

**Faculty of Graduate Studies
Annual Report
2010**



**DALHOUSIE
UNIVERSITY**

Inspiring Minds

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Dean's Report

The Faculty of Graduate Studies remains committed to providing the best possible service to graduate students, postdoctoral fellows and graduate programs.

Working within the context of the FGS Strategic Plan, the following initiatives have been taken over this past year. Our focus for the coming year remains on improving graduate student funding, graduate recruitment, professional skills development, postdoctoral fellows, and quality assurance.

- **Postdoctoral Fellows.** Policies and services for postdoctoral fellows on campus have been established. The responsibility for developing policy and programs is in the portfolio of Acting Associate Dean Lee.
- **Program Quality Assurance.** Associate Dean Pelzer, working with Senate, has been instrumental in the development of a university process and timeline for new program approvals.
- **Recruitment.** The FGS recruitment team, headed by Wendy Fletcher, has developed a recruiting platform and material for the national market and for the increasingly active international markets. The Recruitment team has prepared material and videos, created a Facebook page, as well as making presentations at a variety of recruitment events.
- **Outreach.** FGS staff organized short sessions for graduate coordinators and for thesis students that have been attended by an estimated 46 PhD and 50 Masters students. These sessions were in addition to the regular information sessions for graduate coordinators and graduate administrators that have saw approximately 70 people attend.
- **The Associate Deans and I** continue to contribute to the Deans' Blog, a weekly discussion of topics related to graduate students. The response has been enthusiastic and we will continue to connect in this informal manner. If you have not been, take a look at www.dalgrad.dal.ca/deansblog. In addition, University Affairs is hosting a Dean's Podcast each month on issues related to graduate students.
- A major redesign of the Faculty of Graduate Studies web site was led by Jason Sweeney.

The body of the Annual Report includes summaries of enrolment, scholarship activities, convocation, new academic programs, program reviews, changes in FGS administration and regulations, Interdisciplinary PhD program, and budget issues.

Over the past year there have been a number of changes in personnel and responsibilities within the FGS office. Danielle Pottie was on maternity leave until early February, with Stephanie Theriault covering the Acting Scholarship Officer. Kathy Drew covered the role of Acting Senior Thesis Clerk. Peter Janes and Colleen Hannam covered the Acting Graduate Student and Admissions Clerk position. Heddy Johnson joined us as the Acting Communications Clerk while Nicole Fraser was on maternity leave until mid April. Colleen Hannam stepped into the position to finish off the maternity leave. Deanna Foster has taken on the PDF Clerk role.

Finally, this report would not be complete without a grateful acknowledgement of all of the people who have contributed to FGS over the past year. The FGS office staff have once again worked tirelessly to provide service to all constituents as well as engaging in new initiatives and their dedication is impressive and greatly appreciated. Our student assistants, Kaela Scavo, Brice Leeds, Tosan Ikomi and Ella Muravyeva, have been terrific all year and continue to contribute in a wide range of essential activities.

We also greatly appreciate the many, many staff and faculty members across campus who make graduate programs work day to day, including graduate coordinators, departmental administrators, members of Faculty Council and APCC, as well as members of the various committees and review and appeal panels over the year. Clearly, the objectives of FGS could not be met without their effort.

May 20, 2010

Carolyn Watters, Dean
Faculty of Graduate Studies

This report covers the period of May 1, 2009 to April 30, 2010 and contains projections to August 2010 where numbers were available. The financial and enrolment data cover the period September, 2008, to August, 2009.

1. Enrolment

Graduate students represent approximately 20% of the total Dalhousie student population. This reflects the research intensive nature of Dalhousie. The December 1 “headcounts” since 2000, reported in the table below show the changes in total enrolment over the last nine years. Overall, graduate enrolment remained steady last year.

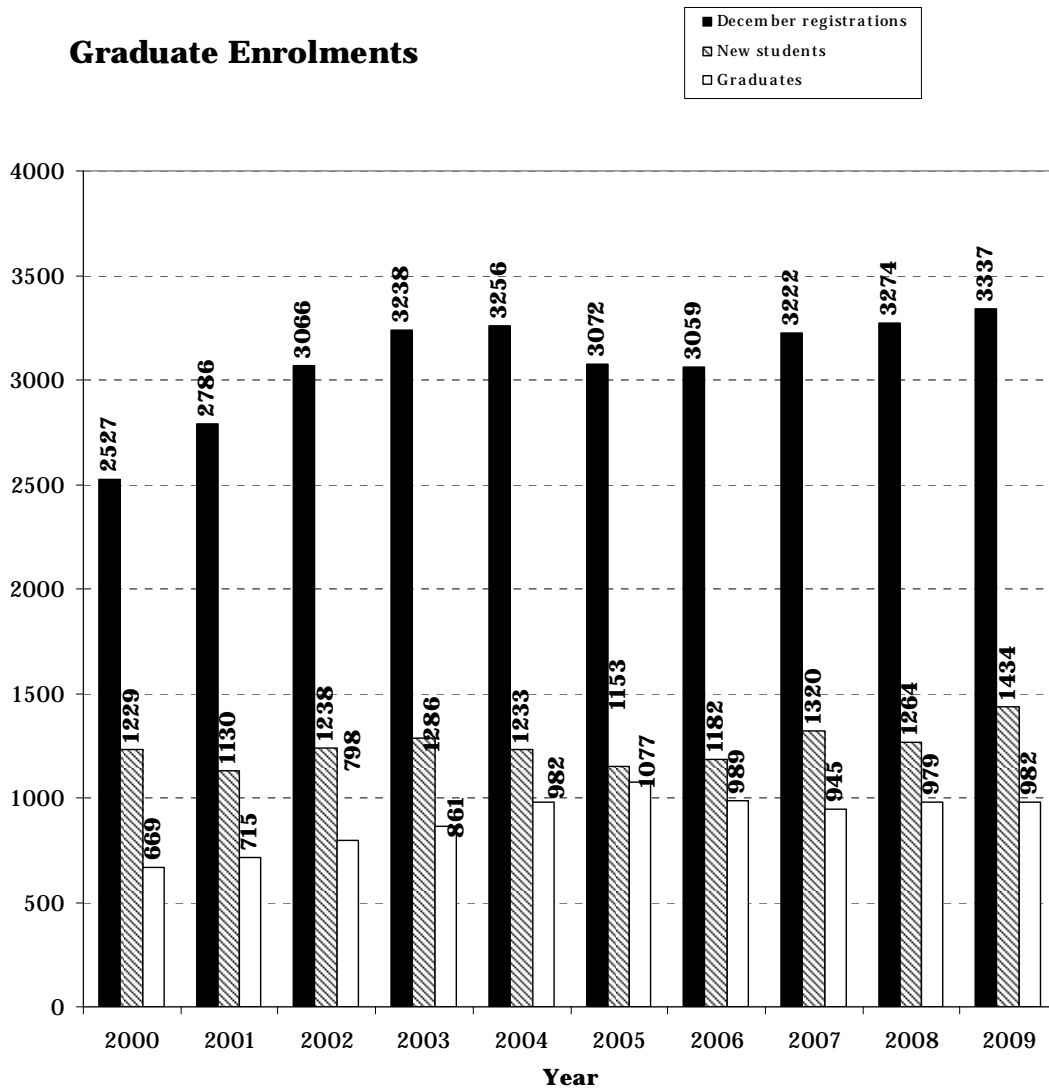
Graduate enrolments 2000-2009 (December 1 “headcounts”) ¹

Year	Full time	Part time	Total	Increase	FTE	International
2000	1684	843	2527	6.1%	1965	333
2001	1853	933	2786	10.2%	2164	362
2002	2061	998	3059	9.8%	2394	442
2003	2288	954	3242	6.0%	2606	547
2004	2338	903	3241	0.0%	2639	540
2005	2228	844	3072	-5.2%	2509	475
2006	2267	792	3059	-0.4%	2531	412
2007	2396	826	3222	5.3%	2671	412
2008	2412	862	3274	1.6%	2699	441
2009²	2476	861	3337	1.9%	2763	532

1. *Exclusive of medical post-graduate residents*
2. *This includes Special Students Graduate Studies, Visiting Students Graduate Studies, and Qualifying Year Students*

These numbers do not reflect the details for individual faculties and programs. While the international student enrolment increased last year, there can be little doubt that the international differential fees on top of tuition are an important factor in recruitment of these students.

Graduate Enrolments



* The 2009 new student figures includes newly registered summer term students.

Enrolments by faculty and category

For the 2009-2010 academic year, there were 1045 newly registered graduate students starting in the fall term, 213 started in the winter term and another 176 started in the summer term, with 982 students graduating (May and Oct 2009). To capture programs that have a summer start date, the summer term newly registered graduate students have been included this year for the first time.

International Enrolments

International Graduate Students by Geographic Region as of March 1, 2010				
Geographic Region	Degree Programs	Visiting/Special*	Total	%
Africa	51	4	55	9.8%
Asia - Eastern	53	21	74	13.1%
Asia - South Central	213	14	227	40.3%
Asia - South Eastern	12	1	13	2.3%
Bermuda and Caribbean	8		8	1.4%
Central America	7	1	8	1.4%
Europe	37	16	53	9.4%
Middle East	61	6	67	11.9%
North America	34	6	40	7.1%
South America	9	3	12	2.1%
South Pacific	4	2	6	1.1%
Total	489	74	563	99.9%

Specific student numbers for Saudia Arabia (56), China (67), and India (145) are included in the above.

- * 1) Visiting/Special includes non degree students, those attending Dalhousie under letter of permission or through an exchange program as well as qualifying year students
- 2) Graduate Visiting/Special includes 51 Post Doctoral Fellows.
- ** PGM = Post Graduate Medicine

2. Funding and scholarship support

Funding for graduate students is derived from a wide variety of sources, including scholarships from university and endowment budgets, external national and provincial agencies, supervisor research grants, and departmental funding, etc. In 2008-09, financial support from all sources, internal and external, to Dalhousie graduate students exceeded 20 million dollars.

The organization of various external scholarship competitions, the allocation of internal scholarship funds, and the administration of the monthly payments to graduate students on a term-by-term basis is one of the most important, and one of the most time intensive responsibilities of FGS. Detailed reports from the FGS and Killam Scholarship Committees will follow in the Associate Deans' section of this annual report.

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 of the FGS scholarship allocations to 56 graduate units or programs for 2009-10 was \$3,375,311.

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 is added to the funding total and distributed proportionally after the second round allocation has

been determined. In the appendix to the report of the Scholarship Committee, we present the allocations by unit for 2009-10 as well as the trend in FGS scholarship allocations in recent years.

The suggested minimum “full funding” levels remained at \$15,000 (master’s level) and \$17,500 (PhD level). These are the levels of the minimum expected funding packages for full-time graduate students including funding from all sources including Teaching Assistantships. For Killam Scholarships, the award is now \$20,000 for master’s students (two years support) and \$25,000 for PhD students (two or three years support). The Eliza Ritchie Scholarship is set at \$24,000, the James Robinson Johnston scholarship at \$15,000 (master’s level) and \$19,000 (doctoral level), also renewable for one year (master’s program) or two years (doctoral program). The Nova Scotia Black and First Nations Entrance scholarship is valued at \$15,000 and is renewable for one year.

Funding sources for Dalhousie graduate students, 2008-2009 ¹

Funding from Dalhousie University Sources

FGS Scholarships	\$ 3,235,670
<i>Includes: Departmental allocations, Eliza Ritchie Scholarship, James Robinson Johnston Scholarship, Nova Scotia Black and First Nations Graduate Entrance Scholarship, The Vitamin Scholarship</i>	
Bursaries	\$29,987
Departmental Funding	\$553,933
Killam Scholarships	\$1,056,409
President’s Awards	\$470,056
Other Internal:	\$177,000
<i>Includes: Bruce & Dorothy Rosetti Scholarship, Department of Surgery, Dover Mills, Kirkpatrick Scholarship, Mable Goudge, Northstar Trade Fellowship, Reid Scholarship, NSAC</i>	
Total internal sources:	\$ 5,523,055

Funding from sources external to Dalhousie University

SSHRC	\$ 1,263,046
NSERC	\$3,107,438
Faculty Research Grants	\$8,066,230
CIHR	\$466,745
NSHRF	\$1,024,614
Sumner	\$72,000
Trudeau	\$35,000
Other External:	\$833,088
<i>Includes: Acadia, ACENet Fellowship, Akwa Ibom State U of Tech, Alumni Research Excellence Award, AMGGI (MUN), APENS, Aboriginal Health Research Scholarship, Archibald McMechan, Architects Association of NB, Autism Research Training Program, Barry Johns Scholarship for Design, Canadian Nurses Foundation, CRTP Award, CURA/Restorative Justice Grant, D. Silver Funding, DFO, DM Johnston MAsc Scholarship, Dr. S.K. Malhorta Grad Scholarship, Doug Hogue Award, European Union Centre of Excellence, Exxon Mobile Canada Ltd. Scholarship, FDP, FQRSC, Godsoe Scholarship & Ward Prize, Gunn Family Studentship in Alzheimer Research, Hebb Prize, IWK Grad Studentship, Lett Fund Bursary, Lew King & Pengrowth Scholarship, Lydon Memorial Scholarship, Malcolm Ross Graduate Scholarship, Medjuck, NCRTP in Hepatitis C Scholarship, NRC Post Grad Fellowship, Ojars Biskaps Award, Ontario Problem Gambling Centre, PEO Peace Scholarship, Pengrowth Scholarship/Indian Brook Funding, Saudi Arabia, Stanfield Scholarship, St. Mary’s University, WUSCS</i>	
Total external sources	\$ 14,868,161

Total all sources **\$ 20,391,216**

1. Figures as of August 31, 2009. These figures include funding that is awarded for the full academic year (Sept 2008 – Aug 2009).

The major contributors to the overall increase in graduate student funding have been external sources such as NSERC and supervisor research grants, as well as internal sources such as the President's Award and Killam Scholarships.

The average funding level of the 579 PhD students receiving funding of any kind administered through the university is \$21,114.03 per student. The average funding level of the total 709 PhD students is \$17,242.63.

The *Nova Scotia Black and First Nations Graduate Entrance Scholarship* is intended specifically to encourage Nova Scotia Black and First Nations students graduating from Dalhousie undergraduate programs to enter one of our graduate programs. The long-term objective of these 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.

The three national granting councils, NSERC, CIHR, and SSHRC, have different competition rules and different quota systems for the CGS-M and CGS-D scholarships. NSERC awards CGS scholarships to the highest-ranking applications in the national PGS-M and PGS-D competitions. SSHRC follows this procedure for the CGS-D awards, but since there are no national SSHRC scholarship competitions at the master's level, they award a CGS-M quota to each university, and confirm the awards to all students nominated who pass national eligibility criteria.

The award statistics, for scholarships, from the three granting councils to Dalhousie students for 2006, 2007, 2008 and 2009, are presented in the next table.

National granting council scholarships awarded, 2006-2009

		2006 ¹	2007 ¹	2008 ¹	2009 ²
NSERC	Master's Nominations (CGS-M, PGS-M)	42	39	39	42
	Master's Awards CGS-M	13	18	16	34
	PGS-M	12	16	14	4*
	Doctoral Nominations (CGS-D, PGS-D)	41	39	49	47
	Doctoral Awards CGS-D	10	5	13	14
	PGS-D	11	21	21	20
	Vanier Nominations ⁴				3
	Vanier Awards				1
	NSERC New awards to Dalhousie	51	49	64	73
NSERC Total new awards held	53	69	66	72	
SSHRC	Master's Nominations (CGS-M)	18	19	21	19
	Master's Nominations (Business Related) ³				2
	Master's Awards CGS-M	18	19	21	21
	Doctoral Nominations	25	26	29	27
	Doctoral Nominations (Business Related) ³				3
	Doctoral Awards CGS-D	6	6	4	10
	SSHRC-D	7	9	9	6
	Vanier Nominations ⁴				2
	Vanier Awards				0
	SSHRC New awards to Dalhousie	31	34	34	37
	SSHRC Total new awards held	33	36	26	44
CIHR	Master's Nominations	8	7	7	12
	Master's Awards CGS-M	2	7	6	12
	CGS-D/Doctoral	5	2/0	1/1	4/0
	CIHR New awards to Dalhousie	7	9	8	16
	CIHR Total new awards held	15	21	7	17
Total Tri-Council new awards		101	126	99	126

1. 2006, and 2007 awards include SSHRC and CIHR scholarships awarded later in the year and "Total new awards held" includes students bringing NSERC, SSHRC, CIHR awards to Dalhousie from other universities
 2. Figures reported for 2009 "new awards" are the nominations put forward through Dalhousie and awards resulting from those nominations in the 2009-10 competitions. Award results for these competitions were announced March – June 2009.
For 2009 "total new awards held" is the total of all new awards starting at Dalhousie in May 09, Sept. 09 and Jan. 2010 (this could be students who won awards through Dalhousie or students bringing awards won through other universities).
 3. SSHRC held a new Business related competition for the first time in 2009.
 4. The Vanier competition was held for the first time in 2009.
- * The four PGS M awards are all Julie Payette awards.

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 2009-10 academic year Dalhousie has six active NSERC IPS awards and one active NSERC/MITACS Joint IPS awards. We currently have three IPS applications submitted to NSERC and one other pending FGS review. It should be noted that NSERC announced in February 2009 that the NSERC/MITACS Scholarship program is discontinued as of April 1, 2009 (commitments to existing awards are being honoured until the award end date). Our experience with IPS scholarships has been very positive. Applications are accepted and considered by NSERC staff at any time. Once the full application is received by NSERC, the decision usually is within 6-8 weeks, and the award can be made retroactively to the beginning of the academic term if needed. Dalhousie IPS applications easily compensate for the significant administrative tasks associated with each individual award.

FGS has the important responsibility of informing students, departments and faculty members of the wide variety of rules, regulations, deadlines, etc., of organizing the needed competitions, and of preparing the nomination files for submission to the granting councils. Numerous new regulations such as the time restrictions for holding CGS-M awards, and the possibility of starting the awards in any term, the global payment system administered by FGS, and its associated audit requirements, etc., place an additional level of complexity on the administration of the granting council scholarships.

3. Interdisciplinary PhD Program

The Interdisciplinary PhD Program is a graduate unit within FGS and reports directly to FGS. The Acting Associate Dean of FGS, Michael Lee, is Acting Director for the IDPhD program and works with a Graduate Coordinator, Marina Pluzhenskaya, who chairs the IDPhD Committee, which considers applications for admission and advises on academic and administrative matters for the program. The revitalized and redesigned program has grown substantially, indicating both a strong demand and a growing interest by faculty members to participate in the program, even with its very stringent requirements of interdisciplinarity in courses and comprehensive examinations and multi-discipline representation on the student's supervisory committee. Enrolment was 86 in December 2008 and 84 students enrolled in December 2009.

4. FGS administration and regulations

University, faculty, and departmental regulations relating to graduate students are summarized in the Graduate Calendar. Section III of the Governance Manual of FGS is largely identical to the Graduate Calendar, and this section contains most of the rules FGS is asked to administer. Section IV describes specific regulations and procedures related to academic reviews, scholarship finances, thesis submission,

etc. Both the Graduate Calendar and the Governance Manual are available online, in addition the FGS web site presents all regulations and procedures in easily accessible summary form. As a result, the FGS web site (www.dalgrad.dal.ca) easily has become our most important means of communication and method of transmission of new information. It certainly is the major resource for information, forms, and regulations concerning virtually all facets of graduate studies. Most forms are placed on the web allowing for electronic completion and submission and starting in May 2009 graduate applicants had the option of having their academic references submitted electronically. The FGS web site is updated weekly and includes an RSS newsfeed. The site also maintains links to all units and programs as well as to many other sites. Our ability to send e-mail messages to all graduate students or selected groups has also proven extremely useful, because the e-mail list is updated centrally and therefore current at the time of the mailing.

5. Killam programs

Dalhousie's Killam endowments have been an important and pivotal factor 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 results of the 2010 Killam scholarship competition, which was once again particularly intense, are reported in detail separately later in this report. FGS also is responsible for the organization 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 CAGS annual conference in the fall. These reports are available on the FGS web site.

For the 2009-2010 academic year, the Killam Scholarship Committee received 165 nominations and awarded 16 new and 67 renewal scholarships.

In 2009-2010 the budget allowed for the award of two Killam Postdoctoral Fellowships. The Committee has an exceedingly difficult task in selecting the winning candidates from among a very strong field of applicants representing widely different disciplines. The two initial awards were accepted. This high acceptance rate may be an indication of the high value placed on the Killam Postdoctoral Fellowships, and it may also be influenced by publicity around Dalhousie's very high ranking as an institution providing a high quality and fostering environment for postdoctoral research and researchers. The Killam Postdoctoral Fellowship stipend amount is \$44,000 plus \$3,000 for research and \$1,000 for travel.

The Killam Lecture Series serves both the university and the community at large, and gives considerable visibility to Dalhousie's academic and research programs. The theme for the 2009 Killam Lecture Series starting in October 2009 was Oceans and Climate Change. This series was organized by the Faculty of Science, and was headed by Dr. Katja Fennel of the Department of Oceanography. The theme for the 2010 Lecture Series will be 'Educational Leadership for Social Change towards Sustainability', organized by the College of Sustainability.

FGS hosted the Killam Dinner in conjunction with the annual visit by the Killam Trustees on November 3, 2009. The more than 170 guests enjoyed a very lively reception and dinner in the McInnis Room of the Student Union Building, highlighted by the after-dinner presentation of Dr. Peter Coffman, Killam Postdoctoral Fellow in the Department of History. Special guests included Managing Trustee George Cooper, and Trustees Ann McCaig, John Matthews and John Montalbano. The evening was opened by Vice-President Crago, who welcomed the guests for whom the dinner is organized, our Killam Scholars and Fellows.

The Killam Trust Committee assists in the coordination of the various activities supported by the Killam Trusts across the university. Its membership includes the Killam Trustees, university Vice-Presidents Academic, Finance and Administration, and Research, Deans of Graduate Studies and Science, and a number of other university administrators. The committee meets twice a year to provide guidance and coordination for all Killam Trust activities at Dalhousie University related to the Killam bequests. Financial matters such as investment policy and spending rates of income from the Trusts remain the responsibility of the Board of Governors and Investment Committee. The Killam Trust Committee advises on, and considers for approval policies and practices related to the use of these funds to support the activities funded by the Killam bequests as brought before it by various Killam selection committees. The committee also supports policies to promote the Killam name within the university and in the community at large. Thus the committee has an important role in any discussion of policy changes related to the administration of Killam programs, but its main function will be to coordinate Killam related activities and to improve the visibility of the Killam programs at Dalhousie across the university and the community at large.

With financial assistance from the Office of the Vice President Finance and Administration, we have two new Killam videos profiling a post doctoral fellow, and profiling the Killam Trusts and Dorothy and Isaac Killam.

6. Recruiting

The 2009-10 academic year has seen changes and growth in the Faculty of Graduate Studies Recruitment Team (FGSRT) including the new position: Recruitment and Student Services Coordinator.

FGSRT participated in thirteen national graduate student recruitment fairs, two information booths in the fall and one in the winter term; and held the first annual and very successful New Student Orientation in September, 2009. Dean Carolyn Watters participated in an international information fair for prospective PhD students in China and will participate in a similar fair in Chile in May, 2010.

The Faculty of Graduate Studies was advertised in the Dalhousie Alumni magazine; the Undergraduate annual agenda booklet, "The Coast", "Halifax Metro", "Tour of Duty", "Mi'kmaq Nations News" and the "Black Social Workers of NS Newsletter".

As in previous years recently admitted students who did not attend were sent a short Opinion survey. As well The Office of Institutional Analysis participated in a national survey of all newly admitted and registered students to which FGS supplied questions from our standard Opinion survey.

We updated our existing scholarship and services bookmarks and developed promotional material for the Interdisciplinary PhD program by way of a program specific video and program specific bookmark.

7. Students

The convocation lists for the 2009 May and October convocations combined included 880 master's degrees, 95 PhD degrees, and seven diplomas awarded, for a total of 982 graduates. This is compared to a total of 798 in 2002, 861 in 2003, 982 in 2004, 1077 in 2005, 989 in 2006, 945 in 2007 and 978 in 2008.

Our Faculty recommends awards for a number of internal and external competitions, including the Governor General's Gold Medal Awards (2), the Faculty of Graduate Studies Doctoral Thesis Awards (2), the NSERC Doctoral Prizes (2 nominations to NSERC), nominations for the North Eastern Association of Graduate Schools (NAGS) master's and doctoral thesis awards and graduate mentoring awards and for the Canadian Association of Graduate Studies CAGS/UMI Distinguished Dissertation Awards (2 nominations). While each of the external awards has different eligibility criteria, recognition of our students' achievements through awards at the department or FGS and university levels adds to the strength of the file submitted for external nominations, and in many cases just the nomination by the department or by the university already 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 2009 Gold Medals were presented at the May 2009 convocation to Doug Staple, an MSc graduate of the Physics program in the Department of Physics and Atmospheric Science, and to Laura Hynes, an MA graduate in the Department of History. These exceptional students were selected from eight departmental nomination files, representing a master's level graduating class of 880 students. The citations for Mr. Staple and Ms. Hynes in part read as follows.

Doug Staple

*The Governor General's Gold Medal in the Natural Sciences and Engineering for 2009 is awarded to Doug Staple. Doug Staple graduated with the degree Master of Science in Physics in the October 2008 convocation. The title of his Master's thesis is; "**Stretching and Unfolding Titin: A Statistical Mechanics Theory.**"*

In his Master's thesis, Doug Staple looks at the dynamics of multidomain biopolymers such as Titin. His cumulative GPA from his graduate course work was 4.30 and Doug also published 6 papers in a little over a year. Two of these in Physical Review Letter, which is the highest profile physics journal.

Laura Hynes

The Governor General's Gold Medal in the Humanities and Social Sciences for 2009 is awarded to Laura Hynes. Laura Hynes graduated with the degree Master of Arts in History in the May

2009 convocation. The title of her Master's thesis is; **"Infanticide by Married Couples in Early Modern Italy: The City of Parma 1607 - 1637."**

In her Master's thesis, Laura Hynes confirmed that infanticide was employed by married couples from a range of backgrounds in early modern Europe as a method of family limitation.

The winners of the 2010 Governor General's Gold Medals will be announced at the May 20th, 2010 meeting.

The Dalhousie University Doctoral Thesis Awards were established in 2004, and the first awards were presented at the May 2004 convocation. For 2009 the Faculty of Graduate Studies Doctoral Thesis Awards were presented to Dr. David Eaton of the Department of History for the category humanities and social sciences, and Dr. Matthew Rankin of the Department of Chemistry for the category natural and medical sciences and engineering. Selection of these awards is for excellence of the doctoral thesis only, largely as based on the report on the thesis by the External Examiner, and the nomination and thesis abstract. The citations for these two scholars in part read as follows.

David Eaton

*The Dalhousie University Doctoral Thesis Award in the Humanities and Social Sciences for 2009 is awarded to David Eaton. Dr. Eaton graduated with the degree Doctor of Philosophy, in History in the October 2008 convocation. The title of his Doctoral Thesis is: **"Violence, Revenge and the History of Cattle Raiding along the Kenya-Uganda Border, c. 1830 - 2008."***

In his Doctoral thesis, Dr. Eaton "researches the history of cattle raiding and conflict in the Kenya/Uganda border area and challenges many of the assumptions that inform current initiatives to reduce violence in this troubled region. He convincingly demonstrates that violent raiding with significant casualties is not a recent phenomenon and in fact extends back to the nineteenth century".

Matthew Rankin

The Dalhousie University Doctoral Thesis Award for "the University's most outstanding doctoral thesis" in the Natural and Medical Sciences and Engineering for 2009 is awarded to Matthew Rankin. Dr. Rankin graduated with the degree Doctor of Philosophy in Chemistry in the October 2008 convocation. The title of his thesis is: "Cp Ru Chemistry of Donor-Substituted Indene and Indenide Ligands."

In his Doctoral thesis, Dr. Rankin "developed a novel class of cationic and zwitterionic ruthenium complexes. This led him to discover their remarkable ability to activate C-H bonds. In his subsequent work he extended the array of related ruthenium complexes, and he developed one of these as an extremely efficient catalyst for the transfer of hydrogen to ketones. His research led to the publication of eleven articles in some of the top peer-reviewed journals in chemistry"

The winners of the 2010 FGS Doctoral Thesis awards will be announced at the May 20th, 2010 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.

NSERC Doctoral Prize (submitted September 2009)

Natural Science category:

Dr. Vincent Chevrier, Department of Physics and Atmospheric Science, PhD awarded October 2009, for his thesis "First Principles Studies of Si as a Negative Electrode Material".

Engineering and Computer Science category:

No applications were submitted to FGS for this award.

CAGS Distinguished Doctoral Dissertation Award (submitted March 2010)

Engineering, Medical and Natural Sciences category:

Ms. Megan Saunders, Department of Oceanography, PhD to be awarded May 2010, for her thesis "Causes and Consequences of Outbreaks of a Nonindigenous Species in Kelp Beds".

Fine Arts, Humanities and Social Sciences category:

Ms. Valerie Grant, Department of Psychology, PhD to be awarded October 2010, for her thesis "The Modified Drinking Motives Questionnaire-Revised: Its Psychometric Properties and the Impact of Motives on the Emotional Antecedents of Alcohol-Related Cognitions and Alcohol Consumption".

These external award competitions are highly selective: CAGS represents more than 60 Canadian universities, NAGS more than 100 American and Canadian institutions. It is, however, important for Dalhousie and for our students to assemble the nomination files and make strong nominations. 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.

Dalhousie's graduate programs are recognized for their ability to attract excellent students. CGS-Doctoral Scholarships are awarded based on a national ranking of the top applicants in the CIHR, NSERC and SSHRC doctoral scholarship competitions. CGS-M awards are determined in the national competition for NSERC; on the other hand SSHRC uses a nomination quota but delegates the selection to the university.

As noted in the table presented earlier, a number of our recent graduates from honours undergraduate programs will take up their national scholarship award at other universities, while in turn our graduate programs attract national scholarship holders from other universities. While in the past we have attracted more national scholarship holders than our students received awards, this was not the case in this year. In order to regain competitiveness in attracting students with national scholarships, we have to recruit actively, and be able to offer attractive scholarship top-ups as well as attractive programs.

Dalhousie nominated two students in the 2010 Trudeau Foundation Doctoral Scholarship competition. At the time of this report results of the 2010 competition have not yet been announced. This doctoral scholarship, valued at up to \$50,000 per year for three or four years is awarded by the Trudeau Foundation based on a national competition for students of international scholarship standing with areas of scholarly research in broadly defined areas of the humanities and social sciences. Each year fewer than 15 awards are made nationally. Dalhousie has had four former winners of this prestigious award. Elaine

Craig, Meredith Schwartz, Lilith Finkler, and Jay Batongbacal, are former Trudeau Scholarship winners, four remarkable Dalhousie graduate students successful in this most selective national competition.

In the 2010-11 NSERC competition Dalhousie had one masters students win the prestigious Julie Payette NSERC Research Scholarship of only 24 such awards given nationally. In the spreadsheet outlining national granting council scholarships there are four Julie Payette awards listed in 2009 as PGSM awards. Other achievements of our graduate students are featured on the FGS web site. Departments are encouraged to report such special cases to FGS.

In 2009 we were able to nominate five applications for the National Vanier competition. Of those five Dalhousie was awarded one Vanier scholarship and two CGS D scholarships.

Associate Deans' Report

Dr. Lee and Dr. Pelzer wish 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, we 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.

I. Scholarships and Programs (D. Pelzer)

During the 2009-10 academic year, the Faculty was involved with the usual range of scholarship and curricular activities.

1. Scholarships

The following section will outline all of the scholarship competitions and processes held during the 2009-10 Academic year. 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 total amount of funding allocated to all departments for 2009-2010 was \$3,375,311, as compared to the 2008-2009 total of \$3,227,066. The anticipated funding allocation to departments in 2010-2011 will be \$3,442,465.

In past years, the First Round Allocation to each department or unit was based on an 80% return of the combined first and second round allocation of the preceding year. A department's Second Round Allocation is based upon the "points" accrued to the department as a reflection of the number of first class students admitted multiplied by the value of a point for the particular year. Points were assigned to first class students based on the degree program to which they were admitted; one point for each new master's degree student, two points for each student transferred into a doctoral program from an uncompleted master's program, and three points for each new doctoral student.

For this and future years the yearly allocation for thesis programs is based on two parts. Part A (1st round) is calculated as 80% of the previous year's base allocation. 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 pt for new

masters students, 2 pts for transfers from masters into PhD programs and 3 pts for new PhDs. The points are used to reallocate the remaining 20% of the funds to departments.

Non-thesis programs allocation is also based on two parts. Part A is calculated using the number of new masters 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 4.0 or better.

A total of 556 points were accrued by departments for the 2009-2010 allocation year, a slight decrease over the 572 point total for 2008-2009. A total of 592 points were accrued by departments in the anticipated 2010-2011 allocation. Departmental allocations are presented in Table 1 at the end of this section of the 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

In 2010-11 Killam Scholars wishing to renew the Scholarship were asked to submit a progress report. Progress reports were reviewed by the Associate Dean, Dr. Pelzer. In total, 55 students submitted progress reports to request renewals, 10 from students in master's programs and 45 from students in doctoral programs. The Associate Dean 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.

The Killam committee was broken down into a Master's committee (Christine Chambers, Department of Psychology, Thomas Trappenberg, Faculty of Computer Science, Meinhard Doelle, Faculty of Law, Zoheir Farhat, Department of Process Engineering and Applied Science, Peter O'Brien, Department of Classics, George Turnbull School of Physiotherapy) and a PhD committee (Hans Jeurgen Kruetzer, Department of Physics and Atmospheric Science, Craig Lake, Department of Civil and Resource Engineering, John Cameron, Department of International Development Studies, Paul Murphy, Department of Physiology and Biophysics, Howard Ramos, Department of Sociology and Social Anthropology, Laura Turculet, Department of Chemistry). 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 March 17 and 18, 2010, chaired by the Associate Dean, Dieter Pelzer. In all, 84 nominations were received (35 Masters nominations and 49 Doctoral nominations). From the ranked list, 16 new Killam scholarships were offered, eight at the Master's level and eight at the Doctoral level.

The Killam guidelines and regulations were reviewed and some new guidelines were approved by Faculty Council and the Killam Trustees. The new guidelines are available on the FGS website.

Killam Trustees: George Cooper, M. Ann McCaig, John Matthews, John Montalbano

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 Russell Boyd (Associate Vice-President, Research) and Dieter Pelzer (Associate Dean, FGS) reviewed nine applications for the March 2010 open and traveling scholarship competitions. The Committee recommended that three applications (two open and one traveling) be forwarded to the University of British Columbia for consideration by the MacKenzie King Scholarship Selection Committee.

In the March 2009 competition Dalhousie was awarded one traveling scholarship.

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 Michael Lee (Associate Dean, FGS) and Dieter Pelzer (Associate Dean, FGS) met to review the applications for the 2010 competition. There was one new award offered and two renewal scholarships offered. There was one new award offered in 2009 and two renewal scholarships were awarded.

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 change in the scholarship deadline of May 15th has been made to this Scholarship. The 2010 results will be noted in next year’s report. Dr. Dieter Pelzer (Associate Dean, FGS) reviewed the applications for the 2009 competition. One new award was offered.

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.

A change in the scholarship deadline of May 15th has been made to this Scholarship. The 2010 results will be noted in next year's report. Dr. Dieter Pelzer (Associate Dean, FGS) reviewed the applications for the 2009 competition. Two new awards were offered and one renewal scholarship was awarded.

The Vitamin Scholarship

The Vitamin Scholarship was enabled by an endowment created by the settlement of a court case, in which the companies 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 Masters 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 (Masters) and \$21,000 (Doctoral) for a twelve-month academic year.

Unfortunately, since the endowment fund has not earned any new income with the current market condition, no further Vitamin Scholarships could be offered in 2009 or 2010.

2. Social Sciences and Humanities Research Council (SSHRC) Fellowships Competition Committee

Two SSHRC Scholarship Committees are involved in determining which applicants will be recommended to be sent forward for consideration for scholarship funding by the Social Sciences and Humanities Research Council. The SSHRC Doctoral selection committee consisted of Louise Carbert (Political Science), Cynthia Neville (History), Julia Wright (English) and Liz Fitting (SOSA). The SSHRC CGS Master's award committee consisted of Kathryn Morris (King's College), Colleen Kiberd (Nursing) and Maria Jose Gimenez (Spanish). Both committees were chaired by Dieter Pelzer (Associate Dean, FGS), who also served as a reviewer of the Master's nominations.

A total of 44 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 January 8, 2010. The initial rank ordered list was discussed and two final, alphabetical lists – an "A" list consisting of applicants ranked in the top 29 positions, and a "B" list comprising all the rest – were prepared and sent forward. As one of our 29 recommended candidates was awarded a late Doctoral Fellowship, we sent in 1 additional application. Dalhousie was awarded five CGSD scholarships. Of those five, two were previously awarded Vanier SSHRC awards. Last year 16 doctoral scholarships (seven CGS-D, six Doctoral Fellowships and three Business related CGS D scholarships were awarded).

For the Master's competition, much the same procedure was followed. The Committee met on January 20, 2010, to consider 45 applications for Master's scholarships from which a list of the top 19 names, accompanied by a wait list of five names, were prepared and sent forward to SSHRC. In addition, three Business related applications were forwarded to SSHRC. King's College forwarded an additional application for their quota. Results of this competition were not known at the time this annual report was prepared. Last year all 19 masters applications put forward to SSHRC were successful. Dalhousie was also successful in securing two business related CGS M awards.

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

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 Kamal El-Sankary (Electrical Engineering), Jürgen Kreuzer (Physics and Atmospheric Science), Russell Boyd (Associate VP Research, as the rep from Chemistry), and Dieter Pelzer (Associate Dean, FGS).

To be eligible to be considered 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 2010 the Committee considered nine files for new awards and four files for renewal, compared to a total of 24 files for last year. Committee members ranked the applications prior to meeting. The ranked lists from each member were collated by FGS. The Committee met on February 23, 2010 and agreed on the rank order. The files were then forwarded to the Foundation. At the time of this report final results of this competition were not received from the Sumner Foundation. In last years competition (2009-10) Dalhousie was awarded six new Fellowships and five renewals.

4. Natural Sciences and Engineering Research Council (NSERC) Postgraduate Scholarships Competition Committee

Two NSERC Scholarship Committees are involved in determining which applicants will be recommended to be sent forward for consideration for scholarship funding by the Natural Sciences and Engineering Research Council. The NSERC Doctoral Committee consisted of Abdel Ghaly (PEAS), Leslie Phillmore (Psychology), Laura Turculet (Chemistry), Younes Anini (Physiology and Biophysics). The NSERC Master's committee consisted of Christian Lehmann (Microbiology), Sophia Stone (Biology), and Margaret Walsh (Civil Engineering). Both committees were chaired by Dieter Pelzer (Associate Dean, FGS) who also served as a reviewer of the Master's nominations.

Each Committee member read and rated all the applications allocated to that committee (62 applications allocated to the Master's committee, 52 applications allocated to the PGS-D committee) before the final meetings, held on November 18th and 19th, 2009, at which ranked lists to be forwarded to NSERC were produced. A total of 96 applications (51 Master's, 45 Doctoral) were recommended for consideration of

NSERC scholarships in the 2010 competition. Sixty-six scholarships were awarded by NSERC (compared to 72 for last year), two PGS-M (one Julie Payette), 26 PGS-D, 36 CGS-M, and two CGS-D. This represents a decrease in top-level awards from four Julie Payette's to one and 14 CGS D's to two within one year. Alternatively, last year Dalhousie received 34 CGS M awards and 20 PGS D awards.

On February 27, 2009 it was announced by NSERC that students who receive PGS-M or CGS-M awards in 2009 will be funded for one year and will not be able to apply for an extension. It was also announced on February 27, 2009 that the NSERC/MITACS Scholarship program was being discontinued as of April 1, 2009.

5. Canadian Institute of Health Research (CIHR) CGS–M Competition Committee

The CIHR CGS-M committee consisted of Boris Kablar (Anatomy and Neurobiology), Gordon Flowerdew (Community Health & Epidemiology), Marilyn MacDonald (Nursing), and was chaired by Dieter Pelzer (Associate Dean, FGS), who also reviewed and ranked the applications. Committee members ranked 19 applications, and then met on January 27, 2010 to finalize the list. Of these, 12 applicants were sent forward to CIHR for consideration for awards. The results were not known at the time of this report. In 2009, 12 applications were forwarded to CIHR for consideration and Dalhousie was successful in securing all 12 scholarships.

FGS was not involved in coordinating the CIHR doctoral competition. There were eight CGS D awards offered to Dalhousie students from the October 2009 competition. This was an increase to the four CGS D awards offered from last year's competition.

6. 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 up to three years.

Nominees are evaluated and selected based on the following three criteria, which will be weighted equally by the peer review committees. However, the final selection board recommendation on awardees will be based solely on the leadership component (referee letters, university nomination letter and applicant's self-assessment of leadership potential and ability) of the applications.

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 Dieter Pelzer (Associate Dean, FGS), Shirley Tilloston (Acting Associate Dean, FASS), Jure Gantar (Acting Dean, FASS) and Greg Hebb (Acting Director, Business Administration). FGS received seven applications and two were forwarded on to SSHRC. Both applicants were awarded Vanier CGS.

The NSERC Vanier nomination committee consisted of Dieter Pelzer (Associate Dean, FGS), Sina Adl (Associate Dean, Faculty of Science), and Evangelos Milios (Associate Dean, Faculty of Computer Science) and Russell Boyd (Associate Vice President, Research). Unfortunately the representative from the Faculty of Engineering was unavailable. FGS received four applications and one was forwarded on to NSERC. Dalhousie was successful in receiving that one Vanier CGS.

The CIHR Vanier nomination committee consisted of Dieter Pelzer (Associate Dean, FGS), George Turnbull (Associate Dean, Health Professions) and Christopher MacMaster (Assistant Dean, Medicine). FGS received six applications and one was forwarded on to CIHR. Dalhousie was successful in receiving that one Vanier CGS.

Dalhousie nominated five Vanier applications in last year's competitions and was successful in securing one Vanier scholarship and two CGS D awards. In all future competitions, unsuccessful Canadian applicants will no longer automatically receive a CGS D scholarship. In the 2009 academic year, Dalhousie awarded the unsuccessful International Vanier applicants a \$25,000 scholarship as they were not eligible for the automatic CGS D.

7. 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 2009 Dalhousie submitted one application for SSHRC CGS-MSFSS, and that applicant was successful. The SSHRC committee consisted of Sunny Marche (Associate Dean, FGS) and Dieter Pelzer (Associate Dean, FGS).

In June 2009 Dalhousie submitted one application for NSERC CGS-MSFSS, and that applicant was successful. The NSERC committee consisted of Dieter Pelzer (Associate Dean, FGS) and Russell Boyd (Associate Vice President, Research).

In September, 2009 Dalhousie submitted one application for SSHRC CGS-MSFSS, and that applicant was successful. The SSHRC committee consisted of Sunny Marche (Associate Dean, FGS) and Dieter Pelzer (Associate Dean, FGS).

In January, 2010 Dalhousie submitted one application for NSERC CGS-MSFSS, and that applicant was successful. The NSERC committee consisted of Russell Boyd (Associate Vice President, Research) and Dieter Pelzer (Associate Dean, FGS).

In January, 2010 Dalhousie submitted one application for CIHR CGS-MSFSS, and that applicant was successful. The CIHR committee consisted of Russell Boyd (Associate Vice President, Research) and Dieter Pelzer (Associate Dean, FGS).

8. Academic programs

New graduate programs and major program modifications are reviewed by FGS, and need approval at various stages, starting with the home Faculty, FGS, Senate, Board of Governors, 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. 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, Parts 1 and 2 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 SAPBC/Senate (SCAA in case of name changes), the Board, MPHEC, and AACHHR (if it meets the criteria of a health or health-related program).

In 2009-2010 the following new program proposals and program modifications were reviewed in FGS.

New programs:

- Master of Periodontics. Approved by FGS, SAPBC and Senate. For submission to MPHEC.
- Certificate Program for Postdoctoral Fellows and PhD students. Approved by FGS.

New program proposals (on hold until further information is received):

- Master of Business Administration Natural Resources (FGS)
- Master of Internetworking (FGS)
- Master of Genetic Counselling (SAPBC)

Major program modifications:

- None submitted this year

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

- Master of Health Administration. Prior learning assessment. Senate and the Registrar's Office notified.
- Master of Health Administration. New online delivery mode. Senate and the Registrar's Office notified.
- Master of Science in Anatomy and Neurobiology. Split a full credit required course into two half credits classes with one being required and the other as an elective.
- PhD in Physics and Atmospheric Science. Reduction in the required number of credits. Senate and the Registrar's Office notified.
- Master of Marine Management. Increase core course requirement and reduce elective requirement. Senate and the Registrar's Office notified.
- Master of Science and PhD in Statistics. Remove the consulting requirement for the PhD program and alter this requirement for the Masters program. Senate and the Registrar's Office notified.
- MBA/LLB combined degree. Reinstatement of admissions to the combined program.
- MBA/LLB combined degree. Modified structure due to the new MBA Corporate Residency structure.
- Master of Science Human Communication Disorders (Audiology and Speech-language Pathology) degrees. Restructuring of course requirements.

Program terminations: Admission to these programs is suspended. The programs 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.

- Termination of the MSc and PhD programs in Pharmacy. Approved by FGS, Senate, the Board and MPHEC.

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 6-7 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 2009:

- Department of Classics (joint with FASS): MA and PhD programs
- Department of Physics and Atmospheric Science (joint with the Faculty of Science): MSc and PhD programs
- Department of Oceanography (joint with the Faculty of Science): MSc and PhD programs

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

- Pharmacology (joint with Faculty of Medicine): MSc and PhD programs
- Pathology (joint with Faculty of Medicine): MSc and PhD programs
- Microbiology and Immunology (joint with Faculty of Medicine): MSc and PhD programs
- Computer Science: MACSc, MEC, MHI, MSc in Computational Biology & Bioinformatics, and PhD programs
- Neuroscience Institute
- Nursing: MN and PhD programs
- English (joint with Faculty of Arts and Social Sciences): MA and PhD programs
- French (joint with Faculty of Arts and Social Sciences): MA and PhD programs
- Political Science (joint with Faculty of Arts and Social Sciences): MA and PhD programs
- Mathematics and Statistics (joint with Faculty of Science): MSc and PhD programs
- Biology (joint with Faculty of Science): MSc and PhD programs
- Anatomy and Neurobiology survey results: MSc and PhD programs

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.

9. 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 2009 and April 2010, APCC considered and approved the following:

New Classes.....	39
Cross Listings.....	5
Minor Changes*	11
Removals.....	40

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

II. Postdoctoral Fellows, Thesis Management, and Interdisciplinary PhD Program (J. M. Lee)

1. Postdoctoral Fellows—General

This past year has seen many changes to the postdoctoral fellows at Dalhousie. In July 2009, Deanna Foster took over as the PDF Clerk. Dr. Sunny Marche left for a year long sabbatical in January 2010, and Dr. J. Michael Lee is Acting Associate Dean for the year. There are currently 118 Postdoctoral Fellows at Dalhousie.

Over the fall term of 2009, a new certificate program; the “Personal and Professional Development Certificate” was created and established. This is aimed at teaching postdoctoral fellows and senior PhD students a wide variety of professional growth skills and how to incorporate them into their professional and personal lives. Through the certificate program, the participants will be better prepared for the many dimensions of their careers.

Information sessions about the PDF policy were conducted to staff and faculty to create a better understanding of the procedures. The first took place in September for all faculty and staff, with an attendance of approximately twenty five. Two were held for specific departments; one for the Department of Physics and one for the Faculty of Engineering. One was held at the IWK Hospital, with the aim that the IWK would create their own PDF policy based on the Dalhousie one.

New procedures are in place for coming and going PDFs. A guidebook for new PDFs, which contains information about the policy, procedures, and life at Dalhousie and Halifax for those who are new to the city, was created. When a new PDF arrives, they are sent a copy of the guide, as well as a welcome message from the PDF Clerk. An exit survey was created and is sent to those who have finished their fellowship.

The professional development course, Research 5600, continued with success during the year. It was conducted first by Dr. Sunny Marche in the first semester and Dr. J. Michael Lee in the second. The sessions that were held are as follows:

- Orientation for postdoctoral fellows.
- Professional skills self-assessment and the assessment by the people who are going to hire you.
- Networking – what and why. Determining your own objectives. Introduction to the basic steps. Channels of communication.
- Round table of established scholars discussing their experience with networking, and their perspective on the need for professional development. What it is and how important it is. Guest presentation by Dalhousie faculty members.
- Career exploration day. Major alternative research employers will describe opportunities outside the academy. Guest speakers from non-academic research institutions.
- Creating a competent CV.
- CV Peer-Review

- Introduction to management for researchers. We know you didn't sign up to spend all your time pushing paper, and that's not what management is about anyway. Find out why it's not optional.
- Write Here, In Plain Sight (WHIPS) – fourth annual demonstration of academic writing.
- How to get tenure. Presentation by the faculty association.
- Academic language and communicating to others.
- Personal Finance: Self assessment and goal setting. The financial life cycle.
- Professional Finance: Management of Research Funds
- How to get a non-academic job. Search, covering letter, résumé (as opposed to CV).
- Personal Finance: Insurance, Income tax, credit and debt management.
- Hiring the right people for your research team.
- The academic job interview process. A mock panel interview with both good and bad answers. Feel free to ask questions and interact.
- Meeting management.
- Reviewing your public speaking skills.
- Public speaking coaching session.

For the 2010-2011 year of RSCH 5600, there will be collaboration with the Faculty of Medicine's Integrated Health Research Training Partnership (IHRTTP) program in an effort to offer the PDFs and senior graduate students as much professional preparation as possible.

The 2010 Federal Budget has had a significant impact on the current PDFs. The budget states that all PDFs are now subject to income tax. Since the majority of PDFs at Dalhousie were Academic (and not subject to income tax), there have been several difficult individual situations reported. As a result, the two PDF strands (Academic and Research) are no longer required.

To deal with the changes, the PDF society executive and the FGS office are working towards creating a better situation for the PDFs. The two main initiatives are: That a mandated salary is put in place, so all new PDFs are paid a minimum amount; and that the PDFs receive benefits such as medical, dental, and parental leave, and pay into EI and CPP. These changes will not happen quickly, but are in process for the next several months.

The PDF policy will undergo a substantial change as a result.

2. The Killam Postdoctoral Fellowship Committee

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

Committee membership: Steven Bearne (Biochemistry & Molecular Biology), Robbie Jamieson (Process Engineering & Applied Sciences), Shirley Tillotson (History), George Turnbull (Physiotherapy), Axel Becke (Chemistry), Robert Beiko (Computer Science). The committee was chaired by Michael Lee (Associate Dean, FGS).

Killam Trustees: George Cooper, M. Ann McCaig, John Matthews, John Montalbano

Killam Administrator: Danielle Pottie

There were 40 applications submitted for this year's competition, 17 from women and 23 from men, put forward by 28 departments representing 15 different countries. Each member of the Committee reviewed all of the applications and established a ranking list which was submitted to the Faculty office before a meeting which was held on February 24, 2010. 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 the following names to the Dean and Killam Trustees:

Initial Offers

Sam Veres Biomedical Engineering

Wait List

Oppong Frompong Law

The Initial offer was accepted and we were then able to offer the wait listed candidate and that was accepted as well.

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

Killam Postdoctoral Fellowship Distribution by Discipline

Year	Total held	F/M	Science & Engineering	Discipline	Humanities & Social Sciences	Discipline
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
2004-05	8	2/6	4	Chemistry, Biology, Pharmacy, Mathematics	4	History, Music, English
2003-04	5	2/3	2	Biology, Biochemistry	3	English, History, Music (1 yr)
2002-03	4	0/4	3	Pharmacy, Chemistry, Earth Sciences	1	English
2001-02	6	1/5	4	Biochemistry, Chemistry, Physics (2)	2	Philosophy, Political Science
2000-01	7	2/5	5	Chemistry, Earth Sciences, Engineering Mathematics, Mathematics & Statistics, Neuroscience/Psychology	2	Philosophy, Sociology & Social Anthropology
1999-2000	5	1/4	4	Chemistry, Mathematics, Pharmacology, Biology	1	English
1998-99	5	2/3	2	Chemistry, Physics	3	Political Science (2), Economics
1997-98	7	4/3	1	Biochemistry	2	French, Philosophy
1996-97	6	2/4	4	Chemistry, Earth Sciences, Pharmacology, Psychology	2	English, Political Science
1995-96	8	1/7	5	Chemistry, Oceanography (2), Physics, Microbiology	3	Political Science, Music, Law
1994-95	10	3/7	8	Anat/Neurobiology, Biology, Biochemistry, Chemistry, Mathematics, Oceanography, Physics, Psychology	2	French, Sociology & Social Anthropology

3. Theses and Defences

Masters and doctoral theses for all programs, except those in Engineering and Architecture and Planning, are format checked and accepted by FGS. Doctoral defenses for all programs are organized through the Faculty, which is responsible for formally inviting the external examiner and arranging for a venue and a chairperson for the examination. Chairs are chosen from among the members of the PhD Defence Panel.

From May 1, 2009 until April 30, 2010, 110 defences have been conducted. This compares to 90 defences held over a similar period in the previous year, and 76 defences held in the year before that.

The numbers of PhD defences, enumerated by department, are listed in the table below, as well as the names of those volunteers from the PhD defense panel who chaired defenses. Their work is vital to the independence, objectivity and integrity of these processes. We appreciate their effort, especially since much of the demand for defenses happens at traditionally inconvenient times such as during July and August, or immediately before the end of term.

PhD Defences - May 1, 2009- April 30, 2010

Department	# of defences	# of Chairs from Dept	Name of Chair
Anatomy & Neurobiology	2	3	Dr. Currie (2), Dr. Rutherford (1)
Architecture & Planning			
Biochemistry	8	2	Dr. McMaster (1), Dr. Byers (1)
Biology	5	5	Dr. Leonard (1), Dr. MacRae (1), Dr. Adl (2), Dr. Lee (1)
Biomedical Engineering	2	2	Dr. Gregson (1), Dr. Lee (1)
Business Admin		4	Dr. Brooks (1), Dr. Curri (1), Dr. Toms (1), Dr. Hebb (1)
Chemistry	10	6	Dr. Boyd (2), Dr. Kwak (2), Dr. White (1), Dr. Burford (1)
Civil Engineering	7	2	Dr. Satish (1), Dr. Newhook (1)
Classics			
Computer Science	8	5	Dr. Milios (1), Dr. Heywood (1), Dr. Shepherd (1), Dr. Cox (1), Dr. Zincir-Heywood (1)
Earth Sciences	1	4	Dr. Jamieson (2), Dr. Gibling (2)
Economics	1		
Electrical Engineering	3	1	Dr. El-Hawry (1)
Engineering Math	1	1	Dr. Fenton (1)
English	2	3	Dr. Baxter (2), Dr. Furrow (1)
Food Science			
French	3		
H & HP		3	Dr. Unruh (2), Dr. Tirone (1)
History			
ID PhD	11	42	Dr. Watters (1), Dr. Marche (36), Dr. Pelzer (3), Dr. Lee (1)
Industrial Engineering	1	1	Dr. Pelot (1)
Law	3	1	Dr. Girard (1)
Library Sciences			

PhD Defences - May 1, 2009- April 30, 2010

Department	# of defences	# of Chairs from Dept	Name of Chair
Materials Engineering			
Math & Stats	2	3	Dr. Dilcher (2), Dr. Nowakowski (1)
Mechanical Engineering	1	2	Dr. Warkentin (2)
Medical Sciences		1	Dr. Evans (1)
Microbiology & Immunology	6	3	Dr. Hoskins (3)
Nursing	3		
Oceanography	4	2	Dr. Moore (2)
Pathology	1		
Pharmacology	2		
Philosophy		3	Dr. Sherwin (1), Dr. Burns (1), Dr. Hymers (1)
Physics	9	2	Dr. Dunlop (2)
Physiology & Biophysics			
Political Science	1	1	Dr. Davis (1)
Process Engineering	4	5	Dr. Yuet (1), Dr. Speers (1), Dr. Amyotte (1), Dr. Pegg (1), Dr. Watts (1)
Psychology	8	3	Dr. Klein (2), Dr. Stewart (1)
Social Work			
Sociology	1		
TOTAL	110	110	

4. Interdisciplinary PhD Program

The Interdisciplinary PhD (ID PhD) program at Dalhousie provides an opportunity for qualified students to undertake doctoral studies which transcend traditional disciplinary boundaries by combining the knowledge base, approaches, perspectives and insights of different academic areas. This program began at Dalhousie in 1984, and has grown to be one of the largest of its kind in Canada.

The program is administered through the Faculty of Graduate Studies. The admissions process is overseen by an ID PhD admissions committee. The committee consists of Marina Pluzhenskaya, Chair; David Black (Political Science & International Development Studies) (Fall 2009 only); Fay Cohen (ret'd, School for Resource and Environmental Studies); Susan Hutchinson (Health and Human Performance); Grace Paterson (Medical Informatics); Ronald Pelot (Industrial Engineering); George Turnbull (Faculty of Health Professions) (ex officio); and Matthew Numer (student representative).

In October 2009, the ID PhD Program Advisory committee was formed to assist the program's further development. The committee was established to achieve strategic planning goals for the program. The initial objective was to formalize policies and regulations of the program, with specific attention to the admissions process and requirements, the component and role of students' supervisory committees, and concerns for ID PhD students such as funding, office and student space, and thesis dissertations. The first meeting was held on November 25, 2009, with subsequent meetings on January 27 and March 10, 2010.

Dr. Sunny Marche chaired the November and January meetings. The first meeting of the committee was held in November 2009. The committee met regularly to work on the program's assessment and strategic plan.

The members of the Advisory Committee are: Mike Lee, Chair (Director of ID PhD); Marina Pluzhenskaya (Graduate Coordinator of ID PhD); Blye Frank (Medical Education); David Black (Political Science & International Development Studies); Fay Cohen (ret'd, School for Resource and Environmental Studies); George Turnbull (Faculty of Health Professions); Grace Paterson (Medical Informatics); Jack Duffy (ret'd, School of Business Administration); Jennifer Baechler (student rep); Matthew Numer (student rep); Raza Abidi (Health Informatics); Richard Apostle (SOSA); Ronald Pelot (Industrial Engineering); Susan Hutchinson (Health and Human Performance); and Elizabeth Clark (ID PhD Graduate Secretary).

Extracurricular Activities

Orientation Session

The tradition of welcoming new students to the program was restored. The Orientation session for the students admitted in 2009-2010 was held on Monday, October 5th, 2009. The students were greeted by the program's administration and guest speakers. (Guest speakers: Dr. Lynn Taylor, Director, Centre for Learning and Teaching; Dr. Jack Duffy, former ID PhD Graduate Coordinator; Jennifer L. MacDonald, Graduate Teaching Assistant, Centre for Learning and Teaching; Ms. Tina Shannon, Dalhousie Book Store's Manager).

Workshops

The following workshops were conducted to assist students in their studies:

- Information sources for interdisciplinary researchers (Joyline Makani, Subject Specialist, Killam library, ID PHD student);
- Introduction to RefWorks (Joyline Makani, Subject Specialist, Killam library, ID PHD student);
- Writing conference proposals (Dr. Marina Pluzhenskaya, ID PhD Graduate Coordinator);
- Publishing in scholarly journals (Dr. Raewyn Bassett, Faculty of Health Professions);
- Critical thinking and reflexive methodology (David Sable, Faculty Member, Saint Mary's University, ID PhD student; coordinated by Dr. Jack Duffy)

Alumni Panel Discussion

Panel discussion with the program's alumni was organized in order to establish and maintain connections between the program's graduates and its current students (Guest speakers: Drs. Lucia Fanning, Stacy Ackroyd, and Sandra Znajda).

Spring Research Roundtable

Spring Research Roundtable organized by the ID PhD Student Society was the highlight of the academic year. The students had an opportunity to present their research ideas and receive valuable feedback from their fellow PhD students and guests.

ID PhD Student Society

ID PhD Student Society executives and the program's activists had two meetings with the program's directors (Dr. Sunny Marche and Dr. Michael Lee). The meetings were organized in order to facilitate dialog between the ID PhD students and the program's administration.

Graduates:

In this period, we also celebrated 10 successful ID PhD defenses.

- Nicole Hartnell: *Identifying, Understanding, and Overcoming Barriers to Medication Error Reporting in Hospitals in Nova Scotia*
- Alessandro Zir: *The 16th C Corpus of the Portugese Colonizers About Brazil and Christian Neo-Platonism: An Approach in Terms of Styles of Thinking*
- Sandra Znajda: *Measuring change Without Numbers: Evaluating Social Development in Agroforestry Conservation and Development Initiatives in Nicaragua*
- Janet Curran-Smith: *Development of a Knowledge Exchange and Utilization Model for Emergency Practice*
- Hadi Kharrazi: *Can Video Games improve Adherence to Treatment in Children with Chronic Diseases?*
- Debbie Martin: *Food Stories: A Labrador Inuit-Metis Community Speaks about Global Change*
- Nancy Salmon: *"We Just Stick Together": Centering the Friendships of Disabled Youth*
- Alain Joseph: *Evaluating Bioenergy Supply Using Spatial Simulations*
- Paula Hutchinson: *Predictors of Better Health Outcomes in Mothers of Children with Autistic Spectrum Disorder*
- Nathan Pelletier: *What's At Steak? Ecological Economic Sustainability And The Ethical, Environmental, And Policy Implications For Global Livestock Production*

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.

Submitted 20 May 2010

Table 1: Departmental Allocations

Faculty	2007 Allocation (Sept 07 – Aug 08)	2008 Allocation (Sept 08 – Aug 09)	2009 Allocation (Sept 09 – Aug 10)	2010 Allocation (Sept 10 – Aug 11)
ARCHITECTURE				
Architecture	\$46,019	\$51,908	\$44,219	\$44,975
Planning	\$30,784	\$31,481	\$32,064	\$22,500
TOTAL ARCHITECTURE	\$76,803	\$83,389	\$76,283	\$67,475
COMPUTER SCIENCE				
Computer Science	\$232,769	\$189,235	\$188,270	\$190,616
TOTAL COMPUTER SCIENCE	\$232,769	\$189,235	\$188,270	\$190,616
ENGINEERING				
Biological Engineering	\$20,617	\$14,957		
Chemical Engineering	\$24,675	\$17,900		
Civil Engineering	\$72,578	\$74,879	\$87,776	\$75,020
Electrical Engineering	\$69,596	\$52,339	\$63,261	\$57,008
Environmental Engineering	\$3,493	\$4,387	\$2,899	\$5,518
Engineering Mathematics	\$16,853	\$17,783	\$12,395	\$26,915
Food Science	\$17,599	\$12,767		
Industrial Engineering	\$15,273	\$14,784	\$18,106	\$14,484
Mechanical Engineering	\$44,475	\$48,935	\$51,252	\$52,202
Materials Engineering	\$6,759	\$10,460		
Petroleum Engineering				\$15,000
Process Engineering & Applied Science (Note 1)			\$52,733	\$72,586
Mining Engineering	\$4,845	\$3,515	\$2,812	\$2,249
TOTAL ENGINEERING	\$296,763	\$272,706	\$291,233	\$320,982
FASS				
Classics	\$33,912	\$30,158	\$31,095	\$29,675
English	\$171,944	\$182,157	\$159,795	\$159,835
French	\$35,514	\$25,763	\$27,210	\$31,368
German	\$28,171	\$25,993	\$27,762	\$28,610
History	\$84,194	\$90,715	\$76,001	\$73,600
International Development Studies	\$49,459	\$43,289	\$54,188	\$52,950
Philosophy	\$72,903	\$73,262	\$69,492	\$71,594
Political Science	\$67,872	\$62,204	\$63,088	\$76,070
Sociology & Social Anthropology	\$55,019	\$76,960	\$80,154	\$86,523
Musicology			\$4,000	\$3,200
TOTAL FASS	\$598,988	\$610,501	\$592,786	\$613,425
HEALTH PROFESSIONS				
Clinical Vision Science	\$4,563	\$8,867	\$7,462	\$9,169
Health & Human Performance	\$40,891	\$48,188	\$52,243	\$44,994
Health Services Administration	\$37,479	\$34,812	\$34,149	\$35,000
Human Communication Disorders	\$84,210	\$89,841	\$92,652	\$94,600
Nursing	\$31,158	\$33,280	\$30,381	\$25,800
Occupational Therapy	\$25,301	\$37,956	\$43,365	\$60,000
Pharmacy				
Physiotherapy	\$30,956	\$47,504	\$65,903	\$86,000
Social Work	\$34,399	\$28,221	\$27,477	\$33,000

Faculty	2007 Allocation (Sept 07 – Aug 08)	2008 Allocation (Sept 08 – Aug 09)	2009 Allocation (Sept 09 – Aug 10)	2010 Allocation (Sept 10 – Aug 11)
TOTAL HEALTH PROFESSIONS	\$288,957	\$328,669	\$353,632	\$388,563
LAW				
Law	\$56,435	\$52,054	\$73,679	\$75,800
TOTAL LAW	\$56,435	\$52,054	\$73,679	\$75,800
MANAGEMENT				
Business Administration	\$96,001	\$94,690	\$86,552	\$30,000
Environmental Studies	\$60,282	\$61,705	\$66,310	\$78,600
Information Management	\$77,191	\$71,243	\$73,195	\$44,000
Marine Management	\$36,284	\$28,500	\$25,500	\$11,000
Public Administration	\$38,383	\$38,735	\$42,188	\$42,500
TOTAL MANAGEMENT	\$308,141	\$294,873	\$293,744	\$206,100
MEDICINE				
Anatomy & Neurobiology	\$59,239	\$44,826	\$55,050	\$53,640
Biochemistry	\$61,838	\$70,793	\$61,285	\$61,827
Community Health & Epidemiology	\$31,593	\$28,475	\$31,948	\$36,758
Microbiology & Immunology	\$72,463	\$91,467	\$95,549	\$102,039
Pathology	\$15,449	\$18,617	\$23,451	\$18,760
Pharmacology	\$53,549	\$55,518	\$60,918	\$56,734
Physiology & Biophysics	\$29,890	\$23,535	\$24,818	\$29,454
TOTAL MEDICINE	\$324,021	\$333,231	\$353,019	\$359,212
SCIENCE				
Biology	\$185,897	\$190,427	\$241,821	\$241,457
Chemistry	\$154,888	\$145,703	\$162,770	\$163,816
Earth Sciences	\$43,550	\$53,821	\$53,329	\$58,662
Economics	\$42,298	\$35,478	\$33,761	\$47,809
Mathematics	\$71,682	\$72,377	\$79,784	\$70,226
Oceanography	\$72,513	\$60,013	\$67,568	\$58,854
Physics	\$75,501	\$75,147	\$99,600	\$116,480
Psychology	\$180,389	\$204,955	\$187,937	\$193,549
Statistics	\$35,891	\$35,298	\$25,185	\$26,548
TOTAL SCIENCE	\$862,609	\$873,219	\$951,755	\$977,401
MULTIFACULTY/FGS				
Biomedical Engineering	\$42,656	\$51,320	\$38,739	\$43,790
Electronic Commerce	\$21,999	\$18,137	\$14,510	\$25,000
Health Informatics	\$7,999	\$7,981	\$7,285	\$9,000
Interdisciplinary PhD	\$100,425	\$111,751	\$140,377	\$165,101
TOTAL MULTIFACULTY/FGS	\$173,079	\$189,189	\$200,910	\$242,891
Total	\$3,218,565	\$3,227,066	\$3,375,311	\$3,442,465

Note 1: Process Engineering and Applied Science reported separately as Biological Engineering, Chemical Engineering, Food Science, and Materials Engineering prior to 2009.

FGS Student Research Grant & Conference Travel Funding

FGS grants for small research expenses and conference travel expenses for graduate students are awarded to support, or support in part, the 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 that virtually all research grants are 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 awards for conference travel grants are \$750 and for research grants \$800 (master's students) and \$1,500 (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. 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.

FGS Research Grant and Conference Travel Grant funding summary¹

	2005-06		2006-07		2007-08		2008-09		2009-10	
	Awards	\$ Total	Awards	\$ Total	Awards	\$ Total	Awards	Awards	Awards	\$ Total
Conference travel grants	184	131,236	158	106,797	180	127,570	140	100,432	165	119,658
Research grants	53	32,119	59	48,524	59	48,524	48	37,394	31	25,446
Total		163,355		155,321		155,321		137,826		145,104

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

Final Report on the 2009-2010 Dalhousie University Killam Lectures: “Oceans and Climate Change”

In keeping with the tradition and standards of the annual Dorothy J. Killam Memorial Lecture series, our goal this past year was to provide the Dalhousie community and the interested public of Halifax with a current assessment of major issues connected to oceans and global change.

Understanding, mitigating and adapting to the massive and accelerating man-made alterations of the global environment is not only the primary scientific issue for geoscientists today, it has also moved to the forefront of public concerns. We invited three leading world-class oceanographers working on complimentary research topics central to global change to make their science accessible to a broad audience of non-specialists. The speakers and topics were as follows:

- Professor **Andrew Weaver**, University of Victoria, “Global Warming: The Scale of the Problem and the Path to the Solution,” 1 October 2009, 7:30 p.m. (this lecture was co-sponsored by the Ransom A. Myers Lecture in Science and Society Committee).
- Professor **Louis Fortier**, Université Laval, “The Arctic Meltdown: An Alarming Symptom of Global Fever,” 26 November 2009, 7 p.m.
- Professor **Victoria Fabry**, California State University, “Ocean Acidification,” 3 December 2009, 7 p.m.

All lectures took place in the Ondaatje Auditorium, Marion McCain Arts and Social Sciences Building at Dalhousie University, which turned out to be a very appropriate and inviting venue. The first lecture was attended by nearly 500 people, while each of the following two drew an audience of about 250 people.

Lectures were followed by catered receptions that were very successful. The speakers mingled for more than an hour with audience members and many students took advantage of these opportunities to interact with the speakers directly.

George Cooper of the Killam Trust was invited to speak about the Killam Foundation, but unfortunately was not able to attend any of the lectures. Instead the first lecture was introduced by Killam Chair John Cullen, the second by Killam Professor Marlon Lewis and the third by Killam scholar Megan Saunders. All three acknowledged the Killam Foundation at the beginning of the introductions.

The first two speakers also presented a departmental seminar in Oceanography on the day following their Killam lecture. All speakers met with faculty and students individually as their schedules permitted.

Judging by the excellent attendance our publicity campaign was successful. The lectures were posted early on the Killam and Dalhousie Oceanography websites, made public via Notice Digest and DalNews, and were advertised on campus and more broadly in Halifax via posters. The first speaker, Andrew Weaver gave a TV interview in the morning and a radio interview in the afternoon of the day of his lecture. A local Halifax bookstore made copies of Weaver’s recent book “Keeping Our Cool: Canada in a Warming World” available during the reception following the lecture.

Initial planning of the lecture series assumed a budget of \$20,000 and invitations specifying the honorarium were sent out to three speakers based on these initial plans. The budget was subsequently reduced by 25%. This could have posed problems had the opportunity not arisen to jointly sponsor the first lecture with the Ransom A. Meyers Lecture committee. On the other hand, we do not feel that the size of the honorarium was a serious consideration for the three speakers in their decision to come to Dalhousie. The reduced budget may still be sufficient for hosting three speakers in the future, but will require careful planning from the outset.

Killam Lecture Committee 2009-2010:

- Katja Fennel, Oceanography, Chair
- Markus Kienast, Oceanography
- Anna Metaxas, Oceanography
- Tetjana Ross, Oceanography

Submitted by Katja Fennel
Oceanography
April 2010

2009-2010 Dalhousie University Killam Lectures: The Speakers and Their Topics

Professor **Andrew Weaver**, University of Victoria
"Global Climate Change and Implications for Canada"
1 October 2009

This lecture was be funded jointly by the Ram Myers fund and the Killam trust fund.

Professor Weaver's research focuses on the large-scale ocean circulation and the role of the oceans in climate, with a special emphasis on three-dimensional numerical modelling. Recent themes include the stability and variability of the global thermohaline circulation, feedbacks within the coupled air-sea-ice climate system and possible implications for both past and future climates. He holds a Canada Research Chair, is author of the book "Keeping Our Cool: Canada in a Warming World" (published by Viking Canada in 2008) and a major contributor to the Nobel prizewinning work of the IPCC.

Professor **Louis Fortier**, Université Laval
"The Warming Arctic Ocean"
26 Nov 2009

Professor Louis Fortier studies zooplankton and marine fish population dynamics with special emphasis on the Arctic Ocean and holds a Canada Research Chair on the response of arctic marine ecosystems to climate warming. He spearheaded two highly successful NSERC Research Networks on the response of the Arctic Ocean to global climate change. He is the leader of ArcticNet, a Network of Centres of Excellence, which brings together Canada's best arctic specialists in the natural, social and health sciences with the aim of anticipating the impacts of climate warming and modernization in the Arctic on the health and economy of northern communities and on the economy of Canada in general.

Professor **Victoria Fabry**, California State University
"Ocean Acidification"
3 Dec 2009

Professor Fabry's current research focuses on the sensitivity of calcareous organisms and marine ecosystems to elevated carbon dioxide and ocean acidification, and the dissolution kinetics of biogenic calcium carbonates in the upper ocean. She is member of several U.S. and international advisory committees, presented testimony to the U.S. Senate Committee on Commerce, Science, and Transportation on the "Impacts of Anthropogenic CO₂ on Coral Reefs and Other Marine Calcifiers" in 2004, and is among 19 environmental researchers from across North America who have been awarded Aldo Leopold Leadership Fellowships for 2009.

Academic Appeals Committee Annual Report 2009-2010

Membership 2009-2010

Name	Department	Term End
Patrick Bonnick	DAGS Rep	2010
Eric Snow	DAGS Rep	2010
Jason Gu	Electrical & Computer Engineering	2010
<i>3 vacancies</i>		2010

Reserve Panel: Members of FGS Faculty Council

Faculty Council in its June 2003 meeting 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, when necessary with members drawn from the Reserve Panel.

Since May 2009 the Academic Appeals Committee had four appeals resulting in the constitution of an Appeal committee. Three of these resulted in subsequent hearings.

I once again express my gratitude to the members of the Academic Appeals Committee for their efforts in resolving often complex questions of student rights, jurisdiction and regulation.

Submitted May 20, 2010
Carolyn Watters, Dean FGS

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