



a place of mind



Annual Report

Year 2013 to 2014

IRES Director’s Brief Report 2013-2014 (Satterfield)

Table of Contents

RESEARCH AND TEACHNG HIGHLIGHTS2

 RESEARCH AND TEACHING 2

 ADMINISTRATION 2

PROGRAM GOALS 2014-153

RESEARCH FUNDING4

PUBLICATIONS6

STUDENT FUNDING7

STUDENTS GRADUATED 2013-20148

RESEARCH AND TEACHING HIGHLIGHTS

RESEARCH AND TEACHING

- \$1,368,639 in funding in 2013/14, or an average of \$152,071 per n=9 eligible faculty per year (2 of 11 faculty do not run any grants through IRES)
- An average of 5 publications per faculty, significant given none of our faculty run large labs; *41% in top-flight journals (one in Science by our newest and most junior faculty member, most in top field or disciplinary journals); ~70% in journals with 5-year impact factors of greater than 3.0. See details below*
- Worked with faculty at IRES and beyond to develop a professional Masters of Public Policy, which included design of its academic program, development of no fewer than 8 new syllabi and secured for IRES an ownership role of one of three specialization streams
- The above MPP work also includes IRES' expected delivery of both core program courses, and 'all stream' elective courses. The MPP program has now been unanimously approved by the Faculty of Science and the Faculty of ARTS and is currently on its way to the Senate
- We currently have 110 graduate students in our program, our primary focus, though all faculty save for one CRC I teach at least one undergraduate course on top of their graduate teaching and supervision loads

ADMINISTRATION

- Secured a 50/50 joint appointment of Navin Ramankutty, CRC I position in Food Security, in conjunction with the LIU Institute. This was achieved by strategically providing some funds for spousal hire of Rhemtulla in Forestry and by willingness to commit to the MPP program, promises we have fully realized
- Assisted in successful CRC 2 application for Jiaying Zhao and worked on CRC 1 application for Navin Ramankutty. The former (Zhao) was successfully awarded in April of this year, the latter (Ramankutty) is currently under consideration.
- Successfully stewarded the streamlined process for appointment to Full Professor for Navin Ramankutty, recently awarded
- Successfully stewarded two cases of promotion from Assistant to Associate Professors (Mark Johnson and Leila Harris)
- Successful approval and implementation of Merit & PSA policy and workplace fairness policy
- Successfully administered the largest intake of students in recent years and expecting similar in 2014/15.
- Continued to work with Fisheries on acceptable administration for Fisheries/IRES students
- Continued to keep IRES budget in the black and secured a 45% reduction in IT support service cost from UBC IT

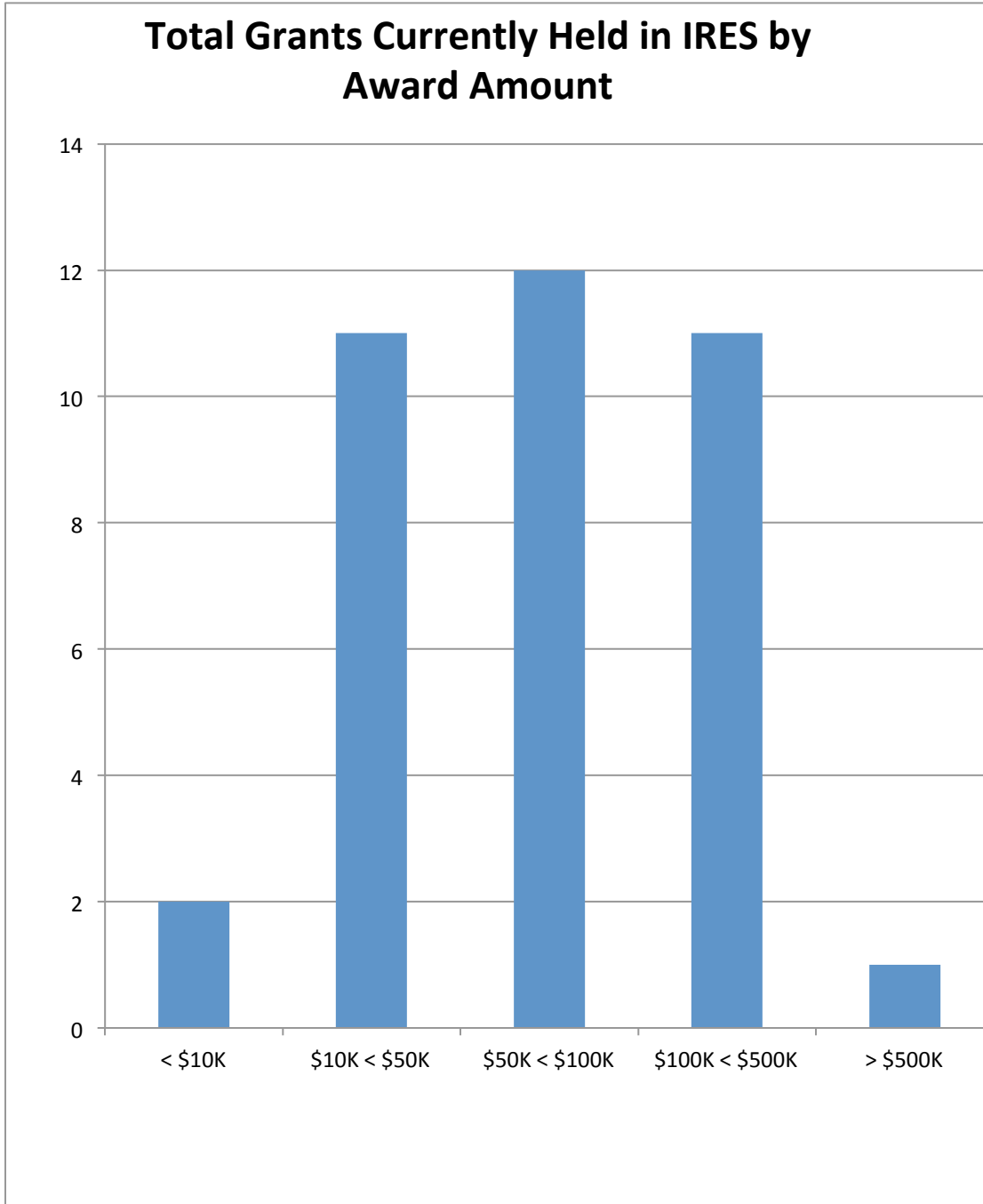
PROGRAM GOALS 2014-15

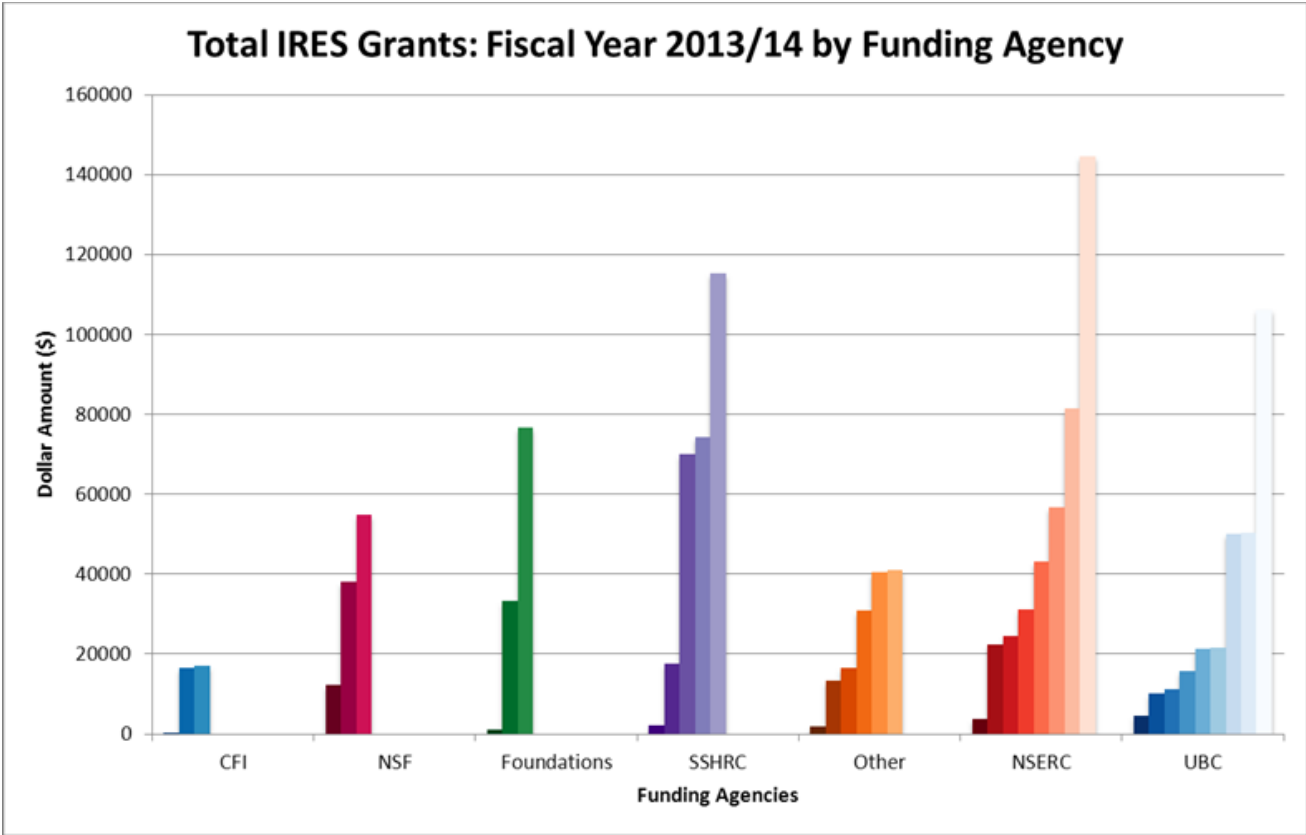
- Work closely to resolve future of Fisheries Centre and its relationship to IRES to ensure pending changes enhance both programs
- Ensure that IRES and Faculty of Science interests are preserved in the administration and governance of new policy school/MPP
- Launch new MPP teaching and assign new courses accordingly to RMES faculty and/or hire limited term appointments for specialty courses as needed
- Work closely with other MPP units to secure a viable governance platform for making critical financial and academic decisions regarding the MPP, particularly as the cohort moves from 40 to 80 or larger
- Work with Professor Dowlatabadi to renew his CRC I
- Transition to new graduate advisor, Mark Johnson, and new interim head, Kandlikar
- Review requirements for RMES MA and MSc, given we expect some students to move toward the MPP stream
- Focus on new undergraduate teaching for all RMES faculty without a stable undergraduate teaching assignment (all are teaching UG courses, but a longer term plan needs to be in place)
- Work with Faculty of Science curriculum committee to develop capstone courses for the faculty's sustainability programs
- Improve teaching evaluations for RMES courses, 502, which was generally deemed problematic this year due to higher than expected enrollment
- Maintain balanced budget despite expected increases in salary payments and cost increases

RESEARCH FUNDING

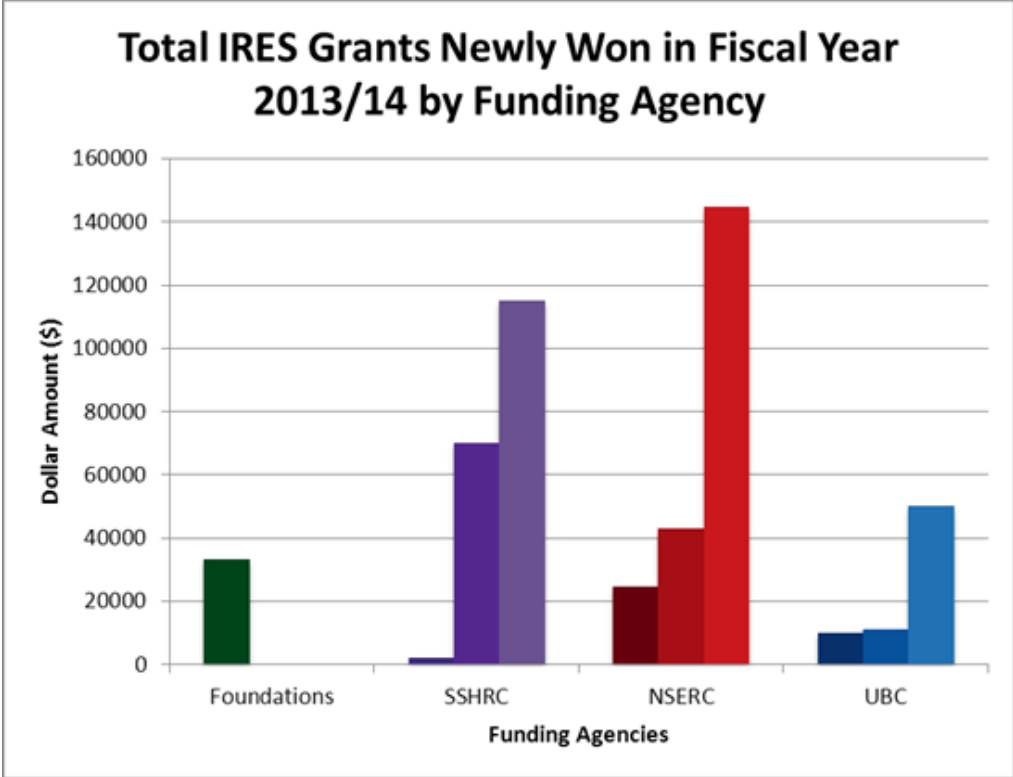
Our faculty is comprised of 11 faculty members, over half of whom are jointly appointed. They combine for a total FTE of 7.7 FTE and held a total of \$1,368,639.00 in funding in 2013/14. Given two faculty or 0.66 FTE do not channel any funds through IRES, this averages to \$152,071 per 9 faculty/per year; or \$194,408.94 per 7.04 FTE/per year. Good representation of funds from both SSHRC and NSERC are evident, despite recent funding cut backs. Below are listed 4 tables, which depict:

1. Grants Held By Award Amount/Range
2. Distribution of Grants by Funding Agency (each bar represents a single grant)
3. Grants Newly Won in this Fiscal Year (each bar represents a single grant)





Per 1.0 Faculty FTE = CFI (2.67); NSF (1.7); Foundations (1.67); SSHRC (2.67); Other (3.37); NSERC (3.54); UBC (3.87)
Each bar represents a single grant from each agency



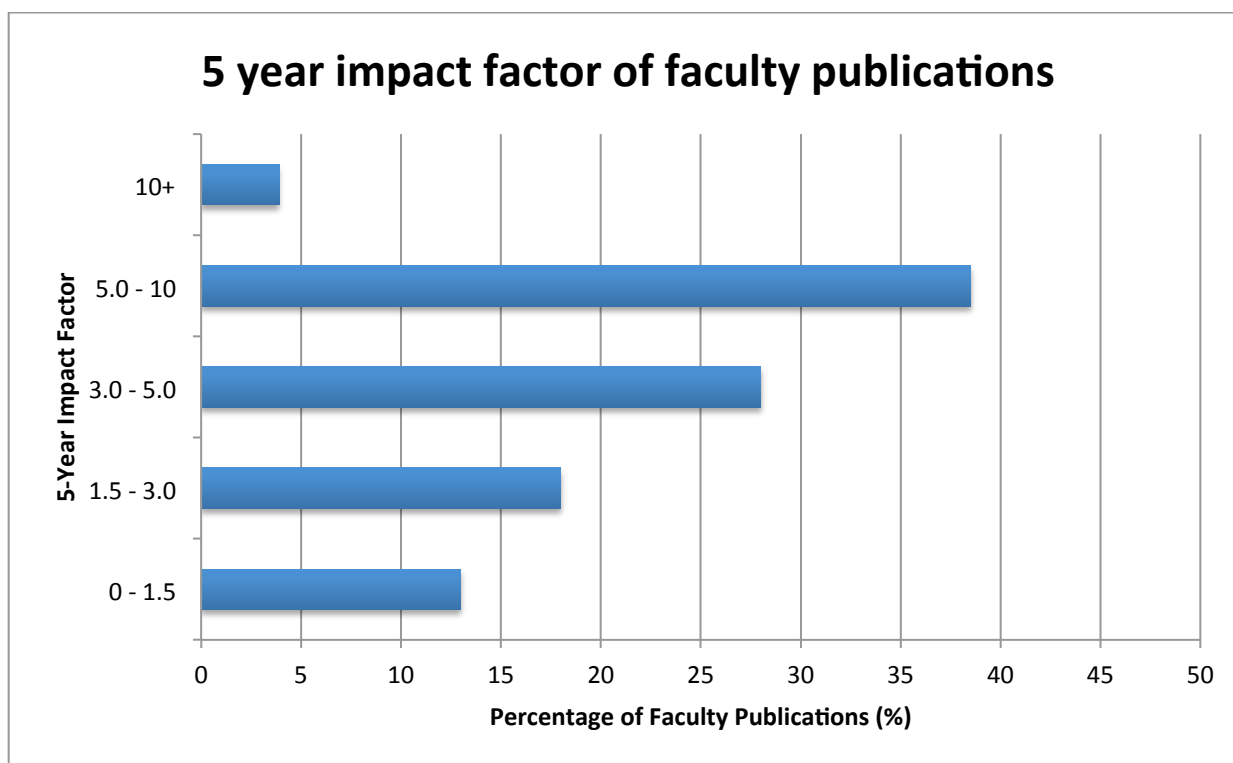
Faculty FTE = Foundations (1); SSHRC (1.67); NSERC (1.34); UBC (1.17);
Each bar represents a single grant

PUBLICATIONS

This year, faculty at IRES published 39 peer-reviewed articles, 12 book chapters, and one edited book. This includes only peer-reviewed publications and only those released via date or DOI in this reporting period. This amounts to an average annual publication rate of nearly 5 publications per faculty, significant given none of our faculty run large labs with many students and researchers.

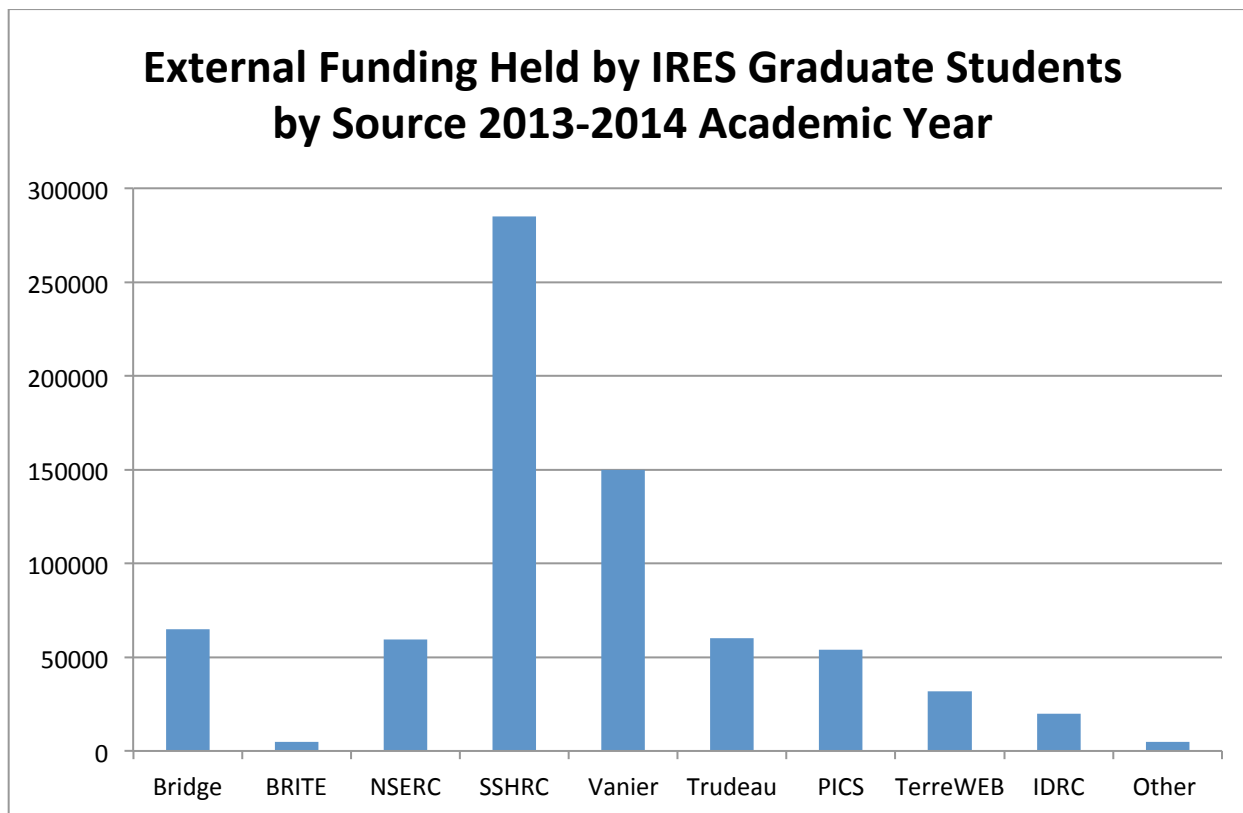
IRES also has (in my estimation) a particularly good record of high-quality publications. By this we assume that any journal with a five year impact factor of greater than 1.5 is very solid, that 3.0 or higher is an excellent publication (e.g., *Ecological Applications*, *PLOS One*, *Energy Policy*, *Ecological Economics*, *Annals of the Association of American Geographers*) and that journals with an impact factor of 5-10 reference publications that are considered top-flight disciplinary or topical area journals (e.g., *Environmental Science & Technology*; *Global Environmental Change*, *Frontiers in Ecology and Environment*). Beyond that are the career defining journals, all of which have 5-year Impact Factors of 20 or greater, such as *Science*, *Nature*, *Lancet*, *New England Journal of Medicine*, *Cell*, *Psychological Bulletin*, etc.

Of the journal articles, 41% or n=16 were published in the above-noted top-flight journals (one in *Science* by our newest and most junior faculty member). More broadly, ~70% or n=27 were published in journals with 5-year impact factors of greater than 3.0.



STUDENT FUNDING

During the 2013-2014 Academic year, there were 110 graduate students in the RMES program. Of those currently eligible for funding, virtually all PhD and most masters are funded at a minimum stipend of 18K plus tuition. About ½ of this comes from faculty funding or UBC funding in the form of 4 year fellowships. In addition, roughly 1/2 of students currently eligible have received external funding for a total of \$735,333 CAD, which averages to \$23, 270 CAD for top tier students. This includes 4 of Canada's most prestigious graduate fellowships comprised of 3 Vanier Awards of 50K each, 1 Trudeau award of 55K. Overall, this funding record reflects our ability to attract top, competitive students and to the substantial effort we have put into mentoring our student's capacity to develop successful funding proposals.



STUDENTS GRADUATED 2013-2014

2013-2014 saw the graduation of 10 MA or MSc students and 7 PhD students.

MA	Supervisor	Thesis Title
Megan Callahan	Terre Satterfield	Lions and tigers and bears : an investigation of the state of conservation in zoos
Hana Galal	Gunilla Oberg	Integrating sustainability in municipal wastewater infrastructure decision-analysis using the analytic hierarchy process
Kim Yang Lau	Hadi Dowlatabadi	British Columbia's 'carbon neutral government' mandate : influence on infrastructure decisions
Megan Peloso	Leila Harris	Navigating water access and governance in peri-urban Ashaiman, Ghana : a case study
Lyudmila (Lucy) Rodina	Leila Harris	Lived notions of citizenship and the human right to water in Site C, Khayelitsha, Cape Town, South Africa
Lauren Rodman	Charles Menzies	Spinning wind into power : industry and energy in Gitxaala Nation, British Columbia
Allison Takasaki	Ralph Matthews	Environment, development, trust, and well-being in the Tsawwassen First Nation
MSc	Supervisor	Thesis Title
Laura Fedoruk	John Robinson	'Smart' energy systems and networked buildings : examining the integrations, controls, and experience of design through operation
Elizabeth Ferris	Gunilla Oberg	Implementing climate mitigation policy at a subnational level : lessons from British Columbia
Cameron Webster	Mark Johnson	The effects of biochar application on carbon dioxide and methane soil surface fluxes

PhD	Supervisor	Thesis Title
Maria Cristina Infante	Peter Nemetz	Building an ecosystem services value at risk conceptual framework for sustainability, efficiency and fairness in resource management : starting values from marine ecosystems
Janalyn Kotaska	Terre Satterfield	Reconciliation 'at the end of the day' : decolonizing territorial governance in British Columbia after Delgamuukw
Reza Kowsari	Hisham Zerriffi & Hadi Dowlatabadi	Twisted energy ladder : complexities and unintended consequences in the transition to modern energy services
Vicky Wing Yee Lam	Rashid Sumaila	Global fisheries economics in the face of change in climate
Nicole Miller	Stephen Sheppard	Urban form and building energy : quantifying relationships using a multi-scale approach
Teresa Ryan	Ronald Trosper & Terre Satterfield	Territorial jurisdiction : the cultural and economic significance of eulachon <i>Thaleichthys pacificus</i> in the north-central coast region of British Columbia
Stefan Storey	John Robinson	Application of life-cycle approaches for the evaluation of high performance buildings