

**Faculty of Graduate Studies
Annual Report
2012**



**DALHOUSIE
UNIVERSITY**

Inspiring Minds

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Dean's Report

The Faculty of Graduate Studies (FGS) is committed to providing the best possible service to graduate students, postdoctoral fellows, and graduate programs. 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 following initiatives have been taken over this past year:

- 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. The good news is that **three** new scholarships have been established, thanks to contributions from Oz Optics, Glendon McCormick and CIBC.
- The FGS recruitment team, headed by Wendy Fletcher, continues to develop a recruiting platform and materials 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. This team is also looking at expanding the student orientation session held in September. They are working with the International Student Centre on an orientation specifically targeting international students. All incoming students receive a personal welcome email from the Dean, which includes important information and links to assist them with registration and plans for the term they are admitted.
- General graduate student work space that was established on the third floor of the Mona Campbell Building has been taken back for classroom space. Two small rooms have been provided in their stead that will accommodate about eight students in total. The shared offices on the 4th floor of the Goldberg Computer Science Building have been assigned to PhD students that are within five to six terms of completing their degree. This space has just recently been refurbished with new desks, filing cabinets, chairs and work stations in the playpen area.
- The PhD Defence Room (Coburg Board Room) is being heavily utilized for PhD defences. The feedback for this room has generally 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 used to be extremely difficult.
- The Graduate Student Information System Phase III to digitize annual student-progress reports and program requirement lists, in conjunction with a digital workflow management system, will launch imminently.
- Associate Dean Pelzer, working with Senate, has developed 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 and are on-line.
- The recently established *Deans' Awards* aim to increase the successful recruitment of high quality graduate students into thesis-based programs at Dalhousie. Award monies are used by the line deans to: (1) provide top-ups for competitive applicants, or (2) provide additional fellowship support in the form of reductions to differential fees for high quality foreign applicants. The awards are funded jointly by the line Faculties (Science, Arts and Social Sciences, Engineering and Medicine) and by FGS. The line deans create a fund from non-FGS-allocation sources to support graduate student recruitment, as described above, and FGS provides partial matching to a pre-set maximum.

- FGS staff organized two sessions in the winter term for graduate coordinators and graduate secretaries in Architecture and Engineering for thesis formatting and e-thesis submission. In addition we held the regular information sessions for graduate coordinators and graduate secretaries. We also delivered a session called “Defending Your Dissertation”.
- FGS and the Dalhousie Association of Graduate Students worked with MITACS Step to bring a series of professional development workshops to the region. The workshops ran for four consecutive days and included sessions on presentation skills, networking, time management, foundations of project planning and a networking event. The workshops were open to PhD students from their third year up and postdoctoral fellows from the region. It is anticipated that Dalhousie will run another of these events in the upcoming academic year.
- The Associate Dean and I continue to leverage the potential of social media. We contribute to the Deans’ Blog (<http://dalgrad.dal.ca/deansblog>) on topics related to graduate students and PDFs. The Associate Dean regularly “tweets” on issues related to graduate student administration and concerns. One of our development presentations is also available on YouTube.
- Canadian and foreign universities have come to view education exchanges as a desirable part of higher education, both at the undergraduate and graduate levels. In graduate education, an increasingly common method to promote exchange is through jointly supervised and awarded degrees, e.g., the *cotutelle* (France), the *co-joint* (Australia, New Zealand), the 2+2 Degree, etc. FGS has developed a framework for the creation and administration of joint doctoral degrees between Dalhousie University and a partner university (foreign or domestic). This policy is now before Senate.
- FGS has modified its calendar rules to permit the admission of some 3-year Bologna-based degrees from Europe. Specifically, Dalhousie University recognizes 3-year degrees in some programs from select universities from Bologna-signatory countries as equivalent to a 4-year honours degree, but makes decisions in this regard on a case-by-case basis. Detailed criteria are given in the Calendar.
- Dr. Bill Barker, who is a professor in the Department of English and former President of the University of King’s College, will become the new director of the ID PhD Program in the fall.

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 several changes in personnel and responsibilities within the FGS office. Deanna Foster left the term Postdoctoral Fellows Clerical position. The position was restructured and Kimberly Humes has joined us in that position. Melanie Clarke left and was replaced by Katelynn Northam in a one-year reconfigured position as the Recruitment and Program Assistant. Colleen Hannam left FGS and was replaced by Alicia Kirk as the Graduate Student Services and Admissions Clerk. Megan Dixon was replaced by Chenxi Xi as the Information Clerk. Stephanie Theriault took on the role of Acting Scholarship Officer while Danielle Pottie was on maternity and parental leave until the end of January 2012. We had several temporary staff backfill as Acting Senior Thesis Clerk. Elizabeth Clark left and was replaced by Meghan Fish as the Graduate Secretary for the Interdisciplinary PhD program. Dr. Mike Lee left as the Associate Dean for Postdoctoral Fellows, Professional Development and ID PhD. This position has not been refilled.

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 has once again worked tirelessly to provide service to all constituents as well as to engage in new initiatives, and their dedication is impressive and greatly appreciated. Our student assistants, Ella Muravyeva, Connor O’Callaghan, Shawn

Simamba, Jessica Chisholm, Jaida Regan and Kylie Peacock have been terrific all year and continue to contribute in a wide range of essential activities.

We also greatly appreciate the 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 9, 2012

Bernard Boudreau, Dean
Faculty of Graduate Studies

This report covers the period of May 1, 2011 to April 30, 2012 and contains projections to August 2012 where numbers were available. The financial data covers the period September, 2010, to August, 2011.

1. Enrolment

Graduate students represent approximately 20% of the total Dalhousie student population which 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. Graduate enrolment has remained relatively steady over the last year. Overall enrollment is the highest it’s ever been and 2011 also saw the greatest ever absolute number of international students.

Graduate enrolments 2000-2011 (December 1 “headcounts”) ¹

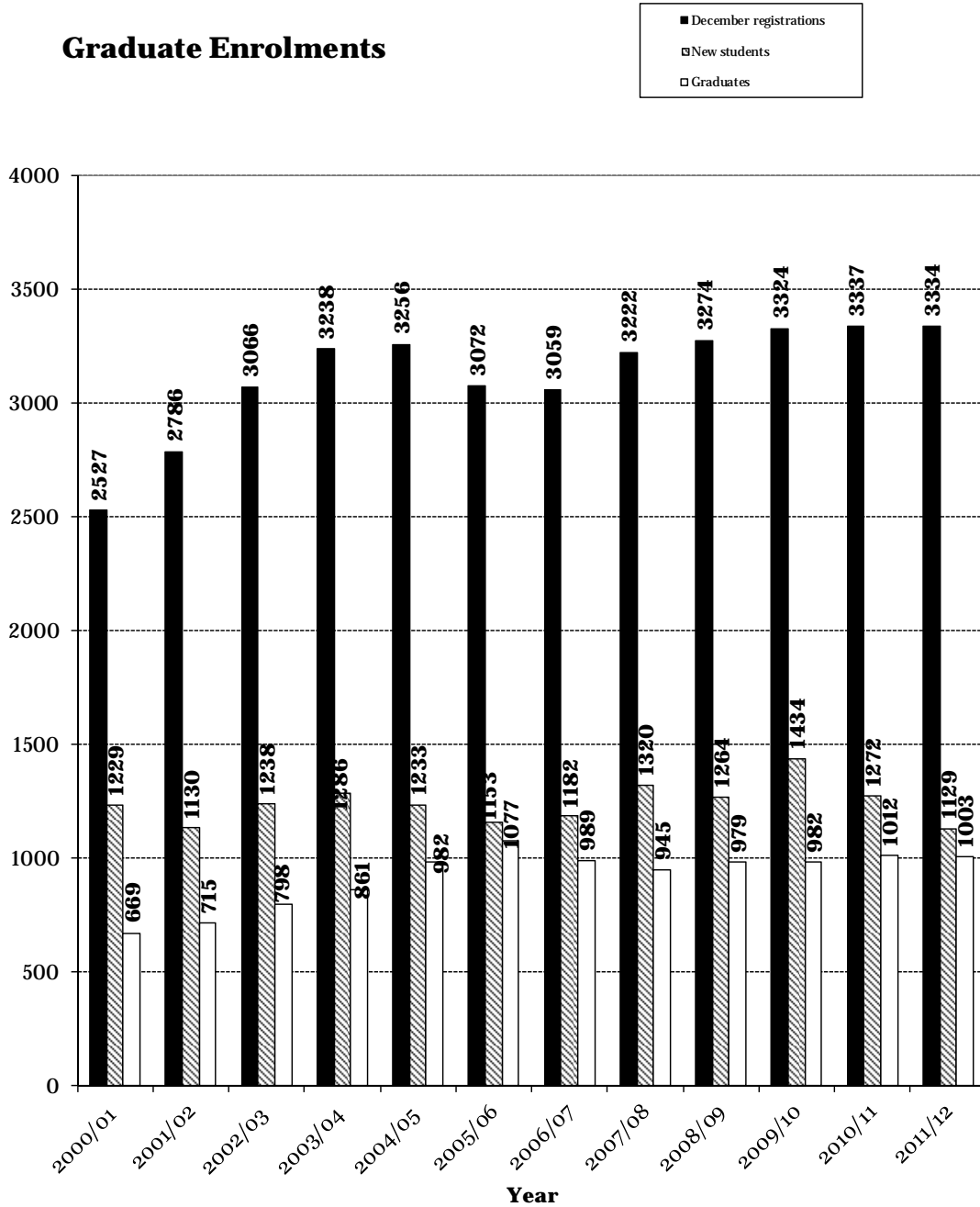
Year	Full time	Part time	Total	Increase	FTE	International
2000	1684	843	2527	6.1%	1965	333
2001	1853	933	2786	10.2%	2164	362
2002	2061	998	3059	9.8%	2394	442
2003	2288	954	3242	6.0%	2606	547
2004	2338	903	3241	0.0%	2639	540
2005	2228	844	3072	-5.2%	2509	475
2006	2267	792	3059	-0.4%	2531	412
2007	2396	826	3222	5.3%	2671	412
2008	2412	862	3274	1.6%	2699	441
2009	2469	855	3324	1.5%	2711.56 ²	537
2010	2611	726	3337	0.4%	2844.20 ²	592
2011	2612	722	3334	-0.1%	2844.38 ²	684

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 graduate student enrolment increased last year by nearly 13.5%, 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, 2010/11 and 2011/12 new student figures include newly registered summer term students.

For the 2011-2012 academic year, there were 921 newly registered graduate students starting in the fall term, 172 who started in the winter term and another 36 who started in the summer term. 1003 students graduated in May and October 2011. To capture programs that have a summer start date, newly registered

graduate students have been included. However, with the student summer registration process still active, the summer term number will alter. This increase will be reflected in our report next year.

International Enrolments

International Graduate Students by Geographic Region as of March 1, 2012				
Geographic Region	Degree Programs	Visiting/Special*	Total	%
Africa	58	2	60	8.3%
Asia - Eastern	80	8	88	12.1%
Asia - South Central	335	4	339	46.6%
Asia - South Eastern	11		11	1.5%
Bermuda and Caribbean	6	1	7	1%
Central America	1		1	0.1%
Europe	42	12	54	7.4
Middle East	104	4	108	14.9%
North America	36		36	4.9%
Not Reported	1		1	0.1%
South America	16	2	18	2.5%
South Pacific	4		4	0.6%
Total	694	33	727	100%

Specific student numbers for Saudi Arabia (94), China (85), and India (225) 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 2010-11, 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 2012-13 is \$3,263,175.

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 2012-13 as well as the trend in FGS scholarship allocations in recent years.

Funding sources for Dalhousie graduate students, 2010-2011 ¹

Funding from Dalhousie University Sources

FGS Scholarships	\$3,630,703
<i>Includes: Dr. P. Anthony Johnstone Memorial Bursary, Eliza Ritchie Scholarship, FGS Departmental Allocation, James Robinson Johnston, NS Black & 1st Nation, Phi Kappa Pi Joe Ghiz Memorial Award, Sushi Nami Royale Scholarship, The Mowat Prize, Vitamin Scholarship</i>	
Bursaries	\$34,432
Departmental Funding	\$841,798
Killam Scholarships	\$865,702
President's Awards	\$454,914
Other Internal:	\$123,149
<i>Includes: Alumni Graduate Scholarship, Bruce & Dorothy Rosetti & Reid Scholarship, Clinical Program, Douglas M Johnston Scholarship, Douglas Mackay Award-Money Management, Dr. L.F. Kirkpatrick Scholarship, Engineering/Bruce & Dorothy Rosetti, Master of Marine Management Gold Award, Math Circles Funding, School of Nursing MN Scholarship</i>	
Total internal sources:	\$5,950,698

Funding from sources external to Dalhousie University

SSHRC	\$1,302,509
NSERC	\$2,954,951
Faculty Research Grants	\$8,305,454
CIHR	\$776,083
NSHRF	\$761,174
Sumner	\$48,000
Other External:	\$828,716

Includes: Aboriginal Health Res Scholarship, ACENet Fellowship, Alzheimer's Society, APENS Centennial Scholarship, Autism Research Training Program, Belle Crowe, Canadian Cancer Research Foundation, CIHR RURAL Centre Fellowship, CIHR Training Grant, CRTP Award, Dr. RM MacDonald Scholarship, Dr. S.K. Malhotra Graduate Scholarship, Electa MacLennan Memorial Scholarship, External Scholarship, Exxon Mobil Canada Ltd. Scholarship, G.G. Meyerhof Graduate Fellowship, Glengarry Bursary, Godsoe Scholarship & Ward Scholarship, Gold Prize in Aging-Doctorial Award NSHRF/CIHR, Gunn Family Studentship in Alzheimer Research, Heart & Stroke Foundation, Hebb Prize, IWK Grad Studentship, Jean Kienapple Memorial Prize, John & Lina Graham Commonwealth Fund, Katherine & Robert MacDonald Scholarship, Lew King Scholarship, Lung Association, Margaret Cragg Award, Margaret Inglis Hagerman Graduate Scholarship, Medjuck Scholarship, Multiple Sclerosis Society, NCRTF in Hepatitis C Scholarship Award, NRC-AIF, Ontario Problem Gambling Centre, Parks Canada, Robert L. Comeau Scholarship, Roy A Jodrey Scholarship in Law, Saudi Arabia, Wenner Gren Foundation Award, William Leiper Memorial Scholarship

Total external sources	\$14,976,887
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Total all sources	\$20,927,585
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1. Figures as of August 31, 2011. These figures include funding that is awarded for the full academic year (Sept 2010 – Aug 2011).

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
President's Award	Tuition	First 2 years of PhD

The award statistics for scholarships, from the three granting councils to Dalhousie students for 2008, 2009, 2010, 2011 and 2012, are presented in the next table.

National Granting Council Scholarships Awarded, 2008-2012

		2008 ¹	2009 ²	2010	2011	2012
NSERC	Master's Nominations (CGS-M, PGS-M)	39	42	51	44	41
	Master's Awards					
	CGS-M	16	34	36	23	16
	PGS-M	14	4*	2	3 **	3
	Doctoral Nominations (CGS-D, PGS-D)	49	47	45	41	47
	Doctoral Awards					
	CGS-D	13	14	2	4	5
	PGS-D	21	20	26	15	14
	Vanier Nominations ⁴		3	1	2	4
	Vanier Awards		1	1	1	0
	NSERC New awards to Dalhousie	64	73	67	46	38
	NSERC Total new awards held	66	72	62	57	?
SSHRC	Master's Nominations (CGS-M)	21	19	19	18	18
	Master's Nominations (Business Related) ³		2	3	N/A	N/A
	Master's Awards					
	CGS-M	21	21	22	18	?
	Doctoral Nominations	29	27	29	25	22
	Doctoral Nominations (Business Related) ³		3	0	n/a	n/a
	Doctoral Awards					
	CGS-D	4	10	5	6	8
	SSHRC-D	9	6	0	3	4
	Vanier Nominations ⁴		2	2	1	1
Vanier Awards		0	2	0	1	
	SSHRC New awards to Dalhousie	34	37	29	27	24
	SSHRC Total new awards held	26	44	33	31	?

		2008 ¹	2009 ²	2010 ⁵	2011	2012
CIHR	Master's Nominations	7	12	12	5	8
	Master's Awards CGS-M	6	12	12	4	?
	Doctoral applications (direct to CIHR)			25	23	12
	Doctoral Awards CGS-D	1	4	7	6	1
	Doctoral	1	0	1	0	0
	Vanier Nominations ⁴			1	3	1
	Vanier Awards			1	1	0
	CIHR New awards to Dalhousie	8	16	20	11	?
	CIHR Total new awards held	7	17	23	16	?
Total Tri-Council new awards⁶		99	126	116	104	?

		2008	2009	2010	2011	2012
Trudeau	Nominations	0	2	2	3	2
	Awards	0	0	0	1	?

1. 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. SSHRC 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)
 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 2010, Sept. 2010 and Jan. 2011 (this could be students who won awards through Dalhousie or students bringing awards won through other universities).
- ? Figures not known at the time of this report

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. Dr. Marina Pluzhenskaya serves as Acting Director of the program, working with the Graduate Secretary, Meghan Fish. 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 for a program that would allow its students to do research on complex problems that cannot be solved within a single discipline, and strong interest by faculty members in interdisciplinary collaborative work. 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. 74 students are currently enrolled in the program.

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 format. As a result, the FGS web site (<http://dalgrad.dal.ca>) has easily become our most important means of communication and method of transmitting new information. It 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 since May 2009, graduate applicants have 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 is 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 coordination of the Dorothy J. Killam Lecture Series funded from the Killam Residue Fund.

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

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

In February 2012, the Killam Scholarship Committee received 72 nominations for new awards and offered 26 new and 34 renewal scholarships.

In 2011-2012, the budget allowed for three Killam Postdoctoral Fellowships. The Committee had an exceedingly difficult task selecting the winning candidates from among a very strong field of applicants representing widely different disciplines. Two of the initial three offers were declined, allowing offers to be made to 2 wait-listed candidates.

In the 2012-13 competition, the budget allowed for three Killam Postdoctoral Fellowships. One of the initial three offers was declined, allowing an offer to be made to a wait-listed candidate. That offer was declined so an offer was made to the 2nd wait-listed candidate, which was accepted. 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 2011 Killam Lecture Series was 'Visualizing Information: Finding knowledge in massive data'. This series was organized by the Faculty of Computer Science, and was headed by Dr. Michael Shepherd. The theme for the 2012 Lecture Series will be 'Novel Insights into the Future of Human Health', organized by the Faculty of Medicine, and is headed by Dr. Gerry Johnston and organized by Terrilyn Chaisson.

Like the previous year, FGS decided to hold a formal convocation-style presentation followed by a reception for the annual Killam Event. This event was held in conjunction with the annual visit by the Killam Trustees on October 6, 2011. The more than 100 guests in attendance enjoyed a presentation held in the Great Hall of the University Club. As part of the presentation, Dr. Randall Martin, Killam Professor, gave a brief speech. Special guests included Managing Trustee George Cooper, and Trustees Ann McCaig, John Matthews and John Montalbano, Chancellor of the University Dr. Fred Fountain, and Chair of the Board of Governors Dr. Jim Spatz,. 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, the 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.

6. Recruiting

The Faculty of Graduate Studies created a new staff position in September 2011, the Recruitment and Program Assistant, which has been filled by Katelynn Northam. The position is responsible for a number of tasks, including liaising with graduate departments about recruitment initiatives and updating FGS recruitment materials.

Over the last few years, FGS has utilized 'callback cards' to collect information from prospective students at recruitment fairs. A survey of graduate departments regarding the effectiveness of callback cards was carried out in February. This resulted in a revised process for following up with prospective students that is more streamlined and less onerous on departments.

A significant achievement this year was the creation of more consistent and accurate information between the Graduate Calendar, the Handbook, the FGS website and department websites. Enhancements to FGS print materials include a revised Graduate Studies Information Handbook, a new bookmark highlighting FGS's services, a new faculty brochure, and a cycle of print advertisements for Dalhousie Magazine, The Coast and the Metro. There was also a full article in DalNews and Dalhousie Magazine regarding international graduate students at Dal, and FGS intends to profile more graduate students through these mediums in the months to come.

FGS held an orientation for incoming graduate students on September 7, 2011, which included presentations from various Dalhousie service departments, current Dalhousie graduate students, student society and union representatives as well as Dr. Boudreau and Dr. Pelzer. Approximately 300 new graduate students attended the orientation.

The FGS Facebook page continues to function as a forum for prospective students to network with one another and pose questions about Halifax and Dalhousie. The page has 560 'likes' so far and is growing. For the 2012-13 academic year, FGS will be using a Facebook event as another way for students to connect with each other before orientation, as well as a means by which staff can disseminate information and notices about orientation events. This event page will include enhanced images, discussions and suggestions regarding life at Dalhousie and in Halifax with the hopes of generating enthusiasm and excitement from admitted students while potentially increasing RSVPs for the event.

FGS has also begun working towards different processes and programs related to enrollment management. One of the activities we participated in this year is a campus-wide working group on student transitions. This group is made up of stakeholders from across the university and has the goal of improving student registration numbers and overall student success. FGS staff have taken suggestions from these meetings and will incorporate them in the coming academic year.

During the fall FGS participated in six graduate student recruitment events at Memorial, York, Toronto, Alberta, McGill, and Queens Universities, as well as four Chinese Scholarship Council fairs for high achieving prospective PhD students. FGS also participated in Dalhousie's Open House in October and the Academic Program Fair in January.

For the second year in a row FGS represented Dalhousie at the Higher Education Exhibition in Riyadh, Saudi Arabia in April. Our staff noted there was a recognizable improvement in student GPAs and English competency in 2012 compared with 2011 and we are hopeful this will lead to high quality applications to Dalhousie in the future.

The Consortium of Alberta, Laval, Dalhousie and Ottawa (CALDO) is an organization that FGS is involved with that is seeking to recruit high-quality PhD applicants from Brazil. CALDO is still in its early stages but has recently made a number of advances, such as the launch of an online admissions site for all four universities. They have also resolved many processing issues between the universities, and are finalizing solutions to some privacy concerns. FGS was an active contributor at a meeting in Quebec in the fall and during teleconferences in the winter term. The first group of CALDO applications is expected in June 2012.

7. Students

The convocation lists for the May and October 2011 convocations included 896 master's degrees, 99 PhD degrees, and eight diplomas awarded, for a total of 1003 graduates over both months. 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, 982 in 2009, and 1012 in 2010.

Our Faculty recommends awards for a number of internal and external competitions, including the Governor General's Gold Medal Awards (2), the Dalhousie Doctoral Thesis Awards (2), the NSERC Doctoral Prizes (2 nominations to NSERC), 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 2011 Gold Medals were presented at the May 2011 convocation to Sean Anderson, an MSc graduate of the Department of Biology, and to Maria Cecilian Engler-Palma, an LLM graduate in the Schulich School of Law. These exceptional students were selected from eight departmental nomination files, representing a master's level graduating class of 896 students. The citations for Mr. Anderson and Ms. Engler-Palma in part read as follows.

Sean Anderson

*The Governor General's Gold Medal in the Natural Sciences and Engineering for 2011 is awarded to Sean Anderson. Sean Anderson graduated with the degree Master of Science in Biology in the October 2010 convocation. The title of his Master's thesis is: "**Trends, Drivers, and Ecosystem Effects of Expanding Global Invertebrate Fisheries.**"*

"In his Master's thesis, Sean Anderson "has taken a global approach to investigate the temporal and spatial patters of targeting invertebrate species due to many predatory fish stocks having been depleted in the course of intensive fishing over past decades". Sean also has published 5 peer-reviewed papers (4 as first author), and graduated with a GPA of 4.06."

Maria Cecilia Engler-Palma

*The Governor General's Gold Medal in the Humanities and Social Sciences for 2011 is awarded to Maria Cecilia Engler-Palma. Maria Cecilia Engler-Palma graduated with the degree Master of Law in the October 2010 convocation. The title of her Master's thesis is: "**Allocation of Fishing Opportunities in Regional Fisheries Management Organizations: A Legal Analysis in the Light of Equity.**"*

In her Master's thesis, Maria Cecilia Engler-Palma "...not only documents the evolving legal criteria for making allocation decisions, such as historical use, needs of coastal communities, reights of developing states and marine biodiversity interests, but offers useful suggestions in how the international community might further develop the law relating to equitable fisheries allocations..." Maria Cecilia Engler-Palma graduated with a GPA of 4.12.

The winners of the 2012 Governor General's Gold Medals will be announced at the May 9th, 2012 FGS Full Faculty meeting.

The Dalhousie University Doctoral Thesis Awards were established in 2004, and the first awards were presented at the May 2004 convocation. For 2011, the Faculty of Graduate Studies Doctoral Thesis Awards were presented to Dr. Elaine Craig of the Schulich School of Law in the Humanities and Social Sciences category, and Dr. Liang-Tzung Lin of the Department of Microbiology and Immunology in the Natural and Medical Sciences and Engineering category. These awards are 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 read in part as follows:

Elaine Craig

*The Dalhousie University Doctoral Thesis Award in the Humanities and Social Sciences for 2011 is awarded to Elaine Craig. Dr. Craig graduated with the degree Doctor of Philosophy, in English in the October 2010 convocation. The title of her Doctoral Thesis is: "**Sex and the Supremes: Towards a Legal Theory of Sexuality.**"*

In her Doctoral thesis, Dr. Craig "examines how the Supreme Court of Canada, across legal contexts, has tended to conceptualize sexuality." One of the main questions posed is "How does the court understand sexuality and does this understanding change depending on the type of legal issue involved?"

Liang-Tzung Lin

The Dalhousie University Doctoral Thesis Award for "the University's most outstanding doctoral thesis" in the Natural and Medical Sciences and Engineering for 2011 is awarded to Liang-Tzung Lin. Dr. Lin graduated with the degree Doctor of Philosophy in Microbiology and

*Immunology in the May 2011 convocation. The title of his thesis is: “**Host Factor Regulation of Hepatitis C Virus Replication in Rodent Cells.**”*

In his Doctoral thesis, Dr. Lin “investigates host cell factors that influence the replication of Hepatitis C virus in mouse cells... These studies constitute the first step in constructing a mouse model that supports HCV infections, which could be used in the evaluation of antiviral drugs and vaccine development... and subsequently proved that other human liver factors are required for the packaging and assembly of the virus.”

The winners of the 2012 FGS Doctoral Thesis awards will be announced at the May 9th, 2012 FGS Annual Faculty meeting. It is important for FGS and for the university to honour our most outstanding graduates through such awards, not only because of the achievements of the award winners, but also to recognize the high level of achievement of all our students and programs. Students nominated for external award competitions in the last year are as follows.

NSERC Doctoral Prize (submitted September 2011)

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/UMI Distinguished Doctoral Dissertation Award (submitted March 2012)

Engineering, Medical and Natural Sciences category:

Dr. Aaron van Donkelaar, Department of Physics and Atmospheric Sciences, PhD awarded October 2011, for his thesis “Aerosol Observations from Space, Aircraft and Surface Analyzed with a Global Model”.

Fine Arts, Humanities and Social Sciences category:

Dr. Marc Zahradnik, Department of Psychology, PhD awarded October 2011, for his thesis “Relationships Between Childhood Exposure to Violence, Posttraumatic Stress, Resilience, and Alcohol Misuse in Mi’kmaq Adolescents”.

NAGS Master’s Thesis Award (submitted February 2012) One Nomination only accepted

Ms. Sara Keeshan, Department of History, to be awarded MA at May 2011, for her thesis “The Mind’s Eye: Reconstructing the Historian’s Semantic Matrix through Henry Knighton’s Account of the Peasants’ Revolt, 1381”.

Ms. Keeshan was the winner of this award which was presented at the NAGS Annual Conference this past April.

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 Dean's Report

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

1. Scholarships

The following section will outline all of the scholarship competitions and processes held during the 2010-2011 and 2011-12 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 2011-2012 is \$3,134,026, as compared to the 2010-2011 total of \$3,442,465. The anticipated funding allocation to departments in 2012-13 will be \$3,263,175.

The yearly allocation for thesis programs is based on two parts. Part A (1st round) is calculated as 80% of the previous year's base allocation. Part B (2nd round) is based on the number of A- or better students coming into a program in the previous year, weighted as follows: 1 point for new masters students, 2 points for transfers from masters into PhD programs and 3 points 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 612 points were accrued by departments for the 2011-2012 allocation year, a slight increase over the 595 point total for 2010-2011. A total of 565 points were accrued by departments for the 2012-2013 allocation year. Departmental allocations are presented in Table 1 at the end of this section of the Report.

Izaak Walton Killam Predoctoral Scholarships

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

Renewals

Killam Scholars wishing to renew their Scholarships for the 2011-12 academic year were asked to submit a progress report. Progress reports were reviewed by the Associate Dean, Dr. Pelzer. In total, 35 students submitted progress reports to request renewals, 7 from students in master's programs and 28 from students in doctoral programs. The Associate Dean recommended that all of these scholarships be renewed.

In February 2012, progress reports were received from 34 Killam Scholars wishing to renew their Scholarships for the 2012-13 academic year (5 Level 1, and 29 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 (Eli Diamond, Classics; Fiona Martin, Sociology and Social Anthropology; Malcolm Heywood, Computer Science; Tamara Romanuk, Biology; Penny Corkum, Psychology) and a Level 2 committee (Eileen Denovan-Wright, Pharmacology; Frank Harvey, Political Science; Geoff Loomer, Law; John Baxter, English; Craig Lake, Civil and Resource Engineering). 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 11 and April 16, 2012, chaired by the Associate Dean. In all, 72 nominations were received (29 Level 1 nominations and 43 Level 2 nominations). From the ranked list, 26 new Killam scholarships were offered, eight at Level 1 and eighteen at Level 2.

For comparison, in the competition held in February 2011, 110 nominations were received (34 Level 1 nominations, and 76 Level 2 nominations), and 26 new scholarships were offered (nine Level 1, and seventeen Level 2).

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

Killam Administrator: Danielle Pottie

MacKenzie King Scholarships

These scholarships are intended to provide support for graduates of Canadian universities to pursue study at the graduate level in any discipline at any location (the "open" scholarship) or specifically in the areas

of international or industrial relations in the United Kingdom or the United States (the “traveling” scholarship).

A Committee consisting of Bernard Boudreau and Dieter Pelzer reviewed ten applications for the March 2012 open and traveling scholarship competitions. The Committee recommended that three applications (two open and one traveling) be forwarded to the University of British Columbia for consideration by the MacKenzie King Scholarship Selection Committee.

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

Last year (in the competition held February 2011), four applications (two open and two traveling) were forwarded to the University of British Columbia for consideration by the MacKenzie King Scholarship Selection Committee. Dalhousie students were awarded one traveling and one open scholarship.

Eliza Ritchie Doctoral Scholarship for Women

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

A selection committee consisting of Dr. Bernard Boudreau and Dr. Dieter Pelzer met to review the applications for the March 2012 competition. There was one new award and two renewal scholarships offered.

Last year (in the competition held March 2011), 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 or 2012 as the funds for this award have been committed for 2012 - 2013.

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 2011, Dalhousie University received four new applications and one renewal applications. Two new and two renewal scholarships were awarded. Dr. Dieter Pelzer (Associate Dean, FGS), Dr. Brian Noble (SOSA), and Dr. Kevin Hewitt (Physics and Atmospheric Science) reviewed the applications for the May 2011 competition.

The next competition deadline is May 15, 2012.

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 2011, Dalhousie University received 24 new applications. One award was made. Dr. Dieter Pelzer (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 2011, Dalhousie University received 4 new applications. One new scholarship was awarded. Dr. Dieter Pelzer 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 April 2012, Dalhousie University received 6 new applications. One prize was awarded. Dr. Bernard Boudreau and Dr. Dieter Pelzer reviewed the applications.

The Vitamin Scholarship

The Vitamin Scholarship was enabled by an endowment created by the settlement of a court case, in which the companies involved agreed to allocate resources to vitamin research in Canadian universities. The Vitamin Scholarship was established for activities related to vitamin products such as food and nutritional research or education, food related programs, and/or consumer services or consumer protection activities. This scholarship is for one year at the 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), and Kregg Hetherington (SOSA). The SSHRC CGS Master's award committee consisted of Kathryn Morris (King's College), Steven Baur (Music), Maria Jose Gimenez (Spanish), and Wayne Hankey (Classics). Both committees were chaired by Dieter Pelzer.

A total of 27 applications for SSHRC doctoral scholarships were reviewed by each member of the Committee prior to its meeting. Individual rankings were submitted to the FGS office where they were collated and distributed to members at a meeting held on December 21, 2011. The initial rank-ordered list was discussed and two final, alphabetical lists – an “A” list consisting of applicants ranked in the top 22 positions, and a “B” list comprising all the rest – were prepared and sent forward. Dalhousie was awarded eight CGS-D scholarships and four SSHRC doctoral scholarships. Last year, six CGS-D scholarships and three SSHRC doctoral scholarships were awarded.

For the Master's competition, much the same procedure was followed. The Committee met on January 25, 2012, to consider 45 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. The competition results were not available at the time of this report.

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), Josef Zwanziger (Chemistry) and is chaired by Dieter Pelzer.

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 2012, the Committee considered 6 files for new awards and two files for renewal. Committee members ranked the applications prior to meeting. The ranked lists from each member were collated by FGS. The files were forwarded to the Foundation. At the time of this report, final results of this competition were not received from the Sumner Foundation. In last year's competition (2011-12), Dalhousie was awarded two new Fellowships and one renewal.

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 Andrew Rau-Chaplin (Computer Science), Leslie Phillmore (Psychology), Laura Turculet (Chemistry), and Stanimir Bonev (Physics). The NSERC Master's Committee consisted of Tetjana Ross (Oceanography), Sophia Stone (Biology), and Rob Jamieson (Civil Engineering), and Evgeny Pavlov (Physiology and Biophysics). Both committees were chaired by Dieter Pelzer.

Each Committee member read and rated all the applications allocated to that committee (58 applications allocated to the PGS-M committee, 59 applications allocated to the PGS-D committee) before the final meetings, held on November 16th and 17th, 2011, at which ranked lists to be forwarded to NSERC were produced. A total of 88 applications (41 Master's, 47 Doctoral) were recommended for consideration of NSERC scholarships in the 2011 competition. Thirty-eight scholarships were awarded by NSERC, 3 PGS-M, 14 PGS-D, 16 CGS-M, and 5 CGS-D. All three PGS-M scholarships were Julie Payette awards.

Last year, 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, 15 PGS-D, 23 CGS-M, and 4 CGS-D. Two out of the three PGS-M scholarships were Julie Payette awards.

The NSERC Industrial Postgraduate Scholarship (IPS) program is relatively small in comparison to the PGS and CGS programs, but IPS applications from Dalhousie students have had a very high success rate and have allowed for the building of valuable linkages between university researchers and local or national companies. The value of these awards is \$21,000/year for 1, 2 or 3 years, including \$15,000 from

NSERC and a minimum of \$6,000 from the industrial sponsor. Students apply individually for IPS awards, and need to have established an agreement with an industrial sponsor of their project. Part-time students are eligible for NSERC IPS awards. In addition, NSERC requires well-defined contractual and IP agreements between the student, supervisor(s), university, and the participating company. This requires a close coordination between the student and academic supervisor, the cooperating industrial organization, and FGS. Currently in the 2011-12 academic year Dalhousie has eight active NSERC IPS award. 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 Jakeman (Health and Human Performance), and was chaired by Dieter Pelzer (Associate Dean, FGS). Committee members ranked 24 applications, and then met on January 27, 2012 to finalize the list. Of these, eight applicants were sent forward to CIHR for consideration for awards. The results were not known at the time of this report. In 2011, 5 applications were forwarded to CIHR for consideration and Dalhousie was successful in securing 4 scholarships.

FGS is not involved in coordinating the CIHR doctoral competition. There were 12 applications sent to CIHR from Dalhousie students for the October 2011 competition. One CGS D award was offered to a Dalhousie student.

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

Peer review selection criteria:

- Academic excellence, as demonstrated by past academic results and by transcripts, awards and distinctions.

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

The SSHRC Vanier nomination committee consisted of Dieter Pelzer (Associate Dean, FGS), Shirley Tilloston (History) and Frank Harvey (Political Science). FGS received three applications and one application was forwarded on to SSHRC. The application was successful.

The NSERC Vanier nomination committee consisted of Dieter Pelzer (Associate Dean, FGS), Sina Adl (Associate Dean, Faculty of Science), and Amyl Ghanem (Biomedical Engineering). FGS received 12 applications and four were forwarded on to NSERC. Dalhousie was not successful in receiving any NSERC Vanier CGS scholarships.

The CIHR Vanier nomination committee consisted of Dieter Pelzer (Associate Dean, FGS), Anita Unruh (Acting Associate Dean, Health Professions) and Christopher MacMaster (Assistant Dean, Medicine). FGS received two applications and one was forwarded on to CIHR. Dalhousie was not successful in receiving a CIHR Vanier CGS scholarship.

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. Bernard Boudreau, and Dr. Robert Summerby-Murray, nominated two students in the 2012 Trudeau Foundation Doctoral Scholarship competition. The results were not known at the time of this report.

In the 2011 competition, Dalhousie nominated three students for a Trudeau Scholarship. One 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 2011, Dalhousie submitted one application for SSHRC CGS-MSFSS, and that applicant was successful. The applications were reviewed by Dieter Pelzer (Associate Dean, FGS).

In October 2011, Dalhousie submitted one application for NSERC CGS-MSFSS, and one application for SSHRC CGS-M MSFSS. Both applications were successful. The applications were reviewed by Dieter Pelzer (Associate Dean, FGS).

9. Nova Scotia Health Research Foundation (NSHRF)

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

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

The first Scotia Scholarship competition was held in the Fall of 2011. This competition was available to Master's students only. Dalhousie received 17 applications in the Health Medical Research (MED) category and 7 applications in the Health Public Policy Research, Health Outcomes Research and Health Services Research (PSO) category. Dalhousie had a quota of 5 applications in each of the categories and received all 10 scholarships.

The second Scotia Scholarship competition was held in April 2012. This competition included Doctoral and Master's competitions. Dalhousie received 26 applications in the Master's MED category and 17 applications in the Master's PSO category. We received 29 applications in the Doctoral MED category and 10 applications in the Doctoral PSO competition. Dalhousie had a quota of 5 in the Master's MED category, 5 in the Master's PSO category, 15 in the Doctoral MED category and 9 in the Doctoral PSO category. NSHRF will allow universities to trade a quota in one category for another category if they do not have enough eligible candidates. Dalhousie decided to trade 2 Doctoral PSO quota spots for 4 Master's PSO quota spots. We were also able to submit 4 applications as an alternative list. Two of these candidates came from the Doctoral MED category and two came from the Master's PSO category. The results of this competition were not known at the time of this report.

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

- Support additional training opportunities within vibrant and productive research programs;

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

The applications for the 2012 NSHRF competition were reviewed by Robert Rose (Physiology and Biophysics), Sara Kirk (Health and Human Performance), Paddy McMullen (Psychology), and Simon Sherry (Psychology).

10. 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 on behalf of 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 on behalf of Faculty Council of FGS. Name changes and proposals to suspend/terminate a program also require approval by SAPBC/Senate (SCAA in case of name changes), the Board, MPHEC, and AACHHR (if it meets the criteria of a health or health-related program).

In 2011-2012 the following new program proposals and program modifications were reviewed in FGS.

New programs:

- Master of Genetic Counselling. Approved by FGS, awaiting approval by SAPBC, Senate and MPHEC
- Graduate Certificate in Translational NeuroTechnology

New program proposals (at various stages of review):

- Master of Healthcare Management (approved by FGS, awaiting approval by SAPRC)

Major program modifications:

- Non-thesis stream in Department of French (awaiting review)

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

- Master of Resource and Environmental Studies. Senate and the Registrar's Office notified.
- Master and PhD in English. Senate and the Registrar's Office notified.
- Master of Computer Science. Senate and the Registrar's Office notified.
- Master of Social Work. Senate and the Registrar's Office notified.
- Master of Computational Biology and Bioinformatics. Senate and the Registrar's Office notified.
- MBA (Financial Services) two submissions. Senate and the Registrar's Office notified.
- MSc/PhD Medical Sciences, Senate and Registrar's Office notified.
- Master in Pharmaceutical Sciences. Senate and Registrar's Office notified.
- Master in Public Administration (M). Senate and Registrar's Office notified.
- Master in Human Communication Disorders. Senate and Registrar's Office notified.
- Corporate Residency MBA. Senate and Registrar's Office notified.
- Master and PhD in Biomedical Engineering. Senate and Registrar's Office notified.
- Master of Architecture. Senate and Registrar's Office notified.
- Master of Planning. Senate and Registrar's Office notified.
- Master of Rehabilitation Research. Senate and Registrar's Office notified.
- Combined LLB (now JD) combined degrees. Senate and Registrar's Office notified.
- Program name change
 - Medical Sciences Graduate Program to Clinician Scientist Graduate Program
- Master of Periodontics – under APCC review
- Master of Public Administration. Under APCC review

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 Arts in Psychology. Approved by FGS, Senate, the Board and MPHEC.
- Termination of Master of Applied Health Services Research. Approved by FGS, Senate, the Board and MPHEC.

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

Reviews for the following graduate programs have been completed since April 2011:

- Department of Biology (joint with Faculty of Science): MSc and PhD programs
- Department of English (joint with Faculty of Arts and Social Sciences): MA and PhD programs
- Faculty of Computer Science graduate programs: MCS, MACSc, MHI, MEC, MSc Computational Biology and PhD
- Department of Physiology and Biophysics (joint with Faculty of Medicine): MSc and PhD programs
- Department of French (joint with Faculty of Arts and Social Sciences): MA and PhD programs
- Department of Biochemistry and Molecular Biology (joint with Faculty of Medicine): MSc and PhD programs

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

- Department of Earth Sciences (joint with Faculty of Science): MSc and PhD programs.
- Department of Mathematics and Statistics (joint with Faculty of Science): MSc and PhD programs, (ready for FGS)
- Department of International Development Studies (joint with Faculty of Arts and Social Sciences): MA program (ready for FGS)
- Anatomy and Neurobiology (joint with Faculty of Medicine) (ready for FGS)
- Department of Psychology (joint with Faculty of Science) (ready for FGS)

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.

11. 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 2011 and April 2012, APCC considered and approved the following:

New Classes.....	42
Cross Listings.....	11
Minor Changes*	21
Removals.....	29

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

12. Postdoctoral Fellows—General

Currently there are 154 postdoctoral fellows (PDFs) at Dalhousie. Please note there are also 7 IWK PDFs.

The much debated policy mandating minimum stipends for PDFs across the university has been changed into a best practice recommendation, which is, and has been, adhered to in an exemplary fashion (see table below).

Starting Stipends for New Postdoctoral Fellows

	2009	2010	2011	2012
New Postdoctoral Fellows	52	47	59	24
Average Stipend	41,106	42,598	42,340	42,000
Minimum Stipend	30,000	31,475	26,500	35,000
Minimum Stipend Earners	1	1	1	1
Stipend Earners < 35,000	2	3	5	0
Maximum Stipend	55,000	73,224	75,000	60,000
Maximum Stipend Earners	1	1	1	2

On September 23, 2011, Dalhousie celebrated its second Postdoc Appreciation Day. The event had 62 postdoc RSVPs, and featured a buffet for the postdocs, their families and their supervisors at the University Club, for a total of 142 guests. A live band played for entertainment during the meal. Door prizes were provided for the postdocs, including a selection of gift cards. FGS wishes to thank the Faculty of Science and the Faculty of Medicine for co-sponsoring this event.

13. 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), Derek Reilly (Computer Science), Angelo Iulianella (Anatomy), Frank Harvey (Political Science). The committee was chaired by Dieter Pelzer (Associate Dean, FGS).

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

Killam Administrator: Danielle Pottie

A total of 37 applications were put forward by 26 departments for this year's competition: 12 from women and 25 from men, together representing 12 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 was held on March 1, 2012. 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.

Two of the initial offers were accepted (Douglas Staple, Physics and Jeremy Schmidt, Political Science) and we were then able to make an additional offer to wait-listed candidates - Helen Dewar (History), which was declined and Jason Mintz (Earth Sciences) which was accepted.

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

Killam Postdoctoral Fellowship Distribution by Discipline

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

14. Banting Postdoctoral Fellowships

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

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

Committee membership: John Newhook (Associate VP, Research), Dieter Pelzer (Associate Dean, FGS) and Bernard Boudreau (Dean, FGS). The committee was chaired by Dieter Pelzer (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 six applications would be nominated by the University. Dalhousie was successful in receiving one Banting Postdoctoral Fellowship through the IWK.

15. Theses and Defences

Masters and doctoral theses for all programs are format checked by FGS and the home unit, and are accepted by FGS. From the period of May 1, 2011 to April 30, 2012, FGS accepted 308 masters theses and 96 doctoral theses. All thesis submissions are now made electronically via Dalspace (the university repository). Two theses, that were successfully defended have not been submitted to date.

Doctoral defences for all programs are organized through the Faculty of Graduate Studies, which is responsible for formally inviting the external examiner and arranging for a venue and a chairperson for the examination. From May 1, 2011 until April 30, 2012 there were 98 PhD oral defences conducted. This number may be compared to the 94 defences held over a similar period in the previous year, and 110 defences held in the year before that.

Since opening, the Coburg Board Room, an excellently-equipped home for PhD oral defences, has been used for 130 PhD oral 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 defences comes at traditionally inconvenient times, such as during July and August, or immediately before the end of term.

PhD Defences - May 1, 2011- April 30, 2012

Department	# of defences	# of Chairs from Dept	Name of Chair
Anatomy & Neurobiology	1	5	Dr. Currie (1), Dr. Rutherford (1), Dr. Semba (2), Dr. Leslie (1)
Architecture & Planning			
Biochemistry	7	8	Dr. Byers (2), Dr. Singer (1), Dr. Archibald (2), Dr. Wallace (1), Dr. Bearne (2)
Biology	12	6	Dr. Leonard (1), Dr. Adl (1), Dr. Lee (1), Dr. Whitehead (2), Dr. MacRae (1)
Biomedical Engineering	1	2	Dr. Wells (1), Dr. Maksym (1)
Business Admin		2	Dr. Hebb (2)
Chemistry	8	7	Dr. White (1), Dr. Doucette (2), Dr. Burnell (2), Dr. Zwanziger (2)
Civil Engineering	3		
Classics		1	Dr. Hankey (1)
Computer Science	2	7	Dr. Trappenberg (1), Dr. Heywood (3), Dr. Shepherd (2), Dr. Zincir-Heywood (1)
Earth Sciences	1	5	Dr. Jamieson (2), Dr. Gibling (2), Dr. Scott (1)
Economics			
Electrical Engineering	2	1	Dr. Chen (1)
Engineering Math	2		
English	3	3	Dr. Baxter (1), Dr. Furrow (1), Dr. Diepeveen (1)
French	1		
H & HP		3	Dr. Unruh (1), Dr. Westwood (2)
History		2	Dr. Bannister (2)
ID PhD	10		
Industrial Engineering		1	Dr. Pelot (1)
Law	1	3	Dr. Coughlan (2), Dr. Devlin (1)
Library Sciences		1	Dr. MacDonald (1)
Math & Stats	5	4	Dr. Dilcher (2), Dr. Janssen (2)
Mechanical Engineering	2	3	Dr. Bauer (2), Dr. Warkentin (1)
Medical Sciences			
Microbiology & Immunology	8	3	Dr. Hoskins (2), Dr. Garduno (1)
Nursing	1		
Oceanography	3	7	Dr. Metaxas (4), Dr. Kelley (2), Dr. Lewis (1)
Pathology	1	1	Dr. Greer (1)
Pharmacology	5	2	Dr. Denovan-Wright (2)
Philosophy	3	1	Dr. Sherwin (1)
Physics	4	3	Dr. Dunlop (2), Dr. Labrie (1)
Physiology & Biophysics	1	3	Dr. Cowley (2), Dr. Chappe (1)
Political Science	3	1	Dr. Black (1)
Process Engineering	1	5	Dr. Speers (1), Dr. Amyotte (1), Dr. Pegg (1), Dr. Yuet (1), Dr. Kipouros (1)
Psychology	7	3	Dr. Klein (2), Dr. Stewart (1)
Resource & Environmental Studies		3	Dr. Duinker (2), Dr. Tyedmers (1)

PhD Defences - May 1, 2011- April 30, 2012

Department	# of defences	# of Chairs from Dept	Name of Chair
Social Work			
Sociology		1	Dr. Apostle (1)
Theatre		1	Dr. Gantar (1)
TOTAL	98	98	

16. Interdisciplinary PhD Program

The Interdisciplinary PhD (ID PhD) program at Dalhousie provides an opportunity for well-qualified students to undertake doctoral studies that transcend traditional disciplinary boundaries by integrating the knowledge bases, approaches, perspectives and insights of discrete academic areas. Begun at Dalhousie in 1984, this program 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.

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, Acting Director 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 years to articulate and develop strategic planning goals for the program. The members of the Advisory Committee include: Drs. Marina Pluzhenskaya, Acting Director 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: ID PhD student representatives Jennifer Baechler and Matthew Numer.

The committee has met repeatedly during the 2011-2012 academic 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. In 2012, the new admissions procedures were tested and recommendation were made towards their improvement. Also final feedback on the Operations Manual was solicited in order to prepare its final version.

The program continued to strengthen its presence on campus by promoting the topic of interdisciplinarity. In March 2012, it supported a visit to Dalhousie of one of the major figures in the field of interdisciplinary research, internationally renowned Dr. Julie Thompson Klein. Dr. Klein gave a lecture on the nature of interdisciplinarity and integration, and conducted two workshops for the students and faculty of Dalhousie University.

The ID PhD Administrative Group has been developing a comprehensive database of the students enrolled in the program. This resource will allow for the analysis of trends and patterns in students' performance in the program that will guide future strategic decisions. In 2012, contacts have been established with the Social Media Lab at the School of Information Management. The Lab will assist the ID PhD program in conducting a survey that will identify all disciplines of all the research projects in the program. The results of this survey and the comprehensive database will be the basis for a Self-Study Document that will be prepared by the program's Acting Director Dr. Pluzhenskaya for a full FGS review of the program in 2012-13. The review will be conducted by the program's new Director Dr. Bill Barker. Additionally, the web presence of the program is being fully updated and the program's new web site is prepared to be transferred from a test server to a live one.

14 ID PhD students hold scholarships (totaling \$388,000.00) from various funding agencies, including the Tri-Council Agencies.

Graduates:

In the period of this report, we celebrated 11 successful oral defenses of ID PhD theses.

- **Sharon Batt:** *From Grass Roots to Pharma Partnerships; Breast Cancer Advocacy in Canada*
- **Federica Belluccini:** *"A Much Milder Medium": English and German Women Writers in Italy 1840-1880*
- **Margaret Clow Bohan:** *"They Come in Wearing Their Rank": The Dynamics of an Inter-professional Proposal Writing Team*
- **Paula A. Forgeron:** *My Friends Don't Really Understand Me: Examining Close Friendships of Adolescents with Chronic Pain*
- **Molly den Heyer:** *The Reshaping of Aid Effectiveness Policies in the International, Canadian, and Tanzanian Contexts*
- **Richard Levesque:** *A Latent Growth Curve Analysis of Neighbourhood and Family Influences on Canadian Children's Prosocial Behaviour Development Trajectories*
- **Susan J. McWilliam:** *An Investigation Into the Development and Content of HIV Prevention and Harm Reduction Policies in Nova Scotia: Do They Address the Needs of Women Who Inject Drugs?*
- **Genevieve Mirelle Perron:** *"Organizational Community Characteristics and Barriers to Environmental Management: Addressing the Role of Communities of Practice, Language, and Mental Models in Organizational Change"*
- **David Cecil Roach:** *Product Management as Firm Capability*
- **Tara Sampalli:** *Development and Evaluation of Boundary Objects in the Heterogeneous Domain of Complex Chronic Conditions*
- **Mikiko Terashima:** *Geographical Epidemiology of Health and Deprivation: a Population-Based, Spatio-Temporal Analysis of Health and Social Inequality in Nova Scotia, Canada*

17. Academic Integrity

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

Between May 1, 2011 and April 30, 2012, Associate Dean Pelzer, who is the AIO of the Faculty of Graduate Studies, received seven allegations of academic misconduct. Upon receipt of the materials from the instructors, the AIO initially determined whether or not the materials in each case supported a prima facie case that the student had committed an academic offence. In one of the seven cases, no prima facie case could be made; no further steps were taken in relation to the allegation, and the instructor and student were so advised in writing.

Six of the seven allegations proceeded to AIO meetings with the students and the students' advisors within five working days of receipt of the allegations by the students, one on multiple charges. Following the meetings, the AIO in each of the six cases made the assessment that there was sufficient evidence to support the finding that the student had committed an academic offence. The AIO then made an assessment of what penalty would be appropriate in the circumstances. In making the latter assessment, the AIO exercised broad discretion in considering possible mitigating circumstances including but not limited to extraordinary personal circumstances and lack of educational experience. Subsequently, the AIO provided each student with the option of accepting the finding and the proposed penalty, or of proceeding to the Senate Discipline Committee for a full hearing. The option was presented to each student within five working days of the meeting, and the student had two working days to respond. In three cases, the students elected to accept the finding and proposed penalty and the AIO transferred these cases to Senate for ratification. In the other three cases, the AIO, within 5 working days of the meeting, notified the students in writing, with a copy to the instructors, indicating the matter will be forwarded to the Senate Discipline Committee for a full hearing, because the level of penalty was at issue.

Acknowledgements

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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 9 May 2012

Table 1: Departmental Allocations

Faculty	2009 Allocation (Sept 09 – Aug 10)	2010 Allocation (Sept 10 – Aug 11)	2011 Allocation (Sept 11 – Aug 12)	2012 Allocation (Sept 12 – Aug 13)
ARCHITECTURE				
Architecture	\$44,219	\$44,975	\$48,230	\$58,084
Planning	\$32,064	\$22,500	\$17,000	\$17,000
TOTAL ARCHITECTURE	\$76,283	\$67,475	\$65,230	\$75,084
COMPUTER SCIENCE				
Computer Science	\$188,270	\$190,616	\$185,568	\$206,954
TOTAL COMPUTER SCIENCE	\$188,270	\$190,616	\$185,568	\$206,954
ENGINEERING				
Civil Engineering	\$87,776	\$75,020	\$96,766	\$98,413
Electrical Engineering	\$63,261	\$57,008	\$71,331	\$91,045
Environmental Engineering	\$2,899	\$5,518	\$4,414	\$3,531
Engineering Mathematics	\$12,395	\$26,915	\$13,625	\$13,115
Industrial Engineering	\$18,106	\$14,484	\$14,037	\$20,230
Mechanical Engineering	\$51,252	\$52,202	\$47,887	\$45,810
Petroleum Engineering		\$15,000	\$6,900	\$6,725
Process Engineering & Applied Science	\$52,733	\$72,586	\$66,644	\$77,315
Mining Engineering	\$2,812	\$2,249		
TOTAL ENGINEERING	\$291,234	\$320,982	\$321,604	\$356,184
FASS				
Classics	\$31,095	\$29,675	\$33,540	\$31,332
English	\$159,795	\$159,835	\$149,918	\$143,934
French	\$27,210	\$31,368	\$25,094	\$31,575
German	\$27,762	\$28,610	\$25,338	\$27,770
History	\$76,001	\$73,600	\$71,130	\$68,904
International Development Studies	\$54,188	\$52,950	\$50,935	\$51,248
Philosophy	\$69,492	\$71,594	\$65,850	\$55,680
Political Science	\$63,088	\$76,070	\$71,881	\$68,005
Sociology & Social Anthropology	\$80,154	\$86,523	\$85,143	\$89,114
Musicology	\$4,000	\$3,200	\$8,685	\$8,448
TOTAL FASS	\$592,785	\$613,425	\$587,514	\$576,010
HEALTH PROFESSIONS				
Clinical Vision Science	\$7,462	\$9,169	\$8,560	\$11,348
Health & Human Performance	\$52,243	\$44,994	\$47,020	\$52,616
Health Services Administration	\$34,149	\$35,000	\$12,200	\$22,775
Human Communication Disorders	\$92,652	\$94,600	\$57,700	\$83,300
Nursing	\$30,381	\$25,800	\$23,875	\$27,975
Occupational Therapy	\$43,365	\$60,000	\$29,425	\$54,880
Pharmaceutical Science			\$4,000	\$4,700
Physiotherapy	\$65,903	\$86,000	\$47,050	\$64,350
Social Work	\$27,477	\$33,000	\$17,350	\$13,625
TOTAL HEALTH PROFESSIONS	\$353,632	\$388,563	\$247,180	\$335,569
LAW				
Law	\$73,679	\$75,800	\$52,150	\$41,030
TOTAL LAW	\$73,679	\$75,800	\$52,150	\$41,030

Faculty	2009 Allocation (Sept 09 – Aug 10)	2010 Allocation (Sept 10 – Aug 11)	2011 Allocation (Sept 11 – Aug 12)	2012 Allocation (Sept 12 – Aug 13)
MANAGEMENT				
Business Administration	\$86,552	\$30,000		
Resource and Environmental Studies	\$66,310	\$78,600	\$40,300	\$46,445
Information Management	\$73,195	\$44,000	\$33,000	\$32,650
Marine Management	\$25,500	\$11,000	\$14,850	\$22,075
Public Administration	\$42,188	\$42,500	\$17,000	\$18,825
TOTAL MANAGEMENT	\$293,745	\$206,100	\$105,150	\$119,995
MEDICINE				
Anatomy & Neurobiology	\$55,050	\$53,640	\$46,587	\$41,770
Biochemistry	\$61,285	\$61,827	\$72,737	\$71,690
Community Health & Epidemiology	\$31,948	\$36,758	\$36,756	\$39,905
Microbiology & Immunology	\$95,549	\$102,039	\$108,581	\$95,865
Pathology	\$23,451	\$18,760	\$26,033	\$25,326
Pharmacology	\$60,918	\$56,734	\$58,862	\$59,090
Physiology & Biophysics	\$24,818	\$29,454	\$32,138	\$31,711
TOTAL MEDICINE	\$353,019	\$359,212	\$381,694	\$365,357
SCIENCE				
Biology	\$241,821	\$241,457	\$216,441	\$191,153
Chemistry	\$162,770	\$163,816	\$156,778	\$156,937
Earth Sciences	\$53,329	\$58,662	\$56,730	\$51,384
Economics	\$33,761	\$47,809	\$57,847	\$61,278
Mathematics	\$79,784	\$70,226	\$73,331	\$88,665
Oceanography	\$67,568	\$58,854	\$54,433	\$61,546
Physics	\$99,600	\$116,480	\$125,034	\$125,527
Psychology	\$187,937	\$193,549	\$181,789	\$184,431
Statistics	\$25,185	\$26,548	\$23,688	\$32,450
TOTAL SCIENCE	\$951,755	\$977,401	\$946,071	\$953,371
MULTIFACULTY/FGS				
Biomedical Engineering	\$38,739	\$43,790	\$69,332	\$65,966
Electronic Commerce	\$14,510	\$25,000	\$7,400	\$10,925
Health Informatics	\$7,285	\$9,000	\$11,000	\$10,925
Interdisciplinary PhD	\$140,377	\$165,101	\$154,131	\$145,805
TOTAL MULTIFACULTY/FGS	\$200,911	\$242,891	\$241,863	\$233,621
Total	\$3,375,311	\$3,442,465	\$3,134,024	\$3,263,175

FGS Student Research Grant & Conference Travel Funding

FGS grants are awarded to support, or support in part, research and conference travel for students who do not have other sources of support for these important aspects of their graduate program. Both grants are available only to full-time students in thesis programs. In past years, research grants were awarded only in SSHRC-based disciplines. This is no longer the case since the award is now based on need and absence of other forms of support. Note however 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, two years ago FGS reduced the amount of the research and travel grant funding during the course of the year. Fortunately we were able to increase it again marginally to \$400. 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.

FGS Research Grant and Conference Travel Grant funding summary¹

	2007-08		2008-09		2009-10		2010-11		2011-12	
	Awards	\$ Total	Awards	\$ Total	Awards	\$ Total	Awards	Awards	Awards	\$ Total
Conference travel grants	180	127,570	140	100,432	165	119,658	149	81,616	156	59,273
Research grants	67	37,630	48	37,394	31	25,446	20	14,671	5	1,046
Total		165,200		137,826		145,104		96,287		60,319

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

Final Report on the 2011 Dalhousie University Killam Lectures: “Visualizing Information: finding knowledge in massive data”

Theme

Police detectives, scientists, car buyers, students. In the emerging Information Age, these groups are just some of those who'll be faced with seemingly endless amount of data that they'll be required to interpret for decisions. One of the most important challenges they all face is how to best use information that is acquired, computed and stored by modern information systems. While the wealth of data provides opportunity and potential for progress, it also comes with the risk of losing the users in irrelevant and inappropriate information – known as information overload. The subject of the 2011 Dorothy J. Killam Memorial Lecture Series was the research that is working to turn the use of this data, or information overload, into opportunity through the emerging research discipline of visual analytics. Presented by the Faculty of Computer Science, this year's lecture series, entitled *Visualizing Information: Finding knowledge in massive data*, featured experts Daniel A. Keim and John Stasko.

The Lectures

Visual Problem Solving: How humans and computers cooperate best

Daniel A. Keim

Date: Friday October 28, 7:00pm

Place: Scotiabank Auditorium, McCain Building

Abstract

One of the most important challenges of the emerging Information Age is to effectively utilize the immense wealth of data and information acquired, computed and stored by modern information systems. On the one hand, the intelligent use of available data volumes offers a great potential to realize technological progress and business success. On the other hand, there exists the severe danger that users get lost in irrelevant or inappropriately processed and presented information, a problem, which is generally called 'information overload'.

Visual Analytics is an emerging research discipline which tries to develop technologies which appropriately combine the strengths of intelligent automatic data analysis with the visual perception and analysis capabilities of the human user. In this talk, Daniel Keim presented visual approaches to problem solving and discussed the challenges of this approach. A diverse set of applications ranging from web content analysis over internet security to financial analysis were used to exemplify ideas for visual problem solving.

Bio

Daniel A. Keim is a full professor and head of the Information Visualization and Data Analysis Research Group at the University of Konstanz, Germany. He has been actively involved in information visualization and data analysis research for about 20 years and developed a number of novel visual analysis techniques

for very large data sets with applications to a wide range of application areas including financial analysis, network analysis, geo-spatial analysis, as well as text and multimedia analysis. His research resulted in two recent books "Solving problems with Visual Analytics" and "Interactive Data Visualization" both which he co-authored.

Dr. Keim has been program co-chair of the IEEE InfoVis and IEEE VAST symposia as well as the SIGKDD conference, and he is member of the IEEE InfoVis, IEEE VAST, and EG/IEEE EuroVis steering committees. He is an associate editor of Palgrave's Information Visualization Journal (since 2001) and the Knowledge and Information System Journal (since 2006), and has been an associate editor of the IEEE Transactions on Visualization and Computer Graphics (1999 – 2004) and the IEEE Transactions on Knowledge and Data Engineering (2002 – 2007). He is coordinator of the German Strategic Research Initiative (SPP) on Scalable Visual Analytics and the scientific coordinator of the EU Coordination Action on Visual Analytics called VisMaster.

Dr. Keim got his Ph.D. and habilitation degrees in computer science from the University of Munich. Before joining the University of Konstanz, Dr. Keim was associate professor at the University of Halle, Germany and Technology Consultant at AT&T Shannon Research Labs, NJ, USA.

Visual Analytics for Investigative Analysis and Exploration of Documents and Data

John Stasko

Date: Monday November 14, 7:00pm

Place: Ondaatje Hall, McCain Building

Abstract

Whether investigators are fighting crime, curing diseases, deciding what car to buy, or researching a new field, inevitably they will encounter text documents. Unfortunately, plain (unstructured) text documents are difficult to analyze and understand, especially large collections of documents. The new field of visual analytics holds promise for helping investigators with such problems. Visual analytics combines computational data analysis with interactive visualization in the context of understanding how people think and reason. It can be particularly effective in situations when the data is large and unfamiliar, and the analyst must browse and explore to learn about a situation or domain. In this talk Dr. Stasko described principles from the field, illustrating how visualizations help people make sense of data. Additionally, he introduced the Jigsaw visual analytics system that helps investigators explore and understand collections of unstructured and semi-structured text documents. In essence, Jigsaw helps investigators "put the pieces together" and gain a deeper understanding of the contents of the documents. The system pairs computational text analysis with a collection of visualizations that each portray different aspects of the documents, including connections between entities.

Bio

John Stasko is a Professor in and the Associate Chair of the School of Interactive Computing at the Georgia Institute of Technology. He joined the faculty there in 1989 after receiving his Ph.D. in computer science from Brown University. Stasko directs the Information Interfaces Research Group (<http://www.cc.gatech.edu/gvu/ii>) and is an internationally recognized researcher in the area of human-computer interaction, with a specific focus on information visualization and visual analytics. His research group develops ways to help people and organizations explore, analyze, understand, and make sense of data in order to solve problems.

Dr. Stasko has been Program Co-Chair for the 2005 and 2006 IEEE Information Visualization (InfoVis) Conferences, the 2009 IEEE Visual Analytics Science and Technology (VAST) Symposium, the 2003 ACM Symposium on Software Visualization (SoftVis), and the 2000 IEEE International Symposium on Visual Languages. He presently is or formerly has been on the editorial board of the journals ACM Transactions on Computer-Human Interaction, IEEE Transactions on Visualization and Computer Graphics, International Journal of Human-Computer Studies, Journal of Visual Languages and Computing, and Information Visualization. Stasko presently serves on the Steering Committee for the IEEE Information Visualization Conference and the ACM Symposium on Software Visualization.

Event Details

Each lecture attracted an audience of about 100 people; they were publicized through the following activities:

- Story in Dal News
- Notice Digest
- Dalhousie Facebook and Twitter
- Direct email to faculty in relevant fields
- Digital signs across campus
- Posters across campus
- Posters distributed across Halifax
- Postcards for FCS faculty to give to their associates.
- FCS website
- Hot button link on Dalhousie homepage
- Advertisements in the Chronicle Herald and the Metro Newspapers
- Press releases to the Media in the week before each event

A wine and cheese reception was organized to follow each lecture, and was held in the lobby outside the lecture halls. This enabled informal discussion between students, faculty, the general public and the lecturer. Unfortunately the Dalhousie wine service did not appear as booked for the second lecture, but it did not seem to dampen the interaction at the reception.

Each of the lecturers also presented a more focused research seminar in the Faculty of Computer Science which were each attended by 30-40 students, faculty and interested outsiders.

The Killam trusts were represented in the introductory remarks for both lectures. For the first event the introduction was given by Dr. Carolyn Watters, Dean of the Faculty of Graduate Studies. For the second event, George Cooper, Chair of the Killam trusts delivered the introduction.

Context

The theme of visual analytics represents a growing research area in the Faculty of Computer Science and, indeed, across the University. The Faculty is involved in large scale projects in this area, funded by Boeing; a relationship with the Vancouver Institute of Visual Analytics is developing with discussions on developing a similar institute at Dalhousie; and the Faculty of Computer Science has recently advertised for a Canada Research Chair Tier I position in this field. Hosting the autumn Killam Lectures provided an important focus to this growing area of interest.

Committee

Michael Shepherd, Dean, Faculty of Computer Science
Evangelos Milios, Associate Dean – Research, Faculty of Computer Science

Academic Appeals Committee Annual Report 2011-2012

Membership 2011-2012

Name	Department	Term End
Susan Heaslip	DAGS Rep	2012
Sina Adl	Biology	2013
Richard Nason	Business Administration	2013
Richard Singer	Biochemistry & Molecular Biology	2013
Alexander Treiger	Classics	2013
<i>2 vacancies</i>		

Reserve Panel: Members of FGS Faculty Council

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

Since May 2011, the Academic Appeals Committee had seven appeals. Two were returned for hearings at the departmental or line faculty level and are pending submission to FGS. Five appeals 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 9, 2012
Bernard Boudreau, Dean FGS

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