$24,745	2017	Virgini e Magnat		
<b>UBC</b>	Hampton Grant	\$3,000		\$3,000	2017	Virgini e Magnat		
<b>SSHRC</b>	IDG	\$46,102		\$46,102	07/2016 - 07/2018	Bonar Buffam		
<b>CIHR</b>	Filling the void: Public engagement around a new model for access to research	\$135,000		\$135,000	3 years		Michael Burgess	Co-I



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	resources							
<b>CIHR</b>	Public deliberation on vaccine hesitancy	\$100,000		\$100,000	1 year		Michael Burgess	Co-I
<b>SSHRC</b>	The participedia project: A global partnership to create and mobilize knowledge about democratic innovations						Michael Burgess	Co-I
<b>Patient Centered Outcomes Research Institute (US)</b>	Describing the comparative effectiveness of colorectal cancer screening tests: The impact of quantitative information.		\$54,000,000	\$54,000,000			Michael Burgess	Co-I
<b>Canadian Cancer Society Research Institute</b>	Canadian Centre for Applied Research in Cancer Control		\$1,000,000	\$1,000,000			Michael Burgess	Co-I
<b>BC Ministry of Social Development and Social Innovation:</b>	Research and Innovation (R&I) stream of the Communi	85,000	1,970,000	1,970,000	2017-2020		Michael Evans	Collaborator



# ICER ANNUAL REPORT 2017-2018

	ty and Employer Partnerships program – “Building Resources and Innovative Development Growth and Economic Stability”							
<b>Ministry of Advanced Ed. BC</b>		103,000		103,000				
<b>Now ends June 30 2018</b>	Michael Evans			PI				
<b>Indigenous and Northern Affairs Canada –</b>	“Digital Archives Database Project”	\$112,700		\$300,000	April 2006-March 2018		Michael Evans	CI
<b>SSHRC</b>	“Re-mediating Curtis”	\$293,900		\$293,900	2015-2018	Michael Evans	Stephen Foster	
<b>BC Ministry of Education</b>	Communities of pedagogical inquiry: In situ teacher education	\$40,000		\$120,000	Sept 2016-June 2018		Leyton Schnellert	
<b>Vancouver Foundation</b>	Sexual Health Knowledge and Intellectual Disability	\$142,702		\$142,702	Sept 2016-June 2019		Leyton Schnellert, Rachelle Hole, Tim Stainton	
<b>BC Ministry of Education</b>	Rural Schools Advisory: Growing Innovations in	\$60,000		\$60,000	Sept 2016 - Aug 2018	Leyton Schnellert		



## ICER ANNUAL REPORT 2017-2018

	Rural Sites of Learning							
<b>Vancouver Foundation</b>	Through a Different Lens (TADL)	\$150,000		\$150,000	Sept 2015- June 2018	Leyton Schnellert	SD#67	
		Grant - ICER member received	Larger shared Grants	Grant - Total Amount				
	TOTAL	\$2,320,964.85	\$56,970,000.00	\$59,548,264.85				

Total number continuing grants = 28

### 2017-18 PUBLICATIONS, EXHIBITIONS AND PERFORMANCES BY ICER MEMBERS

Buffam, Bonar (2018). 'Racial accountabilities: the legal legibility of racial state violence in the Special State's Attorney Report on police torture in Chicago,' Cultural Studies, 32, 2, 326-347. (Accepted for publication in May 2017).

Burgess, Michael, Mumford, J., Lavery, J.. Public engagement pathways for emerging biotechnologies. BMC Genomics special issue. Accepted for publication by special issue editors Sept 2017.

Cherkowski, S., & Schnellert, L. (2017). Exploring teacher leadership in a rural, secondary school: Reciprocal learning teams as a catalyst for emergent leadership. International Journal of Teacher Leadership, 8(1), 6-25.

Cherkowski, S., and L. Schnellert. (2018). Teacher, team and school change through reciprocal learning. Teacher Development, 22(2). 229-248.

Corbett, J. M., & Cochrane, L. (2017). Engaging with the Participatory Geoweb: Experiential Learning from Practice. In Campelo, C., Elízio, C., Bertolotto, M., & Corcoran, P. (Eds.). (2017). Volunteered Geographic Information and the Future of Geospatial Data. IGI Global. (pp. 1-18).

Dearing, J.W., Beacom, A.M., Chamberlain, S.A., Meng, J., Berta, W.B., Keefe, J.M., Squires, J.E., Doupe, M.B., Taylor, D., Reid, R.C., Cook, H., Cummings, G.G., Baumbusch, J.L., Knopp-Sihota, J., Norton, P.G., Estabrooks, C.A. (2017) Pathways for best practice diffusion: The structure of informal relationships in Canada's long-term care sector. Implementation Science, 12: 11 doi: 10.1186/s13012-017-0542-7.



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Dry SM, Garrett SB, Koenig BA, Brown AF, Burgess MM, Hult JR, Longstaff, H, Wilcox ES, Madrigal Contreras SK, Martinez A, Boyd EA, Dohan, D. Community Recommendations on Biobank Governance: Results from a Deliberative Community Engagement in California. PLOS ONE 12(2): e0172582 (2017). 1-14. <https://doi.org/10.1371/journal.pone.0172582>

Evans, Mike and Lindsay Harris (2018) Salmon as Symbol, Salmon as Guide: What Anadromous Fish can do for thinking about Islands, Ecosystems and the Globe, Shima 12.1 (2018): 1-12. (accepted March 2018)"

Gabelhouse, J., Eves, N., Grace, S. L., Reid, C., & Caperchione, C. M. (2017). Traditional versus hybrid outpatient cardiac rehabilitation. Journal of Cardiopulmonary Rehabilitation and Prevention, doi: 10.1097/HCR.0000000000000253. [Epub ahead of print]

Geleta, S., Janmaat, J., Loomis, J., and Davies, S. "Valuing Environmental Public Goods: Deliberative Citizen Juries as a Non-Rational Persuasion Method." Accepted for publication in Journal Of Sustainable Development, March 2018.

Gill, M., & Corbett, J. (2017). Downscaling: Understanding the influence of open data initiatives in smaller and mid-sized cities in British Columbia, Canada. The Canadian Geographer, 61(3), 346-359.

Gill, M., Corbett, J., & Sieber, R. (2017). Exploring Open Data Perspectives from Government Providers in Western Canada. Journal of the Urban & Regional Information Systems Association, 28(1).

Gillespie, J. (2018). Enhancing Aboriginal child welfare through multi-sector community collaboration. In Lynda Shevellar & Peter Westoby (Eds.), The Routledge handbook of community development research (pp. 181-193). New York: Routledge.

Hargreaves, Allison and Ruthann Lee [50% co-authorship]. "A Special Note on Teaching Indigenous Content." Writing Today. Second Canadian Edition. Edited by Richard Johnson-Sheehan, Charles Paine, Cathi Shaw and Jordan Stouck. Toronto: Pearson, 2019. xxiv-xxv.

Hargreaves, Allison. ""Violence Against Indigenous Women: Literature, Activism, Resistance. Waterloo: Wilfrid Laurier University Press, 2017. pp. 281.

Hargreaves, Allison. Rev. of Indigenous Men and Masculinities: Legacies, Identities, Regeneration ed. By Robert Alexander Innes and Kim Anderson. University of Toronto Quarterly 86.3 (Summer 2017): 242-244."



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Harris, L., Janmaat, J., Evans, M., and Carlaw, K. "Negotiating the Frame for a Living Wage in Revelstoke BC: An Econ-Anthropological Approach." Accepted for publication in *Human Organization*, March 2018.

Holosko, M. J., Mishna, F., Graham, J. R., & Allen, J. L. (2017). Citation Impact Factors Among Faculty in Canadian Social Work Programs. *Research on Social Work Practice*, 1–9.

Janmaat, J. "Drought Risk and Water Conservation Expenditures as a Household Production Problem." Accepted for publication in *WATER RESOURCES AND ECONOMICS*, April 2017.

Janmaat, J. and Rahimova, N. "Managing Drought Risk in the Okanagan: A Role for Dry Year Option Contracts?"; Accepted for publication in *CANADIAN PUBLIC POLICY*, February 2018.

Javdani, Mohsen. "Job Satisfaction and Coworker Pay in Canadian Firms" (with Brian Krauth, SFU), Accepted (March 28, 2018) and forthcoming, *Canadian Journal of Economics*.

Javdani, Mohsen. "Labor market mobility and the assimilation of young immigrant men" (with Andrew McGee, U of Alberta), Accepted (March 27, 2018) and forthcoming, *IZA Journal of Development and Migration*.

Lee, Ruthann. "Using Indigenous Feminist Land Ethics to Queer the Korean Missionary Position in Canada." *TOPIA: Canadian Journal of Cultural Studies* 38 (Fall 2017): 103-113.

Macintyre Latta, M., \*Hanson, K., Ragoonaden, K., \*\*Briggs, W., & \*\*Middleton, T. (2017). Accessing the Curricular Play of Critical and Creative Thinking. *Canadian Journal of Education*, 40 (3), 191-219. <http://journals.sfu.ca/cje/index.php/cje-rce/issue/view/115>

Macintyre Latta, M., Cherkowski, S., Crichton, S., Klassen, W., & Ragoonaden, K. (2017). Investing in communities of scholar-practitioners. *Teacher Learning and Professional Development*, 2 (1), 32 – 44. <http://journals.sfu.ca/tlpd/index.php/tlpd/issue/view/3/showToc>

Macintyre Latta, M., Schnellert, L., Ondrik, K., & Sasges, M. (2017). Curricular enactment's community (re)making. *Journal of Curriculum Studies*. 49(3): 255-272.

Magnat, Virginie and Konstantinos Thomaidis, co-editors of special issue "Voicing Belonging: Traditional Singing in a Globalized World," *Journal of Interdisciplinary Voice Studies* 2.2 (2017).

Magnat, Virginie. "La performativité des processus contemporains de création." *Metteur en scène aujourd'hui - identité artistique en question ?* edited by Izabella Pluta. Rennes: Presses Universitaires de Rennes, 2017. 287-296.



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Magnat, Virginie. Review of Grotowski's Bridge Made of Memory: Embodied Memory. Witnessing and Transmission in the Grotowski Work by Dominika Laster for The Sarmatian Review Vol. XXXVII, No. 2 (April 2017): 2099-2101.

Magnat, Virginie. The Bridge of Winds - International Group of Theatrical Research Led by Iben Nagel Rasmussen. Published in December 2017 on the Routledge Performance Archive and exclusively produced for my SSHRC-funded "Meetings with Remarkable Women" Documentary Film Series ([www.routledgeperformancearchive.com](http://www.routledgeperformancearchive.com)) in connection with my first monograph Grotowski, Women, and Contemporary Performance: Meetings with Remarkable Women (Routledge 2014).

Polisena Julie, Burgess MM, Mitton C, Lynd LD. Engaging the Canadian Public on Reimbursement Decision-Making for Drugs for Rare Diseases: A National Online Survey. BMC Health Services Research 17: 372-380 (2017). DOI 10.1186/s12913-017-2310-4

Reid, R. C., & Chappell, N. L. (2017). Family Involvement in Nursing Homes; Are Families Getting What they Want? Journal of Applied Gerontology, 36, 993-1015. DOI: 10.1177/0733464815602109

Rush, K.L., Oelke, N.D., Reid, C., Halperin, F., Laberge, C., Kjørven, M. (2017). Risks and Older Adults with Atrial Fibrillation in Rural Communities: An Integration Lens. Journal of Integrated Care, 24, 188-200. DOI: 10.1111/jocn.13939.

Schnellert, L. (2017). Directions for self-regulated learning research: Connecting dots between 21st century learning, pedagogy and valued outcomes for learners. Canadian Association for Educational Psychology Dialogic. 3(1): 19-20.

Schnellert, L., Fisher, P. & K. Sanford. (2018). Developing Communities of Pedagogical Inquiry in British Columbia In Brown, C. & C. Poortman (Eds.) Networks for Learning Effective Collaboration for Teacher, School and System Improvement. Routledge Taylor & Francis Group. 56-74

Schreyer, Christine (2017). Reflections on the Kala Biñatuwã, a three year old alphabet, from Papua New Guinea. In Creating Orthographies for Endangered Languages, edited by Mari C. Jones and Damien Mooney, pp. 126-141. Cambridge Press, Cambridge, UK. T.S.

Shier, M. L., Nicholas, D., Graham, J. R., & Young, A. (2017). Preventing workplace violence in human services workplaces: Organizational dynamics to support positive interpersonal interactions among colleagues. Human Service Organizations: Management, Leadership, and Governance.



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Thompson, G. N., Doupe, M., Reid, R. C., Baumbusch, J., Estabrooks, C. A. (2017). Pain trajectories of nursing home residents nearing death. *Journal of the American Medical Directors Association*, 18, 700-706.

Vanni D'Alessio, V., Le Normand, B. & Corbett J.M. (2017). "Crowdsourcing historical information in a contested city: A Geolive Platform to Spatialize Rijeka's Overlapping Layers and Narratives" In Plosnić Škarić, A., Mapping urban changes / Mapiranje urbanih promjena. Institut za povijest umjetnosti, 2017

### **Publications in press**

Magnat, Virginie, with Manulani Aluli-Meyer, Mariel Belanger, Jill Carter, Corinne Derickson, Delphine Derickson, Claire Fogal, Vicki Kelly, Carolyn Kenny, Joseph Naytowhow, Julia Ulehla, Winston Wuttunee. "Experiencing Resonance as a Practice of Ritual Engagement," with weblink to companion documentary film edited by Mariel Belanger, *Research as Reconciliation*, edited by Shawn Wilson with Andrea Breen and Lindsay DuPré, Canadian Scholars' Press, accepted, forthcoming 2018.

Magnat, Virginie. "Occitan Music Revitalization as Radical Cultural Activism: From Postcolonial Regionalism to Altermondialisation." *Popular Music and The Postcolonial* edited by Oliver Lovesey, London and New York: Routledge, forthcoming 2019.

Al-Krenawi, A., & Graham, J. R. (in press). Utilization and help seeking of mental health services among Muslim communities: Preliminary insights. In H. Hamid (Ed.), *Islam, health, and medicine*. Walnut Creek, California: Altamira Press

Cochrane, L., & Corbett, J. M. (in press). Participatory mapping. Forthcoming on Servaes J. *Handbook of Communication for Development and Social Change*. Springer.

Fulton, A. E., Pullen Sansfaçon, A., Brown, M., Éthier, S., & Graham, J. R. (in press). Migrant social workers, foreign credential recognition and securing employment in Canada: A qualitative analysis of pre-employment experiences. *Canadian Social Work Review*.

"Hargreaves, Allison. "Teaching Rhetorical Sovereignty in the Composition Classroom." *Violence in the Work of Composition*. Eds. Scott Gage and Kristie Fleckenstein. Under consideration with Utah State University Press."

Lindgren, A. & Corbett, J.M. (in press). The Local News Map: Transparency, Credibility and Critical Cartography. Forthcoming in *The Future of Local News: Research and Reflections*. Multimedia edited collection from June 2017 conference on the future of local journalism. Toronto: Ryerson Journalism Research Centre.



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Macintyre Latta, M., Schnellert, L., Ondrik, K., & Sasges, M. (accepted for publication). Modes of Being: Mobilizing Narrative Inquiry. To be published in Qualitative Inquiry. (journal impact factor 1.159).

"Magnat Virginie, and Magdalena Kazubowski-Houston. "Introduction to the Special Issue The Transdisciplinary Travels of Ethnography," Cultural Studies ↔ Critical Methodologies, Special Issue co-edited by Magdalena Kazubowski-Houston and VirginieMagnat.

Magnat Virginie, and Magdalena Kazubowski-Houston. "Introduction to Thematic Section Ethnography, Performance and Imagination," Anthropologica, peer-reviewed Thematic Section co-edited by M. Kazubowski-Houston and V. Magnat (scheduled for publication in Summer 2018).

Magnat Virginie. "A Traveling Ethnography of Voice in Qualitative Research," Cultural Studies ↔ Critical Methodologies, Special Issue "The Transdisciplinary Travels of Ethnography" co-edited by Magdalena Kazubowski-Houston and Virginie Magnat.

Magnat Virginie. "Chanter la diversité culturelle en Occitanie: Ethnographie performative d'une tradition réimaginée." Anthropologica, peer-reviewed Thematic Section "Ethnography, Performance and Imagination co-edited by M. Kazubowski-Houston and V. Magnat and (scheduled for publication in Summer 2018).

Magnat, Virginie. "Swieto," Re-View Section of Theatre, Dance and Performance Training, accepted, forthcoming 2018.

Magnat, Virginie. Review of Performing the Intercultural City by Ric Knowles, for Modern Drama, forthcoming 2018.

Pullen-Sansfaçon, A., Brown, M., & Graham, J. R. (in press). Adaptation and acculturation: Experiences of internationally educated social workers. Journal of International Migration and Integration."

Schreyer, Christine (In Press). T'aakú Téix'i - The Heart of the Taku: A multifaceted place name from the Taku River Tlingit First Nation. Paper included in a Festschrift volume celebrating James Kari's work on Indigenous toponyms. To appear 2018. T.S.

### **Government and Other Reports**

Bauer, B., Janmaat, J., Rahimova, N. and Richardson, N. "Economic, Social, and Environmental Benefits of Riparian Rehabilitation as a Climate Change Adaptation Strategy for Agriculture." Final project report submitted to BC Agriculture & Food Climate Action Initiative. March 2018."



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Caxaj, C. Susana, Shirley Chau, Ruthann Lee [25% co-authorship], and Ilya Parkins. Campus Diversity Report: Experiences of Indigenous and/or Racialized and/or LGBTQ+ Students at UBC Okanagan. March 2018. 20pp.

Derrickson, A., Armstrong, J., & Corbett, J. November, 2017 Truth and Reconciliation: The City of Kelowna. A report prepared for the City of Kelowna, 27 pages.

Gillespie, J. & Albert, J. (2018). Promising approaches in evaluating comprehensive community initiatives to promote Aboriginal child and family well-being: The role of Indigenous ways of knowing and approaches to research. A Knowledge Synthesis prepared for the Social Sciences and Humanities Research Council of Canada.

Janmaat, J. and Cebry, A. "Cultus Lake Environmental Services Valuation: Phase 1." Final project report submitted to the Fraser Basin Council and the Cultus Lake Aquatic Stewardship Strategy (CLASS). February 2018.

Sanford, K., Schnellert, L., & Fisher, F. (2018, Feb). In Situ Communities of Pedagogical Inquiry: A Report of Outlining Challenges and Opportunities for Multi-Organization Learning Partnerships. Submitted to the BC Ministry of Education. 29 pages

### **ICER PRESS Publications:**

Schnellert, L. & School District No. 10 (Arrow Lakes). (2017, Dec). Building a learning community of pedagogical inquiry. ISBN: 978-1-888804-05-7, Kelowna, British Columbia: Institute for Community Engaged Research Press. Downloaded January 27, 2018 from: [https://www.academia.edu/35487371/Building\\_a\\_Learning\\_Community\\_of\\_Pedagogical\\_Inquiry](https://www.academia.edu/35487371/Building_a_Learning_Community_of_Pedagogical_Inquiry).

Schnellert, L. (2017, Nov). Place-consciousness and in situ teacher education in the West Kootenays. ISBN: 978-1-888804-04-0. Kelowna, British Columbia: Institute for Community Engaged Research Press. Downloaded January 27, 2018 from: [https://www.academia.edu/35139569/Place-consciousness\\_and\\_in\\_situ\\_teacher\\_education\\_in\\_the\\_West\\_Kootenays](https://www.academia.edu/35139569/Place-consciousness_and_in_situ_teacher_education_in_the_West_Kootenays).

Schnellert, L., Wilson, L. & Kozak, D. (2018, Feb). Writing workshop: Every student is an author. To be published by Institute for Community Engaged Research Press. Downloaded March 2, 2018 from [https://www.academia.edu/35945743/Writers\\_Workshop\\_Every\\_Child\\_an\\_Author](https://www.academia.edu/35945743/Writers_Workshop_Every_Child_an_Author).

Schnellert, L. & School District No. 10 (Arrow Lakes). (2017, Dec). Building a learning community of pedagogical inquiry. ISBN: 978-1-888804-05-7, Kelowna, British Columbia: Institute for Community Engaged Research Press. Downloaded January 27, 2018 from: [https://www.academia.edu/35487371/Building\\_a\\_Learning\\_Community\\_of\\_Pedagogical\\_Inquiry](https://www.academia.edu/35487371/Building_a_Learning_Community_of_Pedagogical_Inquiry).



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Schnellert, L. (2017, Nov). Place-consciousness and in situ teacher education in the West Kootenays. ISBN: 978-1-888804-04-0. Kelowna, British Columbia: Institute for Community Engaged Research Press. Downloaded January 27, 2018 from:  
[https://www.academia.edu/35139569/Place-consciousness and in situ teacher education in the West Kootenays](https://www.academia.edu/35139569/Place-consciousness_and_in_situ_teacher_education_in_the_West_Kootenays).

Schnellert, L., Wilson, L. & Kozak, D. (2018, Feb). Writing workshop: Every student is an author. To be published by Institute for Community Engaged Research Press. Downloaded March 2, 2018 from [https://www.academia.edu/35945743/Writers Workshop Every Child an Author](https://www.academia.edu/35945743/Writers_Workshop_Every_Child_an_Author).



## ICER ANNUAL REPORT 2017-2018

### GRADUATE STUDENTS AND POSTDOCS IN PROGRAMS

ICER members currently supervise 38 Masters and 46 Ph.D. Students. In the 2016-2017 reporting period, 12 Masters and 3 Ph.D. students graduated.

#### ICER Masters Students 2016-2017:

Total = 38

Student name	Project Title	Date	Supervisor	Co-Supervisor	Committee
Mark Roswold		2017- on going	Christine Schreyer		
Carson Toews		2017- on going	Christine Schreyer		
Ashley Dupperon		2014- on going			Christine Schreyer
Corrine Derrickson	MFA	2016- on going		Virginie Magnat	Christine Schreyer
Mary Song		2017- on going			Christine Schreyer, Allison Hargreaves
Jesse Zeman		2013- on going	John Janmaat		
Theresa Lowen		2017- on going			John Janmaat
Trystan Carter		2016- on going			David Jefferess
Leah Wafler		2017- on going			David Jefferess
Ryley Price		on going			Colin Reid
Kayla Fitzpatrick		on going			Colin Reid
Eva-Lena Lang		2017- on going		Jon Corbett	
Steven Thomas Davies	MFA	2017- on going			Jon Corbett, Allison Hargreaves
Jasmeet Bahaia		2016- on going	Bonar Buffam		Jon Corbett
Mariel Belanger	MFA	2016- on going			Allison Hargreaves



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<b>Crystal Przybille</b>	MFA	2016- on going			Allison Hargreaves
<b>Karolina Bialkowska</b>		2015- on going			Allison Hargreaves
<b>Marial Belanger</b>	MFA	Fall 2018?		Virginie Magnat	Ruthann Lee
<b>Michael Turner</b>	MFA	Summer 2018?			Virginie Magnat
<b>Darren Tanaka</b>		Sept.2015	Bonar Buffam		
<b>Lynda Reil</b>		Sept.2015	Bonar Buffam		
<b>Katarina Tropera</b>		Sept.2015- Aug.2017			Bonar Buffam
<b>Adam Fulton</b>		2014	Barb Pesut		Michael Burgess
<b>Madeleine Greig</b>		2014	Barb Pesut		Michael Burgess
<b>Megan Briskham</b>		2017	Chris Martin		Michael Burgess
<b>Carmella Alecis</b>		2009-		Michael Evans	
<b>Saundra Young</b>		2015-	Michael Evans		
<b>Kyla Hadden</b>		- June 2018 expected	Leyton Schnellert		
<b>Brooke Haller</b>		- June 2018 expected	Leyton Schnellert		
<b>Dave Rempel</b>	M.Ed	- August 2018 expected	Leyton Schnellert		
<b>Carrie Heldman</b>	M.Ed	- August 2018 expected	Leyton Schnellert		
<b>Carsen Loftsgard</b>	M.Ed	- August 2018 expected	Leyton Schnellert		
<b>Nicole Crane</b>	M.Ed		Leyton Schnellert		
<b>Alyssa Christensen</b>	M.Ed		Leyton Schnellert		
<b>Tyler Cernak</b>	M.Ed		Leyton Schnellert		



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<b>Kendra Jacobs</b>					Leyton Schnellert
<b>Sandra Young</b>					Leyton Schnellert
<b>Marnie Bland</b>	MSW	01/17	Judy Gillespie - Field Supervisor		
<b>Suzanne Johnson</b>	MA	September 2016			John Wagner

### ICER Ph.D. Students 2016-2017

Total = 46

<b>Student name</b>	<b>Project Title</b>	<b>Date</b>	<b>Supervisor</b>	<b>Co-Supervisor</b>	<b>Committee</b>	<b>Awards</b>
<b>Jon Corbett</b>		2017-on going		Christine Schreyer		COGS, Graduate Dean's Entrance Scholarship, 2017 (\$10,000)
<b>Terri Everest</b>		2012- on going			Christine Schreyer	
<b>Sara Vieira</b>		2012- on going			Christine Schreyer	
<b>Keith Duhaime</b>		2012-on going		John Janmaat		
<b>Nargiz Rahimova</b>		2014-on going	John Janmaat			
<b>Rachel Field</b>		2015-on going			John Janmaat	
<b>Amarpreet Kaur</b>		2017- on going		John Janmaat		
<b>Lindsay Harris</b>		2015- on going			John Janmaat	
<b>Lindsay Diehl</b>		2012-on going			David Jefferess, Ruthann Lee	2012 SSHRC recipient



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<b>Kelly Hanson</b>		2015-on going			David Jefferess	
<b>Nicola Campbell</b>		2015-on going	Allison Hargreaves			
<b>Mary Kjørven</b>		on going				Colin Reid
<b>Ryan Wilson</b>		on going				Colin Reid
<b>Troy McMilan</b>		2017- on going			Jon Corbett	
<b>Shelley Cook</b>		2014- on going			Jon Corbett	
<b>Monica Good</b>		2013- on going	Allison Hargreaves			
<b>Toby Lawrence</b>		2016- on going	Ruthann Lee		Allison Hargreaves	
<b>Kathy Sawchuk</b>		2016- on going			Allison Hargreaves	
<b>Claire Fogal</b>				Allison Hargreaves		
<b>Meredith Rusk</b>			Leyton Schnellert		Virginie Magnat	
<b>Julia Olehla</b>					Virginie Magnat	
<b>Eury Chang</b>					Virginie Magnat	
<b>Dilsora Komil-Burley</b>		Sept.2016		Bonar Buffam		
<b>Laura Mudde</b>		Sept.2017		Michael Evans (as of April2018)	Bonar Buffam	
<b>Kim Taylor</b>		2013	Anita Ho	Michael Burgess, S. Thorne		
<b>Katrina Plamondon</b>		2016	Joan Bottorff	Michael Burgess		
<b>Darielle Talarico</b>		2017	Carey Doberstein	Michael Burgess		
<b>Lindsay Harris</b>		2015	Michael Evans			



## ICER ANNUAL REPORT 2017-2018

<b>Krista Arias</b>		2016			Ruthann Lee	
<b>Robyn Bunn</b>		2016 - withdrew Aug2017			Ruthann Lee	
<b>Donna Kozak</b>			Leyton Schnellert			
<b>Shelley Moore</b>				Leyton Schnellert		
<b>Miriam Miller</b>				Leyton Schnellert		
<b>Kimberley MacNeil</b>				Leyton Schnellert		
<b>Jewelless Smith</b>				Leyton Schnellert		
<b>Nelson Jatel</b>	PhD (Royal Roads)	Sept. 2016			John Wagner	
<b>Menno Salverda</b>		Sept. 2011	Judy Gillespie		Mike Evans, Peter Arthur	
<b>Tara Ettinger</b>		Sept. 2017	Judy Gillespie		John Graham	
<b>Sean St. Jean</b>		Sept 2011			Judy Gillespie	
<b>Joanne Taylor</b>	PhD	May 13	John Wagner			
<b>Stephen Decker</b>	PhD	Sept 2011			John Wagner	
<b>Aaron Derickson</b>	PhD	Sept 2016			John Wagner	
<b>Matt Hussain</b>	PhD	Sept 2011		John Wagner		
<b>Unrau, M.</b>		2017			John Graham	
<b>Qasqas, M</b>		2014			John Graham	
<b>Jeannette Angel</b>	PhD	Sept. 2011			John Graham	



# ICER ANNUAL REPORT 2017-2018

## ICER Masters Students Graduated 2016-2017:

Masters = 12

Student name		Date	Supervisor	Co-Supervisor	Committee	Awards
<b>David Lacho</b>		2015-2018	Christine Schreyer		Jon Corbett	Master's Student Research of the Year, March 2018
<b>Ricki-Lynn Achilles</b>		2016-2018	Christine Schreyer		Allison Hargreaves	IKBSAS, Graduate Student Travel Grant, 2017 (\$1000)
<b>Lindsay Farrugia</b>		2015-2018			Christine Schreyer	
<b>Katarina Trapara</b>		2015-2017			David Jefferess	
<b>Casey Hamilton</b>		2012-2017	Jon Corbett			
<b>Lauren Arnold</b>		2016-2018		Jon Corbett		
<b>James Littley</b>		2012-2018	Jon Corbett (since Dec.2015)			
<b>Thomas Jonsson</b>	MFA	Feb. 2018			Virgine Magnat	
<b>Dallas Goodwater</b>		2013-2018			Michael Evans	
<b>Maureen McLaughlin</b>	M.Ed.	April 2017	Leyton Schnellert			
<b>Teresa Peters</b>	M.Ed.	June 2017	Leyton Schnellert			
<b>Mark Tomness</b>	MSW					



# ICER ANNUAL REPORT 2017-2018

## ICER Ph.D. Students Graduated 2016-2017:

PhD = 4

Student name		Date	Supervisor	Co-Supervisor	Committee	Awards
<b>Colleen Larson</b>		2011-2017	Christine Schreyer			
<b>Eva-Marie Kovacs-Kowalke</b>	PhD	2010-2017	John Wagner			
<b>Corinna Netherton</b>	PhD	2014-2017			John Wagner	

## ICER undergraduate students 2016-2017

Undergraduates = 14

Name	Position	Dates	Role	ICER Member
<b>Sarah Ellis</b>	Work study RA	Sept 2017-Apr 18	Co-supervisor w. A. Dulic, (Lead Supervisor)	John Wagner
<b>Jay Bell</b>	RA	Apr 2017-present	Project supervisor and lead researcher	Javdani Mohsen
<b>Hannah Johnson</b>	RA	Feb 2018-present	Project supervisor and lead researcher	Javdani Mohsen
<b>Amy Doricic</b>	URA applicant (began work on application in fall, successful for summer 2018)	Oct 2017-Sept 2018	Supervisor	Christine Schreyer
<b>Ben Dunn</b>	URA applicant (January 2018, unsuccessful for summer 2018)		Co-supervisor w. Donna Senese	Christine Schreyer
<b>Shaniya Anand</b>	Undergrad Research Conference Participant	Feb 2018-Apr 2018	Supervisor	Christine Schreyer
<b>Philip Jaling</b>	URA	May-Aug 2018	Supervisor	John Janmaat



## ICER ANNUAL REPORT 2017-2018

<b>Mary Botkin</b>	RA (Work Study)	Dec 2017-Apr 2018	Supervisor	John Janmaat
<b>Mary Botkin</b>	RA	May-Aug 2018	Supervisor	John Janmaat
<b>Alex Cebry</b>	RA (Work Study)	Jan-Apr 2018	Co-supervisor w. Julien Picault	John Janmaat
<b>Alex Cebry</b>	RA	May-Aug 2018	Co-supervisor w. Julien Picault	John Janmaat
<b>Noelle Viger</b>	English Honors	May 2018	Supervisor	David Jefferess
<b>Brookes Hewko</b>	Undergraduate Student from OC, working on Homeless Mapping tool.	May 2016- May 2017	Project Supervisor	Jon Corbett, Kerry Rempel and Shelley Cook
<b>Ajeet Brar</b>	URA	Nov 2017-Mar 2018	Supervisor	Michael Evans
<b>Ashton Kinley</b>	UTA		Supervisor	Ruthann Lee
<b>Safeera Jaffer</b>	UTA		Supervisor	Ruthann Lee
<b>Safeera Jaffer</b>	4th Year Undergrad		Directed Studies Instructor	Ruthann Lee



## ICER ANNUAL REPORT 2017-2018

### ICER Three Year Comparison: 2015-2018

#### GRANTS:

	2015-16	2016-17	2017-18
<b>New grants and contracts #:</b>	35	33	33
<b>New grants and contracts \$:</b>	\$1, 570, 627	\$2,954,702	\$1,423,578
<b>Continuing grants and contracts #:</b>	10	25	28
<b>Continuing grants and contracts \$:</b>	\$758,250	\$1,899,413	\$2,320,964.85

#### PUBLICATIONS:

	2015-16	2016-17	2017-18
<b>Authored or co-authored peer-reviewed articles</b>	41	30	38
<b>Articles submitted or under review</b>	Did not gather data on this criterion at the time	Did not gather data on this criterion at the time	19

#### CURRENT GRAD STUDENTS & POST DOCS:

	2015-16	2016-17	2017-18
<b>Current Grad Students</b>	Did not gather data on this criterion at the time	44 Masters 45 PhDs	38 Masters 46 PhDs
<b>Current Post-Docs</b>	Did not gather data on this criterion at the time	0	0
<b>Graduated Students</b>		13 Masters 6 PhDs	12 Masters 4 PhDs



# ICER ANNUAL REPORT 2017-2018

## Activities and projects

There has been substantial activity in and around ICER throughout the 2017-2018 academic year. We have organized, hosted, sponsored and supported many well attended events. We have held these events in the Institute, in other meeting places throughout the university, as well as off campus. We have organized and delivered events both independently, as well as in collaboration with ICER members, other research institutes on campus and academic departments.

### VISIONING

This past year we held three events with the ICER membership in order to co-create a vision for 2018-2021.



From February to June 2018, we have talked to students, faculty, staff and held two workshops on campus. We have solicited individual responses from researchers that could not make these meetings. We have reached out to our community membership through an email poll and follow up telephone calls. Our conversations were based around three questions:

1. What do you think of/associate ICER with?
2. What has ICER done for you and /or your students and/or your organization?
3. What should ICER focus on during the next three years?

The first two questions are points of reflection for us to see if we've been on track with our activities, and if there are gaps we need to address. The final helped to craft the vision for the upcoming three years. These priorities will be identified in the *Goals for 2018-2019* section below.



## ICER ANNUAL REPORT 2017-2018

### PROJECTS

ICER has begun to successfully seek funding to support the undertaking of research and outreach activities that will leverage our membership and resources and be managed within the Institute.

#### **City of Kelowna Community Kitchen Project**

Public Health at Interior Health, Pathways Ability Society, the Seniors Outreach Services Society and the Bridge Youth and Family Services partnered with ICER to explore the development of a community kitchen for seniors, children, and people with diverse abilities in the Rutland community of Kelowna, BC. This project aligned with the City of Kelowna's Community for All Healthy City Strategy. The project involved the participation of UBC Okanagan undergraduate students.

#### **City of Kelowna Reconciliation Training Project**

On January 30, 2017, Kelowna City Council supported a proposal for city staff to work with the En'owkin Centre and the Institute for Community Engaged Research at the University of British Columbia Okanagan to develop a framework and educational resources to guide the City of Kelowna's approach to reconciliation. ICER representatives (Jeannette Armstrong, and Jon Corbett) and the En'owkin Centre (Lauren Terbasket, Anna Tonasket) delivered three training workshops attended by approximately 80 City staff between November 2017 and June 2018. This project created 1 RA position and was facilitated by 1 current and 2 former Syilx graduate students.

#### **Community University Portal Project**

ICER, in partnership with the Regional Socio-Economic Development Institute of Canada (RSEDIC) and the UBC Okanagan Innovation Library is developing a Community-University portal to provide a virtual community entry point with the purpose of supporting collaboration. The portal will be an interface between the University and the community that will allow for two-way interaction. Community members and organizations will use the portal like a virtual library service desk, posing questions and problems. Some of these questions may lead to new research relationships, while some may support experiential learning opportunities. The collaborations and partnerships that result from the portal will provide unique opportunities for both community-engaged research and transformative student learning for faculty and students. We struck an advisory committee in May 2017 and held the first planning meeting in June 2017. The workshop was attended by 18 community and university members.



# ICER ANNUAL REPORT 2017-2018

## SPEAKER SERIES, CONFERENCES, SYMPOSIA AND EVENTS

In 2017-2018, ICER has organized, supported, hosted and sponsored many community-oriented lectures, talks, and workshops.

### ‘Starting a Conversation’ Speaker Series

Increasingly UBC Okanagan is inviting distinguished speakers to our campus to share their research. This is greatly enriching the research ethos on our campus. However, often these talks are formal in their nature and delivery, and there is little opportunity for graduate students and faculty members to engage in a dialogue with these visitors. The Starting a Conversation series is an opportunity for ICER members and affiliates to share their research ideas, methodologies, questions or findings with an interested audience of students, peers and community members in a relaxed, collegial, atmosphere.

In 2017-2018 ICER hosted eight speakers as a part of the series. Each was held in the institute and well attended by over 55 students, staff, faculty and community members.





## ICER ANNUAL REPORT 2017-2018

<b>Starting a Conversation Series</b>			
<b>Date</b>	<b>Speaker</b>	<b>Information</b>	<b>Attend</b>
<b>April 26</b>	Evelyn Steinhauer Faculty of Education, University of Alberta	Parental School Choice in First Nations Communities: Is There Really A Choice? Parental school choice on First Nations reserves to send their children to off-reserve or on-reserve.	12
<b>September 19</b>	David Lacho UBC O MA graduate student and ICER scholarship winner	Collaborative Approaches in Augmented Reality: A Secwepemctsin App Rooted in Splatstin Cultural Values	18
<b>October 19</b>	Aaron Derickson UBC O MA graduate student and ICER scholarship winner	Syilx-Strong Consulting Kw'ukw'u kwac' "Together We're Strong"	6
<b>November 14</b>	Donna Kozak UBC O PhD graduate student and ICER scholarship winner	The making of <i>communitas</i> : Parents and teachers connecting in liminal spaces through story, dialogue, and their literacies of knowing	12
<b>January 25</b>	Curtis Ogden Senior Associate, Interaction Institute for Social Change, Boston, Massachusetts	Building Collaborative Networks for Social Change: Focusing on Power and Equity Grounding in Love.	14
<b>March 13</b>	Marlon Hernandez Community Activist and GM of ACODJAR Credit Union; Founder of the School of Arts of San Sebastian and the Douglas Antonio Flores School of Music	Community organizing and experiences from El Salvador.	7
<b>March 19</b>	Paula Migliardi	HIV Stigma for African immigrant women in Winnipeg: Challenges and Possibilities of CBR	8



## ICER ANNUAL REPORT 2017-2018

<b>March 20</b>	Dr. Robert Lorway Centre for Global Public Health, University of Manitoba	The Politics and Problematics of “Community Participation” in Global Health Research	9
<b>April 7</b>	Graduate Student Symposium	“Our stories and intersections of situated knowledges in interdisciplinary studies’ research”	30
		<b>Total=</b>	<b>116+</b>

### Other events

<b>Co-hosted events</b>			
<b>Date</b>	<b>Title</b>	<b>Information</b>	<b>Attend</b>
<b>Decemb’r 7</b>	Collaborative UBC – Syilx Eco- systems Research Conversation	Co-Chairs: Dr. Jeannette Armstrong and Dr. Mike Evans Co-Hosts: Okanagan Institute for Biodiversity, Resilience, and Ecosystem Services (BRAES);	25-30
<b>January 27</b>	Growing the Local Food Economy Forum	Forum organizer: Mary Stockdale (ICER member) and Eva-Lena Lang (ICER graduate student, Facilitator: Jon Corbett Co-hosts: Okanagan College, Regional District of North Okanagan, NSERC	85+
<b>February 7</b>	Panel Discussion on Local Innovations in Housing and Homelessness, Innovation Centre, Kelowna.	Planning Committee: Kerry Rempel - iSearch Kelowna (ICER project); Ken Chau, - Happipad/UBCO; Shelley Cook -iSearchKelowna (ICER project).	80
<b>March 15</b>	Community, Culture and Global Studies Speaker’s Series,	Panel discussion featuring: Dr. Brigitte Le Normand, (UBCO); Dr. Mike Evans, (UBCO); Dr. Michelle Daveluy (Laval); Dr. Renee Sieber (McGill)	40
<b>Feminist Research Series: Organized by Dr. Ilya Parkins, Gender &amp; Women’s Studies; hosted by ICER</b>			
<b>September 27</b>	Dr. Ilya Parkins	Boudoir Photography: Emergent Ethics in the Neoliberal Feminine	11
<b>October 24</b>	Dr. Wendy Peters, Nipissing University	‘Post-‘Politics in Critical Media Studies	13



## ICER ANNUAL REPORT 2017-2018

<b>November 21</b>	Dr. Stephanie Hobbis, Anthropology	Beautification for Development: The Changing Faces of Power in (Urban Melanesia)	5
<b>February 19</b>	Dr. Fiona Green, University of Winnipeg	Feminist Pedagogies in the women's and Gender Studies Classroom:	4
<b>March 13</b>	Dr. Sue Frohlick, Gender and Women's Studies/Anthropology	Soundscapes from the Edges of a (Feminist) Field	15
<b>Barber School Tea Breaks</b>			
<b>November 21</b>			5
<b>January 15</b>			4
<b>Feb. 6</b>			5
<b>March 16</b>			7
<b>Anthropology Grad Student's Brown Bag Talk Series</b>			
<b>October 26</b>	Ricki-Lynn Achilles	UBC Fluid surveys tool	8
<b>November 22</b>	David Lacho	Losing a Citation is not a Lost Cause: Workshop on using simple computer code to find and keep track of your references	4
<b>January 23</b>	Lauren Arnold		10
<b>Visiting Scholars Talks:</b>			
<b>July 12</b>	Dr. Anders Lund Hansen Dept. of Human Geography, Lund University, Sweden	The Housing Question Revisited	
<b>July 13</b>	Dr. Louise Fabian School of Culture and Society University of Aarhus, Denmark	The Spatial Turn: Thinking, doing and controlling space – anti mafia activism and participatory planning	

Additional event details:

### **Collaborative UBC-Syilx Eco-systems Research Conversation**

December 7, 2017. Attended by 25-30 people. Co-hosted with BRAES and Co-chaired by Dr. Jeannette Armstrong and Dr. Mike Evans. The event encouraged a discussion to explore possible collaborations between UBC Okanagan Researchers and Syilx communities around ecosystem



## ICER ANNUAL REPORT 2017-2018

related research. The discussion was a broad-based discussion involving multiple disciplines and perspectives. This was an initial conversation, and we hope, the first of many.

### **The Community Culture and Global Studies Graduate Brown Bag Speakers Series**

In 2017-2018, ICER continued to host the Community, Culture and Global Studies Graduate Brown Bag Speakers Series. These events are designed to be cohort building for CCGS and associated graduate students from throughout the UBC Okanagan campus. Students shared their research with each other and provided feedback on presentations. The events are also an opportunity to check in with other grad students, socialize, and build community.



The CCGS Graduate Brown Bag Speakers Series: Photo C. Schreyer, 2017

### **Gender and Women's Studies Speaker Series**

ICER has hosted the Gender and Women's Studies Feminist Research Speaker Series. Five events were held in the Institute from September to March and were attended by 43 people.

### **SCHOLARSHIP PROGRAM**

In 2017-18 ICER continued its scholarship initiative. We awarded three \$1,000 scholarships to students involved in community engaged research. The scholarships are available to current UBC Okanagan graduate, or in exceptional circumstances, undergraduate students.



## ICER ANNUAL REPORT 2017-2018

The recipients should be actively involved in community engaged research projects or activities, and have a community partner. The purpose of the scholarship is to support students with their research and their efforts to build closer ties with the community.

The June 2018 AGM, the ICER membership agreed to create a scholarship or Community Partner – in-residence opportunity. We look forward to operationalizing this idea in the coming year.

### ICER NEWSLETTER

In 2017-18 we continued to produce a monthly newsletter to reach out to our membership (community members, faculty, graduate students and staff). The newsletter highlights research being undertaken by our membership; provides information about upcoming events on campus and in the community, as well as potential funding opportunities.



## ICER ANNUAL REPORT 2017-2018

### Community Outreach and Communications

ICER exists to enhance university and community engagement. Partnerships include activities such as joint research projects, funding agreements, student supervision, and knowledge exchange.

#### COMMUNITY OUTREACH

We have been actively collaborating with the Centre for Inclusion, The Okanagan Institute for Biodiversity, Resilience, and Ecosystem Services (BRAES) & Citizenship and the Regional Socio-Economic Development Institute of Canada (RSEDIC) inside the UBC System. In addition, we have collaborated with numerous research partners in primary research and knowledge translation activities, including: the En'owkin Centre, Kelowna Community Resources (Okanagan Refugee Geolive Map); Community Futures Revelstoke; Central Okanagan Foundation; Mitacs; Okanagan College: United Way; Okanagan Nation Alliance; South Okanagan Immigrant and Community Services; Cool Arts Society to mention a few.

We also recognize that in the upcoming year (2017-2018) we will need to invest substantial energy into further reaching out to community partners as well as other organizations in the community. We hope that this will be partially achieved using the Community Research Portal, however, we will also need to focus on marketing and promoting the Institute in novel settings.

#### COMMUNICATIONS

ICER has had significant coverage in the news, radio and television media this past year. Highlights include coverage in the Globe and Mail newspaper, CBC radio and Global TV to name a few.



# ICER ANNUAL REPORT 2017-2018

## Goals for 2018-2021

In the upcoming three years, ICER's strategic directions and goals have been defined through the visioning process recently completed by the membership. They are as follows:

### FACILITATE RELATIONSHIPS AND DEVELOP AN OUTREACH STRATEGY TO PROMOTE ICER THROUGHOUT THE UNIVERSITY, THE OKANAGAN REGION AND BEYOND

We recognize the continuing need to increase ICER's visibility off campus and further consolidate our relationships with existing community partners, as well as to develop new relevant relationships. We hope to achieve this specifically through:

- Dedicating staff time to relationship building and strategy development,
- Promoting the Institute as a connector and nexus for researchers to meet people outside of their discipline who hold shared interests in community engaged research and social justice,
- Increasing the visibility of, and access to, the ICER space for community partners,
- Implementing a 'community member in residence' program to bring community onto campus,
- Supporting and facilitating research projects articulated and identified community partners,
- Including the community more effectively in ICER events (holding more events in downtown Kelowna), and
- Exploring the international dimension of ICER.

### IMPLEMENT AND PROMOTE USE OF THE COMMUNITY UNIVERSITY HUB

To support the need for facilitating and supporting research relationships between the community and researchers on campus through the community/university research portal project.

- Ensure that both university and community stakeholders are involved in the design, outreach and use of the CUHub,
- Support the mutual creation of research projects.

### CREATE AND PROMOTE INNOVATIVE AND ENGAGING WAYS OF MAKING RESEARCH RESULTS ACCESSIBLE TO COMMUNITY

We recognize the need for innovative and intentional exchanges between ICER members. To achieve this, we will:



## ICER ANNUAL REPORT 2017-2018

- Support the adoption and creation of innovative and non-traditional knowledge mobilization strategies, including the use of multimedia, plays, cartoons and games,
- Create opportunities and support activities that enable dialogue and exchange, and
- Return results back to community partners and vice versa through community activities and events.

### DEVELOP TIES WITH STUDENT BODY

The creation of the new Interdisciplinary Graduate Study theme on Community Engagement, Social Change and Equity (CESCE) presents new opportunities for ICER. Specifically, the Institute will:

- Provide a research hub for graduate students in the CESCE theme to develop and share their research methods and results,
- Develop formal linkages with undergraduate curricula and research projects through initiatives such as the Valley Studio program in the Provost's office, which aim to engage groups of students in community engaged research projects, and
- Explore, facilitate and partner with scholarship providers and existing internship programs in the community to support this type of research.

### CONTINUE TO IMPROVE OUR THEORY AND PRACTICE

We will continue to pursue excellence and training in Community Engaged Research and growing the Institute to include, represent and support researchers working both within and outside our field of research. To achieve this, we will:

- Develop and broaden communication channels and connections across faculties & staff related to ongoing projects with the intent of becoming more integrated and less siloed,
- Facilitate the assembling of research teams that are cross faculty and discipline,
- Support the sharing of research stories from this cross faculty and disciplinary research teams,
- Developing a training of trainers' program to strengthen best practices in Community Engaged Research methods,
- Carry on with the existing speaker series and support for symposia, conferences and other events, and
- Continue to support existing and ongoing initiatives within the university, including the Community Service Learning program and the Community Based Research committee.



## ICER ANNUAL REPORT 2017-2018

### Contact Information

For general information or inquiries about ICER, please visit our website at: <http://icer.ok.ubc.ca/> or contact:

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Director, The Institute for Community Engaged Research

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**Joanne Carey, MA**

Coordinator, The Institute for Community Engaged Research

*(in the office, Tuesdays & Thursdays)*

Tel: 250-807-9667

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INSTITUTE FOR  
COMMUNITY  
ENGAGED RESEARCH



# ICER ANNUAL REPORT 2017-2018

## Appendix A: ICER Membership

### Full Members:

1. Luis Aguiar
2. Jeannette Armstrong
3. Lawrence Berg
4. Michael M. Burgess
5. Shirley Chau
6. John Corbett
7. Aleksandra Dulic
8. Michael Evans
9. Stephen Foster
10. Judy Gillespie
11. John Graham
12. Rachelle Hole
13. Susan Holtzman
14. John Janmaat
15. Ruthann Lee
16. Virginie Magnat
17. Ashok Mathur
18. Colin Reid
19. Leyton Schnellert
20. Christine Schreyer
21. Jessica Stites Mor
22. John Wagner
23. Kenneth Carlaw
24. Sabre Cherkowski
25. Sue Frohlick
26. Allison Hargreaves
27. Margaret Macintyre Latta
28. Ilya Parkins
29. Mohsen Javdani
30. David Jefferess
31. Cynthia Mathieson
32. Ross Hickey
33. Bonar Buffam



# ICER ANNUAL REPORT 2017-2018

## Associate Members

1. Ayumi Goto
2. Pamela Richardson
3. Mary Stockdale
4. Constance Crompton
5. Mary Butterworth
6. Sandra Kochan\*
7. Heather Deegan
8. Jill Worboys\*
9. Keren Lehenbauer\*

\* Awaiting full membership during next AGM

\*\* Became an associate member in June 2018

## Community Partners

1. Alternator Centre for Contemporary Art
2. Canadian Mental Health Association
3. Central Okanagan Food Policy Council
4. City of Vernon
5. Community Service Learning Program (UBC Okanagan)
6. Community Engagement Strategist (UBC Okanagan)
7. Disability Resources Centre (UBC Okanagan)
8. En'owkin Centre
9. Independent Living Vernon
10. Interior Health
11. Inn From the Cold
12. Kelowna Community Resources
13. Living Positive Resources Center
14. Okanagan Fruit Tree Project
15. Okanagan Nation Alliance
16. Pathways Society
17. School District 10
18. School District 23
19. School District 67
20. School District 74



## ICER ANNUAL REPORT 2017-2018

21. School District 83
22. South Okanagan Immigrant Community Services (SOICS)
23. UBC Okanagan Equity and Inclusion
24. Vernon Community School
25. Project Literacy

### **International / National Collaborating Centers and Institutes**

1. Centre for Inclusion and Citizenship, UBC
2. CRUSH – Critcha Urban Sustainability HUB, Lund University Sweden
3. Department of Curriculum and Instruction, Faculty of Education (UVIC)
4. Faculty of Education (UBC Vancouver)
5. Icelandic Tourism Research Center (University of Akureiri & University of Iceland)
6. SPaCE – Sustainability, Partnerships and Community Engagement (Southern Cross University)
7. Wageningen University and Research Centre, The Netherlands





THE UNIVERSITY OF BRITISH COLUMBIA

Institute for Healthy Living and Chronic Disease Prevention

GENERATING INNOVATIVE SOLUTIONS  
TO SUPPORT HEALTHY LIVING

## Annual Report 2017 - 2018

March 31, 2018

Institute for Healthy Living and Chronic Disease Prevention



Institute for Healthy Living and  
Chronic Disease Prevention

PARTNERS IN RESEARCH FOR BETTER HEALTH





**Institute for Healthy Living and  
Chronic Disease Prevention**  
PARTNERS IN RESEARCH FOR BETTER HEALTH

**Institute for Healthy Living and Chronic Disease Prevention**

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**THE UNIVERSITY  
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## Our Vision

The Institute for Healthy Living and Chronic Disease Prevention is an innovative and collaborative research centre that places UBC Okanagan in the forefront of community-based health promoting research through advancing research methods, building research capacity and fostering the use of knowledge in ways that benefit individuals, families and communities, and reduce the burden of chronic disease.

## Our Mission

The mission of the Institute for Healthy Living and Chronic Disease Prevention is to create and use new knowledge to enhance healthy living and chronic disease prevention through the development of interdisciplinary and community-based collaborations.

**In 2017-2018 over 2320 people attended our knowledge exchange events.**



## EXECUTIVE SUMMARY

The Institute for Healthy Living and Chronic Disease Prevention (IHLCDP), now in its tenth year, has continued to expand its activities to support the growth and impact of health research through new research initiatives, community partnerships, and innovative knowledge products. Over the past year, our IHLCDP Associates have obtained over \$3.4 million dollars in external research funding, published over 120 articles in leading peer-reviewed journals, and received career awards as well as awards for their research achievements and knowledge projects. In addition, IHLCDP Associates have been actively involved in establishing research clusters on our campus. The outstanding research of our IHLCDP Associates has been frequently featured on the UBCO website and in the media.

Other achievements during the past year include the following:

- Our researchers were provided with expanded opportunities for knowledge exchange and community engagement with 44 IHLCDP hosted or co-hosted events, drawing an attendance of 2300 people.
- A new IHLCDP website was developed to profile the emergence of research clusters, new partnerships (e.g., SMP Chronic Disease Prevention Program; Work Wellness and Disability Prevention Institute; First Nations Health Authority), and featured research.
- The Institute led UBCO's involvement with Interior Health and other stakeholders in continuing to build the Regional Alliance for Rural Health to support action-oriented, community-engaged research collaborations that strengthen health and wellbeing in rural communities and enrich educational programs.
- Through our Campus Health VOICE project, we have engaged faculty and students in research and action to promote wellbeing on campus, and participated on the UBC Wellbeing Steering Committee and the Wellbeing at UBC Okanagan Advisory Committee.
- Research teams have benefits from consultations and support with development and implementation of knowledge exchange activities and partnerships.
- Research training opportunities have been provided for undergraduate and graduate students.



## INSTITUTE OPERATIONS

### IHLCDP Advisory Committee

The IHLCDP Advisory Committee for 2017-2018 was comprised of the following members:

Betty Brown	Community Research: Lead, Interior Health Professional Practice Office – Research Department
John Graham	Professor and Director, School of Social Work, Faculty of Health and Social Development, UBC Okanagan
Linda Hatt	Associate Professor, Irving K Barber School of Arts and Science, UBC Okanagan
Tracey Hawthorn	Wellbeing Coordinator, UBC Okanagan
Jennifer Jakobi	Associate Professor, School of Health and Exercise Sciences, Faculty of Health and Social Development, UBC Okanagan
Charlotte Jones	Southern Medical Program, Faculty of Medicine, UBC Okanagan
Glenn McRae	CNO and Professional Practice Lead, Interior Health
Roger Parsonage	Corporate Director, Population Health, Interior Health
Paul van Donkelaar	Associate Vice-Principal Research, Office of Research Services; Professor, School of Health and Exercise Sciences, Faculty of Health and Social Development, UBC Okanagan
Carole Robinson	Professor, School of Nursing, Faculty of Health and Social Development, UBC Okanagan (retired in December 2017)

The Advisory Committee met three times during the year.

### Staff and Administration

#### Institute Director

Joan L Bottorff, Professor,  
School of Nursing, Faculty of Health and Social Development, UBC Okanagan

#### Institute Administrative Support

Jacquetta Benard

#### Research Support

Anne Huisken, Research Assistant  
Gayl Sarbit, Knowledge Broker

Janna Olynick, Research Assistant  
Cherisse Seaton, Research Coordinator

#### Campus Health Project

Casey Hamilton, Campus Health Specialist

Chelsey Hartwig, Campus Health Specialist

#### Wellbeing Scholar

Keskine Poku, Graduate student

#### Work Study Research Assistants

Alanna Baiton, Undergraduate student  
Angela Foster, Undergraduate student  
Philip Jaling, Undergraduate student  
Tyler Kopp, Undergraduate student  
Kyle Potter, Undergraduate student

Mariah Brown, Undergraduate student  
Milan Hecimovic, Undergraduate student  
Larissa Just, Undergraduate student  
Alana Perusse, Undergraduate student  
Dylan Wall, Undergraduate student



## IHLCDP Associate Membership

The IHLCDP continues to welcome associates from the community and academia in its research activities. Currently the Institute has 67 associates. See Appendix B for a complete list.

## Space / Facilities

The Institute for Healthy Living and Chronic Disease Prevention is located in ARTS 223.

Faculty Associates have labs in various locations on campus.

# ACADEMIC MEASURES

## Funding to support research

UBCO Faculty IHLCDP Associates received over \$3.4 million in external funding during 2017-2018 (see Table 1). This represents an increase of over \$1 million dollars in external funding over the previous year. Although the largest source of funding was from the Tri-council granting programs (CIHR, SSHRC and NSERC), this amount was nearly matched by external funding from a wide range of regional, provincial and national funding sources. Funding to establish several new centres to support the development of research programs was a significant achievement as well as the number of career and fellowship awards. See Appendix C for list of external research funding.

**Table 1: UBCO Faculty IHLCDP Associate Funding 2017-2018\***

Type	Amount
Tri-council funding (CIHR, SSHRC, NSERC)	\$1,106,525
MSFHR	\$354,587
CFI/BCKDF	\$344,520
CRC Program	\$100,000
Other External funding	\$1,053,254
UBC Internal funding	\$456,014
<b>TOTAL Funding</b>	<b>\$3,414,900</b>

\* Based on data provided from the VPR UBCO. Only includes grants held at UBC.

This does not include funding where IHLCDP Associates are co-investigators on grants held at other universities.

## Publications

Faculty IHLCDP Associates published 123 articles in peer reviewed journals between April 2017 and March 2018. See Appendix D for list of publications.





# IHLCDP ACTIVITIES AND PROJECTS

## New Research Clusters

During the past year, our IHLCDP Associates have been involved in developing research clusters that are directly related to the focus of the Institute. This development has been supported by UBC Okanagan's new strategic directions for research, the Eminence competition established through the Office of the Vice-Principal Research, and growing research programs.

### Research Cluster in Community Health

This research cluster, supported by funding from the UBCO Eminence Program, aims to build a framework for community-engaged health research and knowledge translation. This interdisciplinary team with researchers from the Faculty of Health and Social Development, Irving K. Barber School of Arts and Sciences, Faculty of Education and Faculty of Medicine will design, implement and evaluate interventions that address three community-identified health priorities: mental health and aging, obesity and diabetes, and aboriginal and rural health. Using systematic, evidence-based, and community-engaged processes, the team will help guide current and future UBC Okanagan researchers in undertaking meaningful community health research and knowledge translation activities.

IHLCDP Associates participating in this cluster include: Dr. Mary Jung (co-lead), and Drs. Susan Holtzman, Charlotte Jones, Donna Kurtz, Jonathan Little, and Kathy Rush (co-investigators).

### Research Cluster in Healthy and Successful Aging

The IHLCDP is working with Dr. Jennifer Jakobi and other IHLCDP associates to develop a cross-campus research cluster to advance knowledge to inform the design and evaluation of tailored approaches for healthy and successful adult aging. Supporting collaboration among researchers on both UBC campuses and established community and government partners, this cluster will focus on advancing existing programs of research that address the social, psychological, physiological and environmental domains of aging. Since aging is profoundly heterogeneous, research activities will engage diverse adult populations as well as those living with chronic illness in order to inform tailored interventions and approaches that strengthen resilience, support self-management, and build social support for men and women's healthy and successful aging.

This emerging research cluster is supported by other IHLCDP activities including the Embrace Aging initiative held each year in collaboration with Interior Health and Interior Savings Credit Union. Embrace Aging has grown from four to over 30 events in the last five years, providing a strong platform for knowledge exchange and continuing to build community-based research partnerships.





## New Featured Research Programs and Activities

### Chronic Disease Prevention Program

The Southern Medical Program (SMP) established the Chronic Disease Prevention Program with the appointment of Dr. Kathleen Martin Ginis as Director and the Inaugural Reichwald Family SMP Chair in Preventive Medicine in October 2017. The Chronic Disease Prevention Program will engage researchers from both Okanagan and Vancouver campuses, and Interior Health to support discoveries and knowledge translation in areas of physical activity and nutrition/healthy eating, and diabetes, cardiovascular disease, neurotrauma and neurodegenerative diseases, and implementing those findings into the community. This newly established program will provide new opportunities for research collaborations for our IHLCDP Associates. The Chronic Disease Prevention Program and IHLCDP will collaborate to launch a new seminar series beginning in the fall of 2018.

### Developing Indigenous Pathways for Diabetes and Obesity Prevention and Management

IHLCDP Associates **Dr. Donna Kurtz, Ms. Leslie Bryant, and Dr. Charlotte Jones** recently received funding from CIHR to work with six BC Interior Friendship and Métis Centres to blend traditional and western knowledge to optimized health and health equity in holistic, patient-centred diabetes and obesity care. This four year community-led study is guided by local governance and ownership, values and customs, and will enable full community involvement in all aspects of study. The team will co-develop pathway tools and frameworks for culturally safe, equitable, strength-based, site-specific healthcare policies, research, and practice for communities of similar size, geographic and cultural distinctness, nationally and internationally.

The research team also includes IHLCDP Associates Dr. Peter J Hutchinson, Dr. Mary E Jung, and Dr. Jonathan P Little as well as Dr. Alexandra King, Dr. Malcolm King, Dr. Jonathan M McGavock, Dr. Mary Ann Murphy, Dr. Julianne C Barry, and Ms. Danielle M Wilson.

## Featured IHLCDP Projects

### Campus Health Research Supports Wellbeing at UBC

- **Mental Wellness on Campus:** VOICE 4 team of students, faculty and staff continued to gather views on system factors influencing mental wellness at UBCO using a community-based participatory action research approach. During the summer of 2017 data gathered from over 4,000 students, staff and faculty were analyzed, infographics prepared to highlight main findings, and presentations were made to various groups on campus. Action groups have been formed to develop strategies to address system level factors that negatively influence student mental wellness. The VOICE 4 research activities are supported by Campus Health, in addition to funding from the UBCO Work Study and the UBC Wellbeing Scholar Programs. The VOICE team is also supported by a VOICE Advisory Committee comprised of a wide range of faculty, staff and students.
- **Increasing Physical Activity and Reducing Sedentary Behaviour:** A pilot study was completed to evaluate the use of two active study





stations placed in the UBCO Library to promote physical activity while studying. School of Health and Exercise Sciences 4th year student, Amanda Seemann, supervised by Dr. Tanya Forneris (IHLCDP Associate), contributed to this work along with our VOICE students Kyle Potter and Tyler Kopp. The findings of this project have supported plans for creating an active study area in the new Teaching and Learning Centre to open in September 2018.

- Hilary Kopp, 4th year School of Health and Exercise Sciences student, completed her Independent Project in Human Kinetics while working closely with Campus Health Specialist, Casey Hamilton.
- Recreational Cannabis on Campus: The VOICE team are collaborating with IHLCDP Associate Dr. Zach Walsh on a CIHR funded project to describe student attitudes and practices related to recreational cannabis use on campus. A panel presentation entitled, Curious about Cannabis, was co-hosted on February 21, 2018 to begin to engage the campus community in a dialogue about the implications of the legalization of recreational cannabis for our campus.
- Tobacco Use on Campus: The Canadian Cancer Society reported in March 2018 that there are at least 26 universities and colleges in Canada with policies for a 100% smoke-free campus. This is a significant trend because smoking is the leading preventable cause of premature death and disease in Canada. The VOICE team, in collaboration with UBC Wellbeing, launched the first "One Day Stand" at UBC to raise awareness about the benefits of a smoke-free campus, presented a briefing note on smoke-free campuses for UBC Wellbeing Steering Committee and UBC's Executive Committee, and collaborated on a literature review on the topic to guide continuing discussions. The VOICE team have also begun to consult with campus stakeholders to gather perspectives about the potential for becoming a smoke-free campus.

## Regional Alliance for Rural Health

The Regional Alliance for Rural Health is a ten organization collaborative with representation from post-secondary institutions, health service providers and rural community representatives from the Interior region of south central BC. The IHLCDP Director is UBCO's lead and a member of the RARH steering committee. The Alliance facilitates sustainable partnerships to support wide engagement of citizens, patients and community partners from diverse rural and remote areas to ensure essential rural context considerations and perspectives inform and direct research priorities.

The Alliance is guided and directed by a Steering Committee which is comprised of one representative from each of the ten partner organizations. The organizations include six post-secondary institutions, the First Nations Health Authority (FNHA), Interior Health (IH) representatives (Research Department, Rural Hospital and Community Integrated Service administrators and Aboriginal health), and Board representatives from Southern Interior Local Government Association, and Association of Kootenay Boundary Local Government.

The 2nd organizational meeting of the Regional Alliance for Rural Health partners was held at the Nicola Valley Institute of Technology in Merritt on June 12, 2017. Over 25 participants from all ten organizations came together to jointly review and finalize Alliance core documents, to discuss future regional research projects and to strengthen relationships.

Six community consultations were convened by the Regional Alliance for Rural Health in the Interior Health region in the spring of 2018. The aim of the meetings was to engage community members in identifying opportunities for collaborating on rural health research. Funding for these events has been obtained from the UBC Engagement Partnership Recognition Fund, along with support for travel for Indigenous participants from the First Nations Health Authority.



## Dads in Gear Indigenous

Drawing on the success of the Dads in Gear program ([www.dadsingear.ok.ubc.ca](http://www.dadsingear.ok.ubc.ca)) and with funding from the First Nations Health Authority and Interior Health, a team that included IHLCDP Associates Drs. Joan Bottorff and Cristina Caperchione, UBC Professor Dr. John Oliffe, IHLCDP Knowledge Broker Dr. Gayl Sarbit, and community partners (IH: Jeff Conners, Danielle Wilson, and Dr. Anima Anand) gathered data to inform a cultural adaption of the Dads in Gear program for Indigenous fathers. The resulting program, Dads in Gear Indigenous, is the first of its kind for Indigenous men who want to be involved healthy and smoke free fathers (<https://www.dadsingearindigenous.ca>). In September 2017, 12 Indigenous men from across the province participated in the two day DIG facilitator training program. The FNHA will support trained facilitators to implement the program in BC communities.

As a result of the work completed by the Dads in Gear team, during the last year the following collaborations have resulted:

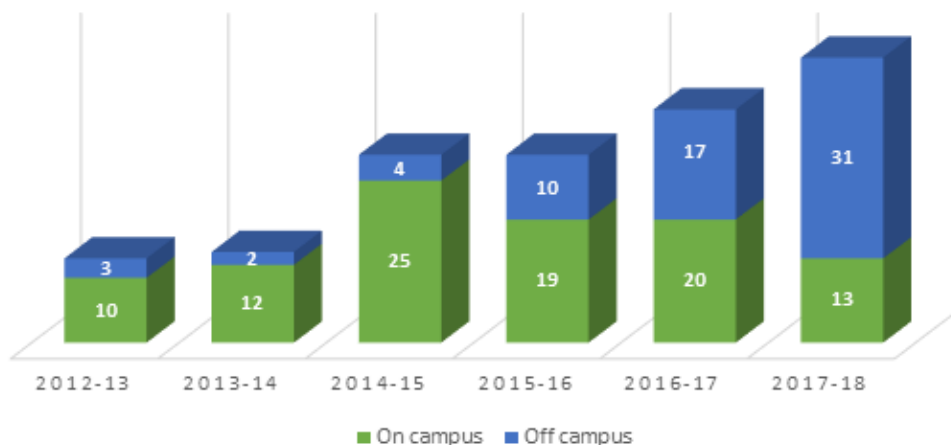
- The Central Okanagan Early Years Partnership contracted the DIG team to develop a resource for new fathers. The “Being a Dad” booklet is now available here: [www.coey.ca](http://www.coey.ca)
- Dr. Richard Fletcher, Director of the Family Resource Centre at the University of Newcastle, invited the DIG team to collaborate on his SMS4Dads program (<https://www.sms4dads.com/>). Text messages developed by the DIG team to motivate smoking cessation will be tested in the next phase of SMS4Dads.



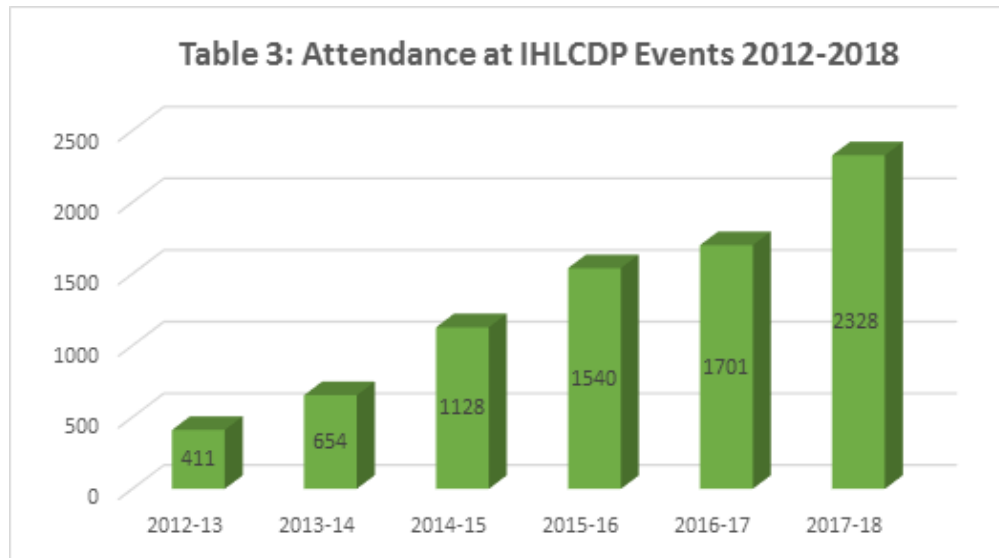
## Speaker Series

During the past year the IHLCDP has continued to expand its knowledge exchange activities through our webinars and other events. We have hosted or co-hosted 44 events, and increased the number of community-based events over the previous year (see Table 2). The range of topics and events has also grown (see Appendix A for a complete list) as well as the number of people attending our events either in person or by webinar (see Table 3). In collaboration with the SMP Chronic Disease Prevention program we will launch a new seminar series focusing on research related to chronic disease prevention.

**TABLE 2: NUMBER OF IHLCDP EVENTS 2012-2018**







## Conferences, Symposia, and Other Events

The IHLCDP was actively involved in the following events:

Invited Academic Co-sponsor and member of the conference planning committee for the ***Safe, Healthy, and Productive Workplaces: Learning from Research and Practice Conference*** hosted by the Work Wellness and Disability Prevention Institute. The conference was held on the UBC campus from June 1-3, 2017.

Co-host, ***Curious About Cannabis*** panel event, UBCO campus, February 21, 2018. Over 150 people joined this session in person or on webinar. The panel included UBCO undergraduate students and IHLCDP Associate **Dr. Zach Walsh**. A news advisory about the event appeared on the UBCO website: <https://news.ok.ubc.ca/2018/02/15/ubc-hosts-panel-discussion-about-legalization-of-marijuana/>

Partner, ***Research Symposium: Alternative Housing Models: Future of Kelowna***, March 27, 2018, UBCO co-chaired by IHLCDP Associates **Drs. Gordon Lovegrove** (School of Engineering) and **Eric Li** (Faculty of Management) as well as Brigitte Le Normand (Irving K. Barber School of Arts and Sciences). This Research Symposium brought together researchers and practitioners to discuss housing problems in the Okanagan valley and City of Kelowna, to share findings of related research and future research needs, and to facilitate ongoing networking and collaboration towards practical solutions to these problems. Housing problems are varied and complex, crossing many disciplines, with many related and confounding factors, and, thus require a multi-discipline approach to address. Factors discussed included, among others: affordability; supply; aging in place; loss of mobility; social isolation; mental illness.



# COMMUNITY OUTREACH AND COMMUNICATIONS

## Community Outreach Activities

The **5th Annual Okanagan Embrace Aging** month, co-hosted with Interior Health and Interior Savings Credit Union, included over 30 educational opportunities and events focusing on an expanded number of topics related to healthy aging throughout March 2018. This year we launched a new website for Embrace Aging ([www.okanaganembraceaging.com](http://www.okanaganembraceaging.com)), and events were held in Kelowna and West Kelowna as well as on the UBCO campus. Attendance over the month was 1836, an increase of 55% over the previous year.



The planning committee included: Corrine Johnson and Rod Rieu (Interior Savings Credit Union); Dr. Deanne Taylor, Ann Ungaro, and Kim Peake (Interior Health); Joyce Springate (community member); Alex Yacyshyn (UBCO graduate student), Lindsay Burton (Alumni and Research Assistant, UBCO), Dr. Colin Reid (School of Health and Exercise Sciences), and Dr. Joan Bottorff and Jacquetta Benard from the IHLCDP.

**Embrace Aging Welcomed New Partners:** Heart and Stroke Foundation, YMCA of Okanagan, West Kelowna Pickleball Club, Okanagan Regional Library, Baptist Housing, Arthritis Society, and AGF.

**UBC Thrive Week:** Our IHLCDP Associates, **Drs. Holtzman** and **Zach Walsh** participated in a panel to discuss current mental health and resilience research held on November 1, 2017 in the Rotary Centre for the Arts (for more information see: <https://news.ok.ubc.ca/2017/10/27/explore-ubc-okanagans-research-on-mental-health-resiliency/>). In addition, Campus Health VOICE teams participated in various activities on campus to promote mental health.

**Mini-Med 2017:** The focus of this year's Mini-Med series was child health. IHLCDP Associate, **Dr. Ali McManus**, was one of four speakers included in the event. Her talk was entitled: "*Please wait to be seated: Sedentary behavior and the importance of keeping children active.*" (<https://minimed.ok.ubc.ca/>)

## Other Outreach Activities by the Director

- UBC Representative, Interior Health Research Advisory Council
- UBCO Representative, Regional Alliance for Rural Health Steering Committee
- Invited member, Ad Hoc Committee on Future Cancer Prevention Research, Canadian Cancer Society, March 2018 - ongoing
- Invited participant, *The Future of Sex and Gender in Health Research*. CIHR Institute of Gender and Health Consultation Event, Montreal, QC, November 8-9, 2017.
- Invited participant, *CIHR Workshop on Health Research Needs and Priorities related to Cannabis Legalization and Regulation*, Ottawa, Ontario, September 18, 2017
- UBC Participant, *Stakeholder Consultation: Creating and Interior Academic Health Science Centre*, Kelowna, February 7, 2018.



## Selected Regional Talks by the Director

- Bottorff, J.L. (2018). *Healthy aging research at UBC Okanagan*. Invited presentation to the Lake Country Rotary Club, Kelowna, BC (March 8, 2018).
- Bottorff, J.L. (2017). *New directions in research for better health*. Invited presentation to the Morningside Rotary Club, Kelowna, BC (November 23, 2017).
- Brown, B., Bottorff, J.L., & Petrick, T. (2017). *Rural health in rural hands: Building partnerships with a Regional Alliance for Rural Health*. Invited presentation to the Interior Health Research Network, Kelowna (April 5, 2017).

## Communications

The work of our IHLCDP Associates has been featured throughout the year on the UBC Okanagan website:

**Dr. Barb Pesut:** *UBC researcher tackles the complexity of palliative care*, March 14, 2018. <https://news.ok.ubc.ca/2018/03/14/ubc-researcher-tackles-the-complexity-of-palliative-care/>

**Dr. Gareth Jones:** *Researchers want boomers to meet daily exercise requirements* by Patty Wellborn, February 28, 2018. <https://news.ok.ubc.ca/2018/02/28/researchers-want-boomers-to-meet-daily-exercise-requirements/>

**Dr. Johnathan Little:** *A ketone drink could help diabetics by lowering blood sugars* by Nathan Skolski, February 14, 2018. <https://news.ok.ubc.ca/2018/02/14/a-ketone-drink-could-help-diabetics-by-lowering-blood-sugar/>

**Dr. Eric Li:** *Healthy Living reaches out* by Maggie Rendulich, February 3, 2018. <https://news.ok.ubc.ca/management/2018/02/05/healthy-living-reaches-out/>

Graduate student Danika Quesnel (IHLCDP Associates on supervisory committee **Drs. Nelly Oelke, Sally Willis-Stewart** and **Christina Caperchione**): *Abrupt end to exercise not the answer when it comes to eating disorder treatment* by Nathan Skolski, January 10, 2018. <https://news.ok.ubc.ca/2018/01/10/abrupt-end-to-exercise-not-the-answer-when-it-comes-to-eating-disorder-treatment/>

**Dr. Zach Walsh:** *UBC prof points to a potential aid in combating the opioid crisis* by Nathan Skolski, December 19, 2017. <https://news.ok.ubc.ca/2017/12/19/ubc-prof-points-to-a-potential-aid-in-combating-the-opioid-crisis/>

**Dr. Heather Gainforth:** *People with Type 2 diabetes need more support, say researchers* by Patty Wellborn, December 19, 2017. <https://news.ok.ubc.ca/2017/12/19/people-with-type-2-diabetes-need-more-support-say-researchers/>

**Dr. Carole Robinson:** *Program may help those reluctant to engage in advance care planning* by Patty Wellborn, December 12, 2017. <https://news.ok.ubc.ca/2017/12/12/ubc-professor-tests-software-to-help-cancer-patients-have-the-tough-conversations/>

PhD student Maxine Crawford (supervised by **Dr. Mark Holder**): *Send the kids outside but let them take their devices with them* by Patty Wellborn, November 22, 2017. <https://news.ok.ubc.ca/2017/11/22/send-the-kids-outside-but-let-them-take-their-devices-with-them/>

**Dr. Jonathan Little:** *From 100 to zero in two weeks flat* by Nathan Skolski, November 15, 2017. <https://news.ok.ubc.ca/2017/11/15/from-100-to-zero-in-two-weeks-flat/>



**Dr. Mary Jung:** *UBC and YMCA partner to offer evidence-based health program to community* by Nathan Skolski, November 13, 2017. <https://news.ok.ubc.ca/2017/11/13/ubc-and-ymca-partner-to-offer-evidence-based-health-program-to-community/>

PhD Student Holli-Anne Passmore (supervised by **Dr. Mark Holder**): *Science confirms you should stop and smell the roses* by Patty Wellborn, November 2, 2017. <https://news.ok.ubc.ca/2017/11/02/science-confirms-you-should-stop-and-smell-the-roses/>

**Dr. Zach Walsh:** *Don't dispense with cannabis dispensaries, caution UBC researchers* by Patty Wellborn, October 12, 2017. <https://news.ok.ubc.ca/2017/10/12/dont-dispense-with-cannabis-dispensaries-caution-ubc-researchers/>

**Dr. Jonathan Little:** *Ketone nutritional supplements: Good or bad for athletic performance?* by Nathan Skolski, October 11, 2017. <https://news.ok.ubc.ca/2017/10/11/ketone-nutritional-supplements-good-or-bad-for-athletic-performance/>

**Dr. Susana Caxaj:** *Small towns need to do more to help immigrants feel they belong* by Patty Wellborn, September 19, 2017. <https://news.ok.ubc.ca/2017/09/19/small-towns-need-to-do-more-to-help-immigrants-feel-they-belong/>

**Dr. Brian Dalton:** *Big and strong may not last as long, according to UBC prof* by Nathan Skolski, August 23, 2017. <https://news.ok.ubc.ca/2017/08/23/big-and-strong-may-not-last-as-long-according-to-ubc-prof/>

**Dr. Cristina Caperchione:** *UBC Okanagan's HAT TRICK returns for round three* by Nathan Skolski, July 27, 2017. <https://news.ok.ubc.ca/2017/07/27/ubc-okanagans-hat-trick-returns-for-round-three/>

**Dr. Barb Pesut:** *Community health-based volunteer program spreads across Canada* by Patty Wellborn, June 15, 2017. <https://news.ok.ubc.ca/2017/06/15/community-health-based-volunteer-program-spreads-across-canada/>

**Dr. Susan Holtzman:** *Talk – don't text – in times of stress, says UBC research* by Patty Wellborn, May 15, 2017. <https://news.ok.ubc.ca/2017/05/15/talk-dont-text-in-times-of-stress-says-ubc-research/>

**Dr. Lesley Lutes:** *ENHANCE happiness and well-being study opens to new participants* by Patty Wellborn, May 15, 2017. <https://news.ok.ubc.ca/2017/05/15/enhance-happiness-and-well-being-study-opens-to-new-participants/>

**Dr. Sanjoy Ghosh:** *UBC researchers connect common fats to a lazy lifestyle and diabetes* by Patty Wellborn, April 12, 2017. <https://news.ok.ubc.ca/2017/04/12/ubc-researchers-connect-common-fats-to-a-lazy-lifestyle-and-diabetes/>





## News Release

- *UBC provides the secrets on how to tap into the fountain of youth* by Patty Wellborn, February 28, 2018. <https://news.ok.ubc.ca/2018/02/28/ubc-provides-the-secrets-on-how-to-tap-into-the-fountain-of-youth/>
- *UBC launches program to advance chronic disease research* by Patty Wellborn, October 19, 2017. <https://news.ok.ubc.ca/2017/10/19/ubc-launches-program-to-advance-chronic-disease-research/>
- *Student health and wellbeing focus of new UBC course (Dr. Sally Stewart)* by Nathan Skolski, July 31, 2017. <https://news.ok.ubc.ca/2017/07/31/student-health-and-wellbeing-focus-of-new-ubc-course/>

## UBCO TV

- **Dr. Barb Pesut:** 2018 Researcher of the Year, March 9, 2018  
<https://www.youtube.com/watch?v=twrS6EWKYKs>
- **Dr. Mary Jung:** Small steps for big changes October 24, 2017  
<https://www.youtube.com/watch?v=-y6WfVZaeto>
- **Chronic Disease Prevention Program:** October 18, 2017.  
[https://www.youtube.com/watch?v=Umkte27\\_sNg](https://www.youtube.com/watch?v=Umkte27_sNg)
- **Dr. Cristina Caperchione:** HAT TRICK program, July 25, 2017.  
<https://www.youtube.com/watch?v=KKpTBtiGqS8>

## Other Media

- **Twitter** (@ihlcdp): We tweet regularly to profile the research activities of our Associates and current projects as well as IHLCDP events. Our twitter account now has over 1500 followers.
- **Bottorff, J. L. & Seaton, C. L.** (Oct 3, 2017). *Friendly competition motivates men to get healthy on the job*. Article published on **The Conversation Canada**, an online independent source of news and views from the academic and research community (See: <https://theconversation.com/friendly-competition-motivates-men-to-get-healthy-on-the-job-83867>). At the end of March 2018, 1,462 reads, 16 tweets and 51 Facebook shares were recorded.
- **POWERPLAY** – A Men's Workplace Health Promotion Program, 2015 (for more information see: [www.harmonization.ok.ubc.ca](http://www.harmonization.ok.ubc.ca) ). POWERPLAY has been showcased on the Canada's Healthy Workplace month website in November 2017: <http://healthyworkplacemonth.ca/en/showcases> (click the name 'POWERPLAY' in the list to see information). Also awarded a Certificate of Merit and recognized in *CHWM Best Practices Collection* (with online profile of the program between January – December 2018)



## Awards

- **Dr. Barb Pesut** received the 2018 UBC Okanagan Researcher of the Year award.
- **Dr. Jonathan Little** was named a 2017 UBC Killam Research Fellow
- **Dr. Sanjoy Ghosh, Dr. Heather Gainforth, Dr. Jonathan Little, and Dr. Mary Jung** received MSFHR Scholar Awards
- **Dr. Kathy Rush** received the CRNBC Award of Excellence in Advancing Nursing Knowledge and Research.
- **Dr. Joan Bottorff** received the Canadian Association of Psychosocial (CAPO) Life Time Achievement Award
- **Dr. Claire Budgen** was recognised posthumously for her outstaying contributions as nurse leader in the CRNBC Memorial Book.

IHLCDP Associate **Dr. Cristina Caperchione** leads the HAT TRICK project focused on development and evaluation of a novel health promotion program for overweight and obese men.

The HAT TRICK program received several awards in the past year:

- HAT TRICK Playbook: Gold award in the 2017 Cancer Awareness Advertising Awards under the category of Patient Education. The Cancer Awareness Advertising Awards (CAA Awards) is an annual contest that recognizes excellence in cancer awareness marketing and advertising. The CAA Awards program is hosted by Marketing Healthcare Today magazine and Creative Images, Inc., which is an internationally recognized firm that has specialized in strategic healthcare marketing for more than 20 years (announced January, 2018).
- HAT TRICK Playbook: 2017 MarCom International Awards - Platinum Award, category Print Media – Print Creativity. Awarded by the Association of Marketing and Communication Professionals.  
<https://marcomawards.com/winners-gallery>
- HAT TRICK: Canadian Cancer Society, UBC, University of Glasgow, Athabasca University, and designs by Red Sand Creative. (2017). Hat Trick Playbook. Award of Distinction winner in the “Marketing/Promotion – Campaign - Total Campaign” category of the 23rd Annual Communicator Awards. See:  
<http://www.communicatorawards.com/winners/list/?event=1012&category=1915&award=9&p=5>
- HAT TRICK: Canadian Cancer Society, UBC, University of Glasgow, Athabasca University, and designs by Red Sand Creative. (2017). Hat Trick Playbook. Bronze Award winner in the “Public Relations Program/Event” category of the 23rd Annual Summit Creative Award.  
See: <http://summitawards.com/past-sca-awards-listings/> (Search UBC)





IHLCDP Director, **Dr. Joan Botorff** leads the Harmonization Cancer Prevention team. During the past year, the team's collaboration guide, a knowledge translation product, entitled: *Building bridges to collaborative success: An evidence-based, inter-agency primer for health promotion* received several awards. The guide is available from: <http://harmonization.ok.ubc.ca/wp-content/uploads/Final-PDF-Collaboration-Primer.pdf> (An online version of this knowledge translation product is available at: <http://harmonization.ok.ubc.ca/collaboration/> )

- **AVA Digital Awards.** Ava Digital Awards is an international competition that recognizes excellence by creative professionals responsible for the planning, concept, direction, design and production of digital communication (announced January 2018).
  - ◊ Harmonization Project Group: UBC, Athabasca University, Northern Health Authority, BC Cancer Agency, Canadian Cancer Society, and designs by PG Web Designs. (2017). Interactive collaboration primer website. Gold winner in the "Creativity (Web Design) – Website" category of the AVA Digital Awards. See: <https://enter.avaawards.com/entry/interactive-collaboration-primer-website/>
  - ◊ Harmonization Project Group: UBC, Athabasca University, Northern Health Authority, BC Cancer Agency, Canadian Cancer Society, and designs by PG Web Designs. (2017). Interactive collaboration primer website. Gold winner in the "Pro Bono" category of the AVA Digital Awards. See: <https://enter.avaawards.com/entry/interactive-collaboration-primer-website-2/> (click on "H" for Harmonization).
- Harmonization Project Group: Canadian Cancer Society, BC Cancer Agency, Northern Health Authority, UBC, Athabasca University, and designs by PG Web Designs. (2017). Interactive Collaboration Primer Website (<https://www.collaborationprimer.ca/>). Platinum winner in the "Interactive Capabilities" category of the dotCOMM Awards. See: <https://enter.dotcommawards.com/winners/#/platinum/2017>
- Harmonization Project Group: Canadian Cancer Society, BC Cancer Agency, Northern Health Authority, UBC, Athabasca University, and designs by PG Web Designs. (2017). Building bridges to collaborative success. Award of Distinction winner in the "Marketing/Promotion – Design Features-Overall Design" category of the 23rd Annual Communicator Awards. See: <http://www.communicatorawards.com/winners/list/?event=1012&category=1915&award=9&p=3> (search for Harmonization)
- Harmonization Project Group: Canadian Cancer Society, BC Cancer Agency, Northern Health Authority, UBC, Athabasca University, and designs by PG Web Designs. (2017). Building bridges to collaborative success. Gold winner in the "Other: Misc collateral, Special promo" category of the 34th Annual Healthcare Advertising Awards. See: <http://healthcare-advertising-awards.com/winners-list/winners-list-2017/> (search for Harmonization)
- Harmonization Project Group: Canadian Cancer Society, BC Cancer Agency, Northern Health Authority, UBC, Athabasca University, and designs by PG Web Designs. (2017). Building bridges to collaborative success. Platinum winner in the "Publications – Other – Primer" category of the Hermes Creative Awards. See: <https://enter.hermesawards.com/winners/#/platinum/2017>
- Harmonization Project Group: Canadian Cancer Society, BC Cancer Agency, Northern Health Authority, UBC, Athabasca University, and designs by PG Web Designs. (2017). Building bridges to collaborative success. Platinum winner in the "Pro Bono" category of the Hermes Creative Awards. See: <https://enter.hermesawards.com/winners/#/platinum/2017> (click on "H" for Harmonization Group)
- Harmonization Project Group: Canadian Cancer Society, BC Cancer Agency, Northern Health Authority, UBC, Athabasca University, and designs by PG Web Designs. (2016). Building Bridges to Collaborative success. Bronze winner in the "Publication/External" category of the 14th Annual Service Industry Advertising Awards.



## GOALS FOR NEXT ACADEMIC YEAR

1. Strengthen the ongoing development of research clusters related to the mandate of the IHLCDP by brokering inter-disciplinary and cross-campus partnerships among researchers and community stakeholders, enabling knowledge exchange activities, profiling achievements on the IHLCDP website, and fostering connections among research cluster teams.
2. Support the establishment of a research cluster in healthy living, wellness and aging.
3. Work collaboratively with cross-campus partners to establish a Campus Wellbeing research cluster to support the UBC Wellbeing strategy and meet goals related to wellbeing in UBC's new strategic plan.
4. Develop opportunities through the Regional Alliance for Rural Health for UBCO faculty and students to engage in collaborative, community-engaged action research with citizens and community partners in rural and remote areas to address community-identified challenges that influence health and wellbeing.
5. Expand efforts to communicate research findings of our IHLCDP Associations and their students, including the establishment of a new seminar series in collaboration with the SMP Chronic Disease Prevention Program.

## CONTACT INFORMATION

### Institute for Healthy Living and Chronic Disease Prevention

University of British Columbia Okanagan

1147 Research Road ART 223

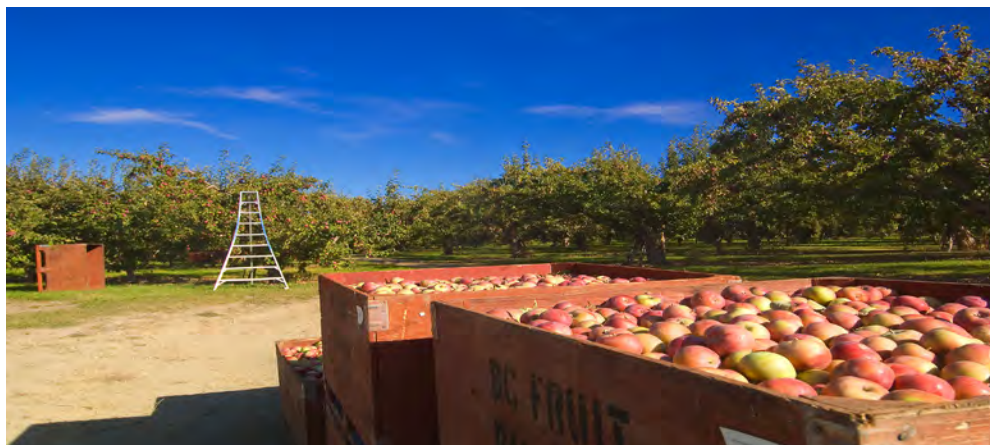
Kelowna BC V1V 1V7 CANADA

Phone: 250-807-8072

Email: [HealthyLiving.Research@ubc.ca](mailto:HealthyLiving.Research@ubc.ca)

Web: <http://ihlcdp.ok.ubc.ca>

Twitter: <http://twitter.com/ihlcdp>





## APPENDICES

### Appendix A IHLCDP Supporting Knowledge Exchange

#### IHLCDP PARTNERSHIP IN RESEARCH SERIES

*Walk and Talk for Life in your community? Using an online implementation toolkit*

Dr. Charlotte Jones, UBC Okanagan

Thursday, November 16, 2017

#### OTHER IHLCDP EVENTS

UBC Host site for BC Healthy Communities

*Move it!! Exploring active community innovations – a virtual forum*

Wednesday, May 17, 2017

A Visiting Scholar presentation

*Health coaching and eHealth Technology:  
Behaviour change and system transformation*

Dr. Harvey Skinner, York University

Monday, May 29, 2017

A Visiting Scholar presentation

*Objectively assessed activity patterns of cancer survivors: The wheels are  
turning but are we upside down?*

Dr. Jeff Vallance, Athabasca University

Thursday, August 3, 2017

A Visiting Scholar presentation

*Integrating physical activity into cancer care: moving ahead, sitting down, or  
standing still*

Dr. Catherine Sabiston, University of Toronto

Tuesday, October 3, 2017

Co-sponsored event

*Listening for direction: The development and optimization of workplace mental  
wellness programs for men*

Thursday, November 23, 2017

A Visiting Scholar presentation

*Move, eat, sleep for better health*

Dr. Mitch Duncan, University of Newcastle, Australia

Thursday, November 30, 2017

Work Wellness and Disability Prevention Institute

*Men's preferences for workplace health promotion programs and the  
effectiveness of tailored approaches*

Friday, February 9, 2018



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A Campus Community Event

*Curious about cannabis*

Ms. Daniella Mitchell, UBC Okanagan student

Ms. Janine Mintz, UBC Okanagan student

Dr. Ian Mitchell, UBC Vancouver

Dr. Zach Walsh, UBC Okanagan

Ms. Shelley Kayfish, UBC Okanagan

Mr. Michael Serebriakov, UBC Vancouver

Wednesday, February 21, 2018

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An Embrace Aging event
*MyHealthPortal: Electronic health records and you*

Mr. Levi Weir, Interior Health

Thursday, March 1, 2018

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An Embrace Aging event
*Scam protection: Knowledge is power*

Ms. Paula Naka, Interior Savings Credit Union

West Kelowna

Monday, March 5, 2018

Kelowna

Wednesday, March 7, 2018

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An Embrace Aging event
*Savvy Seniors – New communication technologies and you*

Facilitated by the Community Service Learning Program, UBC Okanagan

Monday, March 5, 2018

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An Embrace Aging event
*IGen by happipad: Inter-generational living opportunities to connect students and seniors*

Dr. Kenneth Chau, UBC Okanagan; Co-founder of happipad

Mr. Cailan Libby, Co-founder of happipad

Tuesday, March 6, 2018

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An Embrace Aging event
*Understanding arthritis*

Ms. Lynnea Westlind, The Arthritis Society

Tuesday, March 6, 2108

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Café Scientifique
*Sleepless nights? The science behind better sleep for healthy aging*

Dr. Wayne Lai, UBC Vancouver; KGH Sleep Lab, Kelowna

Dr. Teresa Liu-Ambrose, UBC Vancouver; Canada Research Chair, Physical Activity, Mobility, and Cognitive Health

Dr. Glen Foster, UBC Okanagan

Dr. Wendy Richardson, Patient Perspective; CPAP User

Thursday, March 8

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An Embrace Aging event
*Bits and Bytes – Technology fair for seniors*

Facilitated by the Okanagan Regional Library

Saturday, March 10, 2018

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An Embrace Aging event
*Mingle Mondays – YMCA Monthly social*

Kelowna Family YMCA

Monday, March 12, 2018

H2O Adventure &amp; Fitness Centre

Monday, March 19, 2018

Kelowna Downtown YMCA

Monday, March 26, 2018



An Embrace Aging event		
<i>Beyond kale: Reuniting your head and heart for health and wellness</i>		Monday, March 12, 2018
Ms. Shyloe Fayad, Plan for Joy		
An Embrace Aging event		
<i>Managing chronic pain – Arthritis Society</i>		Tuesday, March 13, 2018
Ms. Lynnea Westlind, The Arthritis Society		
An Embrace Aging event		
<i>The Patient Engagement in Research Project</i>		Wednesday, March 14, 2018
Dr. Karin Maiwald, Interior Health		
Ms. Marilyn Parker, Patient Perspective		
An Embrace Aging event		Kelowna
<i>Estate planning essentials: What you need to know</i>		Wednesday, March 14, 2018
Interior Savings Credit Union		West Kelowna
		Wednesday, March 21, 2018
An Embrace Aging event		
<i>Walk, Talk and Listen – a program for older adults with hearing loss: Does it work?</i>		Thursday, March 15, 2018
Dr. Charlotte Jones, UBC Okanagan		
Ms. Marie MacRae, Patient Perspective		
An Embrace Aging event		
<i>Indigenous mental wellness project</i>		Thursday, March 15, 2018
Dr. Nelly Oelke, UBC Okanagan		
Ms. Kaela Schill, University of Calgary		
An Embrace Aging event		
<i>Seniors health assessment – YMCA</i>		Friday, March 16, 2018
An Embrace Aging event		
<i>Co-housing: Intentional communities that address aging in place, social isolation, and affordable housing challenges</i>		Friday, March 16, 2018
Dr. Gordon Lovegrove, UBC Okanagan		
An Embrace Aging event		
<i>Use it or lose it: Three steps to maintain your mobility</i>		Monday, March 19, 2018
Facilitated by the Exercise is Medicine Club, School of Health and Exercise Sciences, UBC Okanagan		
An Embrace Aging event		Kamloops
<i>Alzheimer's in the 21<sup>st</sup> century</i>		Monday, March 19, 2018
Mr. Jay Ingram		Kelowna
		Tuesday, March 20, 2018
		Oliver
		Wednesday, March 21, 2018



An Embrace Aging event <i>Exercising control over arthritis – Arthritis Society</i> Ms. Lynnea Westlind, Arthritis Society	Tuesday, March 20, 2018
An Embrace Aging event <i>Transitions in care: Improving the outcome</i> Ms. Rachel Lewis, Baptist Housing	Thursday, March 22, 2018
An Embrace Aging event <i>Introduction to Pickleball</i> Facilitated by West Kelowna Pickleball Club	Saturday, March 24, 2018
An Embrace Aging event <i>PokemonGo</i> Ms. Alana Perusse Ms. Angie Foster	Saturday, March 24, 2018
An Embrace Aging event <i>Wise and Well – Mental Fitness</i> Mr. Aaryn Secker, CMHA Kelowna	Monday, March 26, 2018
An Embrace Aging events <i>Spinal arthritis – Arthritis Society</i> Mr. Ken Adams, Lighthouse Chiropractic Mr. Graham Jenkins, Lighthouse Chiropractic	Tuesday, March 27, 2018
An Embrace Aging event <i>Cyber security: Assessing and protecting your online security</i> Facilitated by Okanagan Regional Library	Thursday, March 29, 2018

### **CAMPUS-COMMUNITY PARTNERSHIPS FOR RURAL HEALTH**

in partnership with Interior Health Research Department

*Engaging stakeholders in co-creating sustainable communities: A study on rural communities in the BC Interior*

Dr. Eric Li, UBC Okanagan Ms. Betty Brown, Interior Health Mr. Tom Kadla, Village of Lumby	Thursday, May 4, 2017
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### **RESEARCH TO PRACTICE SERIES**

IHLCDP in partnership with North Okanagan Hospice Society

*Making life more livable for older adults with advanced chronic disease: A pilot study with volunteer navigators*

Dr. Barb Pesut, UBC Okanagan	Tuesday, May 2, 2017
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*Priorities and challenges in rural indigenous palliative care: Cultural safety revisited*

POSTPONED

*Exercise for advanced cancer patients: Truths, myths, and logistics*

Dr. Nicole Culos-Reed, University of Calgary	Tuesday, March 13, 2018
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## Appendix B IHLCDP Associates

Antifeau, Elisabeth  
 Anton, Gayle  
 Berg, Stephen  
 Brown, Betty  
 Bryant MacLean, Leslie  
 Callaway, Robert  
 Campbell, Sarah  
 Caperchione, Cristina  
 Chau, Shirley  
 Cook, Heather  
 Corbett, Jon  
 Dalton, Brian  
 Deegan, Heather  
 Drewitz, Cheryl  
 Evans, Michael  
 Filiatrault, Paul  
 Forneris, Tanya  
 Foster, Tracy  
 Gainforth, Heather  
 Ghosh, Sanjoy  
 Hamilton, Casey  
 Hatt, Linda  
 Hawthorn, Tracey

Helgason, Nial  
 Hill, Trish  
 Holder, Mark  
 Holtzman, Susan  
 Hughes, Andrew  
 Jakobi, Jennifer  
 Jones, Charlotte  
 Jones, Gareth  
 Jung, Mary  
 Kjorven, Mary  
 Konnert, Joanne  
 Krank, Marvin  
 Kurtz, Donna  
 Li, Eric  
 Little, Jonathan  
 Lovegrove, Gord  
 Lutes, Lesley  
 Maitland, Julie  
 Maiwald, Karin  
 Mallinson, Julian  
 Marck, Patricia  
 Marcolin, Barb  
 Marshall, Jamie

McManus, Ali  
 Oelke, Nelly  
 Olsen, Lise  
 Parsonage, Roger  
 Penny, Tricia  
 Pesut, Barbara  
 Plamondon, Katrina  
 Reid, Colin  
 Robinson, Carole  
 Rush, Kathy  
 Shahram, Sana  
 Shojania, Kam  
 Smith, Michelle  
 Taylor, Darlene  
 Taylor, Dee  
 Taylor, Edward  
 van Donkelaar, Paul  
 Walsh, Zach  
 Wells, Susan  
 Willis-Stewart, Sally  
 Wilson, Roger  
 Zebedee, Janelle





## Appendix C

### List of External Research Awards to IHLCDP Faculty Associates

#### Tri-Council Funding

Title and Principal Investigator	Funding Source
Theorizing the Impact of Participatory Mapping Projects (PI: Jon Corbett)	SSHRC
A league of their own: Examining the effectiveness of a psycho-social and sport program targeting at-risk adolescent girls (PI: Cristina Caperchione)	SSHRC
The connection between intimate partner violence and traumatic brain injury: Addressing gaps in knowledge and awareness (PI: Paul Van Donkelaar)	SSHRC
Positive Youth Development through sport: Examining and understanding program quality (PI: Tanya Forneris)	SSHRC
Enhancing Social Participation Among People with Spinal Cord Injury: Investigating the Peer Mentor-Mentee Relationship (PI: Heather Gainforth)	SSHRC
Social support in the palm of your hand: can support through mobile phones be as effective as face-to-face? (PI: Susan Holtzman)	SSHRC
Engaging Stakeholders in Co-Creating Sustainable Communities: A Study on Rural Communities in B.C. Interior (PI: Eric Li)	SSHRC
ABC's of Assessing Physical Literacy in Older Adults (PI: Lise Olsen)	SSHRC
Child protective services organizational environment, practice, and outcomes (PI: Susan Wells)	SSHRC
Beyond Reefer Madness: Capturing the normal cannabis user in a nomological net (PI: Zach Walsh)	SSHRC
iSTAND- iSTAND Youth Outreach: Program Diversification and Leadership (PI: Jennifer Jakobi)	NSERC
Contributions of Neural and Mechanical Input to Spinal Motoneuron Output in Human Force Control (PI: Jennifer Jakobi)	NSERC
Myokines as a novel link between exercise metabolism and inflammation (PI: Jon Little)	NSERC
Optimizing exercise for improving cardiometabolic health and inflammation in individuals with prediabetes and type 2 diabetes (PI: Jon Little)	NSERC
Sustainable Transport Safety (Safe Systems Planning): Tools to Proactively Evaluate Communities & Move Loss of Life Towards Vision Zero (PI: Gord Lovegrove)	NSERC
Exercise Oxidative Metabolism in Children (PI: Ali McManus)	NSERC



Cortical and sensory control of standing balance (PI: Brian Dalton)	NSERC
Neural mechanisms of predictive movement planning (PI: Paul Van Donkelaar)	NSERC
Improving the Implementation and Impact of Evidence-based Health Promotion Interventions in Real World Settings (PI: Joan Bottorff)	CIHR
ABC's of Assessing Physical Literacy in Older Adults (PI: Gareth Jones)	CIHR
Self-regulation of Physical Activity Behavior: Novel Strategies to Enhance Adherence (PI: Mary Jung)	CIHR
The Virtual Atrial Fibrillation Clinic: Improving Specialty Care in Rural Communities (PI: Kathy Rush)	CIHR
An integrated knowledge translation approach to examining a model of volunteer navigation (NCARE) to support older adults living with advanced chronic illness in the home (PI: Barb Pesut)	CIHR
Practice, policy, and ethical implications of Canadian nursing roles in medical aid in dying: A knowledge synthesis and qualitative investigation (PI: Barb Pesut)	CIHR
The impact of cannabis legalization on campus health: A multi-method approach to establishing a baseline and monitoring change (PI: Zach Walsh)	CIHR

## Other Funding Sources

Development, Delivery and Evaluation of the HAT TRICK train-the trainer module (PI: Cristina Caperchione)	MSFHR
Physician-led low-carbohydrate therapeutic nutrition for type 2 diabetes: Building on a grass-roots movement in BC and beyond (PI: Jon Little)	MSFHR
Healthy Weights for Children - Phase 3 Project (PI: Joan Bottorff)	PHAC / Bridge Youth and Family Services
Dads in Gear Indigenous Participant Manual (PI: Joan Bottorff)	First Nations Health Authority
In-Person Happiness Intervention (PI: Leslie Lutes)	Frank Diener Foundation
HAT TRICK: An innovative health promotion program for men (PI: Cristina Caperchione)	Canadian Men's Health Foundation; Innovation, Science and Economic Development Canada; Province of BC
Dissemination of HAT TRICK: A gender-sensitized health promotion program for men (PI: Cristina Caperchione)	Canadian Men's Health Foundation
Mapping for Change: A Case Study of Enhancing Informational Exchange and Collaboration Through Geoweb Technology (PI: Jon Corbett)	Central Okanagan Foundation; Innovation, Science and Economic Development Canada; Province of BC; United Way of the Central & South Okanagan Similkameen
Regional Socio-Economic Development Institute of Canada (RSEDIC) (PI: Jon Corbett)	Community-University Research Portal
Improving Research to Practice: Investigating the Feasibility of Community Organizations Developing Methods to Ensure Implementation Efforts to Address the Needs and Priorities of the Spinal Cord Injury Community (PI: Heather Gainforth)	Development Canada; Province of BC; Spinal Cord Injury Ontario



Enhancing iKT Partnership: Developing iKT Guiding Principles for conducting and disseminating research in partnership with the spinal cord injury community (PI: Heather Gainforth)	Rick Hansen Foundation
Profibrotic effects of a high n-6 PUFA in the obese aging heart muscle (PI: Sanjoy Ghosh)	Diabetes Canada
iSTAND - Integrating Robotics and Coding into Neuroscience (PI: Jennifer Jakobi)	The Westcoast Women in Engineering, Science and Technology (WWEST)
Small Steps for Big Changes (PI: Mary Jung)	Moss Rock Park Foundation
Does exercise choice matter for physical activity adherence? Foundation doctoral student research grant (Supervisor: Mary Jung)	American College of Sports Medicine
An Opportunity for Impact on the Lives of People Dealing with Celiac Disease (PI: Mary Jung)	Canadian Celiac Association
Food Economy Research Project (PI: Eric Li)	Community Connections (Revelstoke) Society; Innovation, Science and Economic Development Canada; Province of British Columbia; Regional Socio-Economic Development Institute of Canada (RSEDIC)
Insulin sensitivity and fatty acid partitioning in skeletal muscle after exercise (PI: Jon Little)	National Institutes of Health
E-ParaDIGM (Exercise-Physical Activity and Diabetes Glucose Monitoring Protocol) (PI: Jon Little)	Medtronic of Canada Ltd.
Impact of oral ketones on cardiovascular risk factors (PI: Jon Little)	Heart and Stroke Foundation of Canada
Impact of a pharmacist-led therapeutic nutritional intervention on medications and glucose control in type 2 diabetes (PI: Jon Little)	Innovation, Science and Economic Development Canada; Pharmasave Drugs (Pacific) Ltd.; Province of BC
An egg at night to keep morning glucose tight (PI: Jon Little)	Egg Farmers of Canada; American Egg Board
Saliva insulin profiles throughout the day in healthy humans (PI: Jon Little)	CoreHealth Technologies; Innovation, Science and Economic Development Canada; Province of BC
Prolonged sitting and brain health in healthy weight and obese children (PI: Ali McManus)	Heart and Stroke Foundation of Canada
Health and Wellness Index for Kelowna Youth: Growing healthy children (PI: Ali McManus)	Sonrise Foundation and various sources
Understanding best practices for care transitions for patients from hospital to home (PI: Nelly Oelke)	Innovation, Science and Economic Development Canada
An integrated knowledge translation approach to implementing a model of volunteer navigation for rural older adults living with advanced cancer (PI: Barb Pesut)	Canadian Cancer Society Research Institute
Volunteer navigation partnerships: A compassionate community approach to early palliative care (PI: Barb Pesut)	Max Bell Foundation
Incontinence Self-Screening for Health Aging (PI: Kathy Rush)	The Retired Teachers of Ontario Foundation



## Career / Fellowship Awards

Understanding how diet and exercise influence cardiovascular disease in obesity and diabetes – Scholar Award to Sanjoy Ghosh	MSFHR
Self-Regulation of Physical Activity Behaviour: Novel Theory-based Intervention Strategies for Bolstering Exercise Adherence – Scholar Award to Mary Jung	MSFHR
Optimizing lifestyle interventions for the treatment and prevention of type 2 diabetes – Scholar Award, Jon Little	MSFHR
Changing cognitions to change behavior: Reframing biased thinking to improve exercise adherence in individuals with prediabetes – Fellowship award, Mary Jung	MSFHR
Does exercise choice matter for physical activity adherence? Fellowship award, Mary Jung	MSFHR
Exploring Women’s Experiences in a Prediabetes Community-based Exercise Intervention - Fellowship award, Bean (Mary Jung supervisor)	MSFHR
Improving the Implementation and Impact of Evidence-based Health Promotion Interventions in Real World Settings – Scholar Award, Heather Gainforth	MSFHR
Changing cognitions to change behavior: Reframing biased thinking to improve exercise adherence in individuals with prediabetes - Fellowship award, Locke (Mary Jung supervisor)	Diabetes Canada
Canada Research Chair in Health, Ethics and Diversity - Barb Pesut	CRC

## CFI / BCKDF Awards

The Centre for Obesity and Well-being Research Excellence (The CORE) – Lesley Lutes	CFI and BCKDF
Biochemistry laboratory for exercise metabolism and inflammation research – Jon Little	CFI
The Sustainable Road Safety Research Lab: A Facility to develop and use community-based, macro-level collision prediction models – Gord Lovegrove	CFI
Pediatric Inactivity Physiology Laboratory – Ali McManus	CFI
Infrastructure to Support Canada Research Chair in Health Ethics and Diversity – Barb Pesut	CFI
CFI Infrastructure Operating Fund – Paul van Donkelaar	CFI
Centre for the Study of Psychology and Law, University of British Columbia Okanagan – Zach Walsh	CFI
Centre for the Study of Services to Children and Families – Susan Wells	CFI



## Appendix D

### Publications by IHLCDP Faculty Associates

#### April 2017- March 2018

#### 2018

- Halsall, T., & **Forneris, T.** (2018). Evaluation of a leadership program for First Nations, Métis, and Inuit Youth: Stories of positive youth development and community engagement. *Applied Developmental Science*, 22(2), 125-138.
- Francois, M.E., Pistawka, K.J., Halperin, F.A. & **Little, J.P.** (2018). Cardiovascular benefits of combined interval training and post-exercise nutrition in type 2 diabetes. *Journal of Diabetes and its Complications*, 32(2), 226-233.
- Ruiz-Cárdenas, J. D., Rodríguez-Juan, J. J., Smart, R. R., **Jakobi, J. M., & Jones, G. R.** (2018). Validity and reliability of an iPhone App to assess time, velocity and leg power during a sit-to-stand functional performance test. *Gait & Posture*, 59, 261-266.
- Ruiz-Cárdenas, J. D., Rodríguez-Juan, J. J., **Jakobi, J. M.**, Ríos-Díaz, J., Marín-Cascales, E., & Rubio-Arias, J. A. (2018). Bilateral deficit in explosive force related to sit-to-stand performance in older postmenopausal women. *Archives of Gerontology and Geriatrics*, 74, 145-149.
- Simpson, C. L., Flatman, M. M., Kim, B. D., Bouwmeester, N. M., & **Jakobi, J. M.** (2018). Increase in post activation potentiation in females following a cycling warmup. *Human Movement Science*, 57, 171-177.
- Swogger, M.T., & **Walsh, Z.** (2018). Kratom use and mental health: A systematic review. *Drug and Alcohol Dependence*, 183, 134-140.
- Pesut, B.** (2018). Profits and prophets: Derrida on linguistic bereavement and (Im)possibility in nursing. *Nursing Philosophy*, 19(1), e12186.
- Dew, M.A., Butt, Z., Liu, Q., Simpson, M.A., Zee, J, Ladner, D.P., **Holtzman, S.** and 11 more (...) (2018). Prevalence and predictors of patient-reported long-term mental and physical health after donation in the adult-to-adult living-donor liver transplantation cohort Study. *Transplantation*, 102(1) 105-118.
- Creighton, G., Oliffe, J.L., Ferlatte, O., **Bottorff, J.L.**, Broom, A., & Jenkins E.K. (2018). Photovoice ethics: critical reflections from men's mental health research. *Qualitative Health Research*, 28(3), 446-455.
- Alley, S. J., Kolt, G. S., Duncan, M. J., **Caperchione, C. M.**, Savage, T. N., Maeder, A. J., ... & Vandelanotte, C. (2018). The effectiveness of a Web 2.0 physical activity intervention in older adults—a randomised controlled trial. *International Journal of Behavioral Nutrition and Physical Activity*, 15(1), 4.
- Nie, J., Zhang, H., Kong, Z., George, K., **Little, J. P.**, Tong, T. K., ... & Shi, Q. (2018). Impact of high-intensity interval training and moderate-intensity continuous training on resting and post-exercise cardiac troponin T concentration. *Experimental Physiology*. (early view)
- Walker, N., **Gainforth, H.**, Kiparoglou, V., Robinson, H., Woerden, H., & West, R. (2018). Factors moderating the relative effectiveness of varenicline and nicotine replacement therapy in clients using smoking cessation services. *Addiction*, 113, 313-324.
- Robinson, D. B., **Berg, S.**, & Gledlie, D. (2018). A scoping review of school-based physical activity and health eating/nutrition interventions. *Revue phenEPS/PHEnex Journal*, 9(2), 1-28.



## 2017

- Leung, A.A., Daskalopoulou, S.S., Dasgupta, K. and 76 more including **Jones, C.** (...) (2017). Hypertension Canada's 2017 Guidelines for Diagnosis, Risk Assessment, Prevention, and Treatment of Hypertension in Adults. *Canadian Journal of Cardiology*, 33(5), 557-576.
- Walsh, Z.**, Gonzalez, R., Crosby, K. and 3 more (...) (2017). Medical cannabis and mental health: A guided systematic review. *Clinical Psychology Review*, 51, 15-29.
- Lucas, P., & **Walsh, Z.** (2017). Medical cannabis access, use, and substitution for prescription opioids and other substances: A survey of authorized medical cannabis patients. *International Journal of Drug Policy*, 42, 30-35.
- Sudore, R. L., Heyland, D. K., Barnes, D. E., Howard, M., Fassbender, K., **Robinson, C. A.**, ... & You, J. J. (2017). Measuring advance care planning: optimizing the advance care planning engagement survey. *Journal of Pain and Symptom Management*, 53(4), 669-681.
- Diener, E., Heintzelman, S. J., Kushlev, K., Tay, L., Wirtz, D., **Lutes, L. D.**, & Oishi, S. (2017). Findings all psychologists should know from the new science on subjective well-being. *Canadian Psychology*, 58(2), 87.
- Shultz, S. R., McDonald, S. J., Haar, C. V., Meconi, A., Vink, R., **van Donkelaar, P.**, ... & Christie, B. R. (2017). The potential for animal models to provide insight into mild traumatic brain injury: translational challenges and strategies. *Neuroscience & Biobehavioral Reviews*, 76, 396-414.
- Bragge, P., Grimshaw, J.M., Lokker, C. and 24 more including **Gainforth, H.L.** (...) (2017). AIMD - A validated, simplified framework of interventions to promote and integrate evidence into health practices, systems, and policies. *BMC Medical Research Methodology*, 17(1), 38.
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**THE UNIVERSITY OF BRITISH COLUMBIA**



# Annual Report 2017-2018



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# SUMMARY & HIGHLIGHTS

- **July 1, 2017:** The Director appointed by the VPR, UBC Okanagan.
- **September 1, 2017:** Institute website launched; hiring process of the institute staff began.
- **January 1, 2018:** The MMRI Research Engineer joined the institute.
- **January 29, 2018:** The MMRI Administrative Assistant joined the institute.
- **February-April, 2018:** Multiple meetings held between the MMRI Director and Department Heads and Leads of other major initiatives at UBC as related to materials and manufacturing clusters to harmonize the institute's activities and ensure its bi-campus collaboration mechanism.
- **May 24, 2018:** MMRI Research Cluster Leads appointed on both campuses, as well as Lead for a cross-disciplinary Design-for-Industry 4.0 research and training initiative at UBC.
- **June 1, 2018:** The Management Committee formally formed and met in July.
- **June 6, 2018:** Formal call for profile submissions announced, for both original and new members.
- **40** profiles collected from academic members (UBC and external) towards building a comprehensive people-expertise-facility matchmaking database.
- **27** companies approached MMRI since July 2017 to initiate university-industry collaborative projects.
- **10** collaboration opportunities facilitated between faculty members in different disciplines and universities.
- **\$5,935,036** received by academic members as research grants.
- **13** team-based multidisciplinary proposals coordinated by MMRI.
- **173** peer-reviewed articles published by MMRI members.
- **8** events organized/sponsored to promote the institute and identify potential new opportunities for partnership.
- **A Contribution to Organizations (CTO)** funding approved by the National Research Council-Industrial Research Assistance Program (NRC-IRAP) for MMRI to provide multidisciplinary technical services in materials and manufacturing to SMEs in B.C.
- **Accelerate Okanagan's** blog series on Advanced Manufacturing initiated and managed by MMRI.
- **Member success stories** continually promoted on UBC as well as major external media outlets.



# GOALS

Materials and Manufacturing Research Institute (MMRI) is a multidisciplinary, interdepartmental research hub at the University of British Columbia (UBC) fostering collaboration between local, national and international R&D sectors.

**Mission:** The mission of MMRI is to build on existing strengths of UBC on materials and manufacturing research and create new opportunities for multidisciplinary research in related emerging areas through shared knowledge and network-based funding.

**Vision:** MMRI will be a role model to link ‘core’ and ‘applied’ science and contribute to knowledge advancement in multidisciplinary research areas of advanced materials and manufacturing through close partnership between faculty at the University of British Columbia and other sectors of academia, industry and government organizations, and by world-class training of students and scientists, and dissemination of high-quality research.

**Research Strategy:** Today’s global research in the areas of advanced materials and manufacturing is all about making value-added products that are smarter, more durable, and more energy-efficient. New materials with improved multi-functional (e.g. mechanical, thermal, electrical, chemical, and biological) properties are being researched as key enablers for major industrial innovations and for the competitiveness of enterprises across the entire technological spectra. At the same time, innovations in manufacturing methods are being pursued to enhance the quality of products through new material processing technologies, while minimizing environmental impact and manufacturing costs. Once integrated optimally, advanced materials and manufacturing research significantly contribute to the economic prosperity and social well-being of industrial regions and countries.

A key challenge in the above ‘materials’ and ‘manufacturing’ integration, however, is that the processing technologies and manufacturing standards can vary rapidly and widely for a given material category and from one target application to another. As an example, the same light and yet very strong fiberglass composite material can and (economically) should be designed and manufactured differently when it is used in a relatively small mechanical component, versus in a large building structure against earthquake damage. As another example, the fabrication method and dispersion levels applied during manufacturing of nano-scale electromagnetic devices in biomedical applications must be quite different than those intended for aerospace structures under lightening risk.

As such, in order to maximize the efficiency and applicability of materials research projects in the real manufacturing world, it is strongly believed that the structure of a new research institute should be of multidisciplinary nature and based on an ‘application-based’ strategy, rather than the traditionally accepted ‘material-type’ based strategy. This is the working principle of our institute.








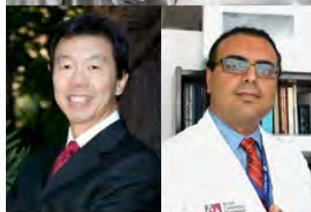




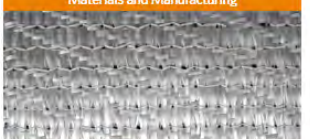



# OPERATIONS

**Structure:** MMRI currently hosts five pillars/clusters with participating researchers from engineering, chemistry, physics, biology, medicine, health and exercise, computer science, social science, applied mathematics, and management disciplines. These clusters include:

- Aerospace and Transportation Materials and Manufacturing (ATMM)
- Biomedical and Biological Materials and Manufacturing (BBMM)
- Building and Construction Materials and Manufacturing (BCMM)
- Electromagnetic and Nanoscale Materials and Manufacturing (ENMM)
- Polymer and Natural Materials and Manufacturing (PNMM)

Under each cluster, we have one dedicated Lead from the Point Grey campus and one dedicated Lead from the Okanagan campus who direct and coordinate the cluster activities. The institute is also currently in the process of adding a sixth cluster specifically around applied data analytics and socioeconomic impact analysis for large-scale materials and manufacturing initiatives.

## Leadership Team:

<p><b>Director</b></p>   <p>Dr. Milani (UBCO)</p>	<p><b>Building and Construction Materials and Manufacturing</b></p>   <p>Drs. Banthia (UBCV) &amp; Alam (UBCO)</p>	<p><b>Biomedical and Biological Materials and Manufacturing</b></p>   <p>Drs. Hsiang (UBCV) &amp; Mohammadi (UBCO)</p>	<p><b>Aerospace and Transportation Materials and Manufacturing</b></p>   <p>Drs. Poole (UBCV) &amp; Bichler (UBCO)</p>
<p><b>Electromagnetic and Nanoscale Materials and Manufacturing</b></p>   <p>Drs. Whitehead (UBCV) &amp; Chau (UBCO)</p>	<p><b>Polymer and Natural Materials and Manufacturing</b></p>   <p>Drs. Ko (UBCV) &amp; DiLabio (UBCO)</p>	<p><b>Design for Industry 4.0 Initiative</b></p>   <p>Dr. Najjaran (UBCO)</p>	



**Governance:** MMRI Director is appointed by, and reports to the Vice-Principal Research (VPR), UBC Okanagan, and he/she assumes the overall leadership, strategic development, and organizational responsibility of the institute. The Management Committee team assists the Director to manage the day to day activities of MMRI. The MMRI Management Committee members are appointed by the Director. Co-leads of the Research Clusters of the institute are formal, voting members of the Committee, in addition to Director as the Committee Chair. When a Cross-Disciplinary Initiative is launched at the institute, its Chief Development Officer also becomes a voting member of the Committee. MMRI administrative and research staff are part of the Committee and serve as non-voting members. Guest members, e.g. Research Associates of the Cluster co-Leads, are invited to the committee as needed. The management team last met in July 2018. MMRI is also in the process of forming a steering committee composed of senior industry representatives as well as pertinent faculty Deans.

**Membership:** MMRI accepts two types of membership: Academic members and Industry members, from UBC and external organizations. A formal Membership Definition and Benefits document was prepared by the management team in 2018, explaining the structure of MMRI, inviting academic and industry members to join the institute and outlining the benefits they can gain through this membership. This document can be found in Appendix I. To join the institute, academic and industry professionals have been asked to fill out and submit their Profiles using accessible templates at MMRI website. We have thus far mostly focused on university researchers to promote MMRI membership which have results in more than 40 profile submission, including national and international members. Initially, over 80 members had signed for MMRI's proposal to Senate and their formal profiles are being processed and posted on the MMRI website as received. Samples of the academic and industry member profiles can be found in Appendix II. The call-for-membership is distributed to new faculty members approximately every three months.

**Space/facilities:** Since January 2018, the institute's administrative office has been officially located in EME 2131 on UBC Okanagan campus. The hub is shared with UBC STAR staff, which has brought new networking and joint initiatives between MMRI and STAR.

The institute has recently acquired a lab-scale "micro-injection molding system" (namely a HAAKE MiniJet Pro Piston Injection molding System from Thermo Scientific), which significantly benefits the collaborative research activities of the members in the areas of bio-polymer and bio-composite engineering, specifically under the PNMM and BCMM clusters.

MMRI has started building a mechanism to facilitate and manage the process of sharing lab equipment and research tools among its members. We have also initiated discussions with other facilities on both campuses including AMPEL, STAR, SIF, CRN, etc. to develop a practical system for this purpose.

**Staff and administration:** MMRI currently has two full-time dedicated staff. The institute Research Engineer, Dr. Mahdi Takaffoli, has numerous academic and industry experiences in diverse areas of mechanical engineering and materials science. Before joining MMRI, he was a postdoctoral fellow at the Massachusetts Institute of Technology (MIT) in the United States. The MMRI Administrative Assistant, Ms. Jolene Campbell, has significant experience in project management and administrative works. We are currently in the process of developing a new Work-Study position for UBC students to e.g. assist with graphic design and extension of promotional activities of the institute.



# ACADEMIC MEASURES

As a newly established institute, MMRI has recently initiated an on-line mechanism to keep track of the research activities of its members. While this is an ongoing project for the institute, the academic record reported in this section is based on the statistics gathered so far from the members.

## Grants

Name	Cluster	Faculty	\$ Amt Grants/Contracts Received	Major Grants/Contracts
Andrew Jirasek	ENMM	IKBSAS	\$220,000	UBCO Eminence Foundation; NSERC DG
Jake Bobowski	ENMM	Arts and Sciences	\$2,000	National Instruments Academic Research Grant
Mohammad Arjmand	PNMM	Applied Science	\$150,000	Start-up and other University grants
Sepideh Pakpour	BBMM	Applied Science	\$120,000	Start-up and other University grants
Kenneth Chau	ENMM	School of Engineering	\$70,339	NSERC Discovery; NSERC RTI
Ben Hall Chew	BBMM	Medicine	\$256,000	Prospective Trial; An EDGE Consortium Clinical Trial; Boston Scientific Investigator Initiated trial
Michael Deyholos	PNMM	IKBSAS	\$200,000	Genome Canada GAPP; Mitacs; NSERC Discovery
Warren Hare	BCMM	IKBSAS	\$80,000	MITACS Accelerate



York Hsiang	ENMM	Surgery	\$671,870	CIHR – NSERC; Vancouver Coastal Health
Lorne Whitehead	ENMM	Physics and Astronomy	\$1,629,700	Alfred P. Sloan Foundation; NRC; BCIC Ignite Fund
Abbas Milani	ATMM	School of Engineering	\$764,411	Mitacs Accelerate; NSERC (Connect Grants-Level 2); Ryde Holdings; NRC-IRAP CtO program
Kevin Golovin	PNMM	Applied Science	\$162,760	NSERC Discovery Grant
Jian Liu	ENMM	Applied Science	\$314,000	CFI; BCKDF; NSERC Discovery Grant
Jeffrey Andrews	ENMM	IKBSAS	\$200,000	NSERC Discovery Grant; UBC Okanagan Eminence Fund
Lukas Bichler	ATMM	School of Engineering	\$970,956	NSERC SPG; Mitacs Accelerate
Hadi Mohammadi	BBMM	School of Engineering	\$123,000	NSERC ENGAGE; NSERC CRD; School of Engineering Research Tools
<b>Total</b>			<b>\$5,935,036.00</b>	



## Publications

The total number of publications by MMRI members in 2017-2018 has been 173. Below is a list of sample major publications under each cluster.

Cluster	Publication
ATMM	1) M.H. Kashani, A. Hosseini, F. Sassani, F.K. Ko, A.S. Milani (2018) "The role of intra-yarn shear in integrated multi-scale deformation analyses of woven fabrics: A critical review", <i>Critical Reviews in Solid State and Materials Sciences</i> , 43(3): 213-232.
	2) J Van Brummelen, M O'Brien, D Gruyer, H Najjaran (2018) "Autonomous vehicle perception: The technology of today and tomorrow", <i>Transportation Research Part C: Emerging Technologies</i> , 89: 384-406.
	3) A. Rashidi, A. S. Milani (2018) "Passive control of wrinkles in woven fabric preforms using a geometrical modification of blank holders", <i>Composites Part A</i> , 105: 300-309.
	4) A. Prasad, L. Malakkal, L. Bichler and J. A. Szpunar, 2017, "Challenges in Spark Plasma Sintering of Cerium (IV) oxide", <i>Ceramic Material Transactions</i> , Vol. 261, pp. 217 – 227.
	5) K. Akkiraju, N. Chawake, S. Kashyap, B. S. Murty, L. Bichler, 2017, "Novel coalescence-driven grain-growth mechanism during annealing/spark plasma sintering of NiO nanocrystals, <i>Journal of the European Ceramic Society</i> , JECS-D-17-06633.
	6) A. Prasad, S. Doja and L. Bichler, 2017, "On the effect of electric field during spark plasma sintering: A Faraday Cage approach", <i>Ceramic Material Transactions</i> , Vol. 261, pp. 127 – 137.
BBMM	1) Mahmoudi, M., Pakpour, S., Perry, G., and Pollock, J. (2018) "Drug-Abuse Nanotechnology: Opportunities and Challenges", <i>ACS Chemical Neuroscience</i> .
	2) Pakpour, S., Bhavadia, A., Zue, R., Amarnani, A., Gibbons, S. M., Gurry, T., Martello-Rooney, L., Alm, E. J. (2017) "Identifying predictive features of <i>Clostridium difficile</i> infection recurrence before, during, and after primary antibiotic treatment", <i>Microbiome</i> , 5: pp 1-10.



- 3) Crawford, B., Pakpour, S., Kazemian, N., Klironomos, J., Milani, A.S., (2017) "Effect of fungal deterioration on physical and mechanical properties of hemp and flax natural fiber composites", *Materials*, 10: pp 1-14.
- 4) Humphreys MR, Shah OD, Monga M, Chang YH, Krambeck AE, Sur RL, Miller NL, Knudsen BE, Eisner BH, Matlaga BR, Chew BH. Dusting versus basketing during ureteroscopy - Which technique is more efficacious? A prospective multi-center trial from the EDGE Research Consortium. *J Urol*. 2017 Dec 15. pii: S0022-5347(17)78115-3.
- 5) Janssen C, Buttyan R, Seow CY, Jäger W, Solomon D, Fazli L, Chew BH, Lange D. A Role for the Hedgehog Effector Gli1 in Mediating Stent-induced Ureteral Smooth Muscle Dysfunction and Aperistalsis. *Urology*. 2017 Jun;104:242.e1-242.e8.
- 6) Chew BH, Rebullar KA, Harriman D, McDougall E, Paterson RF, Lange D. Percuflex Helical Ureteral Stents Significantly Reduce Patient Analgesic Requirements Compared to Control Stents. *J Endourol*. 2017 Dec;31(12):1321-1325.
- 7) Earl E, Mohammadi H., (2018). Improving Finite Element Results in Modeling Heart Valve Mechanics, Part H, *Journal of Engineering in Medicine*, 232(7): 718-725.
- 8) Jahandardoost M., Ohlmann L., Fradet G., Mohammadi H. (2018) Effect of the Heart Rate on the Hemodynamics of the Elliptic St. Jude Medical Valve; A Computational Study, *Journal of Mechanics in Medicine and Biology*, 18(2): 1850014.
- 9) Mohammadi H, Fradet G. (2018). Proposed percutaneous aortic valve prosthesis made of cryogel. *Journal of Biomechanics*, Accepted, BM-D-17-00833.

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- 1) M. Kamali, K. Hewage, A. S. Milani, (2018) "Life cycle sustainability performance assessment framework for residential modular buildings: Aggregated sustainability indices", *Building and Environment*, 138: 21-41.
  - 2) C. Audet and W. Hare. *Derivative-free and Blackbox Optimization*. Springer International Publishing AG, Switzerland, 2017.
  - 3) Li, S., Dezfuli, F.H., Wang, J-Q., Alam, M.S. 2018. "Displacement-based seismic design of steel, FRP and SMA cable restrainers for isolated simply supported bridges," in press, *Journal of Bridge Engineering*, ASCE.

BCMM



- 4) Billah, A.H.M.M. and Alam, M.S. (2018). "Probabilistic seismic risk assessment of concrete bridge piers reinforced with different types of shape memory alloys," *Engineering Structures*, 162 (May): 97-108, Elsevier.
- 5) Moradi, S., Alam, M.S. 2018. "Closure to "Lateral Load-Drift Response and Limit States of Posttensioned Steel Beam-Column Connections: Parametric Study" by Saber Moradi, and M. Shahria Alam," in press, *Journal of Structural Engineering*, ASCE.
- 6) Parghi, A., Alam, M.S., 2017. "A review on the application of sprayed-FRP composites for strengthening of concrete and masonry structures in the construction sector," in press, *Composite Structures*, Elsevier.
- 7) Haque, R., Alam, M.S. 2017. "Hysteretic behaviour of a piston based self-centering (PBSC) bracing system made of superelastic SMA bars – A Feasibility Study," *Structures*, Elsevier, 12:102-114.

#### ENMM

- 1) Maynard, M, Hilt, M, Heath, E, and Jirasek, A. 2017. Evaluation of accuracy and precision in polymer gel dosimetry. *Med Phys*. 44(22), pp. 736-746.
- 2) R. G. Sobral-Filho, A. M. Brito-Silva, M. Isabelle, P. Wan, A. Jirasek, J. J. Lum, A. G. Brolo. 2017. Plasmonic Labeling of Subcellular Compartments in Cancer Cells: Multiplexing with Fine-tuned Gold and Silver Nanoshells. *Chem Sci*. 8, pp. 3038-3046.
- 3) Delichte, S. D., Y. J. Lu, and J. S. Bobowski. "Non-radiative mid-range wireless power transfer: An experiment for senior physics undergraduates." *American Journal of Physics*. 86. (2018): 623 – 632.
- 4) Bobowski, J. S. "Probing split-ring resonator permeabilities with loop-gap resonators." *CANADIAN JOURNAL OF PHYSICS*. Accepted (in press) (2018): 11 pages.
- 5) Chen X, Assadsangabi B, Brox D, Hsiang YN, Takahata K. A pressure-sensing smart stent compatible with angioplasty procedure and its in vivo testing. *IEEE 2017*; 978-1-5090-5078-9/17/.
- 6) Chen X, Assadasangabi B, Hsiang YN, Takahata K. Enabling angioplasty-ready "smart" stents to detect in-stent restenosis and occlusion. *Advanced Science*. 2018 10.1002/adv.201700560.



- 7) Whitehead, L., Papamichael, K. and Siminovitch, M., "Colour preference in lighting – A misleading name for an unscientific idea", *Lighting Research and Technology* 49 (2017).
- 8) Ilic, I., Whitehead, L. and Webster, M., "Contrast adaptation and illuminant spectra", *Journal of Vision* 17(10) (2017).
- 9) David, A. and Whitehead, L., "LED-based white lights – a research forefront in physics and ergonomics", *Compte Rendus Physique* (in press) (2018).
- 10) Y. Liu, J. Liu, J. Wang, M. Banis, B. Xiao, A. Lushington, W. Xiao, R. Li, T-K Sham, G. Liang, X. Sun, "Evidence of size-dependent conductive phase on lithium iron phosphate during carbon coating", *Nature Communications*, 2018, 9, 929.
- 11) B. Wang, J. Liu, M.N. Banis, Q. Sun, Y. Zhao, R. Li, T.-K. Sham, X. Sun, "Atomic layer deposited lithium silicates as solid-state electrolytes for all-solid-state batteries", *ACS Applied Materials & Interfaces*, 2017, 9, 31786-31793.
- 12) J. Liu, H. Zhu, M.H.Z. Shiraz, "Toward 3D solid-state batteries via atomic layer deposition approach", *Frontiers in Energy Research*, 2018, 6, 10.
- 13) Andrews, J., Wickins, J., Boers, N., & McNicholas, P. (2018). teigen: An R Package for Model-Based Clustering and Classification via the Multivariate t Distribution. *Journal of Statistical Software*, 83(7), 1 - 32.
- 14) Andrews, J. L. (2018). Addressing overfitting and underfitting in Gaussian model-based clustering. *Computational Statistics & Data Analysis*.
- 15) T. Požar, J. Laloš, A. Babnik, R. Petkovšek, M. Bethune-Waddell, K. Chau, G. Lukasiewicz, and N. Astrath, "Isolated detection of elastic waves driven by the momentum of light," *Nature Communications*, accepted (2018).
- 16) V. Sieben, S. Molla, F. Mostowfi, C. Floquet, A. Speck, and K. Chau, "Measuring asphaltene deposition onset from crude oils using surface plasmon resonance," *Journal of Energy and Fuels* 31, 5891-5901 (2017).
- 17) T. Pozar, J. Lalos, A. Babnik, R. Petkovsek, G. Lukasiewicz, M. Bethune-Waddell, K. J. Chau, and N. Astrath, "Linear momentum flow from light to solid matter," *The Autumn Meeting of the Brazilian Physical Society* (2018).



PNMM

- 1) Arjmand M, Sadeghi S, Khajepour M, Sundararaj U. Carbon Nanotube/Graphene Nanoribbon/Polyvinylidene Fluoride Nanocomposites: Rheological and Dielectric Properties. *Journal of Physical Chemistry C*, 2017; 121: 169-181.
- 2) Sharif F, Arjmand M (co-first author), Abbasi Moud A, Sundararaj U, Roberts E.P.L. Segregated Hybrid Graphene/Magnetite/PMMA Polymer Nanocomposites Towards Electromagnetic Interference Shielding. *ACS Applied Materials and Interfaces*, 2017; 9:14171-14179.
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## Current Grad Student Supervision Samples

Cluster	# Grad Students Supervised/Co-Supervised	Supervisor/Co-Supervisor
ATMM	26	Lukas Bichler
	7	Abbas Milani
BBMM	3	Ben Hall Chew
	1	Sepideh Pakpour
	7	Hadi Mohammadi
BCMM	7	Warren Hare
ENMM	11	Andrew Jirasek
	4	York Hsiang
	5	Lorne Whitehead
	2	Jeffrey Andrews
	2	Jian Liu
PNMM	4	Michael Deyholos
	2	Kevin Golovin
<b>Total</b>	<b>81</b>	

## Graduated Trainees/Alumni

Cluster	Alumni Name	Degree	Finish Date
ENMM	Nam Musterer	PHAS	2018
	Reily Blackner	PHAS	2017
	Kiera van der Sande	PHAS	2017
	Mohammed Al Shakhs	PhD	2017



	Wilhelm Wenngren	MASc	2017
	Peter Ott	Heilbronn University	2018
ATMM	Lucas Delaby	Visiting MASc	2018
	Mathew Smith	PhD	2017
	Chinmaya Thakore	M.Eng.	2017
	Anil Prasad	MASc	2017
	Cyril Phillipose	M.Eng	2017
	Somi Doja	MASc	2017
	Antonia Ciocoiu	BASc (Research Assistant)	2018
	Sri Rajagopal	BASc (Research Assistant)	2017
	Samuel Burke	BASc (Research Assistant)	2017
	Masoud Haghi Kashani	PhD	2017
	Hossein Montazerian	MASc	2017
	Ronak Vahed	MASc	2017
	Milad Ramezankhani	MASc	2017
	Safat Rashif	MASc	2017
BBMM	Masoumi, M Mehdi	MASc	2018
<b>Total</b>	<b>21</b>		



## Sample student/alumni success stories

**Peter O'Brien** is a wearable-technology entrepreneur and co-founder of the VO2 Master, the world's first Bluetooth oxygen-sensing device for endurance athletes. Maximal oxygen uptake—VO2 max—is an indicator of an athlete's cardiovascular fitness and aerobic endurance. Results are typically monitored in a clinical setting, under strict protocols, and miles away from an athlete's natural training environment on the road, trail or track. Conventional VO2 analyzers are big, bulky and expensive. They weigh at least five pounds (2.3 kg), are the size of a breadbox, and cost upwards of \$10,000. Under the supervision of Dr. Ken Chau under ENMM cluster and with grant support from the Natural Sciences and Engineering Research Council of Canada (NSERC) and the National Research Council of Canada's (NRC) Industrial Research Assistance Program (IRAP), O'Brien began during his education in the School of Engineering working with a group of undergraduate and master's level co-op students to design a hardware solution for his innovative idea to measure VO2 max.

**Luke Ohlmann**, an MASc student in Dr. Hadi Mohamamdi's Heart Valve Performance Laboratory (HVPL) under BBMM cluster, designed and fabricated the world's first active prosthetic heart valve, pioneering the incorporation of soft robotics into the design of mechanical heart valves for which a US patent is pending. In March 2018 the team behind this ground breaking global innovation was invited to present their findings at the prestigious 2018 World Congress of Biomechanics in Dublin. The presentation focused on the ability of the valve to overcome the major hemodynamic complications that tend to arise when designing particularly small bioprosthetic valves.

**Masoud Haghi Kashani** from UBC Okanagan in partnership with another gradating PhD student at UBC Vancouver launched a spin-off company in Vancouver area, called Vision Composite Inc designing and implementing a novel manufacturing process for producing cost-effective, high-quality *Transparent* Glass Fiber-Reinforced Polymer (GFRP) composite parts. The company works closely with the major composite sectors in B.C. with an estimated development investment value of \$6M. Masoud completed his PhD under the supervision of Dr. Abbas Milani in the ATMM cluster. He received a 2017 Graduate Dean's Thesis Fellowship and his numerical models on aerospace composites received international awards, including the best material model developer award by the American Society for Composites.



# ACTIVITIES AND PROJECTS

**Website:** The MMRI website was developed over the past year and constantly maintained and updated by the MMRI staff. The website aims at providing a channel for our members to promote their success stories and featured publications and get informed of the upcoming events as well as funding opportunities.


**Members profiles database:** With a pivotal goal of coalescing expertise across disciplines, MMRI welcomes all the stakeholders in materials and manufacturing sectors to engage with the institute and take advantage of its platform for researching collaboratively, exchanging knowledge, and amplifying impact on the society.

MMRI constantly strives to integrate new partners from academia and industry into its structure. We are building an online searchable database of our members' profiles which will offer a valuable tool for people, expertise and research infrastructure matchmaking and initiating new collaborative works. This is as an ongoing project for the MMRI administrative team and to date we have received 40 research profiles.

## Invited speaker series held:


- Laser material processing for improving biocompatibility of implants
  - Dr. Nazanin Mirhosseini, University of Manchester, United Kingdom
  - July 31, 2018, UBC Okanagan
- Tools and models for a predictive simulation of composite forming processes
  - Dr. Nahiene Hamila, INSA Lyon
  - July 31, 2018, UBC Okanagan
- Industry 4.0 – communication is key
  - Dipl.-Inf. Florian Krebs, The German Aerospace Center (DLR)
  - September 22, 2017, UBC Okanagan

**Laser Material Processing For Improving Biocompatibility of Implants**  
Dr. Nazanin Mirhosseini  
Laser Processing Research Centre, University of Manchester, United Kingdom  
July 31<sup>st</sup>, 2018; Time: 9:00-10:00 am; Room: EME 4218



**Abstract:** The challenge in the engineering of implant surfaces is to attract specific targeted cells. Cell attachment is the initial stage for subsequent proliferation and differentiation. It is proven that cell adhesion, growth and differentiation are related to surface energy and roughness.

Laser processing of implants is a well-known process. The process evaporates the original surface layer and re-shapes a desirable micro-morphological topology with enhanced surface roughness and chemical composition to improve biocompatibility. This seminar will present our recent work on promoting endothelial and endothelial cell adhesion by using laser surface structuring in the Laser Processing Research Centre, UK.



**Dr. Nazanin Mirhosseini** obtained her PhD in improving biocompatibility of orthopaedic implants by using laser surface structuring from University of Manchester in 2008. Since then she has been working in Laser Processing Research Centre as an orthopaedic implants and coronary stents.

**Industrial Research & Invited Speaker Presentation Series:**  
Dr. Nahiene Hamila, INSA Lyon  
July 31<sup>st</sup>, 2018; Time: 10:00-11:00am; Room: EME 4218



**Abstract:** The ambition to shorten the processing cycle of continuous composite materials requires better control of the defects of the parts and providing manufacturing engineers with information about the forming critical mechanical properties. The use of numerical tools seems to be a beneficial way to achieve these objectives, while avoiding a prohibitive cost of development by trial error approaches. Most frequently encountered forming defects are wrinkling, fiber crack, fiber slippage or matrix delamination. Whatever the defect evoked, its influence on the mechanical properties makes the part often unusable, specially in high tech industries. The modelling of composite materials is identified both by the nature of the matrix and its temperature dependence, and by a wide variety of types of continuous fiber reinforcements. For each of these cases, advanced mechanical models and numerical formulations have been developed in our group, a summary of which will be presented in this seminar.



**Nahiene Hamila, Dr. Habil.**  
Graduated from Paris 6 University (UPMC) in mechanical engineering in 2004, N. Hamila defended her PhD on November 2, 2007 at INSA Lyon. He has been Assistant Professor at INSA Lyon, where he continues his cutting edge research on modeling and simulation of composites during the manufacturing process.

**Industry 4.0 – communication is key**  
Industry Research Presentation Series:  
September 22, 2017; Time: 10:00-11:00; Room: EME 4218



**Abstract:** The German Aerospace Center is the largest public research center for aerospace in Europe that employs nearly 8000 people in research and administration. One main research area is that of materials and structures. Since several years the Institute of Material Research and the Institute of Structures and Design follow the strategy of the process chain aligned research. Starting from the profound understanding of the mechanical and physical behavior of selected materials, the Institute cooperates in cooperation with research partners the whole process chain up to the manufacture of a demonstrator. Parallel to the research activities on aerobics, components and highly subsonic systems are already being developed along the process chain from micro to macro scale. In light of new developments of the Industry 4.0 movement, long standing paradigms for complex automation systems have to be re-evaluated and improved upon. Machine Learning for production environments, close human machine interaction and highly autonomous systems are already technologically possible. A basic building block for all these systems is flexible research to machine communication. Especially to machine to machine communication new open communication frameworks like OPC UA are replacing proprietary protocols as the new frameworks allow higher levels of integration of machines and growing tools, a stronger modularization of machines and hence more production production systems. The presentation describes an exemplary insight into this research field using the example of production of aerospace components.



**Dipl.-Inf. Florian Krebs**  
Florian Krebs was born in Bornheim, Germany and obtained his degree in computer science 2004 from the University of Applied Sciences, Germany. He spent more than ten years in the DLR Institute of Material Research and Development in Germany getting hands on industrial experience. In 2009 he joined the German Aerospace Center at the Institute for Structures and Design in Berlin and contributed to the establishment of the DLR Center of Lightweight Production Technology in Rostock. Since 2013 Florian Krebs holds a Post in the German Aerospace Center concerned with flexible automation systems. Since 2017 he holds the position of Deputy Head of the Department in Rostock. In total, around 100 people are working in the research area of industrial robotics, automation technology and distributed production technology. Currently his main interest lies in the development of Industry 4.0 inspired automation technologies for future aerospace manufacturing systems.



### UBC Design for Industry 4.0 (DFI4) Workshop and Chair Initiative:

Dr. Homayoun Najjaran (as Chair) and Dr. Abbas Milani (as co-Chair) organized and hosted the 1st UBC Industry 4.0 School & Industry Night on February 18 and 19, 2018, Kelowna, B.C. Following the success of Concordia's 2017 CIADI and CAM Industry 4.0 Summer School, this Winter School brought together over 80 key stakeholders including students, researchers and industry delegates. Industry 4.0 today is increasingly being heralded by the world's leading industrialized countries as the fourth industrial revolution. This two-day workshop, along with an industry night networking event, was planned with a main focus on promoting industry-university research collaboration at UBC in the emerging Industry 4.0 design and manufacturing areas. The event included invited talks by senior industry delegates from large-scale, advanced manufacturing sectors nationally and internationally; who have already established a strong R&D vision and programs to innovate the 'Factories of the Future'. In addition to sharing their cutting-edge knowledge to the attendees from SMEs, faculty and students, the presentations and subsequent government-led discussion forums brought multiple interactive discussions to identify current challenges toward the world of industrial automation and digitization, as well as new collaborative project opportunities that can collectively benefit the advancement of Industry 4.0 in Canada and beyond. FESTO Canada conducted two hands-on student workshop sessions during the event ([i4.ubc.ca](http://i4.ubc.ca)).

Currently, Drs. Najjaran and Milani are working with a wide range of faculties from Engineering, Management, Social Science, Computer Science as well as industries to possibly establish a Chair in Design for Industry 4.0 (DFI4) as a new university-wide effort towards this cross-disciplinary research and training program.



Snapshots of the recent Industry 4.0 School and Industry Night Event held at UBC Okanagan including a hands-on workshop for students, offered by Festo Canada (Feb 2018).



# Team-based research grant proposal support

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## BiRNet, Bioinnovative Renewables Network

- MMRI coordinated 2 LOIs:
    - Revealing novel potentials of bio-based products for a circular bioeconomy
    - Natural fiber composites with enhanced weathering properties for outdoor applications
  - Involved UBC faculty members: Drs. Deyholos (Biology), Eskicioglu (Eng.), Evans (Forestry), Hewage (Eng.), Klironomos (Biology), Ko (Materials), Milani (Eng.), Pakpour (Eng.), Zandberg (Chemistry)
  - Requested funding: \$358,000 for two years
- 

## NRC-IRAP, Contributions to Organizations

- MMRI submitted 1 proposal:
    - Providing multidisciplinary technical services in materials and manufacturing to SMEs in British Columbia
  - Preliminary approval has been received.
  - Potential see funding opportunity for all MMRI researchers
  - Total project cost: \$250,000 estimated for year 1
- 

## Innovative Solutions Canada (ISC) Challenges

- MMRI coordinated 4 proposals.
    - Advanced coatings for PPE: PRE Labs (Kelowna) partnering with Dr. Golovin (Eng.); Requested funding: \$50k for 6 months (total project cost: \$150k)
    - AM for impact mitigation: Mosaic (Toronto) partnering with Dr. Arjmand (Eng.); Requested funding: \$40k for 6 months (total project cost: \$200k)
    - AM for tissue simulants: 3D Currax (Kelowna) partnering with Drs. Kim and Golovin (Eng.); Requested funding: \$60k for 6 months (total project cost: \$200k)
    - Corrosion detection and prevention: Powertech Labs (Vancouver) partnering with Drs. Liu (Eng.) and Jelovica (Mech.); Requested funding: \$50k for 6 months (total project cost: \$200k)
- 

## IDEaS Competitive Projects

- MMRI Collaborated with UBC STAR and supported proposal preparation and team building
- MMRI was directly involved with 3 proposals.
  - Lightweight ballistic protection: Helios Global Technologies (Kelowna) and Epic Ventures (Victoria) + Drs. DiLabio (Chemistry) and Wulff (Chemistry-Uvic)



- Chemical, biological and radiological hazard detection and planning: Drs. Golovin, Liu, Pakpour, and Zarifi (Eng.)
- What is in that full motion video: TerraSense (Vernon) + Dr. Liu (Eng.)

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#### IDEaS Innovation Networks

- MMRI collaborated with UBS STAR to prepare the LOI.
  - Advanced materials for physical protection
- The members of the proposed Micro-net include:
  - 2 industry partners: Helios Global Technologies (Kelowna) and Epic Ventures (Victoria)
  - 6 UBC faculty members: Drs. DiLabio, Milani, Vaziri, Ko, Bacca and Elfring
  - 2 University of Victoria faculty member: Drs. Wulff and Brolo
  - 1 University of Alberta faculty member: Dr. Hogan
- Requested funding: \$1,500,000 (total project cost: \$3,000,000)

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#### UBCO & UBCV Collaborative Research Mobility Award

- MMRI coordinated one proposal.
  - Collaborative Research toward Embracing the 4th Industrial Revolution
- Involved faculty members: Dr. Homayoun Najjaran and Dr. Abbas Milani
- Requested funding: \$10,000

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#### Alberta Innovate: Alberta Bio Future, Opportunities

- MMRI coordinated one LOI
    - A multi-criteria analysis approach to optimum production of fly ash-based hybrid biocomposites for fire resistant applications
  - The project team include:
    - 6 UBC faculty members: Drs. Milani, Deyholos, Ko, Mehrkhodavandi, DiLabio, Pakpour
    - 3 University of Alberta faculty members: Drs. Ayranci, Curtis, McDermott
    - 1 Northern Alberta Institute of Technology faculty member: Dr. Paolo Mussone
    - 2 international faculty members: Drs. Zhidong Han (Harbin University of Science and Technology, China) and Joseph Allen (Harvard University, USA)
    - 1 industry partner: BioComposites Group, AB
  - Total project cost: \$1,042,000
-



**Expertise matchmaking between faculty members:** MMRI plans to be a reference point of contact when faculty members are looking for an expertise/facility/industry partner that is not available to them in their own departments or network of researchers. Whereas with the development of our Profile Database, faculty members can take advantage of its platform to identify the researcher or industry partner who can support their needs, the MMRI staff is committed to always remain as a match-maker when approached by a faculty member or spontaneously when a potential partnership is identified through their networking activities

Some examples of these match-making activities are listed below:

- Boris Stoeber (UBCV, Mechanical) to David Perrin (UBC, Chemistry)
  - In response to Dr. Perrin's request to find a researcher who can address his microfluidic device fabrication needs
- Kevin Golovin (UBCO, Engineering) to Liisa Holsti (UBCV, Medicine)
  - In response to Dr. Holsti's request to work with a researcher who can develop new synthetic skin-like materials.
- Sabrina Leslie (McGill U, Physic) to Isaac Li (UBCO, Chemistry)
  - Alignment of research interests
- Lope Tabil (Saskatchewan U, Chemical Engineering) to Abbas Milani (UBCO, Engineering)
  - A potential collaborator in bio-based composite research activities initiated at Dr. Milani's lab
- Philip Evans (UBCV, Forestry) to Abbas Milani (UBCO, Engineering)
  - A collaborator in bio-based composite research activities initiated at Dr. Milani's lab
- Mattia Bacca (UBCV, Mechanical) to Gino DiLabio (UBCO, Chemistry)
  - In response to Dr. DiLabio's request to build a team who can support the research goals of the proposal submitted to the IDEaS Micro-net program
- Gwynn Elfring (UBCV, Mechanical) to Gino DiLabio (UBCO, Chemistry)
  - In response to Dr. DiLabio's request to build a team who can support the research goals of the proposal submitted to the IDEaS Micro-net program
- Jasmin Jelovica (UBCV, Mechanical) to Zheng Liu (UBCO, Engineering)
  - In response to Dr. Liu's request to find a collaborator who can contribute to a proposal on corrosion detection in naval platforms
- Zhidong Han (Harbin University of Science and Technology, China) to Abbas Milani (UBCO, Engineering)
  - In response to Dr. Milani's request to identify a researcher with expertise in fire-resistant polymers who can contribute to his Alberta Innovate proposal on fly ash-based composites
- Robert Godin (Chemistry, UBCO) to Ian Fould (Engineering, UBCO)
  - In response to Dr. Godin's request on availability of a number of lab equipment on UBC campus beneficial to his research plan



# COMMUNITY OUTREACH AND COMMUNICATIONS

**Industry outreach and support:** MMRI has been constantly responding to the requests of companies approaching the institute to find best researchers who can address their technical challenges. Furthermore, the institute's staff has been looking for industry partners that fit into a Call for Proposal, encouraging them to partner with the institute's academic members to collaboratively submit a proposal.

A list of example companies connected to MMRI is given below:

- Canadian Industrial Hemp Corporation, Toronto, ON: A Mitacs proposal might result from the discussion currently happening between the company and a UBCO faculty member.
- LlamaZOO, Vancouver, BC: MMRI has established connection with the company for the future activities of the institute in Industry 4.0 or potential joint proposals in virtual/augmented reality.
- Mosaic Manufacturing, Toronto, ON: A collaborative proposal was submitted to ISC Challenge program with Mosaic to be the Lead Applicant and two UBC affiliates as subcontractors.
- 3D Currax, Kelowna, BC: A collaborative proposal was submitted to ISC Challenge program with Currax 3D to be the Lead Applicant and three UBC affiliates as subcontractors.
- Powertech Labs, Vancouver, BC: A collaborative proposal was submitted to ISC Challenge program with Powertech Labs to be the Lead Applicant and three UBC affiliates as subcontractors.
- Global Heat Transfer, Edmonton, AB: Discussion is ongoing with the company to initiate collaborative projects. As UBC could not support their specific metal 3D-printing, MMRI introduced the company to another collaborating research institute at the University of New Brunswick that has the requested facility.
- LionGate Technologies, Victoria, BC: Connection was established for a potential joint proposal in future in the area of health technologies.
- Telops, Quebec City, QC: Connection was established for a potential joint proposal in future in the area of photonics.
- CSI Domes Inc, Kelowna, BC: Discussion is ongoing to submit a Mitacs proposal in collaboration with a UBCO faculty member.



- TerraSense Analytics, Vernon, BC: MMRI made the connection between the company and a UBCO faculty member which led to a joint proposal for IDEaS Competitive Projects.
- CIMA, Kelowna, BC: Connection was established to evaluate potential areas of collaboration.
- Pela, Saskatoon, Saskatchewan: MMRI has made the connection between the company and various faculty members at UBCO. Discussion to plan a Mitacs proposal is ongoing.
- PDJ & Associates, Kelowna, BC: Connection was made between the company and a UBCO faculty member who can support their technical requests.
- CRAiLAR, Victoria, BC Larson Consulting Group: connection was established to involve the company in future activities of MMRI academic members in the area of bio-based composites.
- Spexi, Vancouver, BC: Connection was made between the company and a faculty member at UBCV whose research interests are aligned with the focus of the company.
- Open Green Building Society, Vancouver, BC: Connection was made between the company and a faculty member at UBCO because of the alignment of interests.
- PRE Labs, Kelowna, BC: MMRI made the connection between the company and a faculty member at UBCO which initially led to a joint ISC Challenge proposal and continued to other joint proposals for IDEaS program.
- Hydrogen in Motion, Vancouver, BC: Connection was made between the company and a faculty member at UBCO.
- XCo Tech Inc, Penticton, BC: MMRI introduced to the company a faculty member at UBCV whose expertise can benefit the company's product development.
- Helios Global Technologies, Kelowna, BC: MMRI supported planning and preparation of two proposals in which the company was a partner.
- Lumiant Corporation, Kelowna, BC: Connection was established to initiate joint proposals in future in the area of advanced ceramics.
- IPMC Smart Technologies Inc., Kelowna, BC: Joint meeting between the company's CEO and related faculty members was organized by MMRI to discuss potential joint activities.
- Embrace Orthopaedics, Vancouver, BC: The startup company, located at UBC HATCH, was connected to a faculty member at University of Waterloo whose research expertise might benefit the company's product development plan.
- Pathonix Sports, Vancouver, BC: Connection was made with this startup company, located at UBC HATCH, to initiate joint proposals in future in the area of wearable electronics.



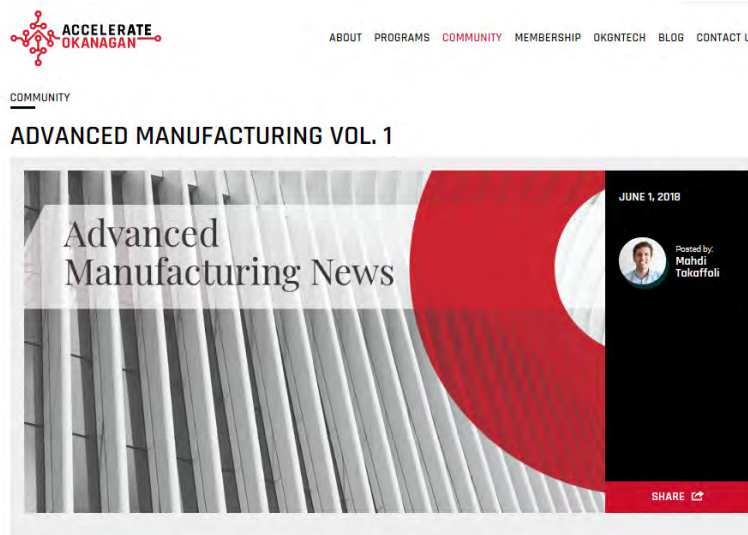
**Event attendance:** MMRI staff and management team members have attended several events in 2018 specifically with the goals of promoting the institute and identifying potential collaborators in academia and industry.

A list of these events are as follows:

- BCTECH Summit, May 14-16, 2018, Vancouver
- International Pacific Rim Hemp Conference, July 18-19, 2018, Vancouver
- International Research Roundtable on Printing the Future of Therapeutics in 3D (PFT3D), June 10-12, 2018, Vancouver
- Canada Gas & LNG Exhibition & Conference, May 14-16, 2018, Vancouver
- First Annual UBC Industry 4.0 School and Industry Night, February 18-19, 2018, Kelowna
- DRDC-CSS and UBC STAR Joint Symposium, Defence and Security Innovation Opportunity Driving Regional Development: Sustaining the Transition from Procurement to Partnership, June 25-26, 2018, UBC's Okanagan campus, Kelowna BC
- Visit to Northwestern Polytechnical University, China, July 2018
- Sustainability Leadership Council of the Okanagan, July 26, 2018, Kelowna
- Innovation Showcase, August 1, 2018, UBC Okanagan

**Media Communications:** To build a stronger connection with local professional communities and promote the activities of our researchers, the MMRI Research Engineer is collaborating with Accelerate Okanagan as a #OKGNtech columnist on their website. One blog post has been written so far under Advanced Manufacturing News:

- Advanced Manufacturing Vol 1: A glance at enablers of advanced manufacturing (June 1, 2018)



Mahdi Takaffoli joins us as a new #OKGNtech columnist, starting with the first edition of Advanced Manufacturing News.

#### A GLANCE AT ENABLERS OF ADVANCED MANUFACTURING

In 1954, Del Harder, Vice President for Operations of the [Ford Motor Company](#), who is credited for the invention of the term "automation", delivered a speech entitled "Automation-Key to the Future" in which he described his newly coined word as "the automatic handling of parts between progressive production processes".



**Partnership activities with other UBC institutes/centers:** MMRI is committed to avoid acting in silo and disconnected from other institutes at UBC. The management team has been actively reaching out to various institutes, research centers and key figures on both campuses to identify synergistic collaborative opportunities.

Some of these internal reach out activities has been summarized below:

- Institute for Computing, Information and Cognitive Systems (ICICS): MMRI was in communication with Dr. Robert Rohling, Director, and Craig Wilson, Communication Writer, to identify researchers who can support IDEaS call for proposal. The institute has also established connection with Dr. John Madden, Director of AMPEL, as well as DR. Adam Fraser, Bionics@UBC Network Coordinator.
- Enterprenurship@UBC: MMRI is working with Camille Saltman, Director UBC Okanagan, and Blair Simonite, Program Director to ensure its resources and connection can be leveraged to support the activities of startup companies connected with UBC.
- Data Science Institute (DSI): Discussion has been initiated between MMRI Director, Dr. Abbas Milani, and DSI Scientific Director, Dr. Raymond T. NG, to identify areas of collaboration and potentially add a new Research Cluster in MMRI focused on data analytics.
- UBC Survive and Thrive Applied Research (STAR): MMRI is collaborating with Dr. Keith Culver, Director, and Kent Dehnel, Operations Facilitator, when opportunities in defence, security, and human-centered areas demand support from expertise in materials science and manufacturing technologies.

**Partnership activities with external institutes and organizations:** Beyond UBC, MMRI has been seeking strategic partnership with national and international organizations to ensure the institute's effective operation towards reaching its goals of fostering multi-disciplinary research and providing technical services to firms across Canada and globally.

MMRI currently has practical collaboration with the following organizations:

- NRC IRAP ITAs in Kelowna and Vancouver
- Mitacs Canada in Kelowna and Vancouver
- Centre for Advanced Materials and Related Technology (CAMTEC), University of Victoria, BC
- Institute of Machine Tools and Control Engineering at Technische Universität Dresden, Dresden, Germany

MMRI has also initiated discussion with the following organizations to establish continues partnership:

- Marine Additive Manufacturing Centre of Excellence at the University of New Brunswick
- MAKE+ at British Columbia Institute of Technology (BCIT)
- Material Matters Research Center, Emily Carr University of Art + Design
- Composites Innovation Center, Winnipeg, MB



# GOALS FOR NEXT ACADEMIC YEAR

- **Provide networking opportunities for members:** MMRI plans to organize its first series of workshops (a five-day event concurrently in Kelowna and Vancouver) in December 2018 where members under each cluster will briefly present their research activities and major research plans, while meeting other members from both campuses as well as the external members (video-conferencing facility will be provided).
- **Initiate and manage the NRC IRAP seed funding:** MMRI will officially announce this approved program in September 2018 and will manage the program until its completion by March 2019. A highly multi-disciplinary set of phase-I projects with partnership of B.C. based SMEs will emerge from this program, with the goal of extending them to larger/long term projects via other funding mechanisms such as NSERC CRD and MITACS Accelerate.
- **Continue support for team-based proposals and awarded grants:** MMRI will remain committed to facilitate planning, team building and writing multidisciplinary proposals for different funding programs such as Eminence, IDEaS, NSERC CRD, NSERC SPG, CFI Innovation, among others. For the awarded grants, MMRI will continue to provide assistance in coordination of project activities at different labs/campuses/organizations as well as assistance in administrative organization and reporting efforts.
- **Organize training programs for graduate students:** MMRI plans to organize summer graduate courses with invited international instructors. Furthermore, a funding request for a new training program on Industry 4.0 will be coordinated next year.
- **Maintain regular communication with members:** MMRI will initiate a monthly email newsletter in Fall 2018.
- **Participate in organizing national/international conferences:** In partnership with the Composites Research Network (CRN), MMRI will be the lead organizer of the 11th Canadian-International conference on Composite Materials, CANCOM 2019, to be held at UBC Okanagan Campus next July. In addition, the Design-for-Industry 4.0 team is planning to hold the 2<sup>nd</sup> UBC Industry 4.0 School and Industry Night Event parallel to the CANCOM2019 (e.g. under a new theme called Composites 4.0), hence bringing a wider range of audience from academia and industry to attend these two interrelated events. Given its subject relevance, this event is also expected to highly promote the Learning Factory Initiative at UBC.
- **Offer systematic expertise/facility matchmaking:** MMRI will establish its online tool to facilitate people expertise/facilities (academia and industry) matchmaking.



# CONTACT INFORMATION

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## Materials and Manufacturing Research Institute

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# APPENDIX I: MEMBERSHIP DEFINITION AND BENEFITS

**RE:** Director's Message and Invitation

Dear Colleagues,

The Materials and Manufacturing Research Institute (MMRI) has been launched at the University of British Columbia (UBC) as a multidisciplinary and interdepartmental research hub fostering collaboration between researchers from the two campuses of UBC, as well as linkage with local, national and international industrial sectors for large-scale collaborative R&D initiatives. MMRI currently hosts five pillars/clusters with over 100 participating researchers from engineering, chemistry, physics, biology, medicine, health and exercise, computer science, social science, applied mathematics, and management disciplines. These clusters include:



- Aerospace and Transportation Materials and Manufacturing (ATMM)
- Biomedical and Biological Materials and Manufacturing (BBMM)
- Building and Construction Materials and Manufacturing (BCMM)
- Electromagnetic and Nanoscale Materials and Manufacturing (ENMM)
- Polymer and Natural Materials and Manufacturing (PNMM)

Under each cluster, we have one dedicated Lead from the Point Grey campus and one dedicated Lead from the Okanagan campus who direct and coordinate the cluster activities. The institute is also currently in the process of adding a sixth cluster specifically around applied data analytics and socioeconomic impact analysis for materials and manufacturing initiatives.

Hereby I cordially invite new faculty and industry members to join our teams under their primary cluster of interest by filling the membership form at: <https://mmri.ubc.ca/help-us-foster-collaboration>. Your profile will be part of an extensive database that we are building as a match-making tool for the upcoming call for proposals and connecting people, expertise and facilities.

Hereby I wish to take this opportunity and also thank each and every one of our existing members who have provided tremendous support from the launching point of the institute to working closely with the management team over the past year to initiate multiple team-based grant opportunities. Undoubtedly, with your leadership in the projects and world-class expertise and experience in pertinent research areas of materials and manufacturing, this truly multidisciplinary institute can be made a role model in Canada by systematically linking basic and applied sciences and arriving at large-scale initiatives and impactful innovations for communities around us. I strongly believe collaborative expertise will be a key towards this success, not only between researchers within each cluster, but also between clusters as well as other institutes and partners.

Finally, on behalf of the management team and all members, I would like to acknowledge the UBC senior administrators who have put a considerable amount of excitement and support into our joint initiatives across the clusters.

Sincerely,

Abbas S. Milani, Ph.D., P.Eng.

Director - *MMRI*

Professor of Mechanical Engineering

**..Please see the Membership Benefits next page..**





### MMRI Membership Definition

Faculty members and industry delegates who have submitted and received the approval of their MMRI Research Profile (link below) are considered to be the formal members of the institute and will benefit from the following activities:

- Involve in large-scale grant applications as PI or co-PI as coordinated by the institute clusters.
- Receive support from the institute research staff, including grant writing and network facilitation with academia and industry at large, as well as administrative assistance including grant reporting and event organization.
- Receive calls for participation in the currently funded projects by industry and government.
- Be invited to the networking and workshop events aimed at building widespread connection between MMRI researchers from the two campuses of UBC, industry partners, and government organizations.
- Access to the facility of other research members with a minimal service fee as agreed in that lab.
- Access MMRI's shared computational/software tools; for use by faculty and students.
- Engage in multidisciplinary collaboration opportunities with external academic and industrial members (national and international) to join new or ongoing multi-institutional projects.
- Access to MMRI online matchmaking service to identify the required people, expertise, and facility for your new projects/program initiatives.
- Obtain assistance in promotion and publication of your research successes stories.
- Access to the past successful team-based LOIs and grant applications by the senior members.

For more information, please visit: <https://mmri.ubc.ca>

Membership form: <https://mmri.ubc.ca/help-us-foster-collaboration>



## APPENDIX II: SAMPLE RESEARCH PROFILES



THE UNIVERSITY OF BRITISH COLUMBIA  
Materials & Manufacturing Research Institute

Academic Member Profile



### Andrew Jirasek

Associate Professor

Physics, UBC Okanagan

Phone: 250-807-9597

Email: [Andrew.jirasek@ubc.ca](mailto:Andrew.jirasek@ubc.ca)

<http://medicalphysics.ok.ubc.ca/faculty/jirasek.html>

#### Research Theme

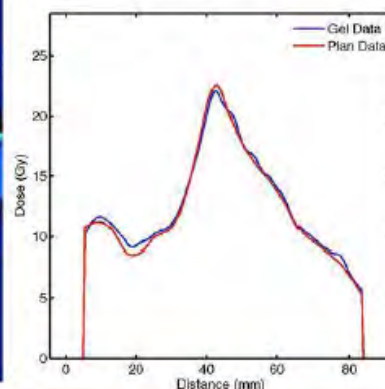
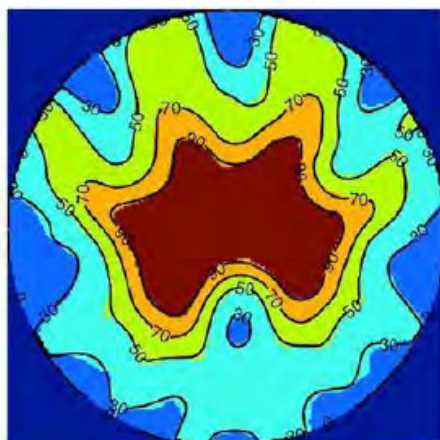
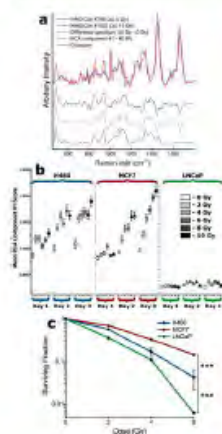
Biomedical and Biological Materials and Manufacturing (BBMM)

#### Research Areas

- Raman spectroscopy of irradiated biological materials
- Three dimensional radiation dosimetry using radiosensitive polymer gel materials

#### Research Facilities/Tools

- Raman microscope, 632/785nm laser excitation
- Basic wet lab polymer gel manufacturing instrumentation
- Access to ionizing radiation equipment at BC Cancer
- Access to CT imaging at BC Cancer



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THE UNIVERSITY OF BRITISH COLUMBIA  
Materials & Manufacturing Research Institute

Industrial Member Profile

## HYTEC - Kohler Canada Co.



Armstrong, BC

Contact, Position: Diego Faiguenbaum, Sr. Process Engineer

Phone: 250-546-3196

Email: [Diego.Faiguenbaum@kohler.com](mailto:Diego.Faiguenbaum@kohler.com)

[hytec.ca](http://hytec.ca) [kohler.com](http://kohler.com)

### R&D Theme of Interest

Polymer and Natural Materials and Manufacturing

### Types of Products/Services

- Hytec, a division of Kohler Canada Co., is a full-line manufacturer of gelcoat and acrylic bathtubs, showers, bath/showers, modular bathing systems and shower receptors.

### Infrastructure

- Gelcoat and Resin Spray Equipment
- Thermoformer
- Drill, Trim and Grind Cell
- CNC machine



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# RSEDIC

Regional Socio-Economic Development Institute of Canada

## **Annual Report 2017-2018 Academic Year**

### **Executive Summary:**

The Regional Socioeconomic Development Institute of Canada (RSEDIC) was created in 2015 to connect with communities, both locally and internationally. Working at the forefront of UBC Okanagan's core strategic research themes, RSEDIC's purpose is to impact regional economies, and to provide interdisciplinary research and training opportunities for faculty and graduate students. RSEDIC houses a number of active interdisciplinary research projects, and is involved in major cross-campus initiatives. 2017-2018 was a transitional year for RSEDIC, with the addition of an Associate Director and a Research Project Manager. Strategic planning for the Institute was undertaken in October 2017, where a vision for RSEDIC was developed.



**Goals:**

The purpose of RSEDIC is twofold:

1. To impact regional economies, and
2. To provide interdisciplinary research and training opportunities for faculty and graduate students.

These purposes are in direct alignment with the cross-cutting strategic research domain of “Regional engagement for socio-economic advancement” identified in the *UBC Okanagan Strategic Research Support Plan 2017-2022*.

RSEDIC undertook a strategic planning exercise in October 2017 to re-evaluate the Institute’s structure, goals, and purpose on UBC’s Okanagan campus in response to the *Strategic Research Support Plan*. One of the central outcomes of this planning exercise was the creation of a new vision for RSEDIC as an Institute. This vision shifts the focus of the Institute from activities of members and individual research programs to one centred on projects that support the dual purposes of the Institute. This vision grew out of the 2017 Seed Grant Competition that RSEDIC held in early 2017, which awarded 5 projects with funding (see Academic Measures) and allowed the Institute to identify interdisciplinary projects across campus that were working in the area of socio-economic development. Of these 5 successful grants, 3 projects have led to further RSEDIC support, and two have resulted in either successful external funding or funding applications pending decision. The primary goal of RSEDIC is to facilitate and enhance research that incorporates and/or advances socio-economic issues, questions, and impacts.



**Institute Operations:**

**Governance:** RSEDIC is governed by a Director, Associate Director, and Research Project Manager. The budget and operational management is overseen by the Research Project Manager. The governance team meet regularly; the Director and Associate Director communicate Institute priorities to UBC Okanagan senior administration, while the Research Project Manager supports and communicates with RSEDIC project teams.

**Membership:** RSEDIC identifies primarily as a catalyst for new and existing research projects that engage with regional issues for socio-economic advancement. There is a standing membership that was established when the Institute was initially approved, but there have been no new members and no plans are underway to engage with the membership as such. Rather, RSEDIC views itself as being an institutional asset, an institution that facilitates campus activities in the area of socio-economic engagement without exclusion.

**Staff and administration:** Since November 2017, RSEDIC has been managed by a Research Project Manager. Funding for this position is provided by the Faculty of Management as an ongoing in-kind support to the activities of the Institute. Additional staff support is expected in 2018-2019 to redevelop the RSEDIC website and increase web presence.



**Activities:***Positioning the BC Wine Industry for International Growth:*

- Wine Exhibition: Cherry Point Estate Wines, Vancouver Island; Northern Lights Estate Winery, Prince George; Okanagan Crush Pad, Summerland; Quails' Gate Winery, Kelowna; Summerhill Pyramid Winery, Kelowna; The View, Kelowna; Tinhorn Creek Vineyards, Oliver with final full exhibition at the Penticton Public Library (Summer and Fall 2017)
- Speaker's series at the Penticton Public Library: Roger Sugden (UBCO), Paul Davies (UBCO), Jacques-Olivier Pesme (KEDGE, France), Silvia Sacchetti (University of Trento, Italy) (Fall 2017)
- Third annual Wine Leaders Forum (March 2018)

*Occupational Structure in the Okanagan Nation Territory:*

- Project team workshop at Westbank First Nation Community Core (June 2018)
- Public talk and small focused workshops on oral history with Claudia Malacrida, University of Lethbridge (September 2018)

*Building Capacity for Rural Health in BC's Interior:*

- Creation of BC Rural Health Network (<https://bcrhn.ca>) (2018)
- Ongoing consultations with rural health coalitions

*CU-HUB:*

- Management Capstone team undertaking evaluation and assessment of CU-Hub prototype (September – December 2018)
- Management Capstone team creating marketing and promotional campaign for CU-Hub (January – April 2019)

*RSEDIC scans and working groups:*

- Wine research scan completed identifying research assets in the BC Interior (April 2018)
- Socio-economic impacts of Cannabis legalization meeting (July 2018)
- Position document completed on potential for high-value agriculture research on UBC Okanagan campus (August 2018)



**Goals for next academic year:**

Administratively, our focus will be on increasing our online presence and external communications by way of hiring administrative support to help update and refresh our website and create a social media presence for the Institute. Strategically, the primary focus for RSEDIC in the 2018-2019 academic year will be to advance the capacity of UBC Okanagan's campus for research in the area of high value agriculture. Specific targets around high value agriculture for this year include:

- Facilitate the 2019 *BC Pinot Noir Celebration*, establishing the Okanagan campus as its permanent home (underway, with staff support from the Faculty of Management)
- Establish the annual spring UBC Wine Leaders Forum and the annual fall UBC Wine Industry workshops as opportunities to listen to the industry, and to collaborate in shaping UBC's wine industry research and education
- Lead and participate in a multidisciplinary high value agriculture programming and research committee: to develop activity spanning industry workshops, new courses and certificates/diplomas for students, and post-graduate education for professionals in the wine industry
- Initiate regional, national, and international wine partnership talks in BC, Washington, Oregon, Ontario, Nova Scotia, France, and Australia
- Formalize co-location of the UBC Wine Research Centre (WRC) on the Okanagan campus
- Apply for NSERC Connection Grant (Level 2): Convene meetings of the Okanagan high value agriculture communities (wine, nutraceuticals, and cannabis; producers, municipalities, citizens and other stakeholders); focus on challenges facing all members of the high value agriculture community, or controversial issues that need to be addressed by UBC/RSEDIC as an independent actor
- Support and develop the CFI-IF proposal *Food+*; the NSERC CREATE proposal, *Food & Wine Training and Education Network (FW-TEN)*; a Western Innovation (WINN) Initiative grant proposal on high value agriculture; a SSHRC Partnership Engage grant on the development of a BC Wine Industry knowledge repository
- Develop a resourcing plan for a high value agriculture hub
- Support the development of a core facilities proposal to support high value agriculture research
- Collaborate with Development and Alumni Engagement to develop a fundraising plan to support high value agriculture activities





Regional Socio-Economic Development Institute of Canada

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## **Academic Measures:**

RSEDIC received initial one-time funding of \$50,000 in 2015 and operated using those funds until the spring of 2018. In 2017, a budget request for continuing funding from UBC was supported, starting the 2019 fiscal year. The Institute houses four major on-going research initiatives, and provides substantial support to three more that are under development; funds from 2015-2018 have supported RSEDIC research activities, the outputs of which are detailed below. To date, no RSEDIC core funding has been spent on staff salaries or other administrative or operational costs. The Faculty of Management provides an in-kind contribution of salaried staff time towards management and leadership of RSEDIC-led and supported research projects, which includes grant writing and facilitation, project management, and outreach within the UBC Okanagan community.

Metrics reported here focus exclusively on RSEDIC led and supported projects, rather than on the accomplishments of individual researchers. This reflects RSEDIC's commitment, as captured in our founding senate-approved document to open participation by UBC faculty, students and staff without membership rules. Because we do not have "members" in the same way that other Institutes might, there are no individual metrics to provide. The Institute recognizes that participants involved in RSEDIC projects may also be involved in other projects across campus; it is likely that other Institutes have captured funding and training metrics for these individual researchers. Metrics provided in the following tables are restricted to RSEDIC activities exclusively and do not capture funding, publications, or trainees that have not been supported by the Institute.



**RSEDIC-led projects:**

Project Name	UBC Okanagan Participants	Grants	Publications	Current trainees	Trainee alumni
Positioning the BC Wine Industry for International Growth	Roger Sugden (Faculty of Management), Malida Mooken (RSEDIC), Marcela Valania (FoM), Kim Buschert (FoM/Library), Gino DiLabio (Chemistry), Wes Zandberg (Chemistry)	<ul style="list-style-type: none"> <li>• SSHRC CG (\$18K) Jan 2017 – Dec 2018</li> <li>• SSHRC PEG (\$25K) to be submitted December 2018</li> <li>• Western Economic Diversification (\$630,000) 2015 - 2019</li> </ul>	<p>Malida Mooken, Roger Sugden and Marcela Valania. (2018). University Impact on the Development of Industries in Peripheral Regions: Knowledge Organization and the British Columbia Wine Industry. <i>BC Studies</i>, 198(Summer), 125-152.</p> <p><i>British Columbia Wine Region: A Territory Exploring its Identity</i>, film available at <a href="http://ubckedgewine.ca/identity/">ubckedgewine.ca/identity/</a></p>	Malida Mooken (post-doctoral fellow in RSEDIC); Matthew Noestheden (PhD student, Chemistry)	Zachary Bingley (Undergraduate, FoM)
Occupational Structure in the Okanagan Nation Territory	Roger Sugden (FoM), Ross Hickey (Economics), Marcela Valania (FoM), Heather Berringer (Library), Mary Butterfield (FoM), Paul Davies (Psychology), Chris Hives (UBC Archives), James Hull (History), Brigitte Le Normand (History), Eric Li (FoM), Barb Marcolin (FoM), Carolyn McHardy (Critical Studies)	<ul style="list-style-type: none"> <li>• HSS (UBCO internal, \$5K) Nov 2016-Nov 2017</li> </ul>	<i>The Occupational Structure of the Okanagan, British Columbia, and Canada, 1881-1941</i> , Edited by Roger Sugden and Keith Sugden, in preparation (UBC Press)	Cristalle Smith (MFA candidate, Creative Studies); Sumeet Sekhon (post-doctoral researcher)	Jack Wilson (Undergraduate, History)
Building Capacity for Rural Health in BC's Interior	Mike Chiasson (FoM), Kathy Rush (Nursing), Eric Li (FoM), Romi Jain (RSEDIC), Mary Butterfield (FoM)	<ul style="list-style-type: none"> <li>• SSHRC PEG (\$25K) to be submitted December 2018</li> </ul>	"Recognition: Key to the Entrepreneurial Activities of Rural Coalitions in Advancing Access to Healthcare" – to	Romi Jain (post-doctoral fellow in RSEDIC)	Andreas Clark (former FoM undergraduate student, current MA candidate at UdM)



			be submitted to the International Journal of Health Equity, September 2018		
Community-University HUB (co-led with Institute for Community Engaged Research and UBC Okanagan Library)	Roger Sugden (FoM), Mary Butterfield (FoM), Heather Berringer (Library), Jon Corbett (CCGS)	<ul style="list-style-type: none"> <li>Internally funded by UBCO VPR, Irving K Barber Learning Fund, Irving K Barber School of Arts and Sciences, Faculty of Management, Institute for Community Engaged Research, and RSEDIC</li> </ul>		Management capstone teams in fall 2018 and winter 2019 semesters (4 undergraduate students per team)	

## RSEDIC-supported projects:

Project Name	UBC Okanagan Participants	Grants	Trainees
Food Security in the BC Interior	Eric Li (FoM), Kathy Rush (Nursing), Jennifer Davis (FoM)	<ul style="list-style-type: none"> <li>RSEDIC Seed Grant (\$3000)</li> <li>SSHRC PEG (\$25K) submitted September 2018</li> <li>CIHR Project Grant (\$270,000) submitted September 2018</li> </ul>	Cristalle Smith (MFA candidate, Creative Studies), Shiven Vinod Khera (Undergraduate FoM), Nicole Michalewicz (Undergraduate, PPE), Jean-Philippe Abadir (Undergraduate, Computer Science), Siddesh Nambiar (Undergraduate, Computer Science)
Reconciliation, Restoration, and Collaboration: Enhancing Ecosystem Sustainability and Resilience through a Sylix / Settler Science Approach	Jeannette Armstrong (Community, Culture and Global Studies) Mike Evans (CCGS), full team TBD	<ul style="list-style-type: none"> <li>Eminence Fund application submitted September 2018</li> <li>SSHRC Connection grant to be submitted November 2018</li> </ul>	
Knowledge-driven Predictive Analytics and Management for Precision Agriculture	Nathan Pelletier (FoM/Biology), Eric Li (FoM), Zheng Liu (Engineering), full team TBD	<ul style="list-style-type: none"> <li>Eminence Fund application submitted September 2018</li> </ul>	