

**Faculty of Graduate Studies  
Annual Report  
2007**



**DALHOUSIE  
UNIVERSITY**

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*Inspiring Minds*

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## **Dean's Report**

While the role of FGS remains solidly in providing service to graduate students and graduate programs, the past few months have also been a time of change. Following last year's positive Senate review of the Faculty, the Associate Dean led us in the development of a Strategic Plan for the Faculty. The Long Term Plan of the Board of Governors lays out a low growth model for graduate studies at Dalhousie that provides us with an opportunity to consider options for graduate student funding that may improve our ability to compete for the best students nationally and internationally.

The Strategic Planning exercise, completed in February, highlighted several areas of importance to FGS, including graduate student funding, graduate recruitment, professional development, postdoctoral fellows, and fund raising. This has resulted in a series of initiatives to strengthen and broaden the scope of FGS.

- The Vice President Academic struck a Task Force to examine issues related to graduate student funding that began to meet in January, 2007. This committee has members from a broad range of disciplines and is planning to complete its work by mid summer.
- Over the past several months, FGS staff have been working to increase the visibility of graduate programs both on campus and off campus. They have developed a recruiting platform, in conjunction with other units on campus, that includes a program handbook and handouts as well as engagement in presentations at a variety of recruitment events.
- FGS staff organized short sessions for grad coordinators and for thesis students that have been very well attended by an estimated 30 staff members and 300 students.
- Research Services and FGS have completed an agreement to move responsibility for Post Doctoral Fellows to FGS. An additional Associate Dean will be selected and Graduate Studies will re-align the major responsibilities to increase the opportunities for the engagement of Post Docs in professional development programs and other services.
- The Associate Dean and I have been participating in 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.carolynwatters.typepad.com](http://www.carolynwatters.typepad.com).

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. Stephanie Theriault, the Thesis Clerk, has been replaced while on maternity leave by Christy MacDonald. Heather Nowlan has replaced Barb Baker as Admissions and Convocation Officer while Barb has been on maternity leave. Phuong Nguyen has replaced Heather in the role of Scholarship Clerk for the year. Our front desk receptionist is Leslie Field who filled this position after Brenda Glover left, for family reasons, for the West coast. We have also added a new position, Communications Clerk, and Nicole Fraser has this new responsibility, which includes updates to our Web site, calendar, and handbooks. Finally, Sunny Marche has joined us as Associate Dean, first in an acting capacity for 6 months, and then he was appointed to the position for the usual five year term.

Finally, this report would not be complete without an enthusiastic acknowledgement of all of the people who have contributed to FGS over the past year. Foremost, we recognize the accomplishments of Dean Jan Kwak during his five years in FGS. He set a new open and flexible course for FGS as the place to make things happen, as an office that can approach individual cases within the context of guidelines rather than rules. His careful management of faculty resources has also allowed us to engage in new initiatives without needing to reduce our base functions. FGS has benefited greatly from his tenure as Dean and I certainly have benefited greatly from his mentoring.

The FGS office staff have once again “punched above their weight” in providing service to all constituents and engaging in new initiatives and their dedication is impressive and greatly appreciated.

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 panels over the year. Clearly, the objectives of FGS could not be met without their effort.

May 10, 2007

Carolyn Watters, Dean  
Faculty of Graduate Studies

**This report covers the period of May 1, 2006 to April 30, 2007.**

## 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 1998, reported in table below show the remarkable changes in total enrolment over the last 8 years. The strong growth in graduate enrolments experienced between 1998 and 2002 slowed down and stabilized from 2003. Both full time and part time enrolments decreased at approximately the same rate. Overall, graduate enrolment remained steady last year.

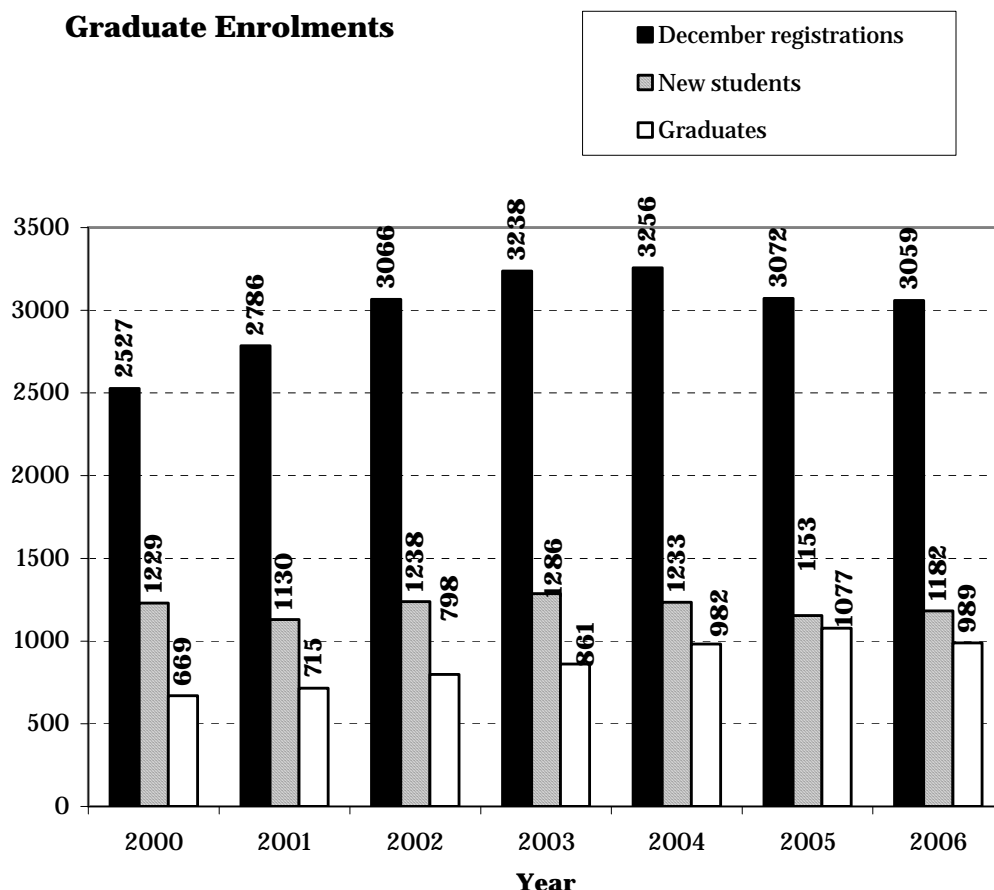
### Graduate enrolments 1998-2006 (December 1 “headcounts”) <sup>1</sup>

	<b>Full time</b>	<b>Part time</b>	<b>Total</b>	<b>Increase</b>	<b>FTE</b>	<b>International</b>
1998	1533	631	2164		1743	
1999	1616	766	2382	10.1%	1871	296
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%	2502	475
<b>2006</b>	<b>2267</b>	<b>792</b>	<b>3059</b>	<b>-0.4%</b>	<b>2531</b>	<b>412</b>

*1. Exclusive of medical post-graduate residents*

These numbers do not reflect the details for individual faculties and programs. Part time enrolment has decreased more from its peak in 2002 than full time enrolment from its peak in 2004. The decrease in international students (-63 or 14.4%) remains a concern. While the international differential fees are not a primary cause for the current international enrolment decline, there can be little doubt that these fees on top of high tuition are an important factor in recruitment of these students.

### Graduate Enrolments



### Enrolments by faculty and category

For the 2006-2007 academic year, there were 1015 newly registered graduate students starting in the fall term and another 167 started in the winter term, with 989 students graduating.

In 2005-2006 the major factors in the overall decline are the declines in computer science, engineering and management. In 2006-2007 we see the decline in computer science, engineering and management continued. Graduate enrolments in these three faculties are subject to cyclic market-driven variations. Each of these three faculties has developed strategies and programs that may attract new groups of students.

This year we also saw the effect of the shifting of licensing requirements for Occupational Therapy and Physical Therapy from the Bachelor to the Masters credential. This resulted in an increase of nearly 100 students into the Faculty of Graduate Studies. For the university, the gain of these programs in graduate registrations will of course be offset by a corresponding decrease in undergraduate numbers.

Doctoral programs continue to attract high quality students with a number of disciplines having put more emphasis on their doctoral programs.

## **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, departmental funding and Teaching Assistantships, etc. In 2006-07, financial support from all sources, internal and external, to Dalhousie graduate students exceeded 21 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 Dean's section of this annual report.

The FGS scholarship 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 a special account for scholarships and bursaries based on registrations and tuition income. The total of the FGS scholarship allocations to 56 graduate units or programs for 2006-07 was \$3,218,565.

The total FGS scholarship funds available, varies 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 2007-08 as well as the trend in FGS scholarship allocations in recent years. In addition, we provide a table that compares the allocation of FGS scholarships by Faculty and by FT student enrolment in each faculty.

Faculty Council, in its meeting of December 20, 2005 agreed to increase the minimum "full funding" levels to \$15,000 (master's level) and \$17,500 (Ph.D. 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 Ph.D. 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, 2006-2007 <sup>1</sup>

### Funding from Dalhousie University Sources

FGS Scholarships	\$ 3,335,565.00
<i>includes:</i> Departmental allocations, Eliza Ritchie Scholarship, James Robinson Johnston Scholarship, Nova Scotia Black and First Nations Graduate Entrance Scholarship	
Bursaries	13,440.72
Teaching Assistantships	1,678,803.27
Research Assistantships/Demonstrators	662,870.15
Departmental Funding	441,908.81
Killam Scholarships	811,109.95
Other Internal:	142,719.50
<i>Includes:</i> Bruce & Dorothy Rosetti Scholarship, Department of Surgery, Dover Mills, Glengarry Bursary, Mable Goudge, Northstar Trade Fellowship, Reid Scholarship, School of Nursing Scholarship, SRES General, Walter B Green Bursary	
Total internal sources:	\$ 7,086,417.40

### Funding from sources external to Dalhousie University

SSHRC	\$ 1,296,699.25
NSERC	2,533,975.67
Faculty Research Grants	7,981,552.21
CIHR	408,834.00
NSHRF	1,076,589.00
Summer	60,000.00
Other External:	961,055.50
<i>Includes:</i> AIRN Studentship Award, APENS, Atlantic Aboriginal Health Research Program, Autism Research Training Program, Canadian Cystic Fibrosis Foundation, CCFF Studentship, CIHR Cell Signals, CIHR PHARE, CIHR Rural Ctr, CIHR-Port Award, CRTP Studentship, CSA Contract, DFO, Dillon, DM Johnston MASc Scholarship, Exxon Mobile, FQRSC, FUTURE Program for Nurse Specialists, George Loh Scholarship, Gzowski Award, Hazel L. MacDonald Graduate Studentship, Health Law Institute CIHR Training Program, Hebb Prize, Howard Murray Endowment Fund, IWK Grad Studentship, Jean Kienapple Memorial Prize, John D. Watson Memorial Scholarship, Kirkpatrick, Libya Govt, Lung Association, Malcolm Ross Graduate Scholarship, Malhotra, McGregor Geoscience Ltd, Medjuck, Meyerhof, Multiple Sclerosis Society of Canada, National Program on Complex Data Structures, NSA or Architecture Scholar, Parkinson's Foundation, Pengrowth Scholarship, SASEP, Scottish Rite Foundation, Stanfield Scholarship, Steel Structures Education Foundation, Walter B Green Bursary, Women's Health in Rural Communities Research Group	
Total external sources	\$ 14,318,705.63

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**Total all sources** **\$ 21,405,123.03**

1. The TA/RA/Demonstrator totals cover the period May 1, 2006-April 20, 2007; all other amounts are for the academic year September 1, 2006 - August 31, 2007; obviously some minor changes may still occur in the coming three months.



As shown in the table of funding sources, the total funding for graduate students from all sources increased from \$21,313,525 in the 2005-06 academic year to \$21,405,123 in 2006-07. Over a six-year period, the total awarded from FGS scholarships has increased from \$2,344,713 to \$3,218,565 (not including special university scholarships such as the Eliza Ritchie and James Robinson Johnston and Black First Nations scholarships), an increase of 73%. The major contributors to the overall increase in graduate student funding have been external sources such as the granting councils (especially through the addition of the CGS awards) and, notably, supervisor research grants.

During the 2006-07 academic year a total of 1396 graduate students received scholarships or other funding administered by FGS (of all kinds combined, but not including payments by external or foreign agencies directly to students). This translates into an average funding level of \$15,760 per student receiving funding of any kind administered through the university. It should be recognized that this average of course hides a very large range of funding levels and students, especially at the Masters level who have no funding.

The launching in 2003 of the *Unama'ki-Fisheries and Oceans Canada Scholarship* tenable at Dalhousie University was noted in previous reports. The scholarship, fully sponsored by Fisheries and Oceans Canada, in support of research projects developed in cooperation with the Unama'ki Research Institute in Cape Breton, is valued at \$20,000 per year with an additional \$10,000 grant for research expenses. For 2005-06 the Unama'ki Scholarship Advisory Committee, consisting of representatives from Dalhousie, Fisheries and Oceans Canada, and the Unama'ki Research Institute, recommended renewal of the scholarship to Ms. Erin Breen, a doctoral student in the Department of Oceanography. Very recently the committee recommended renewal Ms. Breen's scholarship for a third and final year. The agreement between Dalhousie and Fisheries and Ocean's Canada was for a four-year period, with 2006-07 as the final year.

The *Nova Scotia Black and First Nations Graduate Entrance Scholarship* is intended specifically to encourage African Canadian and First Nations students graduating from Dalhousie undergraduate programs to enter one of our a 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. Initially derived from FGS funds, the scholarships will eventually be funded from the university budget. The first two scholarships were awarded to Tionda Cain, Social Work and Katrina Hill, Sociology and Social Anthropology for the 2006-07 academic year.

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 SSHRC scholarships 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. NSERC plans to begin delegation of the award of PGS-M and NSERC CGS-M scholarships fully to the university. Such a change would not make a significant difference in the selection procedure within FGS, which is already very rigorous, but questions regarding global vs. discipline-based quota are still unresolved. CIHR also awards universities a quota of CGS-M nominations with the final selection process at the national level.

The award statistics for scholarships from the three granting councils to Dalhousie students for 2005, 2006, and 2007, are presented in the next table. Note that the numbers in the last column are for the 2007 competition, i.e., for students taking up their awards in the 2007-08 academic year. We cannot yet report the number of awards for 2007-2008, because some Dalhousie students take up their awards at other universities and a number of students from elsewhere bring their award to Dalhousie, which accounts for the difference between new awards to Dalhousie and new awards held. Also not included are the new CIHR CGS-M awards, as these have not yet been announced.

### National granting council scholarships awarded and held, 2005-2007

		2005 <sup>1</sup>	2006 <sup>1</sup>	2007 <sup>2</sup>
<b>NSERC</b>	Master's Nominations (CGS-M, PGS-M)	41	42	39
	Master's Awards CGS-M	11	13	18
	PGS-M	19	12	16
	Doctoral Nominations (CGS-D, PGS-D)	41	41	39
	Doctoral Awards CGS-D	8	10	5
	PGS-D	23	11	21
	<b>NSERC New awards to Dalhousie</b>	<b>61</b>	<b>51</b>	<b>49</b>
	<b>NSERC Total new awards held</b>	<b>66</b>	<b>53</b>	
	<b>NSERC Awards total held all years</b>	197	250	
<b>SSHRC</b>	Master's Nominations (CGS-M)	21	18	19
	Master's Awards CGS-M	21	18	19
	Doctoral Nominations	21	25	26
	Doctoral Awards CGS-D	9	6	6
	SSHRC-D	9	7	9
	<b>SSHRC New awards to Dalhousie</b>	<b>39</b>	<b>31</b>	<b>34</b>
	<b>SSHRC Total new awards held</b>	<b>43</b>	<b>33</b>	
		<b>SSHRC Awards total held all years</b>	97	130
<b>CIHR</b>	Master's Nominations	8	8	7
	Master's Awards CGS-M	2	2	TBA
	CGS-D/Doctoral	3	5	2/0
	<b>CIHR New awards to Dalhousie</b>	<b>5</b>	<b>7</b>	
	<b>CIHR Total new awards held</b>	<b>6</b>	<b>15</b>	
	<b>CIHR Awards total held all years</b>	<b>15</b>	<b>30</b>	
	<b>Total Tri-Council new awards</b>	<b>105</b>	<b>101</b>	
	<b>Total Tri-Council awards held (all years)</b>	<b>309</b>	<b>503</b>	

1. 2005 and 2006 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. For awards in 2007 initial awards (April 2007) only

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 two 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. Eight Dalhousie graduate students held NSERC IPS awards during all or part of the 2006-07 academic year. 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. The 100% success rate (still!) for Dalhousie IPS applications easily compensates 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, in the case of NSERC, for converting the CGS-M award to a PGS-M in the second year, 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. 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 in some cases the Atlantic Advisory Committee on Health Human Resources (AACHHR). The review by FGS normally includes a report from an internal review committee and from one or two external experts. In 2006-07 the following new program proposals and program modifications were reviewed in FGS.

#### **New programs:**

- PhD Social Anthropology. Approved by FGS and Senate. Approval by MPHEC pending. First class expected September 2007.

#### **Major program modifications and change of degree names and degree designations:**

- Master of International Health Services Management MIHSA. Approved by FGS and Senate. Degree name change from the earlier Master of Health Services Administration (International), MHSA(I).
- MSc and PhD in Biochemistry and Molecular Biology. Approved by FGS, approval by Senate pending. Degree name change approved from the previous MSc and PhD in Biochemistry.

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 the undergraduate programs reviews. In other faculties FGS reviews are also carried out, wherever feasible, in combination with various faculty-based reviews, or as post-accreditation reviews. 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 2006:

- Department of Mechanical Engineering: MEng, MASc and PhD programs
- Department of Biochemistry and Molecular Biology: MSc and PhD programs.

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

- School of Biomedical Engineering (joint with multi-faculty Headship review): MSc and PhD programs
- Department of German (joint with FASS): MA program
- Department of Economics (joint with FScience): MA, MDE and PhD programs
- Department of Chemistry (joint with FScience): MSc and PhD programs
- Department of Anatomy and Neurobiology (joint with FMedicine First Term Survey): MSc and PhD programs
- Department of Physiology and Biophysics (joint with FMedicine First Term Survey): MSc and PhD.

Reviews of graduate programs in the Faculty of Medicine are, whenever possible, combined with headship/survey reviews. The most recent examples are the reviews of the MSc and PhD programs in the Department of Anatomy and Neurobiology, and the Department of Physiology and Biophysics.

Programs that are subject to accreditation reviews by external agencies often have a shorter review cycle (5 years is typical). 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.

The *Interdisciplinary PhD program* is a graduate unit within FGS, and reporting directly to FGS. The Associate Dean of FGS, Sunny Marche, is Director for the IDPhD program and works with a Coordinator, Jack Duffy, 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 has grown from 14 in 2002 to 70 in December 2006.

#### **4. FGS administration and regulations**

University, faculty, and departmental regulations relating to graduate students are summarized in the Graduate Calendar. A review of the FGS Governance Manual was completed in 2005. Section III of the Governance Manual of FGS is now 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](http://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. The many and various forms are placed on the web allowing for electronic completion and submission. The FGS web site is updated weekly and now 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.

Faculty Council discussed and approved a number of policy and regulation changes this year.

One of the more vexing problems for a number of years now has been the establishment of an Intellectual Property (IP) policy for graduate students. While awaiting the university's Legal Counsel's advice on the IP document prepared by FGS, in practice, when asked for information on our IP policy, we have been relying on the general, and relatively simple principles outlined in that document. At the same time, we are aware that the university is considering overall and university-wide IP rules to which our graduate student policies could refer. The IP regulations as stated in the NSERC IPS contract between the university, the student, and the collaborating company have in virtually all cases been acceptable to the parties involved with applications for projects funded by these scholarships.

Under the guidance of the Associate Dean, a process has been completed to set up a system for electronic thesis submission. Once operational, thesis submission to FGS, format checking, submission to the University library and to the National Library can all be done electronically. The objective is to introduce a dual submission system (electronic and "paper" options) summer 2007.

The Banner component to handle all FGS administrative systems (admissions, financial, and program) from the internal FGS database to Banner is expected to be operational shortly. This will greatly simplify data entry and transfer of data between different administrative units especially for student finances. It will also allow direct access to financial records, admission status, etc. on line, of course with various levels of security and access restrictions. Online graduate application software is also in production.

## **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 pre-doctoral 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 2007 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.

The Faculty of Graduate Studies, 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 2006-2007 academic year, the Killam Scholarship Committee received well over 100 nominations and awarded 35 new and 55 renewal scholarships.

For the 2007-08 academic year the committee has awarded 50 new scholarships (11 of those students being paid from a one time Killam account carry forward) and 54 renewals. Ten new applications were placed on a waiting list. While it is not impossible that some further new awards will still be made, the necessary increase in scholarship award amounts have resulted in an increased overall cost. This increase has to be accommodated within an allocation of endowment funds that has actually decreased slightly since 2001 and is expected to start increasing modestly again only in 2008. Still, the number of pre-doctoral scholarships has not decreased, largely because more of the awards are "honorary", i.e., as a "top-up" for students receiving major external scholarships. Of the 50 students awarded new scholarships in 2007, 32 have received external scholarships, and thus become honorary Killam Scholars. Of the 54 renewal Killam Scholars, 24 hold major external awards. It is in a way disappointing that only 3 new awards are to international students. Of the renewals, 8 are international students, again a number lower than would have been the case a few years ago. The Killam Scholarship Committee has discussed the difficulty of comparing transcripts and records internationally and across disciplines, and undoubtedly will continue such discussions of the selection criteria.

This year the budget allowed for the award of six Killam Postdoctoral Fellowships, with one being paid from the one time Killam account carry forward. The Postdoctoral Fellowship Committee has an exceedingly difficult task in selecting the winning candidates from among a very strong field of applicants representing widely different disciplines. With five initial awards and a waiting list of 12, 2 of the initial award winners declined, and the first two candidates on the waiting list subsequently accepted. This allowed us to offer the third person on the waiting list a Killam Postdoctoral Fellowship to be paid from the special account. 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. This year the Killam Postdoctoral Fellowship amount increased from \$40,000 plus \$3,000 for research and \$1,000 for travel to \$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 2006 Killam Lecture Series starting in October 2006 was in the area of human-computer interactions. The organizing committee was headed by Dr. Elaine Toms of the School of Business Administration. A call for proposals for the 2007 Lecture Series has gone out.

FGS hosted the Killam Dinner in conjunction with the annual visit by the Killam Trustees on October 30, 2006. While definitely more traditional than the parties some of our scholarship holders may have attended the previous evening, the more than 232 guests enjoyed a very lively reception and dinner in the McInnis Room of the Student Union, highlighted by the after dinner presentation of Olaf Kristjansdottir in the Interdisciplinary PhD Program. Special guests included Managing Trustee George Cooper, and Trustees John Matthews, Ann McCaig and Robert Wyman. The evening was opened by President Traves, who also welcomed Wayne Doggett, Sr. Executive Director for Higher Education in Nova Scotia, Dr. Richard Goldbloom, Chancellor of Dalhousie University, John Newhall, Killam Trustee from the United States, and of course the guests for whom the dinner is organized in the first place, 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 at least once 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. The first meeting of the Killam Trust Committee was held in June 2006.

## **6. Students**

The convocation lists for the 2006 May and October convocations combined included 890 master's degrees, 97 PhD and JSD degrees, and 2 diplomas awarded, for a total of 989 graduates. This is compared to a total of 798 in 2002, 861 in 2003, 982 in 2004 and 1077 in 2005. A study of the completion statistics carried out last year found that for the cohort of master's students admitted in 2000-01, 82% had completed their program and graduated within 3 years, while for the 1999-00 cohort of doctoral students 36% (30 of 85 admissions) had completed their program and graduated within 14 terms (4.67 years). Our conclusion is that the completion rates for master's students are high and certainly satisfactory. For doctoral students, large differences by discipline are noted. We can only track admission cohorts since the introduction of the Banner system in 1998, and for this reason studies of completion rates at the doctoral level have lagged the data for master's level admission cohorts.

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 2006 Gold Medals were presented at the May 2006 convocation to Jeffrey Wilson, an MA graduate of the International Development Studies program, and to Sophie Baker, an MSc graduate in the Department of Earth Sciences. These exceptional students were selected from 15 departmental nomination files, representing a master's level graduating class of 994 students. The citations for Mr. Wilson and Ms. Baker in part read as follows.

***Jeffrey S. Wilson***

*The Governor General's Gold Medal in the Humanities and Social Sciences for 2006 is awarded to Jeffrey Wilson. Jeffrey Wilson graduated with the degree Master of Arts in International Development Studies in the October 2005 convocation. The title of his Master's thesis is "A Comparison of Sustainable Development Indicator Metrics and the Need for Ecological Thresholds: Which Way Are We Going?".*

*An expert in "footprint analysis", Jeffrey Wilson achieved an outstanding record in an eclectic program of graduate classes in international development studies, environmental studies, and political science. His thesis provides an important analysis of the challenges faced by the global community when relying on existing metrics to guide decision-making for a sustainable future. His work has resulted in two publications and he has co-authored a number of important technical reports on ecological footprint studies in different areas.*

*Before joining the International Development Studies program Jeffrey Wilson had obtained an Honours Bachelors degree from the University of Waterloo. At Dalhousie, he also distinguished himself in student affairs, serving as President of the Dalhousie Association of Graduate Students.*

***Sophie Baker***

*The Governor General's Gold Medal in the Natural Sciences and Engineering for 2006 is awarded to Sophie Baker. Sophie Baker graduated with the degree Master of Science in Earth Sciences in the October 2005 convocation. The title of her Master's thesis was: "The Quaternary History of the Rio Diamante, Mendoza Province, Argentina." Before joining the*



*Department of Earth Sciences at Dalhousie, she had completed a BA (First Class Honours) degree in Geology at Trinity College of the University of Dublin.*

*In her Master's thesis, Sophie Baker presents an important and lasting contribution to the understanding of the rapid rising of the Andes foothills. She has provided meticulous documentation of the tectonic deformation of stream sediment, and her geochemical research on volcanic ash has provided a powerful marker allowing for the correlation of the geological records of stream deposits in different valleys. Recipient of the Fahnestock Memorial Research Award of the Geological Society of America, two important papers based on her Master's thesis research are being published in major international journals.*

The winners of the 2007 Governor General's Gold Medals, selected from 9 nominations, will be announced at this meeting.

The Dalhousie University Doctoral Thesis Awards were established in 2004, and the first awards were presented at the May 2004 convocation. For 2006 the Faculty of Graduate Studies Doctoral Thesis Awards were presented to Dr. Meinhard Doelle of the Faculty of Law for the category humanities and social sciences, and Dr. Michael Rygel of the Department of Earth Sciences 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.

### ***Meinhard Doelle***

*The Dalhousie University Doctoral Thesis Award in the Humanities and Social Sciences for 2006 is awarded to Meinhard Doelle. Dr. Doelle graduated with the degree Doctor of the Science of Law, JSD in the October 2005 convocation. The title of his Doctoral thesis was: "From Hot Air to Action: Climate Change, Compliance, and the Future of International Environmental Law".*

*Dr. Doelle's doctoral dissertation is concerned with issues of international law relating to environmental and climate change. The thesis argues for a coherent and integrated approach to regime compliance in international law, and concludes by visioning the future of international environmental law and governance. In the words of David Suzuki: "Meinhard Doelle's examination of the international community's attempts to grapple with the challenge of climate change through the Kyoto Protocol is essential reading for anyone concerned about the future of humanity and our capacity to change it for the better".*

### ***Michael Rygel***

*The Dalhousie University Doctoral Thesis Award in the Natural and Medical Sciences and Engineering for 2006 is awarded to Michael Rygel. Dr. Rygel graduated with the degree Doctor of Philosophy in Earth Sciences in the October 2005 convocation. The title of his Doctoral thesis is: "Alluvial Sedimentology and Basin Analysis of Carboniferous Strata Near Joggins, Nova Scotia, Atlantic Canada." After completing postdoctoral research, Dr. Rygel*

*will take up a faculty position at the Statue University of New York–Potsdam in September 2006.*

*In his Doctoral thesis, Dr. Rygel presents the most comprehensive contribution to the geology of Joggins since the work of Lyell in the 1800s. He has created a visual column of strata – filling 20 journals pages – that will allow paleontologists to place their discoveries in the correct rock layer. This work, presented together in the thesis with theories that explain enhanced subsidence due to withdrawal of a layer of rock salt, and the identification of a diverse suite of vegetation-induced sedimentary structures, will serve the paleontology community for decades.*

The winners of the 2007 FGS Doctoral Thesis awards will be announced at this 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, 2006)

*Engineering and Computer Science category:*

*Dr. Maen Artimy, Department of Engineering Mathematics, PhD awarded May 2006, for his thesis “Modeling of Transmission Range in Vehicular Ad Hoc Networks”.*

CAGS Distinguished Doctoral Dissertation Award. (submitted March 2007)

*Fine Arts, Humanities and Social Sciences category:*

*Dr. Celeste Lefebvre, Department of Psychology, PhD to be awarded May 2007, for her thesis “The Use of Event-Related Brain Potentials (ERPs) to Assess Eyewitness Identification Accuracy”.*

*Engineering, Medical and Natural Sciences category:*

*Dr. Felix Hanke, Department of Physics, PhD to be awarded May 2007, for his thesis “The Mechanical Response of Macromolecules In and Out of Equilibrium”.*

NAGS Master's Thesis Award, 2007

*Category Social Sciences and Education for the three-year period 2004-2007 (submitted January and awarded in March 2007).*

*Jeffrey Wilson, Department of International Development Studies, MA awarded October 2005, for his thesis “A Comparison of Sustainable Development Indicator Matrices and the Need for Ecological Thresholds: Which Way Are We Going?”.*

Of course these external award competitions are highly selective. CAGS represents more than 50 Canadian universities, NAGS more than 100 American and Canadian institutions. It is nevertheless 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 can also be 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 competition. 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. With CGS-D awards in 2006 to 10 of our NSERC nominations, 6 of our SSHRC nominations, and 3 CIHR applicants, Dalhousie is very well represented in this award list. The success rate of our nominations in the 2006 SSHRC doctoral competition: 13 of 25 nominations were successful, 6 receiving a CGS-D awards and 7 a SSHRC Doctoral Scholarship. Also, all of our 20 SSHRC CGS-M nominations (including 1 student nominated on the King's quota) were approved at the national level.

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. It is important to recognize that overall we attract more national scholarship holders than our students receive awards, indicating the continued ability of our graduate programs to attract outstanding students from across the country. It should be noted however that in order to maintain this level of competitiveness in attracting students with national scholarships, departments and programs will have to recruit actively, and as a faculty and university we will have to be able to offer attractive scholarship top-ups as well as attractive programs.

Some other remarkable successes of our students merit mentioning. Meredith Schwartz (Philosophy) was awarded the extremely prestigious Trudeau Scholarship in the 2006 competition. This doctoral scholarship, valued at up to \$50,000 per year for three or even 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, and Meredith joins Lilith Finkler and Jay Batongbacal, former Trudeau Scholarship winners as the three remarkable Dalhousie graduate students successful in this most selective national competition. In 2006, Dalhousie had two new MSc students, Constance Adsett (Computer Science) and Aimee Pelletier (SRES), as winners of NSERC's national Julie Payette award. Other achievements of our graduate students can from time-to-time be featured on the FGS web site. Departments are encouraged to report such special cases to FGS.

## **Associate Dean's Report**

### **Associate Dean's Report**

During the 2006 - 2007 Academic Year, the Faculty was involved with the usual range of scholarship, curricular and thesis activities. Dr. Sunny Marche returned from a sabbatical leave to take over Acting Associate Dean responsibilities from Dr. John Rutherford who served until June 30, 2006. Effective January 2007, Dr. Marche was appointed to the Associate Dean position for a five year term.

Both Dr. Watters and Dr. Marche wish to thank the Faculty staff for their support, help and expertise throughout the year. Their dedication 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.

### **1. Scholarships**

The following section will outline all of the scholarship competitions and processes held during the 2006-07 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 submit 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 2006-2007 was \$3,218,568, a slight increase from the 2005-2006 total of \$3,205,319.

By way of explanation, the First Round Allocation to each department or unit is 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 are 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. In some years, so-called "auxiliary funds" may be available for allocation in the next fiscal year.

A total of 537 points were accrued by departments for the 2006-2007 allocation year, a slight increase over the 510 point total for 2005-2006. 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*

This year, renewal applications were divided up among Committee members, as a result of which each application was reviewed by two members of the Committee who, when questions arose, brought their concerns to the full committee for discussion. In total, 54 applications were submitted for review, 6 from students in master's programs and 48 from students in doctoral programs. The Committee 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 students accepted into their graduate programs but who are not yet at Dalhousie, and for students who have already begun their studies here but who do not hold Killam scholarships.

Committee members reviewed and rated all files and submitted their individual rankings to FGS to be collated. These initial rankings were then considered at a meeting of the Committee held on March 15. In all, 96 nominations were received. From the ranked list, 50 new Killam scholarships were awarded, and 10 further names were placed on a wait list.

*Table 2 at the end of this section of the Report presents the results of this year's Killam competition.*

*Killam Trustees:* George Cooper, M. Ann McCaig, John Matthews, Robert Wyman

*Killam Administrator:* Danielle Walsh

### **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 locale (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 Robert Finbow (Political Science), and Sunny Marche (Associate Dean, FGS) reviewed seven applications for the open scholarship and three applications for the traveling scholarship. The Committee recommended that two applications in each of the open and traveling categories be forwarded to the University of British Columbia for consideration by the MacKenzie King Scholarship Selection Committee.

### **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 Valerie Chappe (Physiology and Biophysics), Roman Smirnov (Mathematics and Statistics) and Sunny Marche (Associate Dean, FGS) reviewed the files of seven applicants. The Committee recommended that a new Ritchie scholarship be awarded to one student, Ami Harbin (Philosophy). The Committee also recommended renewal of Ritchie Scholarships for Yuen Ying Carpenter (Chemistry), Jane Tougas (Computer Science), Rhonda Dupuis (English), and Sherry Huybers (ID PhD).

### **James Robinson Johnston Scholarship for African Canadians**

The James Robinson Johnston Scholarship 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 committee consisting of, Sunny Marche (Associate Dean, FGS) and Wanda Thomas Bernard (Social Work) met to consider six applicants for new awards, and two renewals. The following recipients were named:

*Renewal*                      Lahoma Thomas (IDS)  
                                      Bryan Daniels (Anatomy)

*New*                              Charlene Davis (English)

### **Nova Scotia Black and First Nations Graduate Entrance Scholarships**

The objective of the African Nova Scotian 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 committee consisting of Sunny Marche (Associate Dean, FGS, Wanda Thomas Bernard (Social Work) met to consider 1 application for a new award, and two renewals. The following recipients were named:

*Renewal*                      Tionda Cain (Social Work)  
                                      Katrina Hill (SOSA)

*New*                              Samantha Loppie (SOSA)

## **The Vitamin Scholarship**

The Faculty of Graduate Studies is pleased to announce a new scholarship 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 is renewable for one additional year at the Ph.D. level. 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) (2007-2008) for a twelve-month academic year.

## **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:* Philip Girard (Law), Daniel Labrie (Physics and Atmospheric Science), Todd McCallum (History), Steven Barnes (Neuroscience), Helmuth Thomas (Oceanography), Dean Irvine (English)

*Killam Trustees:* George Cooper, M. Ann McCaig, John Matthews, Robert Wyman

*Killam Administrator:* Danielle Walsh

There were 35 applications submitted for this year's competition, 19 from women and 16 from men, put forward by 24 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 12, 2007. 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*

Clint Kelly	Psychology
Georgios Papadopoulos	Math and Stats
Mausam Verma	Process Engineering
Nicole Hassoun	Philosophy
Heather Jamniczky	Biology

### *Wait List*

Linnea Veinotte	Microbiology
Kirstin Borgerson	Philosophy
Jean-Pierre Glaunec	History
Andrew Lui	Political Science
Eunsoo Kim	Biochemistry
Khan Wahid	Electrical Engineering
Brian Starsomski	SRES
Robert Ronconi	Biology
Jessica Riddell	English
Shashi Gujar	Microbiology
Alexis Shotwell	Women Studies
Raymond Mar	Psychology

Two people (Nicole Hassoun and Heather Jamniczky) declined the offer of a Killam PDF, as a result of which Linnea Veinotte and Kirstin Borgerson, the first two people wait list, were offered and accepted a fellowship. We were also able to offer a fellowship to Jean-Pierre Le Glaunec, third person on the waitlist, from a special one time Killam fund. This fellowship was also accepted.

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

<b>Year</b>	<b>Total held</b>	<b>F/M</b>	<b>Science &amp; Engineering</b>	<b>Discipline</b>	<b>Humanities &amp; Social Sciences</b>	<b>Discipline</b>
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. 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 Committee consisted of Jennifer Smith (Political Science), Jane Curran (German), John Baxter (English) and Pauline Gardiner-Barber (SOSA). The SSHRC CGS Master's award committee comprised Elizabeth Edwards (King's College), Robert Martin (Philosophy), Wayne Hankey (Classics), and was chaired by Sunny Marche (Associate Dean, FGS).

A total of 51 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, 2007. The initial rank ordered list was discussed and two final, alphabetical lists – an “A” list consisting of applicants ranked in the top 26 positions, and a “B” list comprising all the rest – were prepared and sent forward. Fifteen of the top 26 applicants (58%) were funded, 6 with CGS-D scholarships and 9 with fellowships. This compared to 13 doctoral scholarships (6 CGS-D and 7 Fellowships) awarded last year.

For the Master's competition, much the same procedure was followed. The Committee met on January 22, 2007, to consider 40 applications for Master's scholarships from which a list of the top 19 names, accompanied by a wait list of 5 names, were prepared and sent forward to SSHRC. All those in the top 19 were awarded CGS-M scholarships. This compares with 18 such awards made last year.

### **4. Walter C. Sumner Memorial Fellowships for Doctoral Studies in Chemistry, Physics, Electrical Engineering or Computing 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 Jacek Ilow (Electrical and Computer Engineering), Jürgen Kreuzer (Physics and Atmospheric Science), Mark Stradiotto (Chemistry), and Sunny Marche (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.

The Committee considered 18 files for new awards and 4 files for renewal, compared to a total of 26 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 27, 2007, to determine the final rankings, which were then forwarded to the Foundation. At the time of this report final results of this competition were not received from the Sumner Foundation.

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## **5. Natural Sciences and Engineering Research Council (NSERC) Postgraduate Scholarships Competition Committee**

*Committee Membership:* Graham Gagnon (Civil Engineering), Jordan Kyriakidid (Physics), Steven Morris (Anatomy and Neurobiology), Sina Adl (Biology), David Scott (Earth Sciences), Mark Stradiotto (Chemistry), Catherine Too (Biochemistry), Sunny Marche (Associate Dean, FGS)

Two sub-committees were formed from among the members; one, chaired by Sunny Marche established the ranking for the PGS-M, while the other, chaired by Mark Stradiotto, ranked applicants for the PGS-D. Each Committee member read and rated all the applications allocated to that committee before the final meeting at which a ranked list to be forwarded to NSERC was produced. A total of 78 applications (39 PGS-M, 39 PGS-D) were recommended for scholarships. Sixty scholarships were awarded by NSERC (compared to 51 for last year), 16 PGS-M, 21 PGS-D, 18 CGS-M, and 5 CGS-D.

## **6. Canadian Institute of Health Research (CIHR) CGS–M Competition Committee**

The CIHR CGS-M committee consisted of Marie Earl (Physiotherapy), Susan Howlett (Pharmacology), Marilyn MacDonald (Nursing), and Craig McCormick (Microbiology) and was chaired by Sunny Marche (Associate Dean, FGS). Committee members ranked 15 applications, and then met on January 29, 2007 to finalize the list. Of these, 7 applicants were sent forward to CIHR for consideration for awards.

FGS was not involved in coordinating the CIHR doctoral competition, although it is anticipated that it will be in the coming year. For information, zero CIHR CGS-D and two CIHR Doctoral scholarships were awarded to Dalhousie students this year.

## **7. Curriculum Matters**

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

For the period between June, 2006, and May, 2007, the Committee considered and approved the following:

New Classes.....	91
Cross Listings.....	7
Minor Changes* .....	29
Removals.....	2

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

## **8. Theses and Defences**

Masters and doctoral theses for all programs, excepting those in Engineering and Architecture and Planning, are format checked and accepted by FGS. Doctoral defences for all programs except Engineering 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 July 1, 2006, until the date of this Report, 79 defences have been conducted. This compares to 62 defences held over a similar period in the previous year, and 65 defences held in the year before that.

The numbers of PhD defences, enumerated by department, are listed in the table below.

<b>Department</b>	<b>Doctoral Defences</b>
Anatomy & Neurobiology .....	2
Biochemistry & Molecular Biology .....	4
Biological Engineering .....	2
Biology.....	10
Biomedical Engineering.....	1
Chemical Engineering.....	1
Chemistry .....	12
Civil Engineering .....	2
Computer Science .....	5
Earth Sciences .....	5
Electrical and Computer Engineering.....	1
Engineering Mathematics.....	2
English .....	1
French .....	3
History.....	1
Industrial Engineering .....	1
Interdisciplinary PhD .....	3
Mathematics & Statistics .....	2
Mechanical Engineering .....	1
Medical Sciences .....	1
Microbiology & Immunology.....	6
Oceanography .....	1
Pharmacology .....	3
Philosophy.....	1
Physics & Atmospheric Science .....	1
Psychology.....	7

## **9. Interdisciplinary PhD Program**

The Interdisciplinary PhD (ID PhD) program at Dalhousie provides an opportunity for qualified students to undertake studies at the doctoral level 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 Graduate Faculty and is overseen by an ID PhD committee. The Committee this year consisted of Jack Duffy (Business Administration), David Black (Political Science), Graham Gagnon (Civil and Resource Engineering), Susan Hutchinson (Health and Human Performance), and Peter Tyedmers (Resource and Environmental Studies). Sunny Marche (Associate Dean, FGS) acts as the Director, Jack Duffy as the graduate coordinator for the program, with Marsha Scott serving as Graduate Secretary and Administrator.

Interest in, and demand for this program is intense. There are currently 70 students in the ID PhD. Scholarship support for these students is derived from a wide variety of sources, including NSERC, SSHRC, CIHR, NSHRF, Killam, Trudeau, and Eliza Ritchie awards.

The program continued the Interdisciplinary Speaker Series, in which the following seminars were presented:

<b>Topic</b>	<b>Presenter</b>
<i>Limping Along: Canadian Renewable Energy Policy and the PhD Process. Tales from the Front Lines</i>	Judith Lipp, September 21, 2006
<i>The Globalization of GMOs: Tracing Globalization among Plant Scientists</i>	Christina Holmes, September 28, 2006
<i>Managing Your Academic Career: An Overview</i>	Jack Duffy and Sunny Marche, October 12, 2006
<i>Human Resource Systems for Isolated Environments: Research I Might Do Before I Die.</i>	Jack Duffy, October 19, 2006
<i>Post-colonial theory/issues</i>	Patricia Evans, October 26, 2006
<i>How to Supervise a PhD Student: Lessons Learned from the School of Hard Knocks</i>	Gary Latham, Rotman School of Management, November 2nd, 2006
<i>Ethics Submissions: Keeping It Simple</i>	Huddy van Wilgenburg, November 16, 2006
<i>Exploring the influence of conservation/development projects on poverty alleviation</i>	Sandra Znadja, December 7, 2006
<i>Tips to help you use Dalhousie library's collection of resources and tools more efficiently and effectively for your research needs</i>	Joyline Makani, January 11, 2007
<i>Stirred, Not Shaken: Building Interdisciplinary Mental Health Practice in Rural Communities</i>	Elizabeth Church, January 18, 2007
<i>What I Have Learned From Chairing PhD Defences</i>	Sunny Marche, January 25, 2007

<b>Topic</b>	<b>Presenter</b>
<i>The impact that modern information, communication and technology (ICTs) are having on impoverished rural and urban women's social and economic empowerment in the third world: A research question.</i>	Marian Pelletier, February 1, 2007
<i>Contextualizing your methodology as complementary to theorizing your methodology</i>	David Fletcher, March 8, 2007
<i>Being Empowered When you get your First Post-PhD Job</i>	Jerry Singleton, March 15, 2007
<i>The Trials and Tribulations of Writing and Winning Grants</i>	Jonathon Borwein, Pat McGrath, Trevor Ross, March 29, 2007
<i>Bridging Two Solitudes: Cure, Care, and the Ethics of Uncertainty?</i>	Cathy Simpson, April 5, 2007
<i>Thesis Information Session for IDPHD students</i>	Christy MacDonald, April 12, 2007

## **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 10 May 2007

Sunny Marche, Associate Dean  
Faculty of Graduate Studies

**Table 1: Departmental Allocations**

Faculty	Allocation								
	1999	2000	2001	2002	2003	2004	2005	2006	2007
<b>ARCHITECTURE</b>									
Architecture	42,354	40,547	37,888	32,549	38,551	47,030	45,696	46,236	46,019
Planning	22,255	22,802	17,530	15,936	18,316	20,790	24,403	24,366	30,784
<b>TOTAL ARCHITECTURE</b>	<b>64,609</b>	<b>63,349</b>	<b>55,418</b>	<b>48,485</b>	<b>56,867</b>	<b>67,819</b>	<b>70,100</b>	<b>70,602</b>	<b>76,803</b>
<b>COMPUTER SCIENCE</b>									
Computer Science	60,637	76,832	124,630	184,930	232,591	290,690	277,318	265,585	232,769
<b>TOTAL COMPUTER SCIENCE</b>	<b>60,637</b>	<b>76,832</b>	<b>124,630</b>	<b>184,930</b>	<b>232,591</b>	<b>290,690</b>	<b>277,317</b>	<b>265,585</b>	<b>232,769</b>
<b>ENGINEERING</b>									
Biological Engineering	14,000	11,200	15,360	19,062	23,579	22,058	17,899	21,539	20,617
Chemical Engineering	16,225	14,646	16,279	29,604	27,935	31,007	30,183	26,612	24,675
Civil Engineering	17,732	24,182	32,321	50,854	62,896	75,896	71,631	76,616	72,578
Electrical Engineering	15,723	19,243	32,044	40,836	46,591	63,080	72,532	78,535	69,596
Environmental Engineering							3,520	4,367	3,493
Engineering Mathematics	12,202	11,428	8,905	8,898	12,655	20,367	20,294	21,069	16,853
Food Science	15,220	17,174	16,227	16,505	14,650	13,705	17,399	16,354	17,599
Industrial Engineering	11,702	16,026	16,671	18,500	16,255	15,207	14,851	19,093	15,273
Mechanical Engineering	17,230	17,116	19,618	24,168	27,686	31,992	39,772	41,483	44,475
Metallurgical Engineering (Note 1)								8,449	6,759
Mining & Metallurgical Engineering	14,718	11,774	14,220	16,500	13,272	12,416	15,097		
Mining Engineering (Note 1)								6,057	4,845
<b>TOTAL ENGINEERING</b>	<b>134,752</b>	<b>142,789</b>	<b>171,645</b>	<b>224,927</b>	<b>245,520</b>	<b>285,728</b>	<b>303,178</b>	<b>320,174</b>	<b>296,763</b>
<b>FASS</b>									
Classics	23,591	23,871	19,984	24,467	25,178	28,427	26,834	31,101	33,912
English	193,494	176,454	171,677	162,936	154,424	173,704	174,854	172,602	171,944
French	48,351	42,013	41,136	40,095	36,374	38,901	42,867	41,574	35,514
German	30,042	34,030	29,000	33,456	33,783	36,477	32,111	28,159	28,171
History	72,381	77,897	64,269	70,396	66,244	76,592	83,496	89,725	84,194
International Development Studies		11,500	15,600	22,522	23,613	37,929	43,334	49,125	49,459
Philosophy	56,834	53,798	57,851	68,422	67,405	77,678	78,099	77,022	72,903
Political Science	65,509	75,732	78,062	76,755	74,108	77,857	69,455	66,497	67,872
Sociology & Social Anthropology	44,303	43,773	49,831	52,086	54,266	59,294	60,670	54,664	55,019
Women's Studies	14,108	14,618	11,220	9,156					
<b>TOTAL FASS</b>	<b>548,613</b>	<b>553,686</b>	<b>538,630</b>	<b>560,291</b>	<b>535,395</b>	<b>606,859</b>	<b>611,720</b>	<b>610,469</b>	<b>598,988</b>
<b>HEALTH PROFESSIONS</b>									
Clinical Vision Science							0		4,563
Health & Human Performance	36,461	32,501	28,726	38,128	37,541	43,648	44,207	42,650	40,891
Health Services Administration	14,017	17,877	16,552	21,666	22,925	27,538	32,391	35,560	37,479
Human Communication Disorders	47,114	54,351	52,307	49,211	46,455	50,769	67,564	68,568	84,210
Nursing	14,361	14,821	11,382	9,288	10,220	9,561	17,803	26,246	31,158
Occupational Therapy			12,045	9,829	9,280	12,337	11,266	9,040	25,301
Pharmacy									
Physiotherapy	12,437	11,615	9,055	7,389	5,943	5,560	4,512	4,816	30,956
Social Work	15,270	20,546	21,650	22,562	27,769	30,851	33,824	33,121	34,399
<b>TOTAL HEALTH PROFESSIONS</b>	<b>139,660</b>	<b>151,711</b>	<b>151,717</b>	<b>158,073</b>	<b>160,133</b>	<b>180,264</b>	<b>211,567</b>	<b>220,001</b>	<b>288,957</b>

Faculty	Allocation								
	1999	2000	2001	2002	2003	2004	2005	2006	2007
<b>LAW</b>									
Law	35,749	48,591	47,224	51,591	52,493	68,601	65,711	63,493	56,435
<b>TOTAL LAW</b>	<b>35,749</b>	<b>48,591</b>	<b>47,224</b>	<b>51,591</b>	<b>52,493</b>	<b>68,601</b>	<b>65,711</b>	<b>63,493</b>	<b>56,435</b>
<b>MANAGEMENT</b>									
Business Administration	46,981	50,913	56,432	67,265	71,973	90,479	93,509	91,779	96,001
Environmental Studies	51,689	53,014	47,149	48,266	49,819	66,099	64,938	64,068	60,282
Information Management	56,292	55,030	53,800	61,853	59,373	65,290	70,558	78,147	77,191
Marine Management (Note 2)								42,537	36,284
Public Administration	18,653	29,917	28,197	29,537	25,133	30,822	33,800	36,690	38,383
<b>TOTAL MANAGEMENT</b>	<b>173,615</b>	<b>188,874</b>	<b>185,578</b>	<b>206,921</b>	<b>206,297</b>	<b>252,690</b>	<b>262,805</b>	<b>313,221</b>	<b>308,141</b>
<b>MEDICINE</b>									
Anatomy & Neurobiology	37,359	43,215	51,873	57,016	52,733	60,297	63,996	58,528	59,239
Biochemistry	60,214	59,833	60,605	59,246	60,025	59,808	53,554	56,130	61,838
Community Health & Epidemiology	13,988	17,854	24,534	23,284	21,477	31,057	31,480	32,437	31,593
Microbiology & Immunology	47,406	57,917	56,285	63,881	65,127	71,892	67,126	69,413	72,463
Pathology	12,499	11,666	10,695	13,623	12,332	18,847	19,060	16,490	15,449
Pharmacology	42,164	40,395	42,567	49,423	49,375	54,719	54,446	55,650	53,549
Physiology & Biophysics	28,201	27,559	22,935	25,243	24,428	30,162	34,520	28,896	29,890
<b>TOTAL MEDICINE</b>	<b>241,831</b>	<b>258,439</b>	<b>269,494</b>	<b>291,716</b>	<b>285,497</b>	<b>326,782</b>	<b>324,182</b>	<b>317,544</b>	<b>324,021</b>
<b>SCIENCE</b>									
Biology	165,934	176,064	176,279	187,908	184,131	211,242	199,036	187,222	185,897
Chemistry	141,884	141,830	133,428	134,989	162,183	183,399	181,466	161,162	154,888
Earth Sciences	35,828	35,327	35,312	45,135	43,177	53,794	51,185	53,033	43,550
Economics	42,420	43,932	33,721	29,148	31,692	41,831	42,733	48,643	42,298
Mathematics	94,518	100,605	61,431	59,920	60,567	63,970	58,187	67,024	71,682
Oceanography	68,088	82,793	76,599	69,033	62,399	68,121	65,322	59,593	72,513
Physics	45,560	53,108	44,913	51,337	49,540	57,310	61,571	66,152	75,501
Psychology	176,329	172,718	175,264	175,655	177,024	191,192	181,511	180,335	180,389
Statistics	5,215	9,170	38,116	34,367	34,515	34,726	31,945	36,399	35,891
<b>TOTAL SCIENCE</b>	<b>775,776</b>	<b>815,547</b>	<b>775,063</b>	<b>787,492</b>	<b>805,228</b>	<b>905,585</b>	<b>872,957</b>	<b>859,563</b>	<b>862,609</b>
<b>MULTIFACULTY/FGS</b>									
Biomedical Engineering						45,000	55,486	50,503	42,656
Electronic Commerce				12,345	25,049	25,870	26,015	23,267	21,999
Health Informatics						4,873	7,721	8,588	7,999
Interdisciplinary PhD				12,345	12,679	44,756	73,986	91,663	100,425
Marine Management	39,458	44,895	45,217	43,425	39,052	46,280	42,577		
<b>TOTAL MULTIFACULTI/FGS</b>	<b>39,458</b>	<b>44,895</b>	<b>45,217</b>	<b>68,115</b>	<b>76,780</b>	<b>166,780</b>	<b>205,784</b>	<b>174,021</b>	<b>173,079</b>
<b>TOTAL</b>	<b>2,214,700</b>	<b>2,344,713</b>	<b>2,364,616</b>	<b>2,582,541</b>	<b>2,656,801</b>	<b>3,151,798</b>	<b>3,205,321</b>	<b>3,214,673</b>	<b>3,218,565</b>

**Note 1:** Materials and Mining Engineering reported separately in 2006, were reported combined as Metallurgical and Mining Engineering before 2006

**Note 2:** Marine management reported as Marine Affairs Program in FGS until 2005, in Faculty of Management 2006

**Table 2: Killam Predoctoral – Renewals**

Department	Last Name	Given Names	Gender	Degree	Citizenship	External Funding Source	Net Killam Award
Anatomy	Junek	Adrienne	F	MSc	Canadian		\$20,000.00
Anatomy	Mukhida	Karim	M	PhD	Canadian	Parkisons	\$0.00
Biochemistry	Uribe	Elke	F	PhD	Mexican		\$30,190.00
Biology	Calvert	Anna	F	PhD	Canadian		\$25,000.00
Biology	Lyons	Devin	M	PhD	Canadian	NSERC PGSD	\$2,667.00
Biology	Weir	Laura	F	PhD	Canadian		\$8,333.00
Biomedical Eng	Dyck	Christopher	M	PhD	Canadian	NSHRF	\$3,313.00
Chemistry	Campagna-Slater	Valerie	F	PhD	Canadian		\$25,000.00
Chemistry	Carpenter	Yuen-ying	F	PhD	Canadian	Eliza Ritchie/NSERC	\$0.00
Chemistry	Hochreiner	Hannes	M	PhD	Austrian		\$25,000.00
Chemistry	Rockwell	Gregory	M	PhD	Canadian	NSERC CGSD	\$0.00
Chemistry	Taylor	Alexis	F	PhD	Canadian	NSERC PGSD	\$4,000.00
Chemistry	Thornton	Paul	M	PhD	Canadian		\$25,000.00
Civil Eng	Gibbons	Meaghan	F	PhD	Canadian	NSERC PGSD	\$11,000.00
Classics	Wilband	Marie	F	MA	Canadian		\$20,000.00
Computer Science	Adsett	Constance	F	MSc	Canadian		\$20,000.00
Computer Science	Lichodzjewski	Peter	M	PhD	Canadian		\$25,000.00
Computer Science	Macklem	Mason	M	PhD	Canadian		\$25,000.00
Computer Science	Tougas	Jane	F	PhD	Canadian	NSERC CGSD	\$1,667.00
Earth Sciences	Barresi	Tony	M	PhD	Canadian		\$25,000.00
Earth Sciences	Bashforth	Arden	M	PhD	Canadian		\$25,000.00
Earth Sciences	Dolansky	Lila	F	PhD	Canadian	NSERC CGSD	\$0.00
Earth Sciences	Gradmann	Sofie	F	PhD	German		\$30,190.00
Engineering Math	Long	Aaron	M	PhD	Canadian	NSERC CGSD	\$0.00
English	Beare	Nicole	F	PhD	Canadian	SSHRC Doctoral	\$5,000.00
English	Lewis	Kelley	F	PhD	Canadian		\$25,000.00
History	Chikowero	Moses	M	PhD	Zimbabwean		\$8,333.00
History	Dore	Anne	F	PhD	Canadian		\$25,000.00
History	Tait	William	M	MA	Canadian		\$20,000.00
Interdisciplinary PhD	Belluccini	Federica	F	PhD	Italian		\$8,333.00
Interdisciplinary PhD	Huybers	Sherry	F	PhD	Canadian	Eliza Ritchie	\$1,000.00
Interdisciplinary PhD	Kristjansdottir	Olof	F	PhD	Icelandic		\$25,000.00
Interdisciplinary PhD	Middleton	Laura	F	PhD	Canadian		\$25,000.00
Interdisciplinary PhD	O'Brien	Heather	F	PhD	Canadian	SSHRC Doctoral	\$5,000.00
Interdisciplinary PhD	Terashima	Mikiko	F	PhD	Canadian		\$25,000.00
Math and Stats	Noble	Rob	M	PhD	Canadian	PGSD	\$4,000.00
Oceanography	Algar	Christopher	M	PhD	Canadian	NSERC PGSD	\$4,000.00
Pathology	Renault	Nisa	F	PhD	Canadian	CIHR D	\$4,000.00
Pharmacology	Hudson	Brian	M	PhD	Canadian	NSERC PGSD	\$4,000.00
Philosophy	Behme	Christina	F	PhD	German		\$30,190.00
Philosophy	Heiti	Warren	M	PhD	Canadian		\$25,000.00
Philosophy	Schwartz	Meredith	F	PhD	Canadian	Trudeau	\$0.00
Physics	Brewer	Kimberly	F	PhD	Canadian	NSERC PGSD	\$4,000.00
Physics	Chevrier	Vincent	M	PhD	Canadian	NSERC CGSD	\$0.00
Physics	Croft	Betty	F	PhD	Canadian	NSERC CGSD	\$0.00
Physics	Jakubinek	Michael	M	PhD	Canadian		\$25,000.00
Physics	Patterson	Steven	M	MSc	Canadian		\$20,000.00
Physics	Ryan	Gillian	F	PhD	Canadian	NSERC PGSD	\$4,000.00
Psychology	Bandstra	Nancy	F	PhD	American		\$30,190.00
Psychology	Dukewich	Kristie	F	PhD	Canadian		\$8,333.00
Psychology	Fawcett	Jonathan	M	MSc	Canadian		\$20,000.00
Psychology	Fulton	Heather	F	PhD	Canadian		\$25,000.00
Psychology	Ishigami	Yoko	F	PhD	Japanese		\$30,190.00
Statistics	Blanchard	Wade	M	PhD	Canadian	NSERC PGSD	\$4,000.00



**Table 3: Killam Predoctoral – New**

Department	Last Name	First Name	Gender	Degree	External Funding Source	Net Killam
Biochemistry & Molecular Biology	Parks	Natalie	F	MSc	NSERC CGSM	\$2,500.00
Biochemistry & Molecular Biology	Pinder	Jordan	M	MSc	NSERC CGSM	\$2,500.00
Biochemistry & Molecular Biology	Gawryluk	Ryan	M	PhD		\$25,000.00
Biological Engineering	VanderZaag	Andrew	M	PhD	NSERC PGSD	\$4,000.00
Biology	Gero	Shane	M	PhD	NSERC CGSD	\$0.00
Biology	Zemlak	Tyler	M	PhD	NSERC PGSD	\$4,000.00
Biomedical Engineering	Green	Anthony	M	PhD		\$25,000.00
Biomedical Engineering	Rutherford	Derek	M	PhD	NSHRF	\$4,970.00
Chemistry	MacDonald	Frank	M	MSc	NSERC CGSM	\$2,500.00
Chemistry	Kern	Robert	M	MSc	NSERC PGSM	\$2,700.00
Classics	Riggs	Timothy	M	MA	SSHRC CGSM	\$2,500.00
Community Health and Epidemiology	Wilson	Emily	F	MSc		\$20,000.00
Computer Science	Abouzied	Azza	F	MCS	NSERC CGSM	\$2,500.00
Computer Science	Hamilton	Christopher	M	PhD		\$25,000.00
Computer Science	Zhang	Ji	M	PhD		\$30,190.00
Earth Sciences	Braid	James	M	MSc	NSERC PGSM	\$2,700.00
Electrical and Computer Engineering	Ibrahim	Walid	M	PhD		\$30,190.00
English	Rodd	Mary	F	PhD		\$25,000.00
English	Mauro	Aaron	M	PhD	SSHRC CGSD	\$0.00
English	Vautour	Bart	M	PhD	SSHRC CGSD	\$0.00
English	Goossen	Jonathan	M	PhD	SSHRC CGSD	\$0.00
French	Takam	Alain	M	PhD		\$30,190.00
Health and Human Performance	Lys	Candice	F	MA	SSHRC CGSM	\$2,500.00
History	Stanley	David	M	MA		\$25,000.00
History	Harding	Robert	M	PhD	SSHRC Doc	\$5,000.00
Interdisciplinary Studies	Wilson	Jeffrey	M	PhD	NSERC CGSD	\$0.00
Interdisciplinary Studies	Pelletier	Nathaniel	M	PhD	NSERC CGSD	\$0.00
International Development Studies	Cameron	Melissa	F	MA		\$20,000.00
Law	Heffernan	Porter	M	LLM		\$20,000.00
Mathematics and Statistics	Wares	Trevor	M	MSc	NSERC CGSM	\$2,500.00
Mathematics and Statistics	Hoefel	Andrew	M	PhD		\$25,000.00
Mathematics and Statistics	Allen	Meghan	F	PhD	NSERC PGSD	\$4,000.00
Mathematics and Statistics	McKay	Neil	M	PhD	NSERC PGSD	\$4,000.00
Oceanography	Saunders	Meghan	F	PhD	NSERC CGSD	\$0.00
Oceanography	Yorke	Alana	F	MSc	NSERC CGSM	\$2,500.00
Pathology	Kepkey	Rosemarie	F	MSc	NSERC CGSM	\$2,500.00
Philosophy	Harbin	Ami	F	PhD	SSHRC CGSD	\$0.00
Philosophy	Suderman	Devin	M	MA		\$20,000.00
Physics and Atmospheric Science	Rioux	James	M	MSc	NSERC CGSM	\$2,500.00
Physics and Atmospheric Science	Staple	Douglas	M	MSc	NSERC CGSM	\$2,500.00
Physics and Atmospheric Science	Glistler	Jacqueline	F	PhD		\$25,000.00
Physics and Atmospheric Science	Tamblyn	Isaac	M	PhD	NSERC PGSD	\$4,000.00
Planning	Thompson	Katherine	F	MPS		\$20,000.00
Psychology	Mazerolle	Erin	F	PhD	NSERC PGSD	\$4,000.00
Psychology	Filliter	Jillian	F	PhD	NSERC CGSM	\$7,500.00
Psychology	ten Brinke	Leanne	F	MSc	NSERC CGSM	\$2,500.00
Psychology	Scantlebury	Jordan	M	MSc		\$20,000.00
Sociology and Social Anthropology	Leon	Jenny	F	MA	SSHRC CGSM	\$2,500.00
Sociology and Social Anthropology	Aubrecht	Catherine	F	PhD	SSHRC CGSD	\$0.00

## **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, 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.

Reacting to increased travel and research costs, in 2003-04 the maximum awards for conference travel grants was raised to \$750 (from \$500) and for research grants to \$800 (master's students, from \$600) and \$1,500 (doctoral students, from \$1,300). However, each award is assessed based on need as explained in the application's budget submission, and the maximum amount is not necessarily awarded. The total assistance provided to students by these two grant programs has doubled in just three years. 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. Further increases in demand for these funds are not sustainable. Unless a new funding source for these two programs is identified, a change in the eligibility criteria is unavoidable. This matter will undoubtedly come before Council in the near future.

### **FGS Research Grant and Conference Travel Grant funding summary<sup>1</sup>**

	2003-04		2004-05		2005-06		2006-07	
	Awards	\$ Total	Awards	\$ Total	Awards	\$ Total	Awards	\$ Total
Conference travel grants	148	83,250	165	115,743	184	131,236	158	106,797
Research grants	33	16,752	37	29,261	53	32,119	59	48,524
<b>Total</b>		<b>100,002</b>		<b>145,004</b>		<b>163,355</b>		<b>155,321</b>

<sup>1</sup> Total expenses are for the fiscal year period April 1 - March 31.

## **Final Report on the 2006 Dalhousie University Killam Lectures: “Exploring Human Interactions with Information Technology”**

The lectures were as follows:

Daniel M. Russell, Google Inc.  
*How do Google Searchers Behave? Improving Search by Divining Intent*  
Wednesday, October 4 at 8:00 pm

Karel Vredenburg, IBM  
*Trends in Human-Centred Technology*  
Wednesday, October 25 at 8:00 pm

Andrew Dillon, University of Texas at Austin  
*Putting the Social into the Technical: By Design Not By Chance*  
Friday, March 16, 2007 at 4:00 pm

The principal theme of the 2006 Killam Lectures explored technology from the human perspective. How do we design technologies to engage people, help them solve problems effectively and efficiently, facilitate human activities of individuals and groups, and improve the quality of their experiences and ultimately of life?

All three talks were held in the Potter Family Auditorium, Rowe Management Building. The first and third were the best attended. Overall, we estimate that about 800 people attended in total. The audience included a cross-section of students, faculty, and community members. After each talk, a lively question and answer (Q&A) session was held; notably students asked the bulk of the questions, and all question periods had to be cut short due to time. The Potter Auditorium proved to be a suitable space for the talks, as the rooms lends itself to an agora-like setting.

We also wanted to expose the ideas of the speakers to a broad audience beyond that reached on the evenings of the lectures. In this we were most successful with Dan Russell, who appeared on the CBC 5:00PM program on the day of his lecture and was interviewed by the Mail Star and the Daily News. We were not as successful in getting the same type of exposure for the other two speakers.

Two of the talks were held on Thursday nights at 8:00PM and the third on a Friday at 4:00PM. The third had the most successful post-talk reception; given the time of day, we had a cash bar. In the case of the previous two talks, a 9:00PM reception was too late. Despite the lively Q&A sessions that ended both, most people left immediately after the formal session. Timing is critical for talks like this, and we believe that the 8:00PM time slot is too late at night. Many people commented on this as well.

In addition to the formal talk, we developed a format for the speakers' visits that was extremely effective. On the day after the talk, each speaker:

- a) met privately with graduate students who would benefit the most from such a meeting. It is not surprising that the students were thrilled with the opportunity of discussing their work one-on-one with a leading researcher.

- b) met with small groups of students and faculty in the Faculties of Computer Science and Management for Q&A sessions as was recommended by the 2005 Killam organizers; this too was equally successful.
- c) met with a small group of students and faculty over an informal lunch. This event replaced the usual small lunch gathering with a few faculty. It proved to be a wonderful networking opportunity for both the speaker and our students and faculty. In each case, 20 to 40 people were invited.

Faculty and students, in particular, welcomed these additional opportunities, and our invited speakers also commented on the value of the small group experiences. We targeted some of our professional program students as well as our research students as it was an opportunity for those students to see the problem domain from a different perspective. In addition, one of the talks, the last, was videotaped; this was done because of the number of requests from people who could not attend.

To publicize the event, we used all internal mechanisms available to us. Surprisingly, the printed poster was the most successful. With the current spam problem, e-mail has become an undesirable mechanism for sending unexpected messages. We were fortunate in having all three prominently promoted on the University homepage for the same day as or day in advance of the talks. Otherwise, the talks were buried too deep in the University website to be found except by the fully informed. We also sent personal invitations to individuals and groups on and off campus using existing mailing lists from our respective units. A strategy for publicity that could be passed from Committee to Committee would be ideal.

The Killam Lecture concept is an invaluable opportunity for the University. Both faculty and students have responded very favourably to the opportunities that emerged from this event.

Elaine Toms  
Canada Research Chair in Management Informatics, Faculty of Management

Carolyn Watters  
Dean, Faculty of Graduate Studies

April 23, 2007

## **2006 Killam Lecture Series: The Speakers and Their Topics**

### **Exploring Human Interactions with Information Technology October 4, 2006; October 25, 2006; and March 16, 2007**

*Information technology has invaded our personal and professional lives and dramatically changed the way we participate in everyday activities from health care to shopping. This series explored technology from the human perspective. How do we design technologies that engage people, help them solve problems effectively and efficiently, facilitate human activities of individuals and groups in ways to improve the quality of their experiences and ultimately of their lives.*

All lectures took place at the Potter Family Auditorium, Rowe Management Building, Room 1028, 6100 University Avenue, Dalhousie University, Halifax, Nova Scotia.

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#### **How do Google Searchers Behave: Improving Search by Divining Intent**

**Date & Time:** Wednesday, October 4, 2006 at 8:00 pm

**Speaker:** Daniel M. Russell, Google Inc.

Web search engines are very interested in understanding what users are trying to do. To a certain degree, this means discerning the intent of a search in the queries and patterns of behaviour. In this lecture, Dr. Russell discussed what search engines do in order to understand what users have in mind demonstrating with examples of queries and user sessions. He addressed some of the techniques used to analyze the data and outline the size and scope of the problem. In particular, he focused on the problem of combining data in the small (field studies, usability studies) with data in the large (log data analysis of millions of interactions), illustrating how to improve our understanding of users by combining the best insights from both ends of the spectrum.

**Daniel M. Russell** is a Senior Research Scientist at Google Inc. and is working to improve search quality and user experience. Before joining Google, he was a Senior Scientist and Senior Manager at the IBM Almaden Research Center in San Jose, California, and was an instructor at Stanford University and Santa Clara University. He is best known for his work on Blueboard, IBM's large groupware display system, and for establishing the basis of sensemaking theory while at Xerox Palo Alto Research Center (PARC), where he is involved in studying the uses of information visualization techniques. Dr. Russell has also worked in Apple's Advanced Technology Group where he studied issues of innovative user experience design, sensemaking, shared awareness of individual state, and knowledge-based use of complex heterogeneous information. He received a B.S. in Information and Computer Science from the U.C. Irvine, and completed his M.S. and Ph.D. in Computer Science at the University of Rochester.

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#### **Trends in Human-Centred Technology**

**Date & Time:** Wednesday, October 25, 2006 at 8:00 pm

**Speaker:** Karel Vredenburg, IBM

Why does technology often disappoint? How is it that some companies can design awesome products and others can't? What advances in Internet technology may drastically change the way that companies, governments, universities, societies and you work in the future? This talk responded to these questions

and more by providing an overview of progress in creating technology that improves people's lives. It examined the evolution of applied research methods used by companies to design technology for humans and discussed the challenges that remain. Some recent trends in Internet technology were illustrated and their potential positive and negative impact explored.

**Karel Vredenburg** is the Program Director of IBM's Corporate Design Leadership and Development Enablement. He joined IBM after completing graduate studies, research, and teaching at the University of Toronto. In his current position, Dr. Vredenburg is responsible for IBM's design team and the development of the organization's design approaches, methods, and tools and their operation. In 1993, he introduced User-Centred Design at IBM. He has written more than 60 conference and journal publications and published a book entitled *User-Centered Design: An Integrated Approach* (2001). He is a member of several committees including the ISO Human Centered Design Committee, the National Science and Engineering Research Council Education Committee, and the National Institute for Standards and Technology Usability Testing Working Group.

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**Putting the Social into the Technical: By Design Not By Chance**

**Date & Time:** Friday, March 16, 2007 at 4:00 pm

**Speaker:** Andrew Dillon, University of Texas at Austin

The deluge of data enabled by today's technologies places great emphasis on transformed virtual resources and services that are changing our world. This lecture discussed the reality that adapting to this transformation tends to assume simplistic adoption and use patterns by people, but that these rarely play out as expected. In the emerging world of networked data and technologies, there is a tremendous need to better understand the human and social factors that ultimately shape our designed world. Dr. Dillon emphasized the critical importance of addressing this need since it transcends traditional disciplinary divides, conceiving information as both product and process in real lives.

**Andrew Dillon** is Professor of Information, Psychology, and Information, Risk & Operations Management, and Dean, School of Information at the University of Texas at Austin. Since graduating from University College Cork and Loughborough University of Technology, Dr. Dillon has been called "something of an iconoclast when it comes to academics" having held appointments in a multitude of units (cognitive science, computer science, instructional systems technology, psychology, management information system, curriculum and instruction, to library and information science and informatics). He has been an active researcher of the human response to information technology for the last 15 years. His 100+ papers have focused on many aspects of people and their interaction with technology, advocating systems that work for people to augment and enhance their lives.

## **Academic Appeals Committee Annual Report 2006-2007**

### **Membership 2006-2007**

Susan Campbell	Philosophy	2007
Ted Hubbard	Mechanical Engineering	2007
Reem Rostom	DAGS representative	2007
Christina Luckyj	English	2008
Louise Spiteri	Library and Information Studies	2008
Jill Grant	Planning	2009

*Reserve Panel:* members of FGS Faculty Council

Faculty Council in its June 2003 meeting changed the composition of the FGS Academic Appeals Committee to 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 2006 the Academic Appeals Committee had two appeals resulting in the constitution of an Appeal committee and 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 10, 2007  
Carolyn Watters, Dean FGS

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