

**Faculty of Graduate Studies
Annual Report
2015**



**DALHOUSIE
UNIVERSITY**

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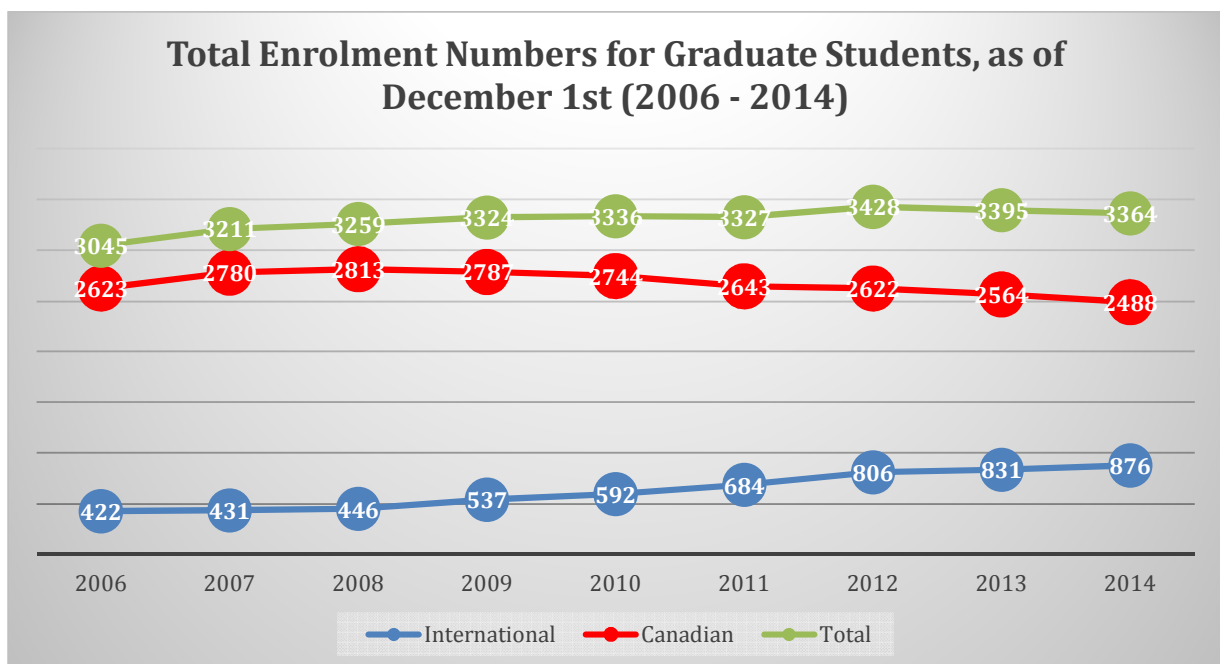
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NOTE: This report covers the period of May 1, 2014 to April 30, 2015 and contains projections to August 2015 where numbers were available. The financial data covers the period September, 2013, to August, 2014.

Dean's Report

1. Enrolment

Graduate students represent approximately 20% of the total Dalhousie student population. The December 1 “headcounts” since 2006, reported in the figure below, shows the changes in total enrolment over the last nine years. Graduate enrolment has remained relatively steady over this time period. The make-up of the graduate student population is, however, shifting, with declining enrolments for Canadian students and increasing enrolments for international students. Tables 1 and 2 show the breakdown in enrolment by international geographic region and Canadian province.



The overall flattening in enrolments may be the result of at least four factors:

- (1) Capacity in thesis-based programs is limited by Professors’ ability to supervise and pay for more students;
- (2) Teaching capacity and space in professional programs have reached saturation and more students cannot be accommodated;
- (3) The number of quality graduate applicants may have plateaued, which is not indicated in the number of students admitted to Dalhousie with GPAs ≥ 3.7 , which is still increasing;
- (4) A smaller fraction of applicants are accepting our admission offers.

If either of the first two points is the cause, then Dalhousie needs to rethink its graduate student recruitment strategy, if it wishes to maintain a strong graduate school. If the fourth is true, we must establish why this is occurring.

2. Overview of funding and scholarship support

Funding for graduate students is derived from a variety of sources, including scholarships from university and endowment budgets, external national and provincial agencies, supervisor research grants, departmental funding, etc. In 2013-14, financial support from all sources, internal and external, to Dalhousie graduate students was more than 22 million dollars (Table 3). Detailed reports from the FGS and Killam Scholarship Committees will follow in the Associate Dean's section of this annual report.

The first scholarships from the Nova Scotia Graduate Scholarship (NSGS) program were awarded this year. As of the writing of this report, 155 Master's awards valued a \$10,000/year for two years, 88 PhD awards valued at \$15,000 for four years and four International awards valued at \$10,000/year for three years have been awarded. Awards were given in all priority research areas identified by the provincial government including, Ocean Science & Technology, Information & Communications Technology, Clean Technology, Financial Services, Life Sciences, Aerospace & Defence, Health & Wellness, Resource Sector, Social Innovation. We are grateful to the Province of Nova Scotia for this important contribution to graduate student recruitment and support. A full accounting of this program will be included in next year's report, when the first annual reporting cycle is complete.

3. Killam activities

Dalhousie's Killam endowments have been pivotal in the development of our graduate studies programs over the last four decades. FGS has responsibility for the Killam Advanced Studies fund, which supports predoctoral scholarships and postdoctoral fellowships, and the part of the Killam Memorial Research and Scholarship fund allocated to support graduate scholarships. These endowments allow us to attract outstanding Canadian and international students to our graduate programs. The detailed results of the 2014 and 2015 Killam scholarship competitions will follow later in this report. FGS was also responsible for the coordination of the Dorothy J. Killam Lecture Series funded from the Killam Residue Fund.

FGS, on behalf of the university, reports on all activities supported by the Killam endowments by means of an annual report to the Killam national conference normally held in conjunction with the Canadian Association of Graduate Studies (CAGS) annual conference in the fall. These reports are available on the FGS web site (<http://killamtrusts.dal.ca/news/reports/>).

The theme for the 2014, and final, Killam Lecture Series was 'Interface: Computer Science, New Media Art and Public Space'. This series was organized by the Faculty of Computer Science and the Dalhousie Art Gallery and was led by Dr. Michael Shepherd, with Peter Dykhuis, and Stephen Kelly assisting with the coordination.

The Killam Lecture Series is being discontinued because of declining funds and confusion with the Annual Killam Lectures organized by the Killam Trusts. The Annual Killam Lectures are given each year by the five Canada Council for the Arts Killam Prize winners.

The annual Killam Celebration was held in conjunction with the annual visit by the Killam Trustees on Thursday, November 13, 2014. Before the event, which was held in the McInnis Room in the Student Union Building, guests viewed poster presentations given by four Killam Predoctoral Scholars. This was followed by formal presentations that acknowledged all Killam Scholars, Postdoctoral Fellows, Chairs, Professors and Prize winners. The presentations concluded with three-minute oral presentations from four Killam Predoctoral Scholars and one Killam Postdoctoral Fellow. The poster and oral presentations were given by Killam Laureates from a variety of disciplines, and highlighted some of the exciting research being conducted at Dalhousie. A reception followed the presentation ceremony. There were 195 people who confirmed their attendance for the event, including ten Killam Alumni.

4. Recruitment and retention activities

In the 2014/15 academic year, FGS recruitment material appeared regularly in the *Dalhousie Alumni Magazine*, and on Facebook and Twitter. The functionality of email templates for student inquiries was also improved this year. Much effort was devoted to updating print material to reflect the new brand standard as well as the accuracy of information on the FGS programs and scholarship bookmarks, the magazine ad, two page brochure, and the Next Steps pamphlet for admitted students. The FGS recruitment handbook is currently being updated.

In the past academic year, FGS represented Dalhousie at the Halifax Career Fair, Dalhousie's Open House in October, the McGill Arts and Science recruitment fairs and the Memorial University Recruitment and Career Fair. These graduate student recruitment events are opportunities to make a positive impression with prospective graduate students, provide information on our many world class Master's and PhD programs, and to discuss the application and admission process. This year, FGS represented Dalhousie internationally at an Imagine Canada Fair in Brazil in September and in Colombia in March, at the International Exhibition Conference on Higher Education in Riyadh, Saudi Arabia. FGS will also join a Canadian consortium of nine universities (CALDO) at an international coalition of research universities in Brazil in May, 2015. FGS will hold a campus wide information session on recruitment for staff and faculty in June, 2015.

In terms of retention activities, FGS hosted a New Student Orientation in September, a welcome information session in January and produced a welcome email with a link to a new student information site in May, 2015. FGS also hosted Dalhousie's annual Three Minute-Thesis competition in April, 2015. The Dean served on a panel on effective graduate supervision in October, along with colleagues from FASS, Health Professions and Engineering. In collaboration with the Centre for Learning and Teaching, FGS hopes to work with faculties to develop activities focused on best practices in graduate supervision.

5. Students awards

FGS recommends awards for a number of internal and external competitions, including the Governor General's Gold Medal Awards (two awards), the Dalhousie Doctoral Thesis Awards (two awards), the NSERC Doctoral Prizes (two nominations to NSERC), the North Eastern Association of Graduate Schools (NAGS) Master and Doctoral thesis awards and graduate mentoring awards, and the Canadian Association of Graduate Studies CAGS/UMI Distinguished Dissertation Awards (two nominations). In many cases, just the nomination by the department or by the university is very highly appreciated by the student and may serve as a significant addition to their CV. All such awards and nominations for external awards are selected from departmental nominations by the Prize Panel of the Faculty of Graduate Studies.

The Governor General's Gold Medals are awarded during the May convocation to "the most outstanding Master's graduates (thesis or non-thesis)" in the May and previous October convocations combined. The 2014 Gold Medals were presented at the May 2014 convocation to Sheri Bell, an MA graduate of the Department of Sociology and Social Anthropology, and to Jessica Carrière-Garwood, an MSc graduate in the Department of Oceanography. These exceptional students were selected from five departmental nomination files, representing a Master's level graduating class of 1027 students. The citations for Ms. Bell and Ms. Carrière-Garwood, in part, read as follows.

Sheri Bell

The Governor General's Gold Medal in the Humanities and Social Sciences for 2014 is awarded to Ms. Sheri Bell. Sheri Bell graduated with the degree Master of Arts in the October 2013 convocation. The title of her Master's thesis is; "Manitoba Social Workers and the Pharmaceuticalization of Children and Youth in Care".

Sheri Bell's thesis "was an original study of social workers' perceptions of the high rates of psychotropic medication of youth in Manitoba's care system...Sheri's thesis was not just excellent; it was risky, brave, even brilliant....Her publication record would be enviable for a junior tenure-track faculty member in Sociology, let alone a Master's student. She now has four peer-reviewed journal articles to her credit, three of them sole-authored; she also has co-authored fifteen additional co-publications...Sheri's funding record is similarly impressive; during her time at Dalhousie, she was awarded both a Killam Predoctoral Fellowship and a CIHR Banting and Best Canada Graduate Scholarship (Master's level) and has a long list of scholarships from her days as an undergraduate as well."

Jessica Carrière-Garwood

The Governor General's Gold Medal in the Natural Sciences and Engineering for 2014 is awarded to Ms. Jessica Carrière-Garwood. Jessica Carrière-Garwood graduates with the degree Master of Science in Oceanography in the May 2014 convocation. The title of her Master's thesis is: "Seasonal Variation and Biological Effects on Mudflat Erodibility in the Minas Basin, Bay of Fundy".

Jessica Carrière-Garwood's thesis "is noteworthy for its interdisciplinarity, applied relevance, ambitious scope, and novelty...Jessica was the first scientist to tackle this interesting problem of sediment sorting on tidal flats in a comprehensive and quantitative way, and her work will be fundamental to understanding how tidal flat ecosystems will respond to development and to rising sea level...Jessica is working on two manuscripts reporting her MSc work... More than one committee member considered the written document, and particularly the answers to the questions, to reflect the very best of what one should expect from an MSc candidate and her thesis. The words 'outstanding' and 'impressive' were used several times during the short in camera deliberation...She is outstanding in every way that matters in the academic world."

The winners of the 2015 Governor General's Gold Medals will be announced at the May 7th, 2015 FGS Annual Faculty meeting.

The Dalhousie University Doctoral Thesis Awards were established in 2004, and the first awards were presented at the May 2004 convocation. For 2014, the Dalhousie University Doctoral Thesis Awards were presented to Dr. Hai Dang Vu of the Schulich School of Law in the Humanities and Social Sciences category, and Dr. Daniel Boyce of the Department of Biology in the Natural and Medical Sciences and Engineering category. These awards are for excellence of the doctoral thesis, largely based on the report on the thesis by the External Examiner, and the nomination and thesis abstract. The citations for these two scholars read in part as follows:

Hai Dang Vu

The Dalhousie University Doctoral Thesis Award in the Humanities and Social Sciences for 2014 is awarded to Hai Dang Vu. Dr. Vu graduated with the degree Doctor in the Science of Law in the October 2013 convocation. The title of his Doctoral Thesis is: "Towards a Network of Marine Protected Areas in the South China Sea: Legal and Political Perspectives".

In his Doctoral thesis, Dr. Vu "addresses one of the most volatile geopolitical challenges in the world: how to resolve territorial and marine resource conflicts over the hotly contested Spratly

and Paracel Islands in the South China Sea region. While numerous articles and books have already broached the topic, this masterful contribution is the first to offer a broad suite of possible ways forward in calming political tensions with the central suggestion being the establishment of a regional network of marine protected areas (MPAs)...His creative ideas are not left at an abstract level but are grounded in realities through four chapters that establish the law and policy context for how a regional network of MPAs might actually be established...He has powerfully blended a theoretical perspective with a practical guide to policymakers on how to set a future course for peace rather than military conflict in a region where difficult territorial claims remain unsolved."

Daniel Boyce

The Dalhousie University Doctoral Thesis Award for "the University's most outstanding doctoral thesis" in the Natural and Medical Sciences and Engineering for 2014 is awarded to Daniel Boyce. Mr. Boyce graduates with the degree Doctor of Philosophy in Biology at the May 2014 convocation. The title of his thesis is: "Patterns and Drivers of Marine Phytoplankton Change over the Past Century".

In his Doctoral thesis, Daniel "demonstrated a previously unrecognized global decline in phytoplankton, the microscopic algae that support all life in the sea... Daniel was also able to attribute most of this decline to warming ocean waters, and as such added a new dimension to our understanding of the effects of long-term climate change. The wider consequences of this trend for the marine environment are likely severe, and will need to be considered in all future studies of marine ecosystem structure, geochemical cycling, and fishery yields. This is a major discovery, with wide ramification that extend far outside its discipline... Almost certainly this work will lead large numbers of graduate students into further exploration of this emerging research field."

The winners of the 2015 FGS Doctoral Thesis awards will be announced at the May 7th, 2015 FGS Annual Faculty meeting. It is important for FGS and for the university to honour our most outstanding graduates through such awards, not only because of the achievements of the award winners, but also to recognize the high level of achievement of all our students and programs. Students nominated for external award competitions in the last year are as follows.

CAGS/UMI Distinguished Doctoral Dissertation Award (submitted March 2015)

Engineering, Medical and Natural Sciences category:

Dr. Nick Nickerson, Department of Earth Sciences, PhD was awarded October 2014, for his thesis "Using Physical Principles to Enhance the Measurement, Interpretation and Understanding of Soil Respiration".

Fine Arts, Humanities and Social Sciences category:

Dr. Warren Heiti, Department of Philosophy, PhD was awarded October 2014, for his thesis "An Ethics of Attention".

NAGS Awards (deadline February 1, 2015)

Doctoral Dissertation Award

No nominations were submitted to FGS for this award.

Master's Thesis Award

No nominations were submitted to FGS for this award.

These external award competitions are highly selective: CAGS represents more than 60 Canadian universities, NAGS more than 100 American and Canadian institutions. Recognition as the Dalhousie nominee undoubtedly is an honour for the student, and for the university it is important to be well represented among such nominations for doctoral graduates.

6. Professional development activities

Professional development activities, in addition to academic scholarship and training, are becoming increasingly important for well-rounded graduate students and postdoctoral fellows. This year, FGS, with support from the Faculties of Science, Medicine, Computer Science and Engineering and the Dalhousie Association of Graduate Students presented the fourth series of MITACS Step professional development workshops. The workshops were held in October and November, 2014, and included sessions on entrepreneurship, career professionalism, foundations of project management, and networking, followed by a networking event. The workshops were open to all Master's and PhD students, and postdoctoral fellows from the region. Students were also offered the opportunity to participate in nation-wide online workshops on Writing Strategic Business Reports, Writing Effective Emails and Time Management. Both in-person and online workshops were open to 24 students. Two workshops will also be held on May 13th and 14th on Communication Skills and Time Management, respectively. FGS has also been working with the Co-curricular team to allow students to add their participation in the MITACS workshops to their Co-curricular record.

In partnership with the Center for Learning and Teaching, FGS has purchased a three-year subscription for online professional development modules known as "MyGradSkills". Module topics include: Academic and Research Integrity, Understanding and Avoiding Plagiarism, Converting a CV to a Resume, Intellectual Property – an Entrepreneur's Guide and Research Management to name a few. The modules will be rolled out over the coming months.

Finally, FGS in collaboration with the Faculties of Agriculture, Science, Medicine, Engineering and Computer Science and initiated by Dr. Tamara Franz-Odendaal, NSERC Chair for Women in Science and Engineering – Atlantic Region, sponsored a day long workshop in April 2015 entitled: "Negotiating for Success" for senior female graduate students and postdoctoral fellows.

7. Senate review of FGS

This year, the Faculty of Graduate Studies underwent a Senate Review and in April received 51 recommendations based on input from Internal and External Review Committees. Over the coming months, I will be working with FGS staff, Faculty Council and the broader community to prepare a response. We very much appreciate the hard work of both committees and look forward to addressing the recommendations.

8. Personnel changes at FGS

Over the past year, there have been several changes in personnel and responsibilities within the FGS office. Hannah Beck joined us in September 2014 as a Program Assistant and Jasmine Smart competed successfully for the new position of FGS Admissions, Recruitment, and Retention Officer. Meagan Chaffey replaced Jasmine as the Graduate Scholarship and PDF Clerk. Brenda Phillips is in a temporary appointment as Graduate Secretary for the Interdisciplinary PhD program. In September, Darrell Rhodenizer left FGS for External Relations and Paul Strople joined us from the Registrar's Office in January. We also were supported by our student assistants Hayley McCabe-Naish, Mercedes Bullock, and Fatemeh Mousavi.

In closing, I would like to acknowledge FGS staff for their tireless work on behalf of all our constituents. Their dedication and professionalism is greatly appreciated. I would also like to personally thank them for the warm welcome to FGS and their patience and help during the last few months as I learned the ropes. I

would also like to thank Associate Deans, Dieter Pelzer and Eileen Denovan-Wright for their support and advice.

Finally, I would like to thank the many staff and faculty across our campuses and beyond, who support our graduate programs throughout the year. Thanks also to members of Faculty Council and APCC, as well as members of review, prize and appeal panels, who have served in the past year. To all, your help is gratefully acknowledged.

May 7, 2015
Marty Leonard, Dean
Faculty of Graduate Studies

Associate Deans' Reports

Associate Dean – Scholarships, Curriculum, & Program Reviews

Dr. Pelzer wishes to thank the Faculty staff for their support, help and expertise throughout the year. The dedication of staff to Graduate Studies ensures that a very high level of service is provided to students and faculty alike. As well, the Faculty of Graduate Studies would like to thank the members of the various committees of which the Faculty is composed for the generosity with which they donate their time and the careful consideration and insight they bring to the tasks they are asked to undertake. The Faculty could not function without their support, and their efforts are deeply appreciated, as is their unfailing sense of humour and continuing good will.

1. Scholarships

The following section will outline all of the scholarship competitions and processes held during the 2013-2014 and 2014-15 academic years. Committee members were elected or appointed to ensure fair and accurate disbursement of scholarship funds.

FGS Departmental Scholarship Allocation

Graduate Coordinators were asked to confirm the names of those who, upon admission, were considered to qualify as first-class students to be counted toward a department's second round allocation. Graduate Faculty staff used data from students' files to make a final determination of eligibility to be counted toward a department's allocation, based on a four-year undergraduate degree with a transcript demonstrating a GPA of 3.7 or higher for the last two years of a student's program.

The FGS scholarship (departmental allocations) budget includes contributions from the university budget, the Killam Memorial Research and Scholarship endowment (different from the Killam Advanced Studies endowment that supports the Killam Scholarships), and auxiliary funds. The total amount of funding allocated to all departments for 2014-2015 is \$3,200,000, as compared to the 2013-2014 total of \$3,376,579. The anticipated funding allocation to departments in 2015-16 will be \$3,205,810.

The total FGS scholarship funds available vary (slightly) from year to year depending on the "auxiliary funding" available as a result of variations in actual spending vs. budget in previous years. This auxiliary funding, when available, is added to the funding total and distributed proportionally after the second round allocation has been determined. In Appendix 2 we present the allocations by unit for 2015-16 as well as the trend in FGS scholarship allocations in recent years.

The yearly allocation for thesis programs is based on two parts. Part A (1st round) is calculated as 50% of the total allocation of the previous years. This percentage was changed from 80% to 50% in 2013, over concern that the 80% formula was reducing the money available for Part B of the process too quickly. This was at a time when it looked like there was going to be a reduction in the funding for these scholarships. Part B (2nd round) is based on the number of A- or better students coming into a program in the previous year, weighted as follows: 1 point for new Master's students, 2 points for transfers from Master's into PhD programs and 3 points for new PhDs. The points are used to reallocate the remaining 50% of the funds to departments.

In light of the new NSGS program that will increase funding by \$3.015 Million to specific areas in the steady state at 2017-18 and onward, and with the decline in the number of students in some fields, the Dean is working to appoint a small working group to review how funds are currently allocated to thesis based programs. The working group will report their recommendations to Faculty Council for consideration.

Non-thesis programs allocation is also based on two parts. Part A is calculated using the number of new Master's students with A- or better entering in the previous year multiplied by a weighted factor related to the length of the program. The length factor is as follows: 3 for one year programs (10 or fewer half courses), 4 for 16-22 month programs (up to 20 half courses), 5 for 2 year programs (20 plus half courses) and 6 for 3 year programs (30 plus half courses). Part B is an entrance scholarship for use in the current recruitment cycle to help attract an exemplary student with a GPA of 3.7 or better.

A total of 600 points were accrued by departments for the 2014-2015 allocation year, a decrease over the 658 point total for 2013-2014. A total of 686 points were accrued by departments for the 2015-2016 allocation year. Departmental allocations are presented in Table 4 at the end of this report.

Izaak Walton Killam Predoctoral Scholarships

The Killam Predoctoral Scholarships are the most prestigious scholarships offered at Dalhousie University. Applications are submitted by departments on behalf of students whom they feel merit consideration for this award.

Renewals

Killam Scholars wishing to renew their scholarships for the 2014-15 academic year were asked to submit a Progress report. Progress reports were reviewed by Associate Dean Pelzer. In total, 44 students submitted progress reports to request renewals, 6 from students in Master's programs (Level 1) and 38 from students in Doctoral programs (Level 2). The Associate Dean recommended that all of these scholarships be renewed.

In March 2015, renewal applications were received from 54 Killam Scholars wishing to renew their scholarships for the 2015-16 academic year (11 Level 1, and 43 Level 2 Scholars). Renewal applications were reviewed by Associate Dean Pelzer, who recommended that all of these scholarships be renewed.

New Applications

Applications for new Killam Predoctoral scholarships are submitted by faculties, departments, and schools on behalf of Master's and Doctoral students accepted into their graduate programs, but who are not yet at Dalhousie, and for Doctoral students who have already begun their studies here, but who do not hold Killam scholarships.

A first round of offers is now made to top candidates immediately following the meetings of the selection committees: a wait list is sent to Graduate Coordinators for information. A second round of offers is made to applicants after Tri-Council results are learned.

The Killam committee was broken down into a Level 1 (Master's) committee (Jack Mitchell, Classics; Leonard Diepeveen, English; Jan Haelssig, Process Engineering and Applied Science; Sara Kirk, Health and Human Performance; Ruben Zaiotti, Political Science) and a Level 2 (Doctoral) committee (Cathy Too, Biochemistry and Molecular Biology; Phillip Zachernuk, History; Kamal El-Sankary, Electrical and Computer Engineering; Theodore Kolokolnikov, Mathematics and Statistics; T. Alexander Quinn, Physiology and Biophysics; Ian Folkins, Physics and Atmospheric Science). Committee members reviewed and rated only their specific files and submitted their individual rankings to FGS to be collated. These initial rankings were then considered at meetings of the Committees held on April 7, 2015, chaired by the Associate Dean. In all, 115 nominations were received (49 Level 1 nominations and 66 Level 2 nominations). From the ranked list, 35 new Killam scholarships were offered, 14 at Level 1 and 22 at Level 2. Currently there are four Master's and seven Doctoral nominations wait listed.

For comparison, in the competition held in February 2014, 90 nominations were received (44 Level 1 nominations, and 46 Level 2 nominations), and 37 new scholarships were offered (14 Level 1, and 23 Level 2).

Killam Trustees: George Cooper, Kevin Lynch, Jim Dinning, John Montalbano

Dalhousie Killam Administrator: Danielle Pottie

MacKenzie King Scholarships

These scholarships are intended to provide support for graduates of Canadian universities to pursue study at the graduate level in any discipline at any location (the “open” scholarship) or specifically in the areas of international or industrial relations in the United Kingdom or the United States (the “traveling” scholarship).

A Committee consisting of Marty Leonard and Dieter Pelzer reviewed two applications for the March 2015 open and traveling scholarship competitions. The Committee recommended that two open applications (no traveling applications were submitted to Dalhousie) be forwarded to the University of British Columbia for consideration by the MacKenzie King Scholarship Selection Committee.

Results from this competition weren’t known at the time this report was prepared.

Last year (in the competition held February 2014), four applications were received, of which two open and no traveling applications were forwarded to the University of British Columbia for consideration by the MacKenzie King Scholarship Selection Committee. Dalhousie students were not awarded any scholarships.

Eliza Ritchie Doctoral Scholarship for Women

The Eliza Ritchie Doctoral Scholarship is an entrance scholarship which was established in 1985 to commemorate Women’s Centennial Year. It is named in honor of Eliza Ritchie, a Dalhousie graduate (1887) who went on to become one of the first Canadian women to receive a PhD degree (Cornell, 1889). The purpose of the scholarship is to attract outstanding female students to PhD programs at Dalhousie. Departments may nominate Canadians and permanent residents for the scholarship. It is awarded, as a first criterion, based upon high academic standing and promise. Among applicants of otherwise equal achievement, preference is given to candidates from the Atlantic Provinces and to those seeking entry into programs in which women are underrepresented.

A selection committee consisting of Marty Leonard, Dieter Pelzer and Eileen Denovan-Wright met to review the applications for the March 2015 competition. There was one new award and one renewal scholarship offered.

Last year (in the competition held March 2014), there was one new award and one renewal scholarship offered.

James Robinson Johnston Scholarship for African Canadians

The James Robinson Johnston Scholarship is an entrance scholarship that was established in 1996 to provide support for African Canadian students to undertake graduate studies at both the Master's and Doctoral levels. It is named in honor of James R. Johnston, the first member of the Nova Scotian African Canadian community to graduate in Law from Dalhousie University (1898).

A selection committee consisting of Kevin Hewitt, Physics and Atmospheric Science; Afua Cooper, James Robinson Johnston Chair; and Joyline Makani, Killam Library met to review the applications for the 2014 competition. There was one new award offered and accepted.

Nova Scotia Black and First Nations Graduate Entrance Scholarships

The objective of the Nova Scotia Black and First Nations scholarships is to increase the representation of Nova Scotia Black and First Nations students in the university's wide diversity of graduate programs, and ultimately in the academy and in advanced professional occupations. The graduate program may be at the Master's or Doctoral level, and may include professional, course-based and thesis-based programs.

In 2014, Dalhousie University received three new applications and two renewal applications. Two new and two renewal scholarships were awarded. Kevin Hewitt, Physics and Atmospheric Science, Afua Cooper, James Robinson Johnston Chair and Joyline Makani, Killam Library reviewed the applications for the May 2014 competition.

The next competition deadline is May 15, 2015.

Phi Kappa Pi Joe Ghiz Memorial Award

This is an annual award given to a student enrolled in a graduate degree program at Dalhousie University.

A prize of \$750 is awarded to a student studying at the Master's or Doctoral level, in any discipline at Dalhousie University. The student must have a first-class standing (GPA 3.7/4.3) or higher in the last two years of previous study (graduate and/or undergraduate) and demonstrate both community involvement and university life involvement.

In October 2014, Dalhousie University received five new applications. One award was made. Dieter Pelzer and Marty Leonard reviewed the applications.

The Sushi Nami Royale Graduate Scholarship

The Sushi Nami Royale Graduate Scholarship is an annual scholarship of \$1,000 that will be awarded to a first year Master's student or second year Doctoral student with first-class academic standing. Preference will be given to an international student who is studying in an area related to the food industry, including distribution, management, regulations and policy, or processing.

In October 2014, Dalhousie University received four new applications. One new scholarship was awarded. Dieter Pelzer and Marty Leonard reviewed the applications.

The donation from Sushi Nami Royale has ended, so 2014 was the last year for this competition.

A.S. Mowat Prize

The A.S. Mowat Prize was established in 1984 and was created with gifts from numerous donors. Contributions were received from alumni and staff who worked and studied under Professor Mowat. The purpose of the A. S. Mowat Prize is to perpetuate the memory of Alexander S. Mowat who, as the O.E. Smith Professor of Education, served for thirty years (1939-1969) as chairman of the Department of Education at Dalhousie University; and to commemorate Professor Mowat's contribution to education in Nova Scotia.

The A. S. Mowat Prize was established to provide a prize of \$1,500 to recognize outstanding achievement by a student who is in their first year of a Master's program in any discipline at Dalhousie University.

In April 2015, Dalhousie University received two new applications. One prize was awarded. Marty Leonard, and Dieter Pelzer reviewed the applications.

The Vitamin Scholarship

The Vitamin Scholarship was enabled by an endowment created by the settlement of a court case, in which the companies involved agreed to allocate resources to vitamin research in Canadian universities. The Vitamin Scholarship was established for activities related to vitamin products such as food and nutritional research or education, food related programs, and/or consumer services or consumer protection activities. This scholarship is for one year at the Master's level and Doctoral level, and is renewable for one additional year. The award must be taken up upon commencing the first year of the degree program and is worth \$19,000 (Master's) and \$21,000 (Doctoral) for a twelve-month academic year.

Unfortunately, the Vitamin Scholarship competition has not been held since 2008 as the endowment fund has not earned sufficient income to offer the scholarship. This award will be offered in the next academic year.

Walter C. Sumner Memorial Fellowships for Doctoral Studies in Chemistry, Physics, Electrical Engineering or Computer Science

This Committee is responsible for preparing a ranked list of applicants, which is then forwarded to the Sumner Foundation for consideration for awards. The committee consisted of Qigang Gao, Computer Science; Ian Hill, Physics and Atmospheric Science; and Craig Lake, Electrical and Computer Engineering, and is chaired by Dieter Pelzer.

To be eligible for these fellowships, applicants must be pursuing or intending to pursue Doctoral studies in the fields of chemistry, physics or electronics. Candidates are required to have a degree from a Canadian university other than the one at which Doctoral studies are to be undertaken. In descending order, preference is given to qualified applicants who are: 1) native to Nova Scotia, 2) native to one of the other three Atlantic Provinces, and 3) native to any other province of Canada.

In February 2015, the Committee considered seven applications for new awards and three for renewal. Committee members ranked the applications prior to meeting. The ranked lists from each member were collated by FGS. The files were forwarded to the Foundation. At the time of this report, final results of this competition were not received from the Sumner Foundation. In last year's competition (2014-15), Dalhousie was awarded four new Fellowships and four renewals.

Natural Sciences and Engineering Research Council (NSERC) Postgraduate Scholarships

Two NSERC Scholarship Committees are involved in determining which applicants will be recommended and offered scholarship funding from the Natural Sciences and Engineering Research Council. The NSERC Doctoral Committee consisted of Sophia Stone, Biology; Michael Lee, Biomedical Engineering; Aaron Newman, Psychology and Neuroscience; and Stanimir Bonev, Physics and Atmospheric Science. The NSERC Master's Committee consisted of Rob Jamieson, Civil and Resource Engineering; Robert Rose, Physiology and Biophysics; Keith Johnson, Mathematics and Statistics; Patricia McMullen, Psychology and Neuroscience; Srinivas Sampalli, Computer Science; and Mark Stradiotto, Chemistry. Both committees were chaired by Dieter Pelzer. See Table 5.

For the Doctoral competition, each committee member read and rated 43 applications before the final meeting, held on November 18th, 2014, at which a ranked list to be forwarded to NSERC was produced. A total of 37 applications were recommended for consideration of NSERC scholarships in the 2014-15 competition. Fourteen Doctoral scholarships (nine PGS-D, and five CGS-D) were awarded to Dalhousie University.

For the Master's competition, a new system was introduced in 2013. The Tri-Council harmonized the NSERC, SSHRC and CIHR Master's competition in to one competition. The new online system had a deadline of December 1, 2014 and Universities were given a quota and were able to offer the awards internally. The new system also allowed students to apply to up to five Universities. Dalhousie received 157 applications for the NSERC portion of this competition. We were able to offer 30 awards. The Committee met on March 17, 2015, to rank the top 30 candidates and wait list 25 other candidates.

The NSERC Industrial Postgraduate Scholarship (IPS) program is relatively small in comparison to the PGS and CGS programs, but IPS applications from Dalhousie students have had a very high success rate and have allowed for the building of valuable linkages between university researchers and local or national companies. The value of these awards is \$21,000/year for 1, 2 or 3 years, including \$15,000 from NSERC and a minimum of \$6,000 from the industrial sponsor. Students apply individually for IPS awards, and need to have established an agreement with an industrial sponsor of their project. Part-time students are eligible for NSERC IPS awards. In addition, NSERC requires well-defined contractual and IP agreements between the student, supervisor(s), university, and the participating company. This requires a close coordination between the student and academic supervisor, the cooperating industrial organization, and FGS. Currently in the 2014-15 academic year, Dalhousie has 11 active NSERC IPS awards. Applications are accepted and considered by NSERC staff at any time. Once the full application is received by NSERC, the decision usually is made within 6-8 weeks, and the award can be taken retroactively to the beginning of the academic term if needed.

Social Sciences and Humanities Research Council (SSHRC) Scholarships

Two SSHRC Scholarship Committees are involved in determining which applicants will be recommended for and offered scholarship funding by the Social Sciences and Humanities Research Council. The SSHRC Doctoral selection committee consisted of Lyn Bennett, English; John Cameron, International Development Studies, Ruben Zaiotti, Political Science; and Michael Fournier, Classics. The SSHRC CGS Master's award committee consisted of William Barker, King's College/English; Darren Abramson, Philosophy; Maria Jose Gimenez, Spanish; Michael Fournier, Classics; Colin Mitchell, History; and Emma Whalen, Sociology and Social Anthropology. Both committees were chaired by Dieter Pelzer.

A total of 28 applications for SSHRC Doctoral scholarships were reviewed by each member of the Committee prior to its meeting. Individual rankings were submitted to the FGS office where they were collated and distributed to members at a meeting held on December 22, 2014. The initial rank-ordered list was discussed and two final, alphabetical lists – an "A" list consisting of applicants ranked in the top 20

positions, and a “B” list comprising all the rest – were prepared and sent forward. Dalhousie was awarded two CGSD and four SSHRC Doctoral scholarships in the 2015 competition. Last year, five CGS-D scholarships and six SSHRC Doctoral scholarships were awarded. See Table 5.

For the Master’s competition, a new system was introduced in 2013. The Tri-Council harmonized the NSERC, SSHRC and CIHR Master’s competition in to one competition. The new online system had a deadline of December 1, 2014 and Universities were given a quota and were able to offer the awards internally. The new system also allowed students to apply to up to five Universities. Dalhousie received 114 applications for the SSHRC portion of this competition. We were able to offer 20 awards. The Committee met on March 16, 2015, to rank the top 20 candidates and wait list 23 other candidates. See Table 5.

Canadian Institute of Health Research (CIHR) CGS–M and CGS – D Scholarships

The CIHR CGS-M committee consisted of Bill Baldrige, Medical Neuroscience; Susan Kirkland, Community Health and Epidemiology; Lois Jackson, Health and Human Performance; Tim Lee, Microbiology and Immunology; and Paul Murphy, Physiology and Biophysics; and was chaired by Dieter Pelzer.

For the Master’s competition, a new system was introduced in 2013. The Tri-Council harmonized the NSERC, SSHRC and CIHR Master’s competition in to one competition. The new online system had a deadline of December 1, 2014 and Universities were given a quota and were able to offer the awards internally. The new system also allowed students to apply to up to five Universities. Dalhousie received 73 applications for the CIHR portion of this competition. We were able to offer 14 awards. The Committee met on March 16, 2015, to rank the top 14 candidates and wait list 12 other candidates.

This year FGS was required to electronically sign off on all CIHR Doctoral applications that were being submitted by Dalhousie students. This enabled us to keep better records on this process. In the 2014-15 competition 24 applications were submitted and eight awards were offered to Dalhousie students. Refer to table 5.

Vanier Canada Graduate Scholarships

The Vanier CGS program was announced in September 2008. The aim of the program is to attract and retain world-class Doctoral students by supporting students who demonstrate a high standard of scholarly achievement in graduate studies in the Social Sciences and Humanities, Natural Sciences and Engineering, and Health; as well as leadership skills. Both Canadian and international students are eligible to be nominated for a Vanier CGS. A Vanier CGS is valued at \$50,000 per year, for three years.

A triennial nomination allocation is assigned to each eligible university. This allocation to Dalhousie University for the 2010–12 period included: NSERC 16, CIHR 16 and SSHRC 11. For the 2013-15 period the Dalhousie allocation is: NSERC 15, CIHR 16 and SSHRC 9. Considering the number of nominations and the interest in this program to date, it appears that Dalhousie University will be unable to fill its nomination quota for the second triennial period in a row. Programs are encouraged to identify outstanding, preferably external and international candidates early and work closely with FGS to produce a highly competitive nomination.

Nominees are evaluated and selected based on the following three criteria, which will be weighted equally by the peer review committees. Until this year, the final selection of awardees by the board was based solely on the leadership component (referee letters, university nomination letter and applicant’s self-assessment of leadership potential and ability) of the applications. This year, successful applicants were selected on all three peer-review criteria. Increased emphasis was also placed on student mobility and recruitment.

Peer review selection criteria:

- Academic excellence, as demonstrated by past academic results and by transcripts, awards and distinctions.
- Research potential, as demonstrated by the candidate's research history, his/her interest in discovery, the proposed research and its potential contribution to the advancement of knowledge in the field, and the potential benefit to Canadians and any anticipated outcomes.
- Leadership (potential and demonstrated ability), as defined by the following qualities: personal achievement, involvement in academic life, volunteerism/community, outreach, civic engagement.

The SSHRC Vanier nomination committee consisted of Robert Summerby-Murray (Dean, Faculty of Arts and Social Sciences) and Krista Kesselring (Associate Dean, Faculty of Arts and Social Sciences). FGS received five applications and two applications were forwarded onto SSHRC. Dalhousie was not successful in receiving a SSHRC Vanier CGS scholarship.

The NSERC Vanier nomination committee consisted of Marty Leonard (Dean, FGS, Biology) and Sandra Walde, Biology. FGS received four applications and two were forwarded on to NSERC. Dalhousie was not successful in receiving a NSERC Vanier CGS scholarships.

The CIHR Vanier nomination committee consisted of Dieter Pelzer (Associate Dean, FGS, Physiology and Biophysics), Eileen Denovan-Wright (Associate Dean, FGS, Pharmacology). FGS received five application and one was forwarded onto CIHR. Dalhousie was not successful in receiving a CIHR Vanier CGS scholarships.

Trudeau Foundation Doctoral Scholarship

Each year, the Pierre Elliott Trudeau Foundation rewards up to 15 outstanding Doctoral candidates who are enrolled or about to be enrolled in a Social Sciences and Humanities program and who are doing research in areas related to their four themes. This award has continuously attracted the very best scholars in the Social Sciences and Humanities, individuals with a passion for public engagement and who are likely to become leading national and international figures.

The Trudeau Foundation Doctoral Scholarship is tenable for up to four years. The award consists of an annual stipend of \$40,000, which is intended to cover the cost of tuition and reasonable living expenses, and a \$20,000 annual travel allowance, which is available to support research-related travel and to cover networking expenses associated with the Foundation's Public Interaction program.

Dalhousie University, upon recommendation from a selection committee, consisting of Kim Brooks, Marty Leonard, and Robert Summerby-Murray, nominated three students in the 2015 Trudeau Foundation Doctoral Scholarship competition. The applications were not successful.

In the 2014 competition, Dalhousie nominated two students for a Trudeau Scholarship. Neither application was successful.

Canada Graduate Scholarship – Michael Smith Foreign Study Supplements (CGS-MSFSS)

The Government of Canada launched this program in 2008 to support high-calibre graduate students in building global linkages and international networks through the pursuit of exceptional research experiences at research institutions outside of Canada. By assessing international scientific research and training, CGS-

MSFSS recipients will contribute to strengthening the potential for collaboration between Canadian and international universities and affiliated research institutions. This award is valued at \$6000.

In June 2014, Dalhousie submitted two applications for NSERC CGS-MSFSS. These applications were successful. The applications were reviewed by Dieter Pelzer.

In October 2014, Dalhousie submitted one application for CIHR CGS-MSFSS and it was successful. The application was reviewed by Dieter Pelzer.

In October 2014, Dalhousie submitted one application for SSHRC CGS-MSFSS and it was successful. The application was reviewed by Dieter Pelzer.

Nova Scotia Health Research Foundation (NSHRF)

The Scotia Scholarship is a funding opportunity that is available under NSHRF's Research Trainee Funding Program. The Scotia Scholarship is intended to provide financial support to high caliber trainees engaged in health research-related academic study at Nova Scotia universities. The goal of the Scotia Scholarship is to support the development of the next generation of highly qualified health researchers and leaders in the Nova Scotia health research enterprise. Scotia Scholarship funded applicants have the distinct honour to carry the designation of Scotia Scholar.

Specifically for Scotia Scholarships, NSHRF considers research trainees to be: students enrolled at Nova Scotia universities who are completing thesis-based degree programs at the Master's and Doctorate levels or honours based degree programs at the Undergraduate level at institutions that do not offer graduate level thesis-based degree programs.

The applications for the 2015 NSHRF Master's competition were reviewed by Yukiko Asada, Community Health and Epidemiology; Kevin Duffy, Psychology and Neuroscience; and Susan Howlett, Pharmacology. The applications for the 2015 NSHRF Doctoral competition were reviewed by Valerie Chappe, Physiology and Biophysics; John Kozey, Biomedical Engineering; and Richard Singer, Biochemistry and Molecular Biology. Dieter Pelzer chaired both committees.

In April 2015, the NSHRF held a Master's and Doctoral Scotia Scholar competition. Dalhousie received 76 applications (44 for Master's and 32 for Doctoral). Nine masters and nine PhD's have been awarded.

Dalhousie received all the awards for applications submitted to NSHRF in the 2014 competition.

The Scotia Support Grant is modeled after the NSERC CREATE and CIHR STIR programs of indirect student support. The competitive, peer reviewed funding opportunity will run every two years and is open to researchers/supervisors. The purpose of the Scotia Support Grant is to:

- Support additional training opportunities within vibrant and productive research programs;
- Enable funded researchers/supervisors to recruit the level and number of research trainees needed to enhance their programs of research;
- Provide flexibility for all levels of academic trainees to be engaged within Nova Scotia based research programs that are generating knowledge relevant to the NSHRF health research priority areas; and
- Contribute to the sustainability of local research programs that have the potential to impact and improve the health of Nova Scotians, while also training tomorrow's health researchers.

2. The Killam Postdoctoral Fellowships

The Killam Postdoctoral Fellowship Committee is responsible for recommending candidates to receive new Killam Postdoctoral Fellowship awards and for establishing a wait list.

Committee membership: Roman Smirnov (Mathematics and Statistics); Jerry Bannister (History); Kamal El-Sankary (Electrical and Computer Engineering), Howard Ramos (Sociology and Social Anthropology), Dominic Groulx (Mechanical Engineering) and Brad Meisner (Health and Human Performance). The committee was chaired by Dieter Pelzer (Associate Dean, FGS).

Killam Trustees: George Cooper, Kevin Lynch, Jim Dinning, John Montalbano

Dalhousie Killam Administrator: Danielle Pottie

A total of 27 applications were submitted by 21 departments for this year's competition: 13 from women and 14 from men, together representing 15 different countries. Each member of the Committee reviewed all of the applications and established a ranking list that was submitted to the Faculty office before a meeting was held on February 23, 2015. At that meeting, the collated rankings of committee members were used in conjunction with each individual's scores, as a basis for discussion. As a result of their deliberations, the Committee recommended four offers to the Dean and Killam Trustees.

The four initial offers were accepted (Caroline Fox, Oceanography; Ariane Hanemaayer, Sociology and Social Anthropology; Nicholas DiRenzo, Psychology; Catherine Mottram, Earth Sciences).

Table 6 outlines, for the given year, the distribution by discipline of new and renewed Killam Postdoctoral Fellowships held during the period indicated.

3. Banting Postdoctoral Fellowships

In July 2010, the Canadian government announced the establishment of the Government of Canada's Banting Postdoctoral Fellowships, a prestigious new program to attract and develop the world's best and brightest postdoctoral researchers in Canada. Under that program, 70 new fellowships are to be awarded each year, with funding provided through the Canadian Institutes of Health Research, the Natural Sciences and Engineering Research Council, and the Social Sciences and Humanities Research Council. Fellowships are \$70,000 per year (taxable) and are tenable for two years.

An application to the Banting Postdoctoral Fellowships Program is actually a nomination from the University, with important roles for the supervisor, the department, and the Faculty of Graduate Studies acting for the University. The Dalhousie Banting Postdoctoral Fellowships Committee is responsible for recommending candidates to be nominated by the University.

Committee membership: John Newhook (Associate Vice-President, Research), Dieter Pelzer (Associate Dean, FGS) and Marty Leonard (Dean, FGS), Eileen Denovan-Wright (Associate Dean, FGS). The committee was chaired by Dieter Pelzer.

There were five applications submitted for this year's competition. Each member of the committee reviewed all of the applications and established a ranking list which was submitted to the Faculty office. It was determined that one application would be nominated by the University. Dalhousie was not successful in receiving a Banting Postdoctoral Fellowship.

4. Academic programs

Concept papers, new graduate programs and major program modifications need approval at various stages, starting with the home Faculty, FGS, Senate, Board of Governors, Maritime Provinces Higher Education Council (MPHEC), and, for health or health-related programs, the Atlantic Advisory Committee on Health Human Resources (AACHHR). The review by FGS normally includes a report from an internal review committee and from at least one external expert. For new programs, a site visit of the external is required. Minor program modification proposals must be submitted to the Academic Planning and Curriculum Committee (APCC) of FGS for approval. A degree name change, which does not affect degree requirements, existing academic program content and has no resource implications requires the completion of the Modified Program Proposal form, and approval by APCC and Faculty Council of FGS. A request to suspend/terminate a program must be made when it is intended that students no longer be admitted into the program and for the permanent removal of the program from the institution's offerings. The Program Termination Proposal form should be used. Proposals to suspend/terminate, if approved by the home Faculty, require approval by APCC and Faculty Council of FGS. Name changes and proposals to suspend/terminate a program also require approval by SAPRC/Senate (SCAA in case of name changes), the Board, MPHEC, and AACHHR (if it meets the criteria of a health or health-related program). Please note that since the beginning of 2013, MPHEC has revised its forms and information requirements for new programs and all other program changes. These forms, all pertinent information requirements and a clear outline of the process governing each change can be found at the Senate (http://www.dal.ca/dept/university_secretariat/program-proposals.html) and MPHEC (<http://www.mphec.ca/quality/PubliclyFundedInstitutions.aspx>) websites. A flow chart summarizing the processes can be found in appendix 5.

For further information on the MPHEC program assessment process, including detail on the criteria used, please refer to the full policy document, *Academic Program Assessment Prior to Implementation at:* (<http://www.mphec.ca/quality/assessmentacademicprograms/publiclyfundedinstitutions.aspx>).

Units planning to develop new graduate programs are strongly advised and encouraged to consult with FGS and Kim Thomson, Office of the Vice-President Academic and Provost (494-2591 or kim.thomson@dal.ca) at a very early stage

In 2014-2015 the following program concept papers, new program proposals and program modifications were reviewed in FGS.

Concept papers:

- Master of Science in Business (revisions requested by APCC)

New program proposals (at various stages of review):

- PhD in Agriculture (concept paper approved – awaiting full proposal)
- Master of Science and PhD in Medical Physics (approved by MPHEC)
- Certificate in Medical Physics (approved)
- PhD in Health (approved by MPHEC)
- PhD in Epidemiology and Applied Health Research (approved by MPHEC)
- Master of Science in Psychiatry (under review)
- Master of Science in Nursing (under review)
- Public Administration (Management) graduate diploma (approved by FGS and forwarded to SAPRC)

Major program modifications:

- Major Modification to the Master of Planning Studies – remodeling program to emphasize the research nature of the program and to decrease the number of required courses (approved by SAPRC on behalf of Senate)
- Proposal for the Major Modification to the Master of Business Administration (Financial Service) - name change, broadening of the professional experience requirements, expanding the number of elective courses offered (approved by FGS Faculty Council and forwarded to SAPRC)
- Proposal for the Major Modification to the Master of Public Administration (Management) Program – reduction of required courses, introduction of a mandatory/elective structure, introduction of a graduate diploma option (approved by FGS and forwarded to SAPRC)
- Proposal for the Major Modification to the Master of Arts in French - Introduction of a non-thesis stream (under review)
- Proposal for the Major Modification to the Master of Applied Computer Science Program – addition of co-op stream and an entrepreneurship stream (under review)
- Proposal for the Major Modification to the Master of Nursing Program – removal of thesis stream, and restructuring of the Health Policy Practicum stream (under review)

Minor program modifications and change of degree names and degree designations:

- Master of Science in Physiology and Biophysics – reduction to number of required courses (approved by APCC)
- Master of Fine Arts - Change to admission requirement (Prior Learning Assessment) (approved by APCC)
- Master of Science in Periodontics – adjustment to start of program (approved by APCC)
- Master of Science in Physiotherapy (Rehabilitation Research Program) - reduction to number of required courses (approved by APCC)
- Clinical Psychology PhD Program - change to required classes (approved by APCC)
- Master of Marine Management – change title, credit hours and academic content of MARA 5004 (approved by APCC)
- Master of Journalism - in order to be combined with the JD (approved by APCC)

Program terminations:

- Diploma in Prosthodontics and Master of Applied Science in Biomedical Engineering (approved by APCC and SAPRC)
- Master of Science in Prosthodontics (approved by APCC and SAPRC)

Program suspension: Admission to this program is suspended. The program will continue to be delivered to any current students until all students have graduated, or the time allowed for program completion has elapsed, or all students have left the program.

- Master of Social Work – two-year suspension of admission to the two-year stream (approved by APCC and SAPRC)

FGS is responsible for academic reviews of its graduate programs. In the case of departments in the Faculty of Arts and Social Sciences and the Faculty of Science these reviews are carried out jointly with departmental reviews on a 7-year cycle. In other faculties FGS reviews are also carried out, wherever feasible, in combination with various faculty-based reviews, or as post-accreditation reviews. Reviews of graduate programs in the Faculty of Medicine are combined with first-term headship surveys or surveys/searches on a 5-year cycle. For joint reviews, FGS appoints one or two members to the review committee. For FGS reviews, internal review committees can consist of two to four members (normally three), and at least one external reviewer is asked to visit the unit. Following receipt of the review reports and response from the unit under review, the conclusions of the review are discussed in a meeting of Faculty Council.

Reviews for the following graduate programs have been completed since April 2014:

- Department of Community Health and Epidemiology (1st Term Survey Report – Joint with the Faculty of Medicine) (rated as satisfactory by FGS Faculty Council, with request for follow-up in 24 months)
- Department of Pathology (Survey Report – joint with Faculty of Medicine) (rated as satisfactory by FGS Faculty Council)
- Department of Mathematics and Statistics Review Update (FGS Faculty Council accepted the review update)
- Department of Political Science Review Update (FGS Faculty Council accepted the review update)
- Department of Sociology and Social Anthropology (joint with Faculty of Arts & Social Sciences) (rated as satisfactory by FGS Faculty Council)
- Department of Earth Science Review Update (FGS Faculty Council accepted the review update with a request for their completed handbook to be submitted to FGS Faculty Council within 12 months)
- Department of Economics (joint with Faculty of Science) (FGS Faculty Council accepted the review update)
- Interdisciplinary PhD Program (rated as satisfactory by FGS Faculty Council)

Reviews for the following programs are in various stages of progress:

- Department of Physics and Atmospheric Science (joint with the Faculty of Science)
- Department of Chemistry (joint with the Faculty of Science)
- Department of Microbiology and Immunology (joint with Faculty of Medicine) (1st Term Survey & 2nd Term Survey/Search Committee)
- Department of History (joint with the Faculty of Arts & Social Sciences)
- Department of Philosophy (joint with the Faculty of Arts & Social Sciences)
- Faculty of Law (joint between Faculty of Law and FGS)
- Faculty of Engineering (joint with Senate)
- Department of Oceanography (joint with the Faculty of Science)
- Department of German (joint with the Faculty of Arts & Social Sciences)
- Faculty of Computer Science (joint with Senate)

Programs that are subject to accreditation reviews by external agencies typically have a review cycle of 5 years. For such programs, FGS can decide to use a “post-accreditation” review of academic issues and issues internal to the university, normally relying on the accreditation report submitted by external reviewers as the FGS external review.

5. Curriculum matters

Issues related to the graduate curriculum, including new courses, cross-listings, and changes to class titles, prerequisites and numbers, are reviewed and approved by the Faculty's Academic Planning and Curriculum Committee at its monthly meetings.

For the period between May 2014 and April 2015, APCC considered and approved the following:

New Classes.....	31
Cross Listings.....	5
Minor Changes*	36
Removals.....	64

** This includes such items as title and number changes, changes to prerequisites, and changes in course descriptions or delivery method.*

Acknowledgements

The generous support of the Killam Trusts, the Mackenzie King Scholarship Board of Trustees, and the Walter C. Sumner Foundation is gratefully acknowledged.

The members of the various committees which serve on behalf of the Faculty express their thanks to the staff of Graduate Studies for their support and guidance.

Dieter Pelzer, Associate Dean
May 7, 2015

Associate Dean – Postdoctoral Fellows, Defences, & Academic Integrity

1. Postdoctoral Fellows—General

Currently, there are 169 postdoctoral fellows (PDFs) at Dalhousie including 152 PDFs associated with faculties in Halifax and nine PDFs associated with the Faculty of Agriculture in Truro. In addition, there are eight Dalhousie-affiliated PDFs at the IWK.

The recommended minimum stipend for PDFs across the university has been raised to 36,000. In 2014, the mean annual salary for grant paid PDFs was ~44,140 per annum (median 44,000). This average salary reflects PDF salaries across faculties and levels of experience. In 2014, the value of CIHR and NSERC fellowships were 45,000 per annum, and SSHRC postdoctoral fellowships were valued at \$40,500 per annum.

Starting Stipends for New Postdoctoral Fellows*

	2011	2012	2013	2014	2015
New Postdoctoral Fellows	59	24	74	96	53
Average Stipend	42,340	42,000	42,937	43,953	45,119
Minimum Stipend	26,500	35,000	30,800	25,220	33,000
Minimum Stipend Earners	1	1	1	1	1
Stipend Earners < 35,000	5	0	3	5	1
Maximum Stipend	75,000	60,000	100,000	70,000	69,000
Maximum Stipend Earners	1	2	1	1	1

* Killam Postdoctoral Fellows are not included in these figures.

On October 10th, 2014, Dalhousie celebrated its fifth Postdoc Research Day. It was attended by 70 individuals. The theme of the 2014 PDF research day was “Postdoctoral Fellowship in Academia and Industry: Changes in the Research Landscape.” The morning had 3 minute oral presentations from postdoctoral fellows, as well as poster presentations. The keynote address in the afternoon was delivered by Dr. Paula Stephan from the Andrew Young School of Policy Studies at Georgia State University. Dr. Stephan’s address was entitled “The Economics of the Postdoctoral Position.” A video recording of Dr. Stephan’s address was made accessible to the university community following the event, and has since been viewed 60 times. This was followed by a panel discussion featuring Dr. Paula Stephan, as well as three representatives from industry and one from MITACS. The panel’s industry members included representation from the Research area of the Capital District Health Authority and IWK Health Centre, the Canadian Association of Postdoctoral Scholars (CAPS), and Mindful Scientific.

The unionization of Postdoctoral fellows became official in October 2014. This has resulted in the creation of two categories of postdoctoral fellows at Dalhousie. The first category is for postdoctoral fellow employees represented by the PSAC union. PDF employees are those who are paid by a Dalhousie grant holder (principal investigator/supervisor), and these PDFs contribute to EI and CPP. Postdoctoral fellow scholars are the second category, and these PDFs are excluded from the PSAC union. PDF Scholars have secured external funding in their own name (such as Tri-Council, MITACS, Banting etc.), and do not contribute to EI and CPP. FGS has been working closely with Human Resources to address these changes. The diversity among universities and barriers for PDFs to receive benefits continues to be a matter of discussion nationally, and is particularly impactful upon Dalhousie’s category of PDF Scholars.

2. Theses and Defences

All Master's and Doctoral graduate theses are prepared according to the Faculty of Graduate Studies (FGS) Regulations for thesis preparation and submission. FGS is responsible for ensuring that all theses conform to these regulations, as well as standards outlined by Library and Archives Canada. FGS completes format checks for all theses and accepts theses once complete. Thesis submission is made electronically via the electronic university repository DalSpace and submissions are made public within one week of acceptance unless a thesis embargo request has been received prior to submission. From the period of May 1, 2014 to April 30, 2015, FGS accepted 344 Master's theses and 90 Doctoral theses. Last year, several important changes were made to the forms and procedures for thesis approval and submission that have made the process comprehensive but simple and adaptable to best serve students, thesis supervisors and examiners.

Doctoral defences for all programs are organized through the Faculty of Graduate Studies. FGS is responsible for approving and formally inviting external examiners and arranging for the venue and chairperson for the examination. From May 1, 2014 to April 30, 2015, 90 PhD oral defences were conducted. This number, when compared to 98 and 115 defences held over the previous two academic time periods indicates a decrease in the number of oral defences.

The designated room for PhD defences is the Coburg Board Room. Since this room was opened in October, 2010, 273 PhD defences have been held therein. The Coburg Board Room was designed and equipped to serve PhD defences. In the last year, FGS has implemented policies, procedures and updated equipment to ease facilitation of remote participation at PhD defences. From May 1, 2014 to April 30, 2015, 14 external examiners and 21 readers/thesis supervisors participated remotely at PhD defences. We still use Adobe Connect web-conference as our default mechanism for remote participation.

The number of PhD defences by department is listed in the Table 7. The names of the FGS-appointed chairs from each department that participated in PhD defences for other units are listed in the same table. FGS recognizes the contributions of PhD defence chairs as vital to the independence, objectivity and integrity of the PhD oral defence. Supervisors, readers and departmental representative are also vital to the PhD defence.

3. Academic Integrity

When academic misconduct is suspected, the instructor is to submit a signed statement outlining the basis for the allegation, together with all relevant supporting evidence, to the Academic Integrity Officer (AIO) of the Faculty which is responsible for the delivery of the course at issue, or in the case of an allegation in relation to a graduate thesis or other non-course graduate materials, to the AIO of the Faculty of Graduate Studies.

Between May 1, 2014 and April 30, 2015, the Academic Integrity Officer of the Faculty of Graduate Studies, was contacted regarding two allegations of academic misconduct. Both involved graduate level courses. The professors bringing forth the allegations were referred to the AIOs of the appropriate faculties. There were no allegations of academic misconduct involving graduate theses or non-course graduate matters.

4. Academic Appeals

In its June 2003 meeting, Faculty Council approved the composition of the FGS Academic Appeals Committee of six members and a Reserve Panel consisting of the members of Faculty Council (FC 02/03.82). The six members are elected on a rotating basis, normally for a three-year term. For individual appeal cases, an Appeal Committee of four members (including a graduate student representative) is selected from the Academic Appeals Committee, and when necessary, with members drawn from the Reserve Panel.

During the period May 2014-April 2015, two appeals were received by the FGS office. These appeals were reviewed but did not proceed to the Appeals Committee as they did not meet the criteria required for an appeal to FGS.

I would like to express my gratitude to the members of the Academic Appeals Committee for their willingness to help resolve complex issues involving student rights, jurisdiction and regulation when needed.

Membership 2014-2015

Name	Department	Term End
Bernard Boudreau	Oceanography	2017
Louise Spiteri	Information Management	2016
Martin Gibling	Earth Sciences	2015
Richard Singer	Biochemistry & Molecular Biology	2015
Deborah Tamlyn	Nursing	2015
	DAGS Rep	2015
<i>Reserve Panel:</i>	Members of FGS Faculty Council	

Eileen Denovan-Wright, Associate Dean FGS
May 7, 2015

Interdisciplinary PhD Director's Report

1. Interdisciplinary PhD Program

The Interdisciplinary PhD (ID PhD) program at Dalhousie provides an opportunity for well-qualified students to undertake doctoral studies that transcend traditional disciplinary boundaries by integrating the knowledge bases, approaches, perspectives and insights of discrete academic areas. Begun at Dalhousie in 1984, this program currently has 54 doctoral students enrolled. It is the only PhD program at Dalhousie that is housed within the Faculty of Graduate Studies.

The Interdisciplinary PhD program went through both staffing and structural changes over several years. The position of Associate Dean as director and the position of Coordinator were removed and replaced by the position of Director, who reports directly to the Dean. The Director is currently Dr. William Barker from the Department of English. The Director also serves ex officio as member of FGS Faculty Council and also as a member of Academic Planning and Curriculum Committee.

As Director, Dr. Barker meets annually with all students. Admission procedures retain the relatively stringent four-part structure established the year before and the earlier work of reviewing all student files for consistency in relation to FGS committee and program requirements has been completed.

Since the program does not have faculty of its own, it draws upon faculty members engaged in the program from across campus to ensure the university and FGS standards are met. To this end, there are three committees that run the program:

Admissions Committee: Drs. William Barker, Director and Chair; Jack Duffy (Professor Emeritus, Rowe School of Business Administration); Gordon McOuat (Adjunct Professor, Department of History); Karen Beazley (Environmental Studies, School of Planning), and ID PhD student representative, Matthew Numer.

Appeals Committee: Drs. Peter Tyedmers, Chair (Environmental Studies); Kenneth Rockwood (Medicine); Bill Freedman (Biology); and ID PhD student representative, Sharon Woodill.

Advisory Committee: Drs. William Barker, Director and Chair; Jack Duffy (Professor Emeritus, Rowe School of Business Administration); David Black (Political Science); Raza Abidi (Health Informatics); Anita Unruh (Health and Human Performance); Elaine Toms (Rowe School of Business Administration); Peter Tyedmers (Environmental Studies); and ID PhD student representatives Jennifer Baechler and Matthew Numer.

Overall the program, with all its successes, faces some significant challenges, and these were put front and center in the review. The program was reviewed in the fall of 2014 by a committee consisting of Dr. Michael Shepherd, Dr. Sara Kirk, Dr. Richard Apostle, Dr. Lorn Sheehan, and Mahubur Rahman. The program was also externally reviewed by Dr. Hillel Goelman, Chair, Interdisciplinary Studies Graduate Program, at the University of British Columbia. Both reviews consulted widely as part of their deliberations. Two important issues were raised: 1) current support for and funding of the program and 2) structure of committees for which there may be some changes. Overall, the reviews described the program as an important contribution to graduates at Dalhousie.

It is now confirmed that in the 2013-14 academic year, 34 ID PhD students held scholarships, grants and bursaries (totaling \$726,154) from various funding agencies, including the *Tri-Council Agencies*.

Graduates:

In the period of this report, we celebrated nine successful oral defenses of ID PhD theses.

- **Camilo Ordonez:** *“Urban forests & climate change”*
- **Robert Allan:** *“Phenomenal Exploration of Couple and Family Therapists Learning and Using an Evidence-Based Practice”*
- **Sandra Toze:** *“Group Information Processes: Examining How Student Groups Identify Their Needs, Find and Use Information to Accomplish Complex Tasks and Collaborate”*
- **Leslie Anne Campbell:** *“Understanding the population, health system resource and access effects of colorectal cancer screening in Nova Scotia using simulation modelling”*
- **David Michels:** *“Seeking the will of God: The Information Seeking Experiences of Leaders of Nova Scotia Churches in Transition”*
- **Sharon Woodill:** *“Intelligent Design, Science and Sexual Politics”*
- **Roberto Montiel:** *“Who says I? The self-creation of self-expression and the singular case of Guillermo Cabrera Infante”*
- **Matthew Numer:** *“Health Promotion and Barebacking: A Discourse Analysis of Community Activists Perspectives on HIV Prevention”*
- **Jillian Ashley-Martin:** *“Navigating The Relationship Of The Arts And Public Policy”*

William Barker
Director, ID PhD Program
Submitted May 7, 2015

Table 1

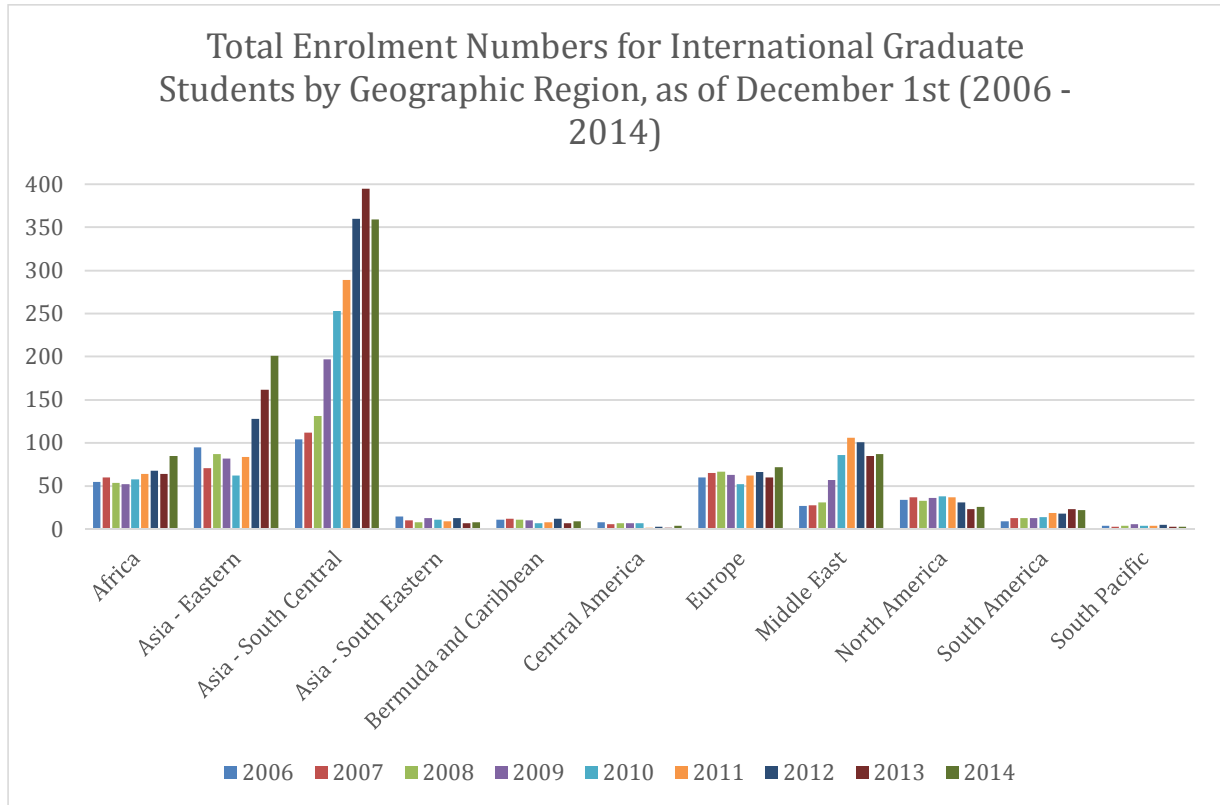


Table 2

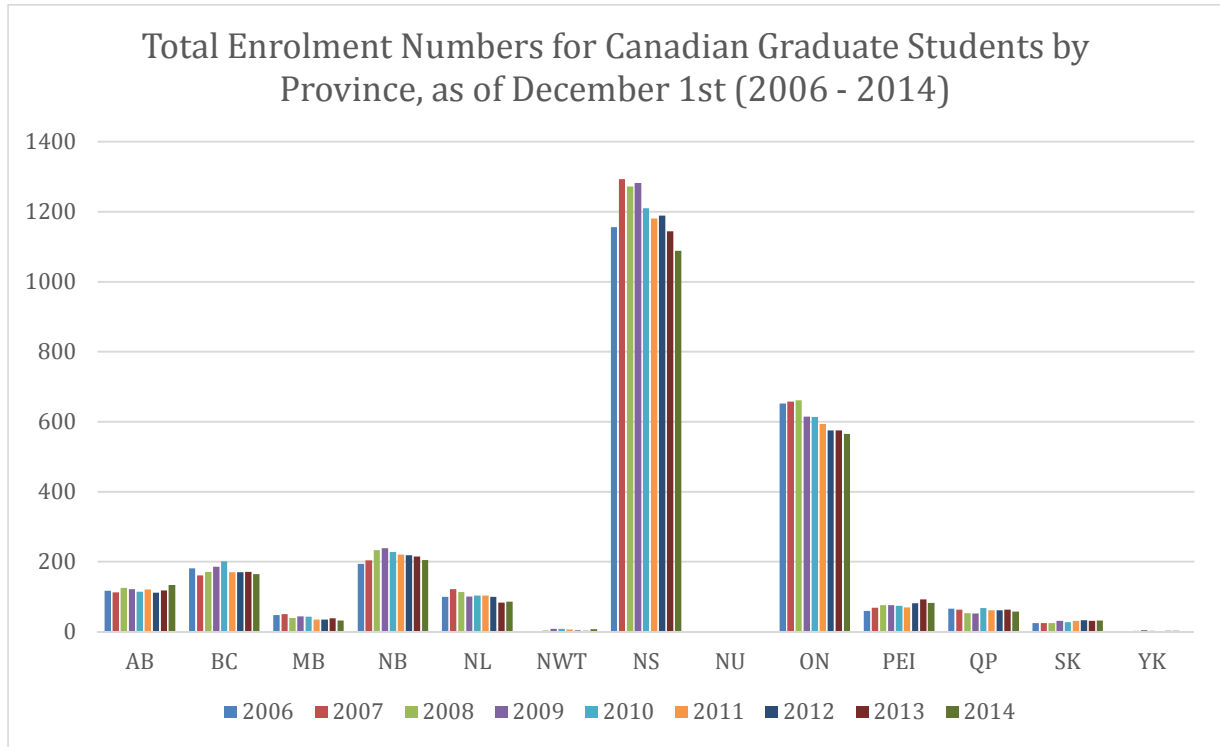


Table 3: Funding sources for Dalhousie graduate students, 2013-2014 ¹
Funding from Dalhousie University Sources

FGS Scholarships <i>Includes: Eliza Ritchie Scholarship, FGS Departmental Allocation, Gillingwater Rainsberry Scholarship/Bursar, NS Black & 1st Nations, Phi Kappa Pi Joe Ghiz Memorial Award, Sushi Nami Royale Scholarship, The Mowat Prize, OZ Optics</i>	\$3,368,600
Bursaries	\$55,760
Departmental Funding	\$1,723,715
Killam Scholarships	\$870,038
President's Awards	\$430,520
Other Internal: <i>Includes: Alumni Graduate Scholarship, Bruce & Dorothy Rosetti, Reid Scholarship, Faculty of Engineering Excellence Award, Duffy Award, Lett Fund Bursary</i>	\$71,651
<i>Total internal sources:</i>	<i>\$6,520,284</i>

Funding from sources external to Dalhousie University

SSHRC (includes Vanier)	\$980,911
NSERC (includes Vanier)	\$2,375,411
Faculty Research Grants	\$11,069,475
CIHR (includes Vanier)	\$487,500
NSHRF (Scotia Scholar)	\$249,589
Sumner	\$40,000
Other External: <i>Includes: Alzheimer's Society, Cargill Food Technology Scholarship, CREATE, CRTP Award, DMRF Evans Scholarship, Douglas M Johnston Scholarship, Electa MacLennan Memorial Scholarship, Exxon Mobil Canada Ltd. Scholarship, Hebb Prize, Isabel Jackson Scholarship, IWK Grad Studentship, Katherine & Robert MacDonald Scholarship, Lew King Scholarship, Margaret Meagher Fund, NSAC, Ontario Problem Gambling Centre, Roda Book Prize, Roy A Jodrey Schp in Law, Trudeau Doctoral Fellowship</i>	\$314,289
Total external sources	\$15,517,175
Total all sources	\$22,037,459

1. Figures as of August 31, 2014. These figures include funding that is awarded for the full academic year (Sept 2013 – Aug 2014).

Table 4: Departmental Allocations

Faculty	2012 Allocation (Sept 12 – Aug 13)	2013 Allocation (Sept 13 – Aug 14)	2014 Allocation (Sept 14 – Aug 15)	2015 Allocation (Sept 15 – Aug 16)
ARCHITECTURE				
Architecture	\$58,084	\$56,967	\$58,575	\$57,688
Planning	\$17,000	\$15,500	\$21,590	\$24,520
TOTAL ARCHITECTURE	\$75,084	\$72,467	\$80,165	\$82,208
COMPUTER SCIENCE				
Computer Science	\$206,954	\$233,063	\$218,561	\$256,961
TOTAL COMPUTER SCIENCE	\$206,954	\$233,063	\$218,561	\$256,961
ENGINEERING				
Civil Engineering	\$98,413	\$98,230	\$96,426	\$93,653
Electrical Engineering	\$91,045	\$99,836	\$87,914	\$97,917
Environmental Engineering	\$3,531	\$2,825	\$2,260	\$1,130
Engineering Mathematics	\$13,115	\$11,852	\$10,866	\$12,083
Industrial Engineering	\$20,230	\$32,684	\$33,675	\$48,078
Mechanical Engineering	\$45,810	\$59,748	\$62,414	\$51,087
Petroleum Engineering	\$6,725	\$6,700	\$14,840	\$27,640
Process Engineering & Applied Science	\$77,315	\$72,352	\$78,061	\$75,951
TOTAL ENGINEERING	\$356,184	\$384,227	\$386,456	\$407,539
FASS				
Classics	\$31,332	\$29,566	\$27,771	\$30,926
English	\$143,934	\$148,147	\$122,720	\$112,480
French	\$31,575	\$23,260	\$19,445	\$21,083
German	\$27,770	\$26,716	\$27,372	\$25,046
History	\$68,904	\$74,623	\$67,628	\$73,574
International Development Studies	\$51,248	\$49,998	\$43,299	\$27,330
Philosophy	\$55,680	\$58,044	\$54,715	\$48,619
Political Science	\$68,005	\$70,904	\$70,051	\$74,786
Sociology & Social Anthropology	\$89,114	\$78,791	\$94,173	\$86,847
Musicology	\$8,448	\$6,758	\$7,266	\$3,633
TOTAL FASS	\$576,010	\$566,807	\$534,440	\$504,324
HEALTH PROFESSIONS				
Clinical Vision Science	\$11,348	\$12,078	\$13,382	\$12,371
Health & Human Performance	\$52,616	\$52,593	\$48,806	\$41,443
Health Services Administration	\$22,775	\$14,000	\$22,100	\$17,040
Human Communication Disorders	\$83,300	\$81,200	\$68,047	\$65,030
Nursing	\$27,975	\$31,920	\$19,936	\$35,768
Occupational Therapy	\$54,880	\$62,784	\$28,696	\$65,394
Pharmaceutical Science	\$4,700	\$3,760	\$6,728	\$9,044
Physiotherapy	\$64,350	\$75,700	\$79,746	\$101,120
Social Work	\$13,625	\$28,800	\$19,760	\$13,250
TOTAL HEALTH PROFESSIONS	\$335,569	\$362,835	\$307,201	\$360,460
LAW				
Law	\$41,030	\$30,304	\$34,563	\$33,852
TOTAL LAW	\$41,030	\$30,304	\$34,563	\$33,852
MANAGEMENT				
Resource and Environmental Studies	\$46,445	\$36,036	\$35,263	\$40,895
Information Management	\$32,650	\$32,000	\$29,118	\$22,200
Marine Management	\$22,075	\$18,600	\$9,920	\$19,850
Public Administration	\$18,825	\$28,400	\$35,616	\$22,200
TOTAL MANAGEMENT	\$119,995	\$115,036	\$109,917	\$105,145
MEDICINE				

Faculty	2012 Allocation (Sept 12 – Aug 13)	2013 Allocation (Sept 13 – Aug 14)	2014 Allocation (Sept 14 – Aug 15)	2015 Allocation (Sept 15 – Aug 16)
Anatomy & Neurobiology	\$41,770	\$38,666	\$42,639	\$41,200
Biochemistry	\$71,690	\$79,852	\$72,461	\$47,591
Community Health & Epidemiology	\$39,905	\$45,424	\$50,425	\$47,933
Microbiology & Immunology	\$95,865	\$88,692	\$84,879	\$73,680
Pathology	\$25,326	\$30,761	\$30,446	\$46,463
Pharmacology	\$59,090	\$63,772	\$69,934	\$54,847
Physiology & Biophysics	\$31,711	\$30,619	\$36,523	\$44,055
TOTAL MEDICINE	\$365,357	\$377,786	\$387,307	\$355,769
SCIENCE				
Biology	\$191,153	\$202,422	\$183,496	\$162,748
Chemistry	\$156,937	\$143,565	\$126,082	\$117,001
Earth Sciences	\$51,384	\$62,107	\$57,195	\$48,478
Economics	\$61,278	\$64,022	\$58,635	\$71,918
Mathematics	\$88,665	\$111,432	\$97,549	\$91,375
Oceanography	\$61,546	\$77,737	\$85,367	\$122,204
Physics	\$125,527	\$131,922	\$116,091	\$104,618
Psychology	\$184,431	\$192,545	\$184,685	\$149,143
Statistics	\$32,450	\$31,960	\$26,057	\$53,672
TOTAL SCIENCE	\$953,371	\$1,017,712	\$935,157	\$921,157
MULTIFACULTY/FGS				
Biomedical Engineering	\$65,966	\$66,297	\$72,751	\$64,776
Electronic Commerce	\$10,925	\$16,700	\$8,420	\$10,160
Health Informatics	\$10,925	\$7,700	\$13,550	\$5,000
Interdisciplinary PhD	\$145,805	\$125,644	\$111,721	\$98,461
TOTAL MULTIFACULTY/FGS	\$233,621	\$216,341	\$206,442	\$178,397
Total	\$3,263,175	\$3,376,578	\$3,200,209	\$3,205,812

Table 5: National Granting Council Scholarships Awarded, 2011-2015

NSERC		2011	2012	2013	2014	2015
	Master's Nominations (CGS-M, PGS-M)	44	41	41	174	157
	Master's Awards CGS-M	23	16	19	30	30
	PGS-M	3*	3	2	N/A**	N/A**
	Doctoral Nominations (CGS-D, PGS-D)	41	47	44	53	37
	Doctoral Awards CGS-D	4	5	9	7	5
	PGS-D	15	14	10	13	9
	Vanier Nominations	2	4	2	1	2
	Vanier Awards	1	0	1	0	0
	NSERC New awards to Dalhousie	46	38	41	50	44
SSHRC	Master's Nominations (CGS-M)	18	18	13	119	114
	Master's Awards CGS-M	18	18	13	20	20
	Doctoral Nominations	25	22	21	21	20
	Doctoral Awards CGS-D	6	8	6	5	2
	SSHRC-D	3	4	2	6	4
	Vanier Nominations	1	1	1	3	2
	Vanier Awards	0	1	1	1	0
	SSHRC New awards to Dalhousie	27	24	22	32	26
CIHR	Master's Nominations	5	7	7	79	73
	Master's Awards CGS-M	4	5	1	14	14
	Doctoral applications (direct to CIHR)	23	12	21	24	24
	Doctoral Awards CGS-D	6	1	3	1	8
	Doctoral	0	0	2	2	0
	Vanier Nominations	3	1	1	0	1
	Vanier Awards	1	0	1	0	0
	CIHR New awards to Dalhousie	11	12	7	17	22
		2011	2012	2013	2014	2015
Trudeau	Nominations	3	2	3	2	3
	Awards	1	1	1	0	0

1. SSHRC held a new Business related competition for the first time in 2009 and competition was discontinued after 2010.

* 2 of the 3 PGS-M awards are Julie Payette awards (only 24 Julie Payette awards are given nationally)

** The PGS M level has been removed due to the new harmonized system

? Figures not known at the time of this report (SSHRC Master's and CIHR).

Table 6: Killam Postdoctoral Fellowship Distribution by Discipline

Year	Total held	F/M	Science & Engineering	Discipline	Humanities & Social Sciences	Discipline
2015-16	6	1/5	5	Chemistry, Physics, Obstetrics, Math, Psychology	1	Sociology
2014-15	3	0/3	2	Chemistry, Physics	1	Philosophy
2013-14	7	2/5	6	Chemistry (2), Biology, Psychiatry, Psychology, Physics	1	Philosophy
2012-13	8	2/6	6	Biology, Chemistry, Physics, Psychiatry, Psychology, Earth Sciences	2	Political Science, Law
2011-12	6	2/4	5	Biology, Biomedical Engineering, Chemistry, Psychology, Psychiatry	1	Law
2010-11	7	3/4	4	Bioethics, Biology (2), Pathology	3	History, SOSA, English
2009-10	10	5/5	5	Pathology, Biology, Bioethics, Biology, Psychology	5	SOSA, English (2), Philosophy, History
2008-09	13	4/9	7	Biology, Bioethics, Math, Psychology, Process Engineering, Microbiology, Earth Sciences, Industrial Engineering	6	English, History, Philosophy, Theatre
2007-08	15	7/8	11	Psychology, Biochemistry, Earth Sciences, Biology, Math and Stats, Microbiology, Process Engineering, Industrial Engineering	4	History, Philosophy, Theatre
2006-07	11	5/6	8	Biochemistry, Biology, Earth Sciences, Industrial Engineering, Mathematics, Psychology	3	History, Theatre
2005-06	7	2/5	6	Biochemistry, Biology, Earth Sciences, Mathematics, Chemistry	1	History

Table 7: PhD Defences - May 1, 2014- April 30, 2015

Department	# of defences	# of Chairs from Dept	Name of Chair
Biochemistry	6	7	Dr. Karten, Dr. McLeod, Dr. Bearne, Dr. Too (2), Dr. Singer, Dr. Archibald
Biology	9	7	Dr. Whitehead (2), Dr. Scheibling, Dr. Wright (2), Dr. Lee, Dr. MacRae
Biomedical Engineering	3	3	Dr. Wells, Dr. Lee, Dr. Filiaggi
Business Admin	-	3	Dr. Hebb, Dr. Sheehan, Dr. MacDonald
Chemistry	7	3	Dr. White, Dr. Burnell, Dr. Stradiotto
Civil Engineering	4	6	Dr. Newhook, Dr. Lake (2), Dr. Gagnon (2), Dr. Satish
Classics	-	2	Dr. Diamond (2)
Community Health & Epidemiology	-	2	Dr. Asbridge (2)
Computer Science	3	6	Dr. Trappenberg, Dr. Heywood, Dr. Zincir-Heywood, Dr. Zeh, Dr. Cox, Dr. Bodorik
Earth Sciences	3	2	Dr. Gibling (2)
Economics	2	-	
Electrical Engineering	1	-	
Engineering Math & Internetworking	1	1	Dr. Fenton
English	1	4	Dr. Diepeveen, Dr. Wright, Dr. Baxter, Dr. Barker
French	2	-	
Health & Human Performance	-	4	Dr. C. Kozey, Dr. J. Kozey, Dr. Westwood, Dr. Jackson
History	1	3	Dr. Bannister, Dr. Neville, Dr. Mitchell
ID PhD	8	-	
Industrial Engineering	2	-	
Law	-	3	Dr. Coughlan (2), Dr. Doelle
Math & Stats	1	5	Dr. Dilcher (3), Dr. Janssen, Dr. Nowakowski
Mechanical Engineering	1	-	
Medical Neuroscience	1	3	Dr. Rutherford, Dr. Semba, Dr. Currie
Microbiology & Immunology	3	2	Dr. Hoskins (2)
Nursing	2	2	Dr. Macdonald (2)
Oceanography	3	2	Dr. Boudreau, Dr. Lewis
Pathology	1	1	Dr. Greer
Performing Arts	-	1	Dr. Gantar
Pharmacology	3	1	Dr. Pasumarthi
Philosophy	3	-	
Physics & Atmospheric Science	7	3	Dr. Hewill, Dr. Folkins (2)
Physiology & Biophysics	-	2	Dr. Chappe, Dr. Cowley
Political Science	1	-	
Psychology & Neuroscience	10	8	Dr. Stewart (2), Dr. Eskes, Dr. Chambers, Dr. Newman, Dr. Klein, Dr. Perrot (2)
Resource & Environmental Studies	-	3	Dr. Tyedmers, Dr. Duinker (2)
Social Work	-	1	Dr. Ungar
Sociology & Social Anthropology	1	-	
TOTAL	90	90	

Appendix 1: Scholarship Value and Award Duration

SCHOLARSHIP	VALUE OF AWARD	AWARD DURATION
Izaak Walton Killam Predoctoral Scholarship	Level 1 = \$20,000 / yr Level 2 = \$25,000 / yr	2 Years 2 – 4 Years
Mackenzie King Scholarship	Travel = \$11,000 Open = \$10,000	1 Year 1 Year
Eliza Ritchie Doctoral Scholarship for Women	\$24,000 / yr	Maximum 3 years
James Robinson Johnston Scholarship for African Canadians	Master's = \$15,000 / yr Doctoral = \$19,000 / yr	Maximum 2 years Maximum 3 year
Nova Scotia Black and First Nations Graduate Entrance Scholarship	\$15,000 / yr	Maximum 2 years
Phi Kappa Pi Joe Ghiz Memorial Award	\$750 Prize	One-time payment
The Sushi Nami Royale Graduate Scholarship	\$1,000 Prize	One-time payment
A. S. Mowat Prize	\$1,500 Prize	One-time payment
The Vitamin Scholarship (in abeyance)	Master's = \$19,000 / yr Doctoral = \$21,000 / yr	Maximum 2 years Maximum 2 years
Walter C. Sumner Memorial Fellowships for Doctoral Studies in Chemistry, Physics, Electrical Engineering or Computer Science	\$8,000 / yr	Maximum 2 years
Social Sciences and Humanities Research Council (SSHRC)	CGS-M \$17,500 / yr	1 year
	SSHRC Doctoral Fellowship \$20,000 / yr CGS-D \$35,000 / yr	1, 2, 3 or 4 years 3 years
Natural Science and Engineering Research Council (NSERC)	PGS-M \$17,300 / yr	1 year
	PGS-M (Julie Payette) \$25,000 / yr	1 year
	CGS-M \$17,500 / yr	1 year
	PGS-D \$21,000 / yr CGS-D \$35,000 / yr	2 or 3 years 2 or 3 years
Canadian Institute of Health Research (CIHR)	CGS-M \$17,500 / yr	1 year
	CGS-D \$35,000 / yr (\$30,000 stipend, \$5,000 research)	Maximum 3 years
Vanier Canada Graduate Scholarship	\$50,000 / yr	Maximum 3 years
Trudeau Foundation Doctoral Scholarship	\$40,000 / yr stipend \$20,000 / yr travel allowance	3 years (may apply for a thesis writing scholarship or a postdoctoral scholarship, for a fourth year of financing)
Canada Graduate Scholarship – Michael Smith Foreign Study Supplement	Up to \$6,000	3 to 6 months
Killam Postdoctoral Fellowships	\$44,000/ yr (plus benefits, relocation costs, \$3,000 research grant, \$1,000 conference travel grant)	Maximum 2 years
Banting Postdoctoral Fellowships	\$70,000 / yr	2 years
President's Award	Tuition	First 2 years of PhD
Oz Optics	\$10,000	1 year

Appendix 2: Final Report on the 2014 Dalhousie University Killam Lectures: “Interface: Computer Science, New Media Art and Public Space”

Organizing Committee

Peter Dykhuis, Director/Curator, Dalhousie Art Gallery (DAG)
Mike Shepherd, Dean of the Faculty of Computer Science (FCS)
Stephen Kelly, Artist and PhD candidate, Faculty of Computer Science
Derek Reilly, PhD, Assistant Professor, Faculty of Computer Science

Thesis of Lecture Series

In visual art, as with all aspects of contemporary life, computer technology is no longer a mere tool used in the production of goods and services but has woven itself tightly into the fabric of society and culture. Indeed, as witnessed by the explosion of social media in the last decade, new technologies have spawned their own culture of social connectivity and human response.

Over the centuries, artists have often treated new technologies as ‘play things’ and explored creative production possibilities that inventors, designers and engineers had never anticipated. In the digital world, an artist’s curiosity often leads to computer generation of delightful phenomena that does not necessarily have an applied or ‘useful’ purpose. As art projects, they exist solely for sensorial absorption and intellectual contemplation. This zone of creative play and tangential thinking, however, can result in hybrid outcomes and real-world applications.

This lecture series will bring internationally exhibiting artists to Dalhousie who are on the forefront of the interface between computer science, architectural space and new media art. Their projects, however, are not cloistered away in research facilities but, rather, are inserted into public consciousness and civic space as an interactive and responsive form of public art.

#1. Exhibition-based presentation

Artists: Edith Flückiger (Luzern, Switzerland) and Germaine Koh (Vancouver, BC)
Exhibition title: exhibition tour of *(im)mobile*
Date: Friday 17 October @ 7:00 pm
Location: Dalhousie Art Gallery
Curated by: Mireille Bourgeois (Halifax, NS) and Chantal Molleur (Basel, Switzerland)
Exhibition presented by: Dalhousie Art Gallery in partnership with Centre for Art Tapes (Halifax, NS) and White Frame (Basel, Switzerland)

The two artists in *(im)mobile* present contemporary artwork, comprised of electronic installation, video and digital text pieces, in a conversation exploring mobility and stillness. Edith Flückiger’s work reaches for a place in time and space that is unknown to us, tries to find the space between here and there on a map—an unmarked site. Through multi-media environments that create sites of ambiguity, and text works that take us nowhere (and at the same time question the mundane), Flückiger plays with our perception and ideas of memory and place. Germaine Koh turns our attention to the site-specific socio-geographic implications of common spaces, the recognizable, and the use of everyday objects. The objects she uses are often enhanced by electronics to create viewer interaction, which transgresses their specific meaning when

placed in a gallery space. In other works, Koh situates various sensors outside of the gallery space and their data is relayed to electronically activated components within the Gallery.

#2. Killam lecture

Presenting artist: Nell Tenhaaf (Toronto, ON)
Title: *Stretching the Envelope of New Media Art*
Date: Friday 14 November @ 7:00 pm
Location: Goldberg Computer Science Building, Room 127

As new forms of art practice emerge and slide in under the broad umbrella of “new media” (bioart, DIY science, nanoart, etc.), a truism becomes obvious: the “new” of new materialities compounds that of new media art. For example, materialities in new media art practices arising from digital strategies on the one hand, and bio-matter on the other, have been pulling apart even when they are both characterized by their lifelikeness, vitality, agency, behaviour, performativity. Nell Tenhaaf is a practitioner in the computational domain, but is interested in practices across new media art that contribute toward open assemblages of intent, circulation and impact.

Nell Tenhaaf is an electronic media artist and professor at York University. Her studio practice focuses on intersections of art, science and technology, often in collaborative mode and presented as interactive works. She also writes and publishes articles about art and science with a particular interest in the biosciences and artificial life. Tenhaaf has exhibited her work in public galleries across Canada. She has been jury chair for the VIDA art and artificial life competition, sponsored by Telefonica in Madrid, since its inception in 1999. Tenhaaf is represented in Toronto by Paul Petro Contemporary Art.

#3. Killam lecture

Presenting artist: David Rokeby (Toronto, ON)
Title: *The Secret Life of Empty Space*
Date: Friday 21 November @ 7:00 pm
Location: Goldberg Computer Science Building, Room 127

“Empty” spaces... the open spaces of public squares and parks, the empty volumes of the rooms we live in... are actually filled to the brim with radio waves and WiFi, algorithms and surveillant gazes, voyeuristic glances and sympathetic observation, projections of personal space, emergent networks of mutual awareness, the energy that makes a crowd a crowd. David Rokeby has been considering the fullness of this emptiness for more than three decades through his art practise. In this lecture, he will explore this contemporary “haunting” of space using examples from his body of work.

David Rokeby is a Toronto-based artist who works with a variety of digital media to critically explore the impacts these media are having on contemporary human lives. He has exhibited and lectured extensively internationally and has received numerous international awards including a Governor General’s Award in Visual and Media Arts (2002), a Prix Ars Electronica Golden Nica for Interactive Art (2002), and a British Academy of Film and Television Arts “BAFTA” award in Interactive art (2000).

Event Details

The exhibition tour and lecture series were publicized through the following venues:

- Advance promotion in Notice Digest;
- Advertisements in the Coast;
- Direct email to Faculty in relevant fields;

-
- Multiple media releases via Dalhousie Art Gallery email list serve, Facebook and Twitter;
 - Digital signs across campus;
 - Printed posters distributed on campus as well in the Halifax community beyond;
 - Printed postcards for DAG associates and FCS Faculty to give to their colleagues.
 - Promotional material mounted on DAG and FCS websites;
 - Press releases to the Media in the week before each event

The 7:00 pm exhibition tour of *(im)mobile* attracted approximately 25 people; it was marketed as an event scheduled before the formal opening reception of the exhibition at 8:00 pm. Both artists spoke about their work in the gallery and engaged in a lively question and answer exchange with the audience. This form of 'walking tour' of an exhibition with the real time, real space presence of artworks and artists is amongst the most intellectually engaging programming tool that a gallery has at its disposal. And this event did not disappoint.

The formal lectures by Tenhaaf and Rokeby attracted audiences of about 75 people each. Both artists, pioneers in their fields, spoke about the historical context that they emerged in during the 1980s and then shared how the discourse and their work evolved over the following decades.

The Killam Trusts were represented in the introductory remarks of both lectures with the duties shared between Peter Dykhuis, Director/Curator of the Dalhousie Art Gallery, and Mike Shepherd, Dean of the Faculty of Computer Science. Each artist gave a digitally illustrated presentation that was 45-50 minutes in length. The most endearing part of each lecture was the animated question and answer period that each lasted another 30 minutes, a sure sign that the lecturers had certainly piqued the intellectual curiosity of the audience members.

A wine and cheese reception was organized to follow each Lecture, and was held in the lobby outside the lecture hall. This enabled informal discussion between students, faculty, the general public and the lecturer.

Evaluation

There is much chatter on campus about the need to break down the silos in the university community. This lecture series demonstrated the positive outcomes when communal groups reach out to each other and build relationships – and learn to understand each other's vocabularies. Indeed, much was gained through the conversations that emerged between the computer science and visual arts communities, combined with those engaged in the social politics of architectural space.

Peter Dykhuis, Director/Curator, Dalhousie Art Gallery (DAG)
April 22, 2015

Appendix 3: FGS Student Research Grant & Conference Travel Funding

FGS grants are awarded to support, or support in part, research and conference travel for students who do not have other sources of support for these important aspects of their graduate program. Both grants are available only to full-time students in thesis programs. In past years, research grants were awarded only in SSHRC-based disciplines. This is no longer the case since the award is now based on need and absence of other forms of support. Note, however, in the past few years virtually all research grants were still awarded to students in disciplines other than the natural and medical sciences and engineering. Detailed guidelines and application forms for research and conference travel grants are available on the FGS web site. Students are required to submit a signed application to FGS together with supporting letters from their supervisor and department, unit or program.

The maximum award for conference travel grants and research grants is \$500 with research grants only available to doctoral students. Each award is assessed based on need as explained in the application's budget submission, and the maximum amount is not necessarily awarded. The number of research grant applications dropped significantly with the reduction of the value of the award. There have not been any applications for the research grant in the last two years and only one student that received the grant in the 2012-13 year actually used the award. Research and conference travel grants are funded out of the FGS administrative budget, a budget that is subject to the annual budget cuts experienced by all faculties. We are working to keep as much money for students as possible in this envelope.

FGS Research Grant and Conference Travel Grant funding summary¹

	2010-11		2011-12		2012-13		2013-14		2014-15	
	Awards	\$ Total	Awards	\$ Total	Awards	\$ Total	Awards	Awards	Awards	\$ Total
Conference travel grants	149	81,616	156	59,273	123	48,406	130	56,127	106	52,735
Research grants	20	14,671	5	1,046	3	1,200	0	-800 ²	0	0
Total		96,287		60,319		49,606		55,327		52,735

¹ Total expenses are for the fiscal year period April 1 - March 31.

² Two of the research grants provided in 2012-13 were not spent and were repaid by the students in 2013-14.

Appendix 4: Faculty of Graduate Studies — Contact Information

Mailing Address: Faculty of Graduate Studies
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Jasmine Smart Admissions, Recruitment & Retention Officer Telephone: 494-7178 & 494-4341 Email: gradadm@dal.ca grad.recruitment@dal.ca	Paul Stropole IT Coordinator Telephone: 494-6384 Email: grad.it@dal.ca
Stephanie Theriault Assistant to the Deans Telephone: 494-4317 Email: fgs.deans.assistant@dal.ca	Vacant Information Clerk Telephone: 494-2485 Email: graduate.studies@dal.ca

Appendix 5: Administrative Processes for New Programs & Program Changes

Administrative Processes for New Programs & Program Changes		Activity flow -> -> ->				
Request	Documents	Required Quality Assurance Documents	APCC: quality assurance	FC: major issues, and ratification of APCC decisions (major issues back to APCC; minor issues flag for SAPRC)		
New Program	Concept Paper		APCC (review and recommend to FC)	FC (review and recommend to SAPRC)	SAPRC	
	MPHEC New Program Form	Internal Review Committee, Internal Assessments**, External Review (including site visit)	APCC (review and recommend to FC)	FC (review and recommend to SAPRC)	SAPRC	Senate, then BoG, and MPHEC
Major Modification (as determined by Assoc. Dean) (modification affecting ≥ 25% of program)	Concept Paper (consult with Assoc. Dean to determine if required)		APCC (review and recommend to FC)	FC (review and recommend to SAPRC)	SAPRC	
	MPHEC Modify Program form	Internal Review Committee, Internal Assessments**, External Review	APCC (review and recommend to FC)	FC (review and recommend to SAPRC)	SAPRC	Senate, then BoG and MPHEC
Minor Modification (modification affecting < 25% of program)	FGS Template		APCC (decision)		SAPRC (informed only)	
Program Suspension or Termination	MPHEC Termination form		APCC (review and recommend to FC)	FC (review and recommend to SAPRC)	SAPRC	BoG and MPHEC (informed only)
Program Review	Internal Review, External Review			FC (rate and report to unit with request for updates on recommendations)		
Certificate * (type A – no exit credential)	FGS Template		APCC (decision)			
Certificate * (type B & C – stand-alone exit credential)	FGS Template		APCC (review and recommend to FC)	FC (decision)	SAPRC (informed only)	Senate and MPHEC (informed only)
Diplomas	MPHEC New Program Form		APCC (review and recommend to FC)	FC (review and recommend to SAPRC)	SAPRC	Senate, then BoG and MPHEC
Degree Name Change (not affecting degree requirements, existing academic program content, and no resource implications)	Modified Program Proposal Form		APCC (review and recommend to FC)	FC (approve and recommend to SAPRC)	SAPRC	Senate and BoG (informed only), then MPHEC

Notes:

- * MPHEC is currently reviewing the process for Certificate Approvals.
- ** Internal Assessments include Registrar's Office, Financial Services, University Libraries, Facilities Management, Instructional Technology and Pedagogy
- Health & Health related submissions require AACHHR approval
- For more information on MPHEC requirement please visit <http://www.mphec.ca/quality/PubliclyFundedInstitutions.aspx>
- For more information on program proposals, major and minor modifications and suspensions and terminations please visit the Dalhousie Secretariat site at: http://www.dal.ca/dept/university_secretariat/program-proposals.html