

**Faculty of Graduate Studies  
Annual Report  
2011**



**DALHOUSIE  
UNIVERSITY**

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*Inspiring Minds*



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## **Dean's Report**

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

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

- The situation for graduate student funding continues to be a serious challenge in Nova Scotia. FGS will continue to work with funding agencies and fund raisers to keep the profile of graduate students and post docs in sight. FGS staff have chosen fund raising for student travel grants as their project for the Bold Ambitions campaign.
- The FGS recruitment team, headed by Wendy Fletcher, has developed a recruiting platform and material for the national market and for the increasingly active international markets. The recruitment team has prepared material and videos, made presentations at a variety of recruitment events, and maintained a Facebook page for new graduate students.
- Graduate student space. General graduate student work space has been established on the third floor of the Mona Campbell Building. Also, a number of shared offices on the 4<sup>th</sup> floor of the Goldberg Computer Science Building have been assigned to PhD students that are within four to five terms of completing their degree.
- The new PhD Defence Room (Coburg Board Room) is being heavily utilized for PhD defences. The feedback for this room has been very positive, and with defence bookings being the priority for the use of this room, many hours of staff time have been recovered as finding rooms for defences had been extremely difficult.
- We expect to review the suspended personal and professional development certificate program in the next year to see how we can extend its reach and its traction.
- We have two proposed projects to significantly improve service delivery for graduate students in the next year, one of which is underway – Graduate Student Information System Phase III to digitize annual student progress reports and program requirement lists in conjunction with a digital workflow management system.
- Associate Dean Pelzer, working with Senate, has been instrumental in the development of a university process and timeline for new program approvals, program modifications and reviews of graduate programs.
- Policies and services for postdoctoral fellows on campus have been established. The responsibility for developing policy and programs is in the portfolio of Acting Associate Dean Lee.
- Outreach. FGS staff organized short sessions for graduate coordinators and graduate secretaries in Architecture and Engineering for thesis formatting and e-thesis submission. These sessions were in addition to the regular information sessions for graduate coordinators and graduate secretaries. We have also delivered a session on “Defending Your Dissertation”.

- The Associate Deans and I continue to leverage the potential of social media. We contribute to the Deans' Blog, a weekly discussion of topics related to graduate students. The response has been enthusiastic and we will continue to connect in this informal manner. If you have not been, take a look at <http://dalgrad.dal.ca/deansblog>. Two of the Deans regularly use Twitter to speak to issues related to graduate student administration and concerns. One of our development presentation sis available on Youtube.

The body of the Annual Report includes summaries of enrolment, scholarship activities, convocation, new academic programs, program reviews, changes in FGS administration and regulations, the 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. These changes include the addition of Melanie Clarke in a one-year position as the Recruitment and International Student Services Coordinator. Kathy Drew left FGS and was replaced by Colleen Hannam (previously our Information Clerk) as the Graduate Student Services and Admissions Clerk. This resulted in the Information Clerk position being filled by Megan Dixon. Jason Sweeney left Dalhousie and was replaced by Darrell Rhodenizer as our IT Coordinator. Danielle Pottie has taken maternity and parental leave until the end of January 2012, so staff have backfilled a number of positions. Stephanie Theriault has once again slipped into the Acting Scholarship Officer role. Colleen Hannam has stepped up to the Acting Senior Thesis Clerk position, Megan Dixon to the Acting Graduate Student and Admissions Clerk position and Chenxi Xu has joined us as the Acting Information Clerk.

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

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

May 12, 2011

Sunny Marche, Acting Dean  
Faculty of Graduate Studies

**This report covers the period of May 1, 2010 to April 30, 2011 and contains projections to August 2011 where numbers were available. The financial and enrolment data cover the period September, 2009, to August, 2010.**

## 1. Enrolment

Graduate students represent approximately 20% of the total Dalhousie student population. This reflects the research intensive nature of Dalhousie. The December 1 “headcounts” since 2000, reported in the table below show the changes in total enrolment over the last eleven years. Overall, graduate enrolment remained relatively steady over the last year with the numbers the highest they have ever been, and with the greatest absolute number of international students.

### Graduate enrolments 2000-2010 (December 1 “headcounts”) <sup>1</sup>

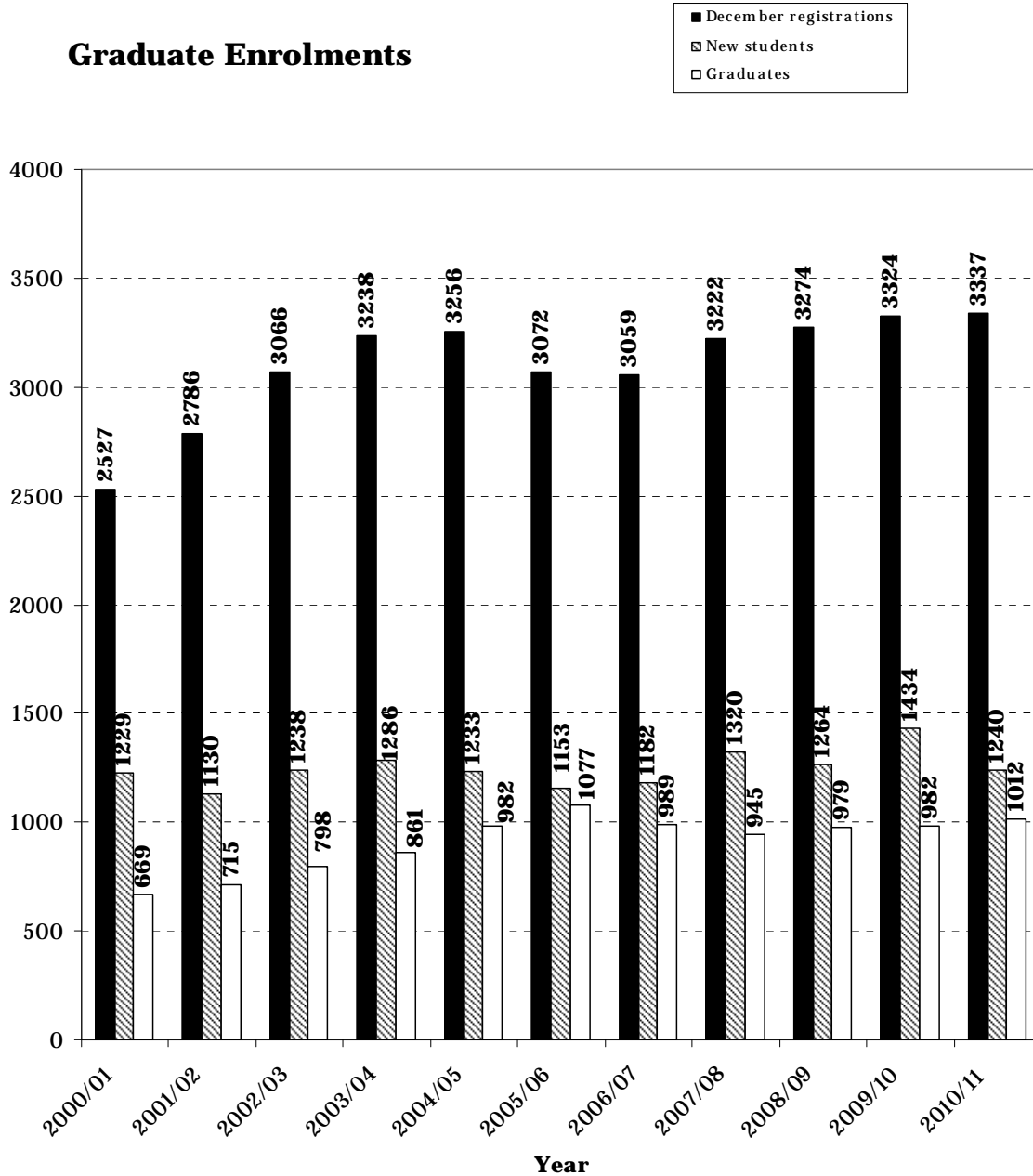
Year	Full time	Part time	Total	Increase	FTE	International
2000	1684	843	2527	6.1%	1965	333
2001	1853	933	2786	10.2%	2164	362
2002	2061	998	3059	9.8%	2394	442
2003	2288	954	3242	6.0%	2606	547
2004	2338	903	3241	0.0%	2639	540
2005	2228	844	3072	-5.2%	2509	475
2006	2267	792	3059	-0.4%	2531	412
2007	2396	826	3222	5.3%	2671	412
2008	2412	862	3274	1.6%	2699	441
2009	2469	855	3324	1.5%	2711.56 <sup>2</sup>	537
<b>2010</b>	<b>2611</b>	<b>726</b>	<b>3337</b>	<b>0.4%</b>	<b>2844.20<sup>2</sup></b>	<b>592</b>

1. *Exclusive of medical post-graduate residents*

2. *FTE calculations are based on the MPHEC/Statistics Canada formula*

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

## Graduate Enrolments



\* The 2009/10 and 2010/11 new student figures include newly registered summer term students.

For the 2010-2011 academic year, there were 988 newly registered graduate students starting in the fall term, 141 started in the winter term and another 111 started in the summer term, with 1012 students



graduating (May and Oct 2010). To capture programs that have a summer start date, the summer term, newly registered graduate students have been included again this year. With the student summer registration process still active, the summer term number will alter slightly. This increase will be reflected in our report next year.

## **International Enrolments**

<b>International Graduate Students by Geographic Region as of March 1, 2011</b>				
<b>Geographic Region</b>	<b>Degree Programs</b>	<b>Visiting/Special*</b>	<b>Total</b>	<b>%</b>
Africa	60	4	64	10.4%
Asia - Eastern	47	12	59	9.6%
Asia - South Central	273		273	44.5%
Asia - South Eastern	12		12	2.0%
Bermuda and Caribbean	7		7	1.1%
Central America	3	1	4	0.7%
Europe	39	10	49	8.0%
Middle East	86	3	89	14.5%
North America	35	1	36	5.9%
South America	12	4	16	2.6%
South Pacific	4		4	.7%
<b>Total</b>	<b>578</b>	<b>35</b>	<b>613</b>	<b>100%</b>

Specific student numbers for Saudi Arabia (77), China (56), and India (182) are included in the above.

\* 1) Visiting/Special includes non degree students, those attending Dalhousie under letter of permission or through an exchange program as well as qualifying year students

## **2. 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, etc. In 2009-10, financial support from all sources, internal and external, to Dalhousie graduate students exceeded 20 million dollars.

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

The FGS scholarship (departmental allocations) budget includes contributions from the university budget, the Killam Memorial Research and Scholarship endowment (different from the Killam Advanced Studies endowment that supports the Killam Scholarships), and auxiliary funds. The total of the FGS scholarship allocations to 56 graduate units or programs for 2011-12 is \$3,134,026.

The total FGS scholarship funds available vary slightly from year to year depending on the “auxiliary funding” available as a result of variations in actual spending vs. budget in previous years. This auxiliary funding is added to the funding total and distributed proportionally after the second round allocation has been determined. In the appendix to the report of the Scholarship Committee, we present the allocations by unit for 2010-11 as well as the trend in FGS scholarship allocations in recent years.

## Funding sources for Dalhousie graduate students, 2009-2010 <sup>1</sup>

### Funding from Dalhousie University Sources

FGS Scholarships	\$ 3,476,249
<i>Includes: Departmental allocations, Eliza Ritchie Scholarship, James Robinson Johnston Scholarship, Nova Scotia Black and First Nations Graduate Entrance Scholarship, The Vitamin Scholarship</i>	
Bursaries	\$43,452
Departmental Funding	\$449,682
Killam Scholarships	\$650,440
President's Awards	\$554,032
Other Internal:	\$91,193
<i>Includes: Math Circles Funding, Women in Economics Scholarship, Dover Mills Fellowship, DM Johnston MASC Scholarship, Bruce &amp; Dorothy Rosetti &amp; Reid Scholarship, Public Admin Alumni Fellowship, Alumni Graduate Scholarship, Teaching Assistant Award</i>	
Total internal sources:	\$ 5,265,048

### Funding from sources external to Dalhousie University

SSHRC	\$ 1,443,501
NSERC	\$3,348,365
Faculty Research Grants	\$8,511,950
CIHR	\$455,867
NSHRF	\$969,978
Sumner	\$57,282
Other External:	\$682,067
<i>Includes: Wenner Gren Foundation Award, Cancer Care NS Award, Roda Book Prize, NS Planning Directors Award, Lew King Scholarship, Gunn Family Studentship in Alzheimer Research, ACENet Fellowship, Steel Structures Education Foundation, Ontario Problem Gambling Centre, NSAC, NS Law Foundation Graduate Scholarship, Northstar Trade Fellowship, MITACS, MDS Sciex, Lydon Memorial Scholarship, Lett Fund Bursary, IWK Grad Studentship, Hebb Prize, Heart &amp; Stroke Foundation, CUPE Teaching Assistantship, Godsoe Scholarship &amp; Ward Scholarship, Glengarry Bursary, Fielding Sherwood, CRTP Award, CIHR RURAL Centre Fellowship, Barry Johns Scholarship For Design, Architects Association of NB, Aboriginal Health Research Scholarship, Alumni Excel Prize in S-L Path, Rosella Green Award, St Mary's University, Tom Merklinger Scholarship, Multiple Sclerosis Society, H W Wilson Scholarship, Sir James Dunn Postgrad Scholarship, Electa MacLennan Memorial Scholarship, ChemCon E. Gordon Young Best Graduate Poster, CVRG Magda Horackova Student Research Prize, Rozee Trust Graduate Student Award</i>	
Total external sources	\$ 15,469,010

<b>Total all sources</b>	<b>\$ 20,734,058</b>
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1. Figures as of August 31, 2010. These figures include funding that is awarded for the full academic year (Sept 2009 – Aug 2010).

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

The award statistics, for scholarships, from the three granting councils to Dalhousie students for 2007, 2008, 2009, 2010 and 2011, are presented in the next table.

### National Granting Council Scholarships Awarded, 2007-2011

		2007 <sup>1</sup>	2008 <sup>1</sup>	2009 <sup>2</sup>	2010	2011
<b>NSERC</b>	Master's Nominations (CGS-M, PGS-M)	39	39	42	51	44
	Master's Awards CGS-M	18	16	34	36	23
	PGS-M	16	14	4*	2	3**
	Doctoral Nominations (CGS-D, PGS-D)	39	49	47	45	41
	Doctoral Awards CGS-D	5	13	14	2	4
	PGS-D	21	21	20	26	15
	Vanier Nominations <sup>4</sup>			3	1	2
	Vanier Awards			1	1	1
	<b>NSERC New awards to Dalhousie</b>	<b>49</b>	<b>64</b>	<b>73</b>	<b>67</b>	<b>46</b>
	<b>NSERC Total new awards held</b>	69	66	72	62	?
<b>SSHRC</b>	Master's Nominations (CGS-M)	19	21	19	19	18
	Master's Nominations (Business Related) <sup>3</sup>			2	3	
	Master's Awards CGS-M	19	21	21	22	18
	Doctoral Nominations	26	29	27	29	25
	Doctoral Nominations (Business Related) <sup>3</sup>			3	0	n/a
	Doctoral Awards CGS-D	6	4	10	5	6
	SSHRC-D	9	9	6	0	3
	Vanier Nominations <sup>4</sup>			2	2	1
	Vanier Awards			0	2	0
	<b>SSHRC New awards to Dalhousie</b>	<b>34</b>	<b>34</b>	<b>37</b>	<b>29</b>	<b>27</b>
	<b>SSHRC Total new awards held</b>	36	26	44	33	?

		2007 <sup>1</sup>	2008 <sup>1</sup>	2009 <sup>2</sup>	2010 <sup>5</sup>	2011
<b>CIHR</b>	Master's Nominations	7	7	12	12	5
	Master's Awards CGS-M	7	6	12	12	?
	Doctoral applications (direct to CIHR)				25	23
	Doctoral Awards CGS-D	2	1	4	7	6
	Doctoral	0	1	0	1	0
	Vanier Nominations <sup>4</sup>				1	3
	Vanier Awards				1	1
	<b>CIHR New awards to Dalhousie</b>	<b>9</b>	<b>8</b>	<b>16</b>	<b>20</b>	<b>?</b>
	<b>CIHR Total new awards held</b>	<b>21</b>	<b>7</b>	<b>17</b>	<b>23</b>	<b>?</b>
<b>Total Tri-Council new awards<sup>6</sup></b>		<b>126</b>	<b>99</b>	<b>126</b>	<b>116</b>	<b>?</b>

		2007	2008	2009	2010	2011
<b>Trudeau</b>	Nominations	1	0	2	2	3
	Awards	1	0	0	0	1

1. 2007 and 2008 awards include SSHRC and CIHR scholarships awarded later in the year and "Total new awards held" includes students bringing NSERC, SSHRC, CIHR awards to Dalhousie from other universities
2. Figures reported for 2009 "new awards" are the nominations put forward through Dalhousie and awards resulting from those nominations in the 2009-10 competitions. Award results for these competitions were announced March – June 2009.  
For 2009 "total new awards held" is the total of all new awards starting at Dalhousie in May 09, Sept. 09 and Jan. 2010 (this could be students who won awards through Dalhousie or students bringing awards won through other universities).
3. SHHRC held a new Business related competition for the first time in 2009 and competition was discontinued after 2010.
4. The Vanier competition was held for the first time in 2009.  
\* The four PGS-M awards are all Julie Payette awards (only 24 Julie Payette awards are given nationally)  
\*\* Two of the three PGS-M awards are Julie Payette awards (only 24 Julie Payette awards are given nationally)  
? Figures not known at the time of this report
5. Figures reported for 2010 "new awards" are the nominations put forward through Dalhousie and awards resulting from those nominations in the 2010-11 competitions. Award results for these competitions were announced March – June 2010.  
For 2010 "total new awards held" is the total of all new awards starting at Dalhousie in May 10, Sept. 10 and Jan. 2011 (this could be students who won awards through Dalhousie or students bringing awards won through other universities).  
Figures reported for 2007 are based on "total new awards held", whereas figures reported for 2009 and later are based on "new awards to Dalhousie"

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

### **3. Interdisciplinary PhD Program**

The Interdisciplinary PhD Program is the only graduate unit housed within FGS. The Acting Associate Dean, Michael Lee, serves as Acting Director of the program, working with the Graduate Coordinator, Marina Pluzhenskaya. The program's Admissions Committee considers applications for study, while the Program Advisory Committee advises on strategic and administrative matters for the program. The program has grown substantially in recent years, indicating both a strong demand and a growing interest by faculty members to participate in the program. The uniqueness and strength of the program derives from its careful selection of well-qualified students for admission, its stringent requirements for interdisciplinary supervision and coursework, and demonstrated integration of disciplines in comprehensive examinations and thesis work. Enrolment was 88 in 2009-10 with 82 enrolled in 2010-11.

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

University, faculty, and departmental regulations relating to graduate students are summarized in the Graduate Calendar. Section III of the Governance Manual of FGS is largely identical to the Graduate Calendar, and this section contains most of the rules FGS is asked to administer. Section IV describes specific regulations and procedures related to academic reviews, scholarship finances, thesis submission, etc. Both the Graduate Calendar and the Governance Manual are available online; in addition, the FGS web site presents all regulations and procedures in an easily-accessible form. As a result, the FGS web site (<http://dalgrad.dal.ca>) easily has become our most important means of communication and method of transmitting new information. It certainly is the major resource for information, forms, and regulations concerning virtually all facets of graduate studies. Most forms are placed on the web, allowing for electronic completion and submission, and starting in May 2009, graduate applicants had the option of having their academic references submitted electronically. The FGS web site is updated weekly and includes an RSS newsfeed. The site also maintains links to all units and programs as well as to many other sites. Our ability to send e-mail messages to all graduate students or selected groups has also proven extremely useful, because the e-mail list is updated centrally and therefore current at the time of the mailing.

### **5. Killam programs**

Dalhousie's Killam endowments have been an important and pivotal factor in the development of our graduate studies programs over the last four decades. FGS has responsibility for the Killam Advanced Studies fund, which supports predoctoral scholarships and postdoctoral fellowships, and the part of the Killam Memorial Research and Scholarship fund allocated to support graduate scholarships. These endowments allow us to attract outstanding Canadian and international students to our graduate programs. The results of the 2010 and 2011 Killam scholarship competitions, which were once again

particularly intense, are reported in detail separately later in this report. FGS is also responsible for the organization of the Dorothy J. Killam Lecture Series funded from the Killam Residue Fund.

FGS, on behalf of the university, reports on all activities supported by the Killam endowments by means of an annual report to the Killam national conference normally held in conjunction with the CAGS annual conference in the fall. These reports are available on the FGS web site.

In February 2010, the Killam Scholarship Committee received 87 nominations for new awards and awarded 16 new and 55 renewal scholarships.

In February 2011, the Killam Scholarship Committee received 110 nominations for new awards and offered 26 new and 31 renewal scholarships.

In 2010-2011, the budget allowed for two Killam Postdoctoral Fellowships. The Committee has an exceedingly difficult task in selecting the winning candidates from among a very strong field of applicants representing widely different disciplines. The two initial awards were accepted.

In the 2011-12 competition, the budget allowed for three Killam Postdoctoral Fellowships. Two of the initial three offers were declined, allowing offers to be made to 2 wait-listed candidates. The Killam Postdoctoral Fellowship stipend amount is \$44,000 plus \$3,000 for research and \$1,000 for travel.

The Killam Lecture Series serves both the university and the community at large, and gives considerable visibility to Dalhousie's academic and research programs. The theme for the 2010 Killam Lecture Series was 'Imagine a Sustainable World'. This series was organized by the College of Sustainability, and was headed by Dr. Steven Mannell. The theme for the 2011 Lecture Series will be 'Visualizing Information: Finding Knowledge in Massive Data', organized by the Faculty of Computer Science.

This year, FGS decided to move away from the traditional Killam Dinner and tried a formal convocation-style presentation followed by a reception. This event was held in conjunction with the annual visit by the Killam Trustees on November 1, 2010. The more than 135 guests enjoyed a presentation held in the Potter Auditorium followed by a lively reception in the Main Foyer of the Kenneth C. Rowe Management Building. As part of the presentation, Dr. Russell Boyd, former Killam Scholar, Killam Postdoctoral Fellow, and Killam Professor gave a brief speech. Special guests included Managing Trustee George Cooper, and Trustee Ann McCaig. The evening was opened by President Traves, who welcomed the guests for whom the event is organized, our Killam Scholars, Fellows, Professors, and alumni.

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

improve the visibility of the Killam programs at Dalhousie across the university and the community at large.

With financial assistance from the Office of the Vice President Finance and Administration, we have two new Killam videos, bringing our total to six. The newest videos include commentary presented by Mr. George Cooper, profiling the Killam Trusts and Dorothy and Isaac Killam, and a presentation by Dr. Peter Coffman, profiling his work as a Killam postdoctoral fellow.

## **6. Recruiting**

The 2010-11 academic year has seen continued growth and enhancements to the Faculty of Graduate Studies Recruitment Team (FGSRT), largely as a result of the new position, Recruitment Coordinator.

Our New Student Orientation in September was a success with approximately 400 new students in attendance.

During the fall, FGSRT participated in 13 Graduate Student Recruitment events across Canada. In addition, we participated in Dalhousie's Open House and Academic Fairs. Acting Dean, Dr. Sunny Marche, participated in a PhD Recruitment Fair in China, which resulted in Dalhousie signing the Chinese Scholarship Council Memorandum of Agreement. For the first time, we were invited to a recruitment event at Saint Mary's University. We used the Saint Mary's event to test our in-house electronic call back card, which includes ready-made spreadsheets of prospective students for graduate departments.

In collaboration with the Registrar's Office, FGS worked with an external consultant, Customer Relations Index (CRI), which carried out a comprehensive survey of accepted graduate students in August, 2010. The survey results have established a clear picture of what matters most to prospective students, what we do well, and where we need to improve.

Our Recruitment Coordinator enhanced the value of call back cards submitted by prospective students by sending them via electronic spreadsheets to program coordinators along with a template for sending to each prospective student. This process will be further enhanced through the use of electronic call back cards, which require students to type their email addresses, hence reducing legibility problems.

The FGS Recruitment Coordinator met with the departments of Physics and Atmospheric Science, Occupational Therapy, Marine Affairs, Biomedical Engineering, Computer Science, SRES and the Faculty of Science. Each department's meeting was based on the needs of that department and included a presentation of recruitment methods. In addition, the coordinator took on the role of administration for a consortium of five universities: Calgary, Alberta, Laval, Dalhousie and Ottawa (CALDO) which included liaising with Dalhousie professors and other CALDO administrators in preparation for International Recruitment events.

Consultations are underway with the Registrar's Office regarding contracting with international agents for graduate student recruitment.



## 7. Students

The convocation lists for the 2010 May and October convocations combined included 906 master's degrees, 99 PhD degrees, and seven diplomas awarded, for a total of 1012 graduates. This is compared to a total of 798 in 2002, 861 in 2003, 982 in 2004, 1077 in 2005, 989 in 2006, 945 in 2007, 978 in 2008, and 982 in 2009.

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 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. In many cases, just the nomination by the department or by the university is very highly appreciated by the student and may serve as a significant addition to their CV. All such awards and nominations for external awards are selected from departmental nominations by the Prize Panel of the Faculty of Graduate Studies.

The Governor General's Gold Medals are awarded during the May convocation to "the most outstanding master's graduates (thesis or non-thesis)" in the May and previous October convocations combined. The 2010 Gold Medals were presented at the May 2010 convocation to Amy Trottier, an MSc graduate of the Department of Chemistry, and to Timothy Riggs, an MA graduate in the Department of Classics. These exceptional students were selected from seven departmental nomination files, representing a master's level graduating class of 906 students. The citations for Ms. Trottier and Mr. Riggs in part read as follows.

### ***Amy Trottier***

*The Governor General's Gold Medal in the Natural Sciences and Engineering for 2010 is awarded to Amy Trottier. Amy Trottier graduated with the degree Master of Science in Chemistry in the October 2009 convocation. The title of her Master's thesis is: "**Development and Optimization of Synthetic Fibres for reinforcement of Concrete.**"*

*In her Master's thesis, Amy Trottier investigated "several polymers including high density polyethylene, poly(vinylidene fluoride) and poly(ether imide) for use in developing synthetic fibres for reinforcement of concrete".*

### ***Timothy Riggs***

*The Governor General's Gold Medal in the Humanities and Social Sciences for 2010 is awarded to Timothy Riggs. Timothy Riggs graduated with the degree Master of Arts in Classics in the October 2009 convocation. The title of his Master's thesis is: "**Eros as Cosmic and Hierarchical Principle: Christ and the Socratic Hierarch in the Thought of Dionysius the Areopagite.**"*

*In his Master's thesis, Timothy Riggs "explores the relationship between the thought of Dionysius the Areopagite and that of Proclus. He argues for the unity of the Dionysian corpus through an investigation of Dionysius' doctrine of love and his consistent application of it at the cosmic, ritual, and political levels".*

The winners of the 2011 Governor General's Gold Medals will be announced at the May 12<sup>th</sup>, 2011 meeting.

The Dalhousie University Doctoral Thesis Awards were established in 2004, and the first awards were presented at the May 2004 convocation. For 2010, the Faculty of Graduate Studies Doctoral Thesis Awards were presented to Dr. Susanne Marshall of the Department of English for the category humanities and social sciences, and Dr. Andrew Vanderzaag of the Department of Process Engineering and Applied Science for the category natural and medical sciences and engineering. Selection of these awards is for excellence of the doctoral thesis only, largely 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.

**Susanne Marshall**

*The Dalhousie University Doctoral Thesis Award in the Humanities and Social Sciences for 2010 is awarded to Susanne Marshall. Dr. Marshall graduated with the degree Doctor of Philosophy, in English in the October 2009 convocation. The title of her Doctoral Thesis is: "**We Are Most Ourselves When We Are Changing**": Michael Winter, Lynn Coady, Lisa Moore, and the Literary Reconfiguration of Atlantic Canadian Regionalism."*

*In her Doctoral thesis, Dr. Marshall "offers a very strong and nuanced rejoinder to the persistent myth of Atlantic-Canadian antimodernism. Beginning with a cogent, carefully historicized consideration of how and why Atlantic Canada has come to be associated with the reassuring rhythms of rural life in the popular imagination of the national, it explores the changing nature of Atlantic Canadian culture as represented in the fiction of Michael Winter, Lisa Moore, and Lynn Coady."*

**Andrew Vanderzaag**

*The Dalhousie University Doctoral Thesis Award for "the University's most outstanding doctoral thesis" in the Natural and Medical Sciences and Engineering for 2010 is awarded to Andrew Vanderzaag. Dr. Vanderzaag graduated with the degree Doctor of Philosophy in Biological Engineering in the October 2009 convocation. The title of his thesis is: "**Measurement and Mitigation of Gaseous Emissions from Dairy Wastewater Treatment and Storage Systems.**"*

*In his Doctoral thesis, Dr. Vanderzaag "involved an integrated assessment of air and water quality emissions from engineered wetlands and wastewater storage systems used within the dairy farming industry. Andrew developed an experimental approach to simultaneously quantify all three major greenhouse gases (CO<sub>2</sub>, CH<sub>4</sub>, N<sub>2</sub>O) from a typical dairy wastewater treatment train, and rigorously test several alternative methods for reducing these emissions.... As a result, this work has produced significant new knowledge that could help the Canadian agricultural industry both characterize, and reduce, greenhouse gas (GHG) emissions."*

The winners of the 2011 FGS Doctoral Thesis awards will be announced at the May 12<sup>th</sup>, 2011 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 2010)

Natural Science category:

No applications were submitted to FGS for this award.

Engineering and Computer Science category:

No applications were submitted to FGS for this award.

**CAGS Distinguished Doctoral Dissertation Award** (submitted March 2011)

Engineering, Medical and Natural Sciences category:

Mr. Peter van Hengstum, Department of Earth Sciences, PhD to be awarded May 2011, for his thesis "Quaternary Sea-Level and Climate Signatures in Phreatic Coastal Caves".

Fine Arts, Humanities and Social Sciences category:

Dr. Elaine Craig, School of Law, JSD awarded October 2010, for her thesis "Sex and the Supremes: Towards a Legal Theory of Sexuality".

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

## **Associate Deans' Report**

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

### **I. Scholarships and Programs (D. Pelzer)**

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During the 2010-11 academic year, the Faculty was involved with the usual range of scholarship and curricular activities.

#### **1. Scholarships**

The following section will outline all of the scholarship competitions and processes held during the 2009-2010 and 2010-11 Academic years. Committee members were elected or appointed to ensure fair and accurate disbursement of scholarship funds.

##### **FGS Departmental Scholarship Allocation**

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

The total amount of funding allocated to all departments for 2010-2011 is \$3,442,465, as compared to the 2009-2010 total of \$3,375,311. The anticipated funding allocation to departments in 2011-12 will be \$3,134,026.

The yearly allocation for thesis programs is based on two parts. Part A (1<sup>st</sup> round) is calculated as 80% of the previous year's base allocation. Part B (2<sup>nd</sup> round) is based on the number of A- or better students coming into a program in the previous year, weighted as follows: 1 pt for new masters students, 2 pts for transfers from masters into PhD programs and 3 pts for new PhDs. The points are used to reallocate the remaining 20% of the funds to departments.

Non-thesis programs allocation is also based on two parts. Part A is calculated using the number of new masters students with A- or better entering in the previous year multiplied by a weighted factor related to the length of the program. The length factor is as follows: 3 for one year programs (10 or fewer half courses), 4 for 16-22 month programs (up to 20 half courses), 5 for 2 year programs (20 plus half courses) and 6 for 3 year programs (30 plus half courses). Part B is an entrance scholarship for use in the current recruitment cycle to help attract an exemplary student with a GPA of 4.0 or better.

A total of 595 points were accrued by departments for the 2010-2011 allocation year, a slight increase over the 556 point total for 2009-2010. Departmental allocations are presented in Table 1 at the end of this section of the Report. A total of 586 points were accrued by departments for the 2011-2012 allocation year.

### **Izaak Walton Killam Predoctoral Scholarships**

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

#### *Renewals*

Killam Scholars wishing to renew their Scholarships for the 2010-11 academic year were asked to submit a progress report. Progress reports were reviewed by the Associate Dean, Dr. Pelzer. In total, 55 students submitted progress reports to request renewals, 10 from students in master's programs and 45 from students in doctoral programs. The Associate Dean recommended that all of these scholarships be renewed.

In February 2011, progress reports were received from 31 Killam Scholars wishing to renew their Scholarships for the 2011-12 academic year (7 Level 1, and 24 Level 2 Scholars). Progress reports were reviewed by the Associate Dean, Dr. Pelzer, who recommended that all of these scholarships be renewed.

#### *New Applications*

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

The Killam committee was broken down into a Level 1 committee (John Baxter, Department of English, Hans Jurgen Kreuzer, Department of Physics and Atmospheric Science, Craig Lake, Department of Civil and Resource Engineering, John Cameron, Department of International Development Studies, Paul Murphy, Department of Physiology and Biophysics, and Howard Ramos, Department of Sociology and Social Anthropology) and a Level 2 committee (Peter O'Brien, Department of Classics, Tamara Romanuk, Department of Biology, Penny Corkum, Department of Psychology, Thomas Trappenberg, Faculty of Computer Science, and Axel Becke, Department of Chemistry). Committee members reviewed and rated only their specific files and submitted their individual rankings to FGS to be collated. These initial rankings were then considered at meetings of the Committees held on April 6 and April 7, 2011, chaired by the Associate Dean, Dieter Pelzer. In all, 110 nominations were received (34 Level 1 nominations and 76 Level 2 nominations). From the ranked list, 26 new Killam scholarships were offered, nine at Level 1 and seventeen at Level 2.

For comparison, in the competition held in February 2010, 87 nominations were received (36 Level 1 nominations, and 51 Level 2 nominations), and 16 new scholarships were offered (eight Level 1, and eight Level 2).

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

*Acting Killam Administrator:* Stephanie Theriault

### **MacKenzie King Scholarships**

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

A Committee consisting of Russell Boyd (Associate Vice-President, Research) and Dieter Pelzer (Associate Dean, FGS) reviewed six applications for the March 2011 open and traveling scholarship competitions. The Committee recommended that four applications (two open and two traveling) be forwarded to the University of British Columbia for consideration by the MacKenzie King Scholarship Selection Committee.

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

Last year (in the competition held February 2010), three applications (two open and one traveling) were forwarded to the University of British Columbia for consideration by the MacKenzie King Scholarship Selection Committee. The application for the one traveling scholarship was approved for an award.

### **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 Dr. Michael Lee (Acting Associate Dean, FGS) and Dr. Dieter Pelzer (Associate Dean, FGS) met to review the applications for the March 2011 competition. There were one new award and two renewal scholarships offered.

Last year (in the competition held March 2010), there was one new award offered and two renewal scholarships offered.

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

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

A competition was not held in 2011 as all the funds for this award have been committed for 2011 - 2013.

Last year (in the competition held May 2010), there was one new award, and one renewal.

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

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

In 2010, Dalhousie University received four new applications and two renewal applications. One new and two renewal scholarships were awarded. Dr. Dieter Pelzer (Associate Dean, FGS), Dr. Brian Noble (SOSA), and Dr. Pemberton Cyrus (Industrial Engineering) reviewed the applications for the May 2010 competition.

The next competition deadline is May 15, 2011.

### **Phi Kappa Pi Joe Ghiz Memorial Award**

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

A prize of \$750 will be awarded to a student studying at the Masters or Doctoral level, in any discipline at Dalhousie University. The student must have a first-class standing (GPA 3.7/4.3) or higher in the last two years of previous study (graduate and/or undergraduate) and demonstrate both community involvement and university life involvement. Application or nominations should be made to the Faculty of Graduate Studies.

In October 2010, Dalhousie University received 11 new applications. One award was made. Dr. Dieter Pelzer (Associate Dean, FGS) and Dr. Michael Lee (Acting Associate Dean, FGS) reviewed the applications.

### **The Sushi Nami Royale Graduate Scholarship**

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

In October 2010, Dalhousie University received 3 new applications. One new scholarship was awarded. Dr. Dieter Pelzer (Associate Dean, FGS) reviewed the applications.

### **A.S. Mowat Prize**

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

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

In March 2011, Dalhousie University received 53 new applications. One prize was awarded. Dr. Dieter Pelzer (Associate Dean, FGS) and Dr. Michael Lee (Acting Associate Dean, FGS) reviewed the applications.

### **The Vitamin Scholarship**

The Vitamin Scholarship was enabled by an endowment created by the settlement of a court case, in which the companies involved agreed to allocate resources to vitamin research in Canadian universities. The Vitamin Scholarship was established for activities related to vitamin products such as food and nutritional research or education, food related programs, and/or consumer services or consumer protection activities. This scholarship is for one year at the Masters level and Doctoral level, and is renewable for one additional year. The award must be taken up upon commencing the first year of the degree program and is worth \$19,000 (Masters) and \$21,000 (Doctoral) (2008-2009) for a twelve-month academic year.

Unfortunately, the Vitamin Scholarship competition has not been held since 2008 as the endowment fund has not earned any new income with the current market conditions.

## **2. Social Sciences and Humanities Research Council (SSHRC) Scholarships**

Two SSHRC Scholarship Committees are involved in determining which applicants will be recommended to be sent forward for consideration for scholarship funding by the Social Sciences and Humanities Research Council. The SSHRC Doctoral selection committee consisted of Frank Harvey (Political Science), Jerry Bannister (History), Julia Wright (English). The SSHRC CGS Master's award committee consisted of Kathryn Morris (King's College), Steven Baur (Music), Maria Jose Gimenez (Spanish), Wayne Hankey (Classics). Both committees were chaired by Dieter Pelzer (Associate Dean, FGS).

A total of 37 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 10, 2011. The initial rank-ordered list was discussed and two final, alphabetical lists – an "A" list consisting of applicants ranked in the top 25



positions, and a “B” list comprising all the rest – were prepared and sent forward. Dalhousie was awarded six CGS-D scholarships and three SSHRC doctoral scholarships. Last year, five CGS-D scholarships were awarded.

For the Master’s competition, much the same procedure was followed. The Committee met on January 21, 2011, to consider 38 applications for Master’s scholarships from which a list of the top 18 names, accompanied by a wait list of five names, were prepared and sent forward to SSHRC. King’s College forwarded an additional application for their quota. All 18 masters applications put forward to SSHRC were successful. Last year, all 19 masters applications put forward to SSHRC were successful. Dalhousie was also successful in securing three business related CGS M awards last year. The business related competition was discontinued this year.

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

This Committee is responsible for preparing a ranked list of applicants, which is then forwarded to the Sumner Foundation for consideration for awards. The committee consisted of Kamal El-Sankary (Electrical Engineering), Jürgen Kreuzer (Physics and Atmospheric Science), Russell Boyd (Associate VP Research, as the rep from Chemistry) and is chaired by Dieter Pelzer (Associate Dean, FGS).

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

In February 2011, the Committee considered 10 files for new awards and one file for renewal. Committee members ranked the applications prior to meeting. The ranked lists from each member were collated by FGS. The files were forwarded to the Foundation. At the time of this report, final results of this competition were not received from the Sumner Foundation. In last years competition (2010-11), Dalhousie was awarded five new Fellowships and four renewals.

### **4. Natural Sciences and Engineering Research Council (NSERC) Postgraduate Scholarships**

Two NSERC Scholarship Committees are involved in determining which applicants will be recommended to be sent forward for consideration for scholarship funding by the Natural Sciences and Engineering Research Council. The NSERC Doctoral Committee consisted of Malcolm Heywood (Computer Science), Leslie Phillmore (Psychology), Axel Becke (Chemistry), Jeff Pierce (Physics). The NSERC Master’s committee consisted of Christian Lehmann (Microbiology), Sophia Stone (Biology), and Margaret Walsh (Civil Engineering), Valerie Chappe (Physiology and Biophysics). Both committees were chaired by Dieter Pelzer (Associate Dean, FGS).

Each Committee member read and rated all the applications allocated to that committee (61 applications allocated to the PGS-M committee, 55 applications allocated to the PGS-D committee) before the final meetings, held on November 17<sup>th</sup> and 18<sup>th</sup>, 2010, at which ranked lists to be forwarded to NSERC were

produced. A total of 85 applications (44 Master's, 41 Doctoral) were recommended for consideration of NSERC scholarships in the 2011 competition. Forty-five scholarships were awarded by NSERC, 3 PGS-M (2 of which are Julie Payette), 15 PGS-D, 23 CGS-M, and 4 CGS-D.

Last year, 96 applications (51 Master's, 45 Doctoral) were recommended for consideration of NSERC scholarships in the 2010 competition. Sixty-six scholarships were awarded by NSERC, 2 PGS-M, 26 PGS-D, 36 CGS-M, and 2 CGS-D.

New in the 2010-11 competition was the introduction of a new NSERC online application system. From this point forward all applications will be submitted through this online system.

The NSERC Industrial Postgraduate Scholarship (IPS) program is relatively small in comparison to the PGS and CGS programs, but IPS applications from Dalhousie students have had a very high success rate and have allowed for the building of valuable linkages between university researchers and local or national companies. The value of these awards is \$21,000/year for 1, 2 or 3 years, including \$15,000 from NSERC and a minimum of \$6,000 from the industrial sponsor. Students apply individually for IPS awards, and need to have established an agreement with an industrial sponsor of their project. Part-time students are eligible for NSERC IPS awards. In addition, NSERC requires well-defined contractual and IP agreements between the student, supervisor(s), university, and the participating company. This requires a close coordination between the student and academic supervisor, the cooperating industrial organization, and FGS. Currently in the 2010-11 academic year Dalhousie has eleven active NSERC IPS award. We currently have one other application pending FGS review. Applications are accepted and considered by NSERC staff at any time. Once the full application is received by NSERC, the decision usually is made within 6-8 weeks, and the award can be taken retroactively to the beginning of the academic term if needed. Dalhousie IPS applications easily compensate for the significant administrative tasks associated with each individual award.

## **5. Canadian Institute of Health Research (CIHR) CGS–M Scholarships**

The CIHR CGS-M committee consisted of Denis Dupré (Pharmacology), Donald Langille (Community Health & Epidemiology), Chris McMaster (Biochemistry/Atlantic Research Centre), David Westwood (Health and Human Performance), and was chaired by Dieter Pelzer (Associate Dean, FGS). Committee members ranked 20 applications, and then met on January 27, 2011 to finalize the list. Of these, five applicants were sent forward to CIHR for consideration for awards. The results were not known at the time of this report. In 2010, 12 applications were forwarded to CIHR for consideration and Dalhousie was successful in securing all 12 scholarships.

FGS is not involved in coordinating the CIHR doctoral competition. There were twenty-three applications sent to CIHR from Dalhousie students for the October 2010 competition. Five CGS D awards and one doctoral research award (priority announcement) were offered to Dalhousie students.

Last year, there were twenty-five applications sent to CIHR from Dalhousie students for the October 2009 competition. Seven CGS D awards and one doctoral award were offered to Dalhousie students.

## **6. Vanier Canada Graduate Scholarships**

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

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

Peer review selection criteria:

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

The SSHRC Vanier nomination committee consisted of Dieter Pelzer (Associate Dean, FGS), Shirley Tilloston (Acting Associate Dean, FASS), Jure Gantar (Acting Dean, FASS) and Greg Hebb (Acting Director, Business Administration). FGS received one application and the one application was forwarded on to SSHRC. The application was unsuccessful.

The NSERC Vanier nomination committee consisted of Dieter Pelzer (Associate Dean, FGS), Sina Adl (Associate Dean, Faculty of Science), and Evangelos Milios (Associate Dean, Faculty of Computer Science). FGS received five applications and two were forwarded on to NSERC. Dalhousie was successful in receiving one NSERC Vanier CGS.

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

Last year, Dalhousie University was able to nominate four applications for the National Vanier competition. All four were awarded Vanier scholarships. One from NSERC, two from SSHRC and one from CIHR.

## **7. Trudeau Foundation Doctoral Scholarship**

Up to 15 Trudeau Scholarships are awarded each year to support doctoral candidates pursuing research of compelling present-day concern, touching upon one or more of the four themes of the Foundation. Trudeau Scholars are highly gifted individuals who are actively engaged in their fields and expected to become leading national and international figures.

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

Dalhousie University, upon recommendation from a selection committee, consisting of Dr. Kim Brooks, dr. Dieter Pelzer, and Dr. Robert Summerby-Murry, nominated three students in the 2011 Trudeau Foundation Doctoral Scholarship competition, and has unofficially been informed that one scholarship will be awarded. The winner can not be named until after the Trudeau Foundation publically announces the winners in June 2011.

In the 2010 competition, Dalhousie nominated two students for a Trudeau Scholarship. Neither application was successful.

## **8. Canada Graduate Scholarship – Michael Smith Foreign Study Supplements (CGS-MSFSS)**

The Government of Canada launched this program in 2008 to support high-calibre graduate students in building global linkages and international networks through the pursuit of exceptional research experiences at research institutions outside of Canada. By assessing international scientific research and training, CGS-MSFSS recipients will contribute to strengthening the potential for collaboration between Canadian and international universities and affiliated research institutions. This award is valued at \$6000.

In June 2010, Dalhousie submitted one application for NSERC CGS-MSFSS, and that applicant wasn't successful because the student held a Julie Payette award and wasn't eligible. The applications were reviewed by Dieter Pelzer (Associate Dean, FGS).

In October 2010, Dalhousie submitted two applications for NSERC CGS-MSFSS, and one application for SSHRC CGS-M MSFSS. All three applications were successful. The applications were reviewed by Dieter Pelzer (Associate Dean, FGS).

## **9. Academic Programs**

New graduate programs and major program modifications are reviewed by FGS, and need approval at various stages, starting with the home Faculty, FGS, Senate, Board of Governors, MPHEC, and, for health or health-related programs, the Atlantic Advisory Committee on Health Human Resources (AACHHR). The review by FGS normally includes a report from an internal review committee and from at least one

external expert. Minor program modification proposals must be submitted to the Academic Planning and Curriculum Committee (APCC) of FGS for approval. A degree name change, which does not affect degree requirements, existing academic program content and has no resource implications requires the completion of the Modified Program Proposal form, Parts 1 and 2 and approval by APCC and Faculty Council of FGS. A request to suspend/terminate a program must be made when it is intended that students no longer be admitted into the program and for the permanent removal of the program from the institution's offerings. The Program Termination Proposal form should be used. Proposals to suspend/terminate, if approved by the home Faculty, require approval by APCC and Faculty Council of FGS. Name changes and proposals to suspend/terminate a program also require approval by SAPBC/Senate (SCAA in case of name changes), the Board, MPHEC, and AACHR (if it meets the criteria of a health or health-related program).

In 2010-2011 the following new program proposals and program modifications were reviewed in FGS.

**New programs:**

- Master of Journalism. Approved by FGS, SAPBC, Senate and MPHEC

**New program proposals (at various stages of review):**

- Master of Genetic Counselling. Approved by FGS, awaiting approval by SAPBC, Senate and MPHEC
- Master of Healthcare Management

**Program reinstatement of admissions**

- Corporate Residency Master of Business Administration/Master of Engineering
- Corporate Residency MBA/Juris Doctor

**Major program modifications:**

- None submitted this year

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

- Master of International Development Studies. Senate and the Registrar's Office notified.
- Master of Physiotherapy. Senate and the Registrar's Office notified.
- Master of Pharmaceutical Science. Senate and the Registrar's Office notified.
- Clinical Psychology. Senate and the Registrar's Office notified.
- Master of Science in Statistics. Senate and the Registrar's Office notified.
- MBA (Financial Services). Senate and the Registrar's Office notified.
- Degree name changes: LLB to JD
  - Bachelor of Laws and Master of Business Administration (LLB/MBA) to Juris Doctor and Master of Business Administration (JD/MBA);
  - Bachelor of Laws and Master of Health Administration (LLB/MHA) to Juris Doctor and Master of Health Administration (JD/MHA);

- Bachelor of Laws and Master of Library and Information Studies (LLB/MLIS) to Juris Doctor and Master of Library (JD/MLIS);
- Bachelor of Laws and Master of Public Administration (LLB/MPA) to Juris Doctor and Master of Public Administration (JD/MPA).

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

- Termination of Master of Business Administration / Master of Library and Information Studies. Approved by FGS, Senate, the Board and MPHEC.
- Termination of MURP, MEng/MURP, MASc/MURP. Approved by FGS, Senate, the Board and MPHEC.
- Suspension of admission of MPlan/MEng and MPlan/MASc. Approved by FGS, Senate, the Board and MPHEC.
- Suspension of admission of MSc and MASc in Prosthodontics. Approved by FGS and Senate.
- Termination of MA in Gender and Women's Studies. Approved by FGS, Senate and MPHEC.

FGS is responsible for academic reviews of its graduate programs. In the case of departments in the Faculty of Arts and Social Sciences and the Faculty of Science these reviews are carried out jointly with departmental reviews on a 6-7 year cycle. In other faculties FGS reviews are also carried out, wherever feasible, in combination with various faculty-based reviews, or as post-accreditation reviews. Reviews of graduate programs in the Faculty of Medicine are combined with first-term headship surveys or surveys/searches on a 5-year cycle. For joint reviews, FGS appoints one or two members to the review committee. For FGS reviews, internal review committees can consist of two to four members (normally three), and at least one external reviewer is asked to visit the unit. Following receipt of the review reports and response from the unit under review, the conclusions of the review are discussed in a meeting of Faculty Council.

**Reviews for the following graduate programs have been completed since April 2010:**

- Department of Pharmacology (joint with Faculty of Medicine): MSc and PhD programs
- Department of Microbiology & Immunology (joint with Faculty of Medicine): MA and PhD programs
- Department of Pathology (joint with Faculty of Medicine): MSc and PhD programs
- Department of Anatomy and Neurobiology survey results: MSc and PhD programs
- Neuroscience Institute
- School of Nursing: MN and PhD programs
- Department of Political Science (joint with Faculty of Arts and Social Sciences): MA and PhD programs
- Department of Psychology: MSc and PhD programs in Psychology and Psychology/Neuroscience, and PhD in Clinical Psychology

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

- Faculty of Computer Science: MACSc, MEC, MHI, MSc in Computational Biology & Bioinformatics, and PhD programs, (ready for FGS)
- Department of English (joint with Faculty of Arts and Social Sciences): MA and PhD programs, (ready for FGS)
- Department of French (joint with Faculty of Arts and Social Sciences): MA and PhD programs, (ready for FGS)
- Department of Mathematics and Statistics (joint with Faculty of Science): MSc and PhD programs, (ready for FGS)
- Department of Biology (joint with Faculty of Science): MSc and PhD programs, (ready for FGS)
- Department of Physiology and Biophysics: MSc and PhD programs (ready for FGS)
- Department of Biochemistry and Molecular Biology (join with Faculty of Medicine): MSc and PhD programs
- Department of International Development Studies: MA program
- Interdisciplinary PhD Program

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

## **9. Curriculum Matters**

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

For the period between May 2010 and April 2011, APCC considered and approved the following:

New Classes.....	104
Cross Listings.....	2
Minor Changes* .....	22
Removals.....	70

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

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

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### **1. Postdoctoral Fellows—General**

This past year has seen important changes for the current 128 postdoctoral fellows (PDFs) at Dalhousie.

The February 2010 Federal Budget made it clear that all salary support for Canadian post-doctoral fellows was subject to income taxation. Further, the ruling was retroactive to the beginning of 2010. At the time of the budget the majority of PDFs at Dalhousie were classified as “Academic Post-docs”, paying tuition for the RSCH5600 Professional Development course and taking home their entire stipends tax-free. That all changed with the budget, and several hardship cases were reported for PDFs and their dependent families.

In the face of the taxation change, the two PDF strands (Academic and Research) were no longer required. Further, the financial rationale for post-docs attending RSCH 5600 disappeared. Therefore, the course was discontinued for the 2010-2011 year. Nonetheless, in collaboration with the Integrated Health Research Training Partnership (IHRT) program run by the Faculty of Medicine and its teaching hospitals, it was still possible to offer PDFs and senior graduate students a significant degree of professional preparation.

With the advent of taxation of all PDFs, a series of initiatives were undertaken to make Dalhousie University the best possible workplace for PDFs and their families. A first important step was the formalization of the Dalhousie Postdoctoral Society, with a new constitution and society executive. Dr. Adrian West from the School of Biomedical Engineering became the first President of the Society and has worked assiduously with his members to improve conditions for PDFs.

The next two steps provided opportunity for PDFs to expand their professional experience. In cooperation with Dalhousie Financial Services, the mechanism is now in place to allow PDFs to hold and administer their own grant funding—where the funding agency permits it. As well, FGS regulations were identified that provide both mechanism and encouragement for PDFs to co-supervise thesis-based Master’s students as part of their professional development.

The fourth step was accomplished in cooperation with the office of the Assistant Vice-President for Human Resources. As of May 1, 2010, PDFs at Dalhousie will receive mandatory supplementary medical insurance coverage and optional dental coverage in a manner consistent with other staff and faculty at the University. The fifth step, a policy mandating minimum stipends for PDFs across the university has been put forward and is, at time of writing, the subject of ongoing discussions between FGS, the Postdoctoral Society, and the Dalhousie research community.

On September 23, 2010, Dalhousie celebrated its first Postdoc Appreciation Day. The event had 100 postdoc RSVPs, and featured a guest lecture by Andrew Nikiforuk (Governor General’s award-winning Canadian journalist), followed by a BBQ buffet for the postdocs, their families and their supervisors. A live band played for entertainment and the event stretched well into the evening. Door prizes were provided for the postdocs, including signed books by Andrew Nikiforuk and three Kindles. The success of the event will make this an annual occasion for celebration of the contribution of PDFs to the University.



## **2. The Killam Postdoctoral Fellowships**

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

*Committee membership:* Jeannette Janssen (Mathematics and Statistics), Rob Jamieson (Process Engineering & Applied Sciences), Shirley Tillotson (History), Anita Unruh (Physiotherapy), Axel Becke (Chemistry), Robert Beiko (Computer Science). The committee was chaired by Michael Lee (Acting Associate Dean, FGS).

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

*Killam Administrator:* Danielle Pottie

A total of 48 applications were put forward by 32 departments for this year's competition: 12 from women and 36 from men, together 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 held on March 3, 2011. 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 three offers to the Dean and Killam Trustees.

One of the initial offers was accepted (Roxana Sterniczuk, Psychiatry) and we were then able to make additional offers to two of the wait-listed candidates (Craig Wheaton, Chemistry, and Zachary Stahischmidt, Psychology).

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

### **Killam Postdoctoral Fellowship Distribution by Discipline**

<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>
2011-12	6	2/4	5	Biology, Biomedical Engineering, Chemistry, Psychology, Psychiatry	1	Law
2010-11	7	3/4	4	Bioethics, Biology (2), Pathology	3	History, SOSA, English
2009-10	10	5/5	5	Pathology, Biology, Bioethics, Biology, Psychology	5	SOSA, English (2), Philosophy, History
2008-09	13	4/9	7	Biology, Bioethics, Math, Psychology, Process Engineering, Microbiology, Earth Sciences, Industrial Engineering	6	English, History, Philosophy, Theatre
2007-08	15	7/8	11	Psychology, Biochemistry, Earth Sciences, Biology, Math and Stats, Microbiology, Process Engineering, Industrial Engineering	4	History, Philosophy, Theatre
2006-07	11	5/6	8	Biochemistry, Biology, Earth Sciences, Industrial Engineering, Mathematics, Psychology	3	History, Theatre
2005-06	7	2/5	6	Biochemistry, Biology, Earth Sciences, Mathematics, Chemistry	1	History
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. Banting Postdoctoral Fellowships**

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

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

*Committee membership:* Jure Gantar (Acting Dean, FASS), Russell Boyd (Associate Vice-President, Research), Dieter Pelzer (Associate Dean, FGS) and Michael Lee (Acting Associate Dean, FGS). The committee was chaired by Michael Lee (Acting Associate Dean, FGS).

There were 10 applications submitted for this year's competition. Each member of the Committee reviewed all of the applications and established a ranking list which was submitted to the Faculty office. It was determined that three applications would be nominated by the University. Dalhousie was successful in receiving one Banting Postdoctoral Fellowship from the Social Sciences and Humanities Research Council.

### **4. Theses and Defences**

Masters and doctoral theses for all programs are format checked by FGS and the home units, and are accepted by FGS. Doctoral defenses for all programs are organized through the Faculty, which is responsible for formally inviting the external examiner and arranging for a venue and a chairperson for the examination. This year marked the inauguration of the new Coburg Board Room in the Mona Campbell Building that was designed to serve as an excellently-equipped home for PhD oral defences at Dalhousie, and most defences were held there. From May 1, 2010 until April 30, 2011, 94 PhD oral defences were conducted. This number may be compared to 110 defences held over a similar period in the previous year, and 90 defences held in the year before that.

This year, an expanded College of PhD Thesis Defence Chairs, made up of PhD supervisors and Graduate Coordinators from across the University, bore the complete duty for chairing of doctoral defences. The numbers of PhD defences by department are listed in the table below—as are the names of the Chairs whose work is vital to the independence, objectivity and integrity of these processes. We appreciate their effort, especially since much of the demand for defenses comes at traditionally inconvenient times, such as during July and August, or immediately before the end of term.

**PhD Defences - May 1, 2010- April 30, 2011**

<b>Department</b>	<b># of defences</b>	<b># of Chairs from Dept</b>	<b>Name of Chair</b>
Anatomy & Neurobiology	1	4	Dr. Currie (2), Dr. Rutherford (2)
Architecture & Planning			
Biochemistry	3	8	Dr. McMaster (2), Dr. Byers (2), Dr. Singer (2), Dr. Bearne (2)
Biology	10	6	Dr. Leonard (2), Dr. Adl (2), Dr. Lee (2)
Biomedical Engineering		1	Dr. Wells (1)
Business Admin		3	Dr. Toms (1), Dr. Hebb (2)
Chemistry	12	9	Dr. Boyd (2), Dr. Stradiotto (2), Dr. White (3), Dr. Burford (2)
Civil Engineering	4	5	Dr. Gagnon (3), Dr. Newhook (2)
Classics			
Computer Science	7	5	Dr. Milios (2), Dr. Heywood (1), Dr. Shepherd (1), Dr. Zincir-Heywood (1)
Earth Sciences	4	3	Dr. Jamieson (1), Dr. Gibling (2)
Economics	1		
Electrical Engineering	2	2	Dr. Gregson (2)
Engineering Math		3	Dr. Fenton (3)
English	1	3	Dr. Baxter (1), Dr. Furrow (2)
French			
H & HP		3	Dr. Jackson (1), Dr. Tirone (2)
History	2	3	Dr. Neville (3)
ID PhD	7	2	Dr. Lee (2)
Industrial Engineering	1	1	Dr. Pelot (1)
Law	3	2	Dr. Girard (1), Dr. Devlin (1)
Library Sciences		1	Dr. MacDonald (1)
Math & Stats	5	3	Dr. Dilcher (2), Dr. Nowakowski (1)
Mechanical Engineering	4	1	Dr. Bauer (1)
Medical Sciences			
Microbiology & Immunology	3	2	Dr. Hoskins (2)
Nursing			
Oceanography	3	2	Dr. Metaxas (2)
Pathology	1		
Pharmacology			
Philosophy	1	4	Dr. Sherwin (2), Dr. Hymers (2)
Physics	4	2	Dr. Dunlop (2)
Physiology & Biophysics	3		
Political Science	1	1	Dr. Black (1)
Process Engineering	4	8	Dr. Speers (2), Dr. Amyotte (2), Dr. Pegg (3), Dr. Watts (1)
Psychology	7	4	Dr. Klein (2), Dr. Stewart (1), Dr. Meinertzhagen (1)
Social Work			
Sociology		1	Dr. Apostle (1)
Theatre		2	Dr. Gantar (2)

## **PhD Defences - May 1, 2010- April 30, 2011**

<b>Department</b>	<b># of defences</b>	<b># of Chairs from Dept</b>	<b>Name of Chair</b>
<b>TOTAL</b>	<b>94</b>	<b>94</b>	

## **5. Interdisciplinary PhD Program**

The Interdisciplinary PhD (ID PhD) program at Dalhousie provides an opportunity for well-qualified students to undertake doctoral studies that transcend traditional disciplinary boundaries by integrating the knowledge base, approaches, perspectives and insights of discrete academic areas. Begun at Dalhousie in 1984, this program has grown to be one of the largest of its kind in Canada with more than 80 doctoral students enrolled. It is the only PhD program at Dalhousie that is housed within the Faculty of Graduate Studies itself, one of the Associate Deans (J. Michael Lee, Acting) serving as its Director.

This year marked implementation of a new and well-defined, four-stage admissions process overseen by an ID PhD Admissions Committee. The committee consists of Drs. Marina Pluzhenskaya, Graduate Coordinator and Chair; Susan Hutchinson (Health and Human Performance); Grace Paterson (Medical Informatics); Ronald Pelot (Industrial Engineering); Amal Ghazal (History); and ID PhD student representative Matthew Numer.

The ID PhD Program Advisory Committee was formed to assist in the program's further development, and has worked hard in the past year to articulate and develop strategic planning goals for the program. The members of the Advisory Committee include: Drs. J. Michael Lee, Chair and Director of ID PhD program; Marina Pluzhenskaya, Graduate Coordinator of ID PhD program; Grace Paterson (Medical Informatics); Jack Duffy (Professor Emeritus, School of Business Administration); Raza Abidi (Health Informatics); Richard Apostle (SOSA); Ronald Pelot (Industrial Engineering); Susan Hutchinson (Health and Human Performance); Anita Unruh (Health and Human Performance); Elaine Toms (Business Administration); and Peter Tyedmers (Environmental Studies). Also serving: Elizabeth Clark, ID PhD Graduate Secretary, and ID PhD student representatives Jennifer Baechler and Matthew Numer.

The committee has met repeatedly over the year, contributing to the drafting of a comprehensive Operations Manual for the ID PhD program that addresses issues of (i) Admissions Procedures, (ii) Student Supervision and Advisory Committee Function including tracking of student progress, (iii) Program Structure including coursework, comprehensive examinations, thesis proposals, and other requirements, and (iv) Appeals Procedures.

The ID PhD Administrative Group (Director, Graduate Coordinator, and Graduate Secretary) have also been guiding the development of the first comprehensive database of nearly every student enrolled in the program over its history. Now complete with the invaluable assistance of Jonathan McDade, this resource is allowing analysis of trends and performance in the program that will guide future strategic decisions and which is forming the basis of a Self-Study Document for a full FGS review of the program in 2011-12. Additionally, the web presence of the program is being fully updated for eventual linking with the database and improved, interactive student/supervisor/program recordkeeping and progress tracking.

## **Graduates:**

In the period of this report, we celebrated 7 successful oral defenses of ID PhD theses.

- Nathan Pelletier: *“What’s At Steak? Ecological Economic Sustainability and the Ethical, Environmental, And Policy Implications For Global Livestock Production”*
- Colleen Mercer-Clarke: *“Rethinking Responses To Coastal Problems: An Analysis of The Opportunities And Constraints for Canada”*
- Dorothy Barnard: *“Envisioning Pathways to Community Health Through the Eyes of North End Haligonians”*
- Samina Abidi: *“A Knowledge Management Framework to Develop, Model, Align and Operationalize Clinical Pathways to Provide Decision Support for Comorbid Diseases”*
- Michael Taber: *“Human Systems Integration and Situation Awareness in Microworlds: An Examination of Emergency Response Within the Offshore Command and Control Training System”*
- Patricia Lingley-Pottie: *“Children’s And Parents’ Experiences with Distance Mental Health Treatment”*
- Melissa Andrew: *“Social Vulnerability and Health in Older Adults”*

## **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 12 May 2011

**Table 1: Departmental Allocations**

<b>Faculty</b>	<b>2008 Allocation (Sept 08 – Aug 09)</b>	<b>2009 Allocation (Sept 09 – Aug 10)</b>	<b>2010 Allocation (Sept 10 – Aug 11)</b>	<b>2011 Allocation (Sept 11 – Aug 12)</b>
<b>ARCHITECTURE</b>				
Architecture	\$51,908	\$44,219	\$44,975	\$48,230
Planning	\$31,481	\$32,064	\$22,500	\$17,000
<b>TOTAL ARCHITECTURE</b>	<b>\$83,389</b>	<b>\$76,283</b>	<b>\$67,475</b>	<b>\$65,230</b>
<b>COMPUTER SCIENCE</b>				
Computer Science	\$189,235	\$188,270	\$190,616	\$185,568
<b>TOTAL COMPUTER SCIENCE</b>	<b>\$189,235</b>	<b>\$188,270</b>	<b>\$190,616</b>	<b>\$185,568</b>
<b>ENGINEERING</b>				
Biological Engineering	\$14,957			
Chemical Engineering	\$17,900			
Civil Engineering	\$74,879	\$87,776	\$75,020	\$96,766
Electrical Engineering	\$52,339	\$63,261	\$57,008	\$71,331
Environmental Engineering	\$4,387	\$2,899	\$5,518	\$4,414
Engineering Mathematics	\$17,783	\$12,395	\$26,915	\$13,625
Food Science	\$12,767			
Industrial Engineering	\$14,784	\$18,106	\$14,484	\$14,037
Mechanical Engineering	\$48,935	\$51,252	\$52,202	\$47,887
Materials Engineering	\$10,460			
Petroleum Engineering			\$15,000	\$6,900
Process Engineering & Applied Science (Note 1)		\$52,733	\$72,586	\$66,644
Mining Engineering	\$3,515	\$2,812	\$2,249	
<b>TOTAL ENGINEERING</b>	<b>\$272,706</b>	<b>\$291,234</b>	<b>\$320,982</b>	<b>\$321,604</b>
<b>FASS</b>				
Classics	\$30,158	\$31,095	\$29,675	\$33,540
English	\$182,157	\$159,795	\$159,835	\$149,918
French	\$25,763	\$27,210	\$31,368	\$25,094
German	\$25,993	\$27,762	\$28,610	\$25,338
History	\$90,715	\$76,001	\$73,600	\$71,130
International Development Studies	\$43,289	\$54,188	\$52,950	\$50,935
Philosophy	\$73,262	\$69,492	\$71,594	\$65,850
Political Science	\$62,204	\$63,088	\$76,070	\$71,881
Sociology & Social Anthropology	\$76,960	\$80,154	\$86,523	\$85,143
Musicology		\$4,000	\$3,200	\$8,685
<b>TOTAL FASS</b>	<b>\$610,501</b>	<b>\$592,785</b>	<b>\$613,425</b>	<b>\$587,514</b>
<b>HEALTH PROFESSIONS</b>				
Clinical Vision Science	\$8,867	\$7,462	\$9,169	\$8,560
Health & Human Performance	\$48,188	\$52,243	\$44,994	\$47,020
Health Services Administration	\$34,812	\$34,149	\$35,000	\$12,200
Human Communication Disorders	\$89,841	\$92,652	\$94,600	\$57,700
Nursing	\$33,280	\$30,381	\$25,800	\$23,875
Occupational Therapy	\$37,956	\$43,365	\$60,000	\$29,425
Pharmaceutical Science				\$4,000
Physiotherapy	\$47,504	\$65,903	\$86,000	\$47,050
Social Work	\$28,221	\$27,477	\$33,000	\$17,350
<b>TOTAL HEALTH PROFESSIONS</b>	<b>\$328,669</b>	<b>\$353,632</b>	<b>\$388,563</b>	<b>\$247,180</b>

<b>Faculty</b>	<b>2008 Allocation (Sept 08 – Aug 09)</b>	<b>2009 Allocation (Sept 09 – Aug 10)</b>	<b>2010 Allocation (Sept 10 – Aug 11)</b>	<b>2011 Allocation (Sept 11 – Aug 12)</b>
<b>LAW</b>				
Law	\$52,054	\$73,679	\$75,800	\$52,150
<b>TOTAL LAW</b>	<b>\$52,054</b>	<b>\$73,679</b>	<b>\$75,800</b>	<b>\$52,150</b>
<b>MANAGEMENT</b>				
Business Administration	\$94,690	\$86,552	\$30,000	
Resource and Environmental Studies	\$61,705	\$66,310	\$78,600	\$40,300
Information Management	\$71,243	\$73,195	\$44,000	\$33,000
Marine Management	\$28,500	\$25,500	\$11,000	\$14,850
Public Administration	\$38,735	\$42,188	\$42,500	\$17,000
<b>TOTAL MANAGEMENT</b>	<b>\$294,873</b>	<b>\$293,745</b>	<b>\$206,100</b>	<b>\$105,150</b>
<b>MEDICINE</b>				
Anatomy & Neurobiology	\$44,826	\$55,050	\$53,640	\$46,587
Biochemistry	\$70,793	\$61,285	\$61,827	\$72,737
Community Health & Epidemiology	\$28,475	\$31,948	\$36,758	\$36,756
Microbiology & Immunology	\$91,467	\$95,549	\$102,039	\$108,581
Pathology	\$18,617	\$23,451	\$18,760	\$26,033
Pharmacology	\$55,518	\$60,918	\$56,734	\$58,862
Physiology & Biophysics	\$23,535	\$24,818	\$29,454	\$32,138
<b>TOTAL MEDICINE</b>	<b>\$333,231</b>	<b>\$353,019</b>	<b>\$359,212</b>	<b>\$381,694</b>
<b>SCIENCE</b>				
Biology	\$190,427	\$241,821	\$241,457	\$216,441
Chemistry	\$145,703	\$162,770	\$163,816	\$156,778
Earth Sciences	\$53,821	\$53,329	\$58,662	\$56,730
Economics	\$35,478	\$33,761	\$47,809	\$57,847
Mathematics	\$72,377	\$79,784	\$70,226	\$73,331
Oceanography	\$60,013	\$67,568	\$58,854	\$54,433
Physics	\$75,147	\$99,600	\$116,480	\$125,034
Psychology	\$204,955	\$187,937	\$193,549	\$181,789
Statistics	\$35,298	\$25,185	\$26,548	\$23,688
<b>TOTAL SCIENCE</b>	<b>\$873,219</b>	<b>\$951,755</b>	<b>\$977,401</b>	<b>\$946,071</b>
<b>MULTIFACULTY/FGS</b>				
Biomedical Engineering	\$51,320	\$38,739	\$43,790	\$69,332
Electronic Commerce	\$18,137	\$14,510	\$25,000	\$7,400
Health Informatics	\$7,981	\$7,285	\$9,000	\$11,000
Interdisciplinary PhD	\$111,751	\$140,377	\$165,101	\$154,131
<b>TOTAL MULTIFACULTY/FGS</b>	<b>\$189,189</b>	<b>\$200,911</b>	<b>\$242,891</b>	<b>\$241,863</b>
<b>Total</b>	<b>\$3,227,066</b>	<b>\$3,375,311</b>	<b>\$3,442,465</b>	<b>\$3,134,024</b>

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



## **FGS Student Research Grant & Conference Travel Funding**

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

Due to the depletion of student research and travel funding dollars, FGS reduced the amount of the research and travel grant funding during the course of the year. The amount of a student travel grant was reduced from \$750 to \$250, while the student research grant was reduced from \$750 for Masters students and \$1,500 for Doctoral students to \$250 for both. Currently the maximum awards for conference travel grants and research grants is \$400 with research grants only available to doctoral students. Each award is assessed based on need as explained in the application's budget submission, and the maximum amount is not necessarily awarded. Research and conference travel grants are funded out of the FGS administrative budget, a budget that is subject to the annual budget cuts experienced by all faculties. We are working to keep as much money for students as possible in this envelope.

The process has also been altered in that money will be provided to students after they return from a conference and submit their original receipts. This is a change that was initiated in consultation with Financial Services.

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

	2006-07		2007-08		2008-09		2009-10		2010-11	
	Awards	\$ Total	Awards	\$ Total	Awards	\$ Total	Awards	Awards	Awards	\$ Total
<b>Conference travel grants</b>	158	106,797	180	127,570	140	100,432	165	119,658	149	81,616
<b>Research grants</b>	59	48,524	67	37,630	48	37,394	31	25,446	20	14,671
<b>Total</b>		<b>155,321</b>		<b>165,200</b>		<b>137,826</b>		<b>145,104</b>		<b>96,287</b>

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

## **Final Report on the 2010-2011 Dalhousie University Killam Lectures: “Imagining a Sustainable World: Educating for social change and sustainable behaviour”**

### **Theme**

The broad theme for the Killam Lectures for 2010/2011 was “Educational Leadership for Social Change Towards Sustainability.” Our interest is in the role of education in direct leadership for social change. We know that education transforms perspectives and practices of students, which may lead to social change. Here we wish to explore the way in which educational activities are direct agents in leading social change.

To meet the Sustainability challenge will require study, social change, and active engagement with the world around us. It may require sacrifice, but it most certainly will require creativity and imagination. The Killam lecturers were challenged to consider the role of positive social energy and collective imagination in the task of raising sustainability awareness and driving social change towards sustainable behaviour.

**The Development Paradigm and Education for Sustainability** – Thursday, February 10  
Kartikeya V. Sarabhai, Director, Centre for Environment Education, Ahmedabad, India

Kartikeya Sarabhai is the founding director of the Centre for Environment Education headquartered in Ahmedabad, India. The CEE was created in 1984 as a unique government/NGO partnership in recognition of the importance of environmental education in India's overall environment and development strategy. Mr. Sarabhai is also the editor-in-chief of the *Journal of Education for Sustainable Development* and has written and spoken extensively on environment, education, and international development.

In his lecture, Mr. Sarabhai spoke of the conflicts between the challenges of global sustainability and the aspirations of people in developing nations for a better quality of life, for themselves and their children. He offered a vision of community-based learning and direct action, supported by formal education, in support of a new path to sustainable development that might bypass the deep problems posed by development on the western model.

**Is Humanity Inherently Unsustainable?** – Thursday, March 17  
Dr. William Rees, Professor, School of Community and Regional Planning, UBC

After decades of measuring human impact on the planet, Dr. William Rees now explores the area of human cognition and human nature. How can we explain and overcome peoples' denial of issues like climate change and dangerous threats to our own survival? He is the co-originator of the "ecological footprint" concept and works in the realm of ecological economics and human ecology.

In this lecture, Dr. Rees outlined the recent history of the vision of sustainable development, and the challenges, obstacles and detours that have accompanied this aspiration. He offered insight into the human cognitive challenges posed by the future-oriented framework for decisions and conduct that is inherent in sustainable development, and described a number of consciousness-raising tools, including the “ecological footprint” model, that might empower humans to achieve social change towards sustainable behaviour.

### **Lectures, Seminars & Other Activities**

Mr. Sarabhai's lecture drew an audience of about 350; Dr. Rees' lecture was presented to an audience of about 450-500. Lectures were held in the Ondaatje Hall, and were publicized through Dal's Notice Digest, DalNews, the Sustainability@Dal Newsblog, the FGS web site, the College lecture series poster, a Killam Lectures poster, press releases to all media, and event listings in *The Coast* and elsewhere. Additional publicity for Dr. Rees' lecture included 1/3 page display ads in *The Coast* (2 weeks and 1 week before the talk), and an interview on CBC Radio One's *Mainstreet* the day of the lecture. Lectures were video recorded for educational use and posted on the OWL courseware system.

Receptions with refreshments (coffee, tea, cider, light snacks) followed both lectures and allowed for an hour of informal continuation of discussion and direct contact between audience and speakers. Attendance at the receptions included students, faculty and members of the public. In addition to the evening lectures, each lecturer presented a seminar for faculty, students and teaching assistants in the College of Sustainability, on issues raised by the lecture, in a more intimate setting.

The Killam Trusts were represented in the introductory remarks for both lectures. Dr. Sunny Marche, Acting Dean of Graduate Studies, provided these remarks to the February lecture, and George Cooper, Managing Trustee of the Killam Trusts, did so for the March lecture.

### **Context**

The 2010-11 Killam Lectures were integrated with the College of Sustainability's ongoing Thursday evening public lecture series. The College of Sustainability is an interdisciplinary forum for teaching and learning, bringing together students and faculty from across Dalhousie, and connecting with the community beyond the university. The College posits that "in this century an understanding of sustainability will be critical for every person in a leadership role in every sector of society." Founded in 2008, the College is now in the second year of offering classes in the Environment, Sustainability & Society program, which allows nearly all Dalhousie undergraduates the opportunity for interdisciplinary study of sustainability, parallel to pursuing studies in a traditional academic area.

Through the Thursday evening "Environment, Sustainability & Society Lectures", the College opens this engagement with sustainability to the broader community, at Dalhousie, and beyond the campus. Students must attend these lectures as part of their studies and grapple with a broad spectrum of perspectives in forming their own position; the public is welcome to share the journey and be encouraged and inspired by the positive energy of young people for a sustainable future.

### **Budget & Implications**

Budget allowed for two lectures, including honoraria, travel costs and incidental expenses. The honoraria were paid at a level (\$2500./ \$2000.) recognizing both the prominence of the speakers and the prestige of the lecture series, and were an important factor in securing the participation of the speakers. Funds were also allocated for modest reception costs and limited publicity. At the current budget level (\$10,000 was indicated for planning purposes), we feel that two lecturers will not be possible in the future without compromise of stature, or sharing of costs with another funding source.

### **Committee**

All are cross-appointees of the College of Sustainability, representing a broad spectrum of Dalhousie Faculties.

- Steven Mannell, Director, College of Sustainability (Faculty of Architecture & Planning)
- Deborah Buszard (Faculty of Science)
- Claire Campbell (Faculty of Arts & Social Sciences)

- Peter Tyedmers (Faculty of Management)

Respectfully submitted on behalf of the committee by  
Steven Mannell,  
Director, College of Sustainability

## **2010-2011 Dalhousie University Killam Lectures: The Speakers and Their Topics**

### **An Ethical Framework for a Sustainable World**

Thursday, February 10, Ondaatje Hall, McCain Building

Kartikeya V. Sarabhai

Director, Centre for Environment Education, Ahmedabad, India  
Editor-in-Chief, Journal of Education for Sustainable Development

The preamble of the UN's Earth Charter states, "We must join together to bring forth a sustainable global society founded on respect for nature, universal human rights, ecological integrity, economic justice, and a culture of peace." Where do we stand now, after a decade of using the Earth Charter for education for sustainable development?

Kartikeya Sarabhai is the Founding Director of the Centre for Environment Education headquartered in Ahmedabad, India. The CEE was created in 1984 as a unique government/NGO partnership in recognition of the importance of environmental education in India's overall environment and development strategy. He is currently the editor of the Journal of Education for Sustainable Development and has written and spoken extensively on environment, education, and international development.

### **Is Humanity Inherently Unsustainable?**

Thursday, March 17, Ondaatje Hall, McCain Building

Dr. William Rees

Professor, School of Community and Regional Planning, UBC  
2007 Trudeau Fellowship Prize, Fellow of the Royal Society of Canada

Rees is the originator of the "ecological footprint" concept and works in the realm of ecological economics and human ecology. After decades of measuring our impact on the planet he now explores the area of human cognition and human nature. How can we explain humanity's impulse towards denial of issues like climate change and dangerous threats to our own survival?

Dr. Rees has taught at the University of British Columbia since 1969 and is the former director of the School of Community and Regional Planning at UBC and a recent past-President of the Canadian Society for Ecological Economics. His primary interest is the ecological conditions for sustainable socioeconomic development. Much of Rees' work is in the realm of ecological economics and human ecology and he is recognized as the originator of the "ecological footprint" analysis, originally published in the seminal work *Our Ecological Footprint* (1996).

Both lectures took place in Ondaatje Hall, McCain Building, 6135 University Ave.  
The lectures started at 7 p.m. and are free of charge. A reception followed.

## **Academic Appeals Committee Annual Report 2010-2011**

### **Membership 2010-2011**

<b>Name</b>	<b>Department</b>	<b>Term End</b>
Eric Snow	DAGS Rep	2011
Sina Adl	Biology	2013
Richard Nason	Business Administration	2013
Richard Singer	Biochemistry & Molecular Biology	2013
Alexander Treiger	Classics	2013
<i>1 vacancy</i>		

*Reserve Panel:*                      Members of FGS Faculty Council

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

Since May 2010, the Academic Appeals Committee had five appeals. Two were returned for hearings at the departmental or line faculty level. Two were resolved before a hearing was necessary, and one appeal resulted in a subsequent hearing.

I would like to 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 12, 2011  
Sunny Marche, Acting Dean FGS

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