



THE KILLAM TRUSTS

**ANNUAL
REPORT
2003**

*Published by the
Trustees of the Killam Trusts*

THE KILLAM TRUSTS

The Killam Trusts were established in 1965 under the Will of Dorothy Johnston Killam for the benefit of Dalhousie University, Montreal Neurological Institute of McGill University, University of Alberta, The University of Calgary, The University of British Columbia and The Canada Council for the Arts. Mrs. Killam also established similar trusts during her lifetime for the benefit of Dalhousie and the Canada Council.

To date, close to 5,000 scholarships have been awarded to graduate and post-graduate students and faculty.

The Killam Trusts also provide funds for Killam Chairs, salaries for Killam Professors, and general university purposes. The Canada Council, in addition to awarding Killam Fellowships, also awards annually the Killam Prizes in Medicine, Science, Engineering, Social Sciences and Humanities. They are Canada's premier awards in these fields, and to date 68 prizes have been awarded.

In the words of Mrs. Killam's Will:

“My purpose in establishing the Killam Trusts is to help in the building of Canada's future by encouraging advanced study. Thereby I hope, in some measure, to increase the scientific and scholastic attainments of Canadians, to develop and expand the work of Canadian universities, and to promote sympathetic understanding between Canadians and the peoples of other countries.”





Izaak Walton Killam

Born in 1885 at Yarmouth, Nova Scotia.

Died in 1955 at his Quebec fishing lodge.

Izaak Walton Killam was one of Canada's most eminent financiers, rising from paper boy in Yarmouth, Nova Scotia to become head of Royal Securities. Having no children, Mr. Killam and his wife Dorothy Johnston Killam devoted the greater part of their wealth to higher education in Canada.

Notwithstanding his prodigious financial accomplishments, Izaak Walton Killam was a very reserved man who eschewed publicity and was virtually unknown outside a small circle of close acquaintances.



Dorothy Brooks Killam, née Johnston

Born in St. Louis, Missouri in 1899

Died in 1965 at La Leopolda, her villa in France

Unlike her reticent husband, Dorothy Johnston Killam was an extrovert who loved company and people generally. After she and Mr. Killam were married in 1922, they lived in Montreal, the centre of the Killam financial empire.

Mr. Killam died in 1955, and it was left to Mrs. Killam to work out the details of their plan in her Will. When she died in 1965, she left their combined estates to specific educational purposes and institutions, as well as a large gift to The Izaak Walton Killam Hospital for Children in Halifax.

THE KILLAM TRUSTS

2003 ANNUAL REPORT OF THE KILLAM TRUSTEES



It was ten years ago this autumn that the Trustees first published an Annual Report. Our aim was to keep Killam Scholars up-to-date on the work of the six Canadian institutions with Killam programs: The University of British Columbia, University of Alberta, The University of Calgary, The Canada Council for the Arts, Montreal Neurological Institute of McGill University, and Dalhousie University.

Through the Report we also hoped to build up a sense of family among our Killam Scholars.

Finally, we wanted to bring the remarkable story of Izaak Walton Killam and his wife, Dorothy Johnston Killam, to a wider audience – both because it is our duty as Trustees to do so, and also to inspire other wealthy Canadians to make lifetime or testamentary gifts to higher education.

We do hope these Reports are of interest to you, and we welcome your suggestions for improvements. Just send them to Christine Dickinson, our Administrative Officer, whose contact information appears on the outside back cover.



Speaking about communication, last year we asked you to tell us whether you would prefer to receive these Reports by email, rather than by hard copy. Only about 10% said “yes”.

Consequently, we will continue for the foreseeable future to publish the Report in hard copy and mail it out along with the Killam Annual Lectures to our list of well over 5,000. This includes all Killam Scholars past and present, members of all six Killam Committees, and other interested parties such as Members of Parliament.

If you know of individuals or groups who should be on our list, please let us know. Or you might tell them of our website, www.killamtrusts.ca, which posts the Killam Annual Lectures and Trustees' Reports.



We reported last year that weak financial markets had impaired the capital value of the Killam Trusts at all six Killam institutions, to the point where each had undertaken a review of their spending policies. And, as all who read this year's report will surely know, the financial situation has only gotten worse. Although market strength since then has cleared away some of the gloom and there is now some reason for optimism, the future performance of the financial markets remains far from certain.

As a result, the Killam institutions are reluctantly cutting back on the number of new Killam Scholarships and other Killam activities, or are planning to. And most also have under review their long-term levels of payout rates from their endowments. Up to now, most Canadian universities have held that an annual expenditure rate of five percent of market value, plus administrative costs, was sustainable in the long term. Nowadays, however, following the lead of such legendary figures as Warren Buffet – previously known as “the sage of Omaha” and now better known as “the Gubernator’s (Arnold Schwarzenegger’s) fiscal adviser” – four percent is beginning to look more prudent. If implemented, such a

reduction would represent a drop of 20% in funds available for annual spending on Killam programs. This would indeed call for a significant adjustment.

We Trustees are, however, comforted by a couple of mitigating thoughts.

First, we are mindful of the experience of the early 1990's, when the institutions wrestled with the absolute necessity to reduce spending to the current five percent level – often from as much as seven or eight percent, or even more. In all cases, the pain lasted only a few short years, until they reached the “crossover point”: that is, the point where the larger capital sums built up by spending less each year threw off as much income as the higher rates did when applied to the lower capital funds of earlier times. We think the same thing could well happen again.

Second, since those days of cutbacks eight or so years ago governments, especially the federal government, have greatly increased funding for research of all kinds at Canadian universities. So, while the Killam programs could once again come in for some temporary cutbacks, the adverse effect on funding for good research scholars will not be nearly so great now as it was then.



The vast increase in government funds for research has indeed been a tremendous boon to our Canadian universities. In a few short years, we have witnessed at least six new federal programs: the Networks of Centres of Excellence (1989, renewed in 1994 and strengthened in 1997 and 1999); the Canada Foundation for Innovation (CFI) Program (1997); the Canadian Institutes for Health Research (CIHR) Program (1999); the Canada Research Chairs (CRC) Program (1999);

the Millennium Scholarship Fund (1998) and the Trudeau Foundation Scholarships (2003). To this we must add the increased funding amounts for the various granting agencies, especially this year's Canada Graduate Scholarships (CGS) Program, which provides the Natural Sciences and Engineering Research Council (NSERC), the Social Sciences and Humanities Research Council (SSHRC) and CIHR with massive new resources. One can only applaud the farsightedness of the federal government, and in particular Prime Minister Jean Chrétien in this matter. For research, long neglected at the federal level, is indeed the *sine qua non* for any society that seeks a modern economy, an educated populace and a progressive social policy. And yet...

And yet, all these new programs present the Killam institutions with new and difficult choices. The CRCs provide up to \$200,000 a year for Tier I professors: how should the Killam Chairs Programs compete? In addition, up until now the Killam Predoctoral Scholarships, worth about \$25,000 a year, have always been the most valuable and most prestigious scholarships at the four lucky universities where they are tenable; now, the CGSs will provide PhD students with \$35,000 per year for three years. How should Killam react: carry on at the still-respectable level of \$25,000, recognizing that the 2,000 PhD students who will receive CGSs – to say nothing of the Killam Scholars themselves – might come to regard the Killams as no longer the leading award? Or should we instead cut back on the number of Killam Scholarships – already in decline due to shrinking Killam endowments – in order to increase the stipend to (say) \$35,000, just to keep pride of place, monetarily speaking, in the scholarship sweepstakes?

These are difficult questions, but they will have to be taken up head on in the next year or so. Yet they are “good” problems,

arising as they do because of a vastly increased government commitment to higher education and research. This is indeed something the Killam Trustees and institutions have been working for assiduously through the Killam Annual Lecture series, which for the past nine years has sought to bring more public attention and public funding to research at Canadian universities.



Dr. Shirley Tilghman, President of Princeton University, honoured us by giving this year's Killam Annual Lecture. As usual, the Lecture took place on the occasion of the annual conference of the Canadian Association for Graduate Studies (CAGS), held this year in Vancouver.

Dr. Tilghman, the second Canadian in a row to hold the Presidency of Princeton, is a pre-eminent molecular biologist and academic administrator. Dr. Tilghman's topic was "The Challenges of Educating the Next Generation of the Professoriate", and her theme, in a nutshell, was: How do we make scientific research, with its remorseless demands on one's time and energies, more appealing to the young, especially women and minorities? Can we make our academic arrangements more flexible, so as to allow gifted women scholars and researchers to take a full part and still have time left over for family and children?

Dr. Tilghman's Lecture is a real thought-provoker, as you will discover on reading it. As for us Trustees, the thought that it provoked in us was to revisit an old theme: Are the Killam Scholarships awarded equitably as between men and women? Of course the Scholarships are awarded purely on merit, without regard to gender; but what are the actual outcomes?

It turns out that Killam Scholarships awarded in 2003 break down 49% men and 51% women in the four universities with Predoctoral Killam Scholarships: Dal, U of A, U of C and UBC. (We left out the MNI and the Canada Council, as their Killam Awards go to career professors rather than to PhD students.) The last time we took a close look, five years ago, women scholars outnumbered men in two (Dal and UBC), and somewhat surprisingly this was true both in the Sciences (including Mathematics and Engineering) and in the Arts and Social Sciences. When you include all four universities, women scholars made up 53.1% overall, and 47.2% of the scientists.

From these figures we can surely conclude that if the gender makeup of all Canadian graduate students follows the Killam pattern, then women students have now reached approximately equal status with their men counterparts, a transforming development of the past 20 to 30 years. Dr. Tilghman now asks whether we can similarly transform the professoriate. She is surely right to pose the question, and universities – indeed, society as a whole – would surely be right to respond appropriately.



This year's Killam Prize awards ceremony represented something of a departure from past practice. *The Honourable Lois Hole*, Lieutenant Governor of Alberta, graciously presented the Prizes at a glittering awards dinner held last May in Edmonton. Her Honour is a warm-hearted, fun-loving but dignified representative of the Queen, whose keen interest in literacy, libraries and education is wholly in line with the Killam ethos. As in past years, Scotiabank kindly sponsored the dinner, and took out ads in leading newspapers to present the Prize winners to the public.

The Canada Council awards five Killam Prizes each year, worth \$100,000 each; as a group, they are Canada's leading prizes in their fields. You can read about this year's winners in the Canada Council section of this Report.



Three quick updates before turning our attention to each of the six Killam institutions in turn. First, the Trustees will publish next year a new edition of Doug How's biography of Izaak Walton Killam, *A Very Private Person*. It will contain new material on how the Killam Program has worked out in practice since the book was first published in 1976.

Second, Stage 1 of the new Killam website, www.killamtrusts.ca, has been up and running now for a year or more. Stage 2, the password protected areas for use by Killam administrators, has been in use since October 15 of this year. The next and final task is to install data management capability, scheduled for completion by the end of 2003. Killam Scholars please note: we now have a special area for Killam award winners on our web site at www.killamtrusts.ca. One of the features offered is a permanent @killamtrusts.ca email address for all Killam Scholars, past and present. The [killamtrusts.ca](http://www.killamtrusts.ca) email will be forwarded to a current email account, regardless of changes in internet service providers. In addition, it is possible to update personal information online. Instead of only once a year, scholars can inform us of activities and accomplishments at any time. Bookmark our site and let us know immediately of any address changes!

Lastly, we would ask that you please fill out and send in the yellow response form in the centre of this Report; your comments will help us better meet the needs of the "Killam family of scholars" in the years to come.

UNIVERSITY OF ALBERTA

For many years, U of A has been highly innovative in finding new ways to promote the Killam name and to enhance the Killam Program on campus. For example, late last fall the University held a spectacular 35th Anniversary celebration of its Killam Program. The organizers invited Killam alumni and dignitaries from across the country to attend the event, which included a keynote address and reception on the first evening. The second day included a “Killam Breakfast”, followed by poster sessions provided by Killam Predoctoral Scholars and Postdoctoral Fellows. A luncheon, addressed by Ann McCaig, Killam Trustee and Chancellor Emeritus of U of C, closed this highly successful affair.

This spring the University set out on another new project: the conversion of a heritage building on campus to be known as “The Killam Centre for Advanced Studies”. The Trustees toured the site during their fall tour, and a fine building it is, though it does need a lot of refurbishment. The building, dating from 1913, was built to house the Faculty of Engineering; now it will be home to the Faculty of Graduate Studies and Research and the Graduate Students’ Association.

Yet another innovation at U of A are two new awards: the Dorothy J. Killam Memorial Graduate Prizes, and the Killam Award for Excellence in Mentoring. The four prizes, worth \$2,500 each, are given out annually to the most outstanding Killam Scholar in each of four study and research areas: Engineering, Math and Physical Sciences; Life and Health Sciences; Social Sciences, Humanities and Fine Arts; and Education, Physical Education and Professional Programs. (A fifth prize will soon be added, for Postdoctoral Fellows). The mentoring award, worth \$5,000, recognizes outstanding

performance in mentoring students, postdoctoral fellows and visiting research scholars; the 2002 and 2003 winners were *Dr. Diane E. Taylor*, Medical Microbiology and Immunology, and *Dr. John C. Vederas*, Chemistry.

U of A, along with Dalhousie, received a special kind of international recognition this year. *The Scientist* magazine declared, on the basis of feedback from postdoctoral fellows around the world, that these two universities were within the top ten in the world, outside the USA, as providing “the best environment for postdoctoral work,” U of A taking fourth place. This is indeed a signal honour, and we imagine that by putting a further spotlight on the importance of mentoring the U of A will certainly maintain and perhaps even improve its position in the years to come.

We say goodbye and thank you to *Dr. Doug Owram*, who retired this summer as Provost and Vice-President (Academic) at the U of A, and thus as Chair of the University’s Killam Trust Committee. We warmly welcome his replacement, *Dr. Carl Amrhein*, who comes to the U of A from the University of Toronto.

The names of the winners of U of A’s Killam awards, Killam Predoctoral Scholars, Killam Postdoctoral Fellows, Killam Annual Professors and holders of Killam Chairs are listed at the back of this booklet.



THE UNIVERSITY OF BRITISH COLUMBIA

UBC was the host for this year’s Killam Annual Lecture, given by *Dr. Shirley Tilghman*, the President of Princeton

University. The Lecture was held at UBC's Robson Square campus, in the heart of downtown Vancouver. It was followed by a sumptuous dinner at the Four Seasons Hotel in honour of both Dr. Tighlman and UBC's 2003 Killam Scholarship winners. The whole event was very well organized and beautifully presented; thanks particularly to *Dr. Martha Piper*, President and *Dr. Frieda Granot*, Dean of Graduate Studies. Thanks also to *Angela Kaija*, UBC Killam Secretary and *Christine Dickinson*, Administrative Officer for the Killam Trusts, for your fine organizational work.

Following the dinner, guests were treated to two vivid presentations (including some pretty graphic slides) from Killam Scholars on their research. One looked at the drastic slide through various forms of death and destruction in the numbers of wild salmon making their way back upriver to spawn, and the other dealt with certain nasty bacteria found in the human gut. We are happy to report, however, that such was the erudition of the presenters, and their touch so light, that we who had just finished our meals were in no way discomfited by the subject matter of either presentation!

Earlier in this Report we spoke of how declining capital values of the Killam Trusts could well result in cutbacks in the number of Killam Scholarships. This has already happened at UBC. For example, Killam Predoctoral Scholarships leapt up from 37 in 1998-99 to 56 in the boom years of 2000-01, but now are down to 27. UBC plans to level out at about 32 per year, not far off the "pre-boom" steady state, starting next year. Killam Postdoctoral Fellowships, now at 18 per year, have followed the same pattern.

Since 2000 UBC has put in place an interesting and innovative spending program for income from its Killam General

Endowment. (Unlike the Killam Memorial Trusts, these endowments are not directed solely at scholarships; their income can be used for any university purpose.) The University deliberately underspent for some years prior to 2000, thus building up a rainy day fund. This will now be drawn down in the years to 2005, and used to fund UBC's efforts at faculty recruitment. The background to this is the fact that large numbers of "baby boom" professors hired in the late 1960's and early 1970's are now reaching retirement age; this, combined with pressures from increasing student enrollment, is creating a need for massive new hirings in the next few years. UBC plans to use this war chest to ensure it can compete effectively with other Canadian (and, indeed, US) universities for new professorial talent.

Also in 2003, UBC designated three of its faculty as "University Killam Professors". They are *Dr. Ian Affleck*, Physics and Astronomy; *Dr. David Dolphin*, Chemistry and *Dr. Michael Hayden*, Medical Genetics. The designation "University Killam Professor" is conferred to recognize exceptional members of faculty who have distinguished themselves as scholars in research and teaching and, as a result, have attained the highest acclaim by the academic community and the general public.

You can find the names of all UBC's Killam award winners in the list at the end of this Report.



THE UNIVERSITY OF CALGARY

Dr. Warren Veale has taken over the reins as Acting Dean of Graduate Studies, his predecessor, *Dr. Robert Mansell*, hav-

ing been seconded by *President Harvey Weingarten* to lead a two-year study on the future of the University. Dr. Veale is an “old hand” with the U of C Killam Program, and we welcome him back.

As we noted earlier in this Report, all Canadian universities are rethinking their endowment investment and spending policies in light of the new economic realities that have emerged over the past three years or so, and U of C is a typical case. From a study looking back over 75 years, the University has concluded that the present 5% spending rate (more precisely, spending 5% of the four year rolling average market values as at December 31) has up to now preserved intergenerational equity. In other words, a 5% rate of spending has ensured that the capital value of the Killam Trusts will be preserved over time after taking inflation into account, with the result that today’s generation of students will receive roughly the same benefits as tomorrow’s when measured in inflation-proofed dollars. However, the University has taken note of the thesis being advanced in some quarters of the financial world that in future, the “equity premium” – that is, the extra return that investors might expect from the stock market as compared with fixed income securities – may well retreat from the traditional 5 - 5.5% range to 2 - 4%, suggesting that a reduced spending rate of (say) 4% would be more prudent. In fact, reports U of C’s *Mike Trattner*, Yale and the University of Toronto have already gone to 4%, and U of C will closely monitor how other universities respond to these new financial realities.

On the scholarship side, the Killam Visiting Scholars and Killam Resident Fellowships programs, both unique to the U of C, are going very well. The former brings distinguished

scholars to the University for a term. Both Scholars this year hail from “down under”. They are *Dr. Sid Huff*, Head of the School of Information Management, Victoria University, Wellington, New Zealand and holder of the Ericsson Chair in Information Systems; and *Dr. Andrew Thompson*, Professor of Veterinary Biology, Murdoch University, Western Australia.

Resident Fellowships provide one term of release time to allow scholars to complete a piece of research or writing, free from administrative and teaching duties. The U of C awarded fourteen of these Fellowships this year; their names, and those of all other Killam Award winners, are given at the end of this Report.



THE CANADA COUNCIL FOR THE ARTS

The centrepiece of the Council’s Killam activities is the selection each year of the five Killam Prize winners, one each in the fields of Health Sciences, Natural Sciences, Engineering, Social Sciences and Humanities. Worth \$100,000 each, the Killam Prizes as a group are Canada’s leading awards in these fields, recognizing as they do the lifetime contributions to research and learning of Canadian scholars of world standing. As noted earlier in this Report, this year’s Killam Prizes were presented last May in Edmonton.

The 2003 winners are:

- *Dr. Tak Mak*, University of Toronto, Health Sciences. For more than two decades, Dr. Mak has been one of a handful of international leaders in Virology, Immunology, Molecular Biology and Cancer Genetics. His

research has had an enormous impact on science all over the world, and forms the foundation for novel therapeutic approaches to many diseases. His seminal papers describing the cloning of the gene which encodes the T cell receptor opened the floodgates of knowledge concerning T cell biology. This has had a fundamental impact in both the basic understanding of immunology, as well as the underlying basis for immune system diseases.

- *Dr. David Schindler*, University of Alberta, Natural Sciences. Dr. Schindler is Killam Memorial Professor of Ecology at the U of A. His outstanding contributions to science cross disciplinary boundaries, and have addressed problems of eutrophication, acid rain, climate change and biodiversity. His pioneering whole-ecosystem studies have been the basis of policy decisions that have saved thousands of lakes around the world. He was the first to tie together the effects of the global phenomena of acid precipitation, climate warming and stratospheric ozone depletion on fresh water systems. A large number of Dr. Schindler's 250 plus publications have appeared in the most prestigious international journals. His work has had a profound and widespread influence on fresh water management and policy throughout the world.
- *Dr. Edward J. Davison*, University of Toronto, Engineering. Dr. Davison is a pre-eminent scholar and world leader in the field of Automatic Control and Automation. He has made outstanding contributions with respect to the fundamental properties and characteristics of Control Systems, which are essential for production facilities in such fields as chemical engi-

neering, power systems, aerospace systems and transportation systems, as well as in management science and biological systems. Dr. Davison is internationally recognized for his research contributions.

- *Dr. W. Erwin Diewert*, UBC, Social Sciences. Dr. Diewert, Professor of Economics at UBC, is an internationally renowned economic theorist, empirical economist and policy analyst. His seminal contributions to economic theory, especially production theory, have been the source of many doctoral dissertations all over the world. He is one of the best known Canadian economists of our times. His work in productivity, measurement and dynamics has been invaluable in understanding cross-country and intertemporal patterns in productivity growth, innovation and living standards.
- *Dr. François Duchesneau*, Université de Montréal, Humanities. Dr. Duchesneau is Professor of Philosophy at the U de M, and is an international expert on the history of modern philosophy and the history of Philosophy of Science. His research examines the empiricist theories of knowledge, the history and philosophy of life sciences, and the philosophy and scientific work of Leibniz. Dr. Duchesneau has produced a great many scholarly writings of extraordinary range and quality.

The Council, with the warm approval of the Trustees, decided two years ago to add two Prizes to the original three in fields holding special interest for Mrs. Killam (Health Sciences, Natural Sciences and Engineering). With new Prizes in Social Studies and the Humanities, the field is now open to all areas

of scholarly inquiry. The Trustees believe this will both strengthen the Council's Killam Prize Program, and bring the Killam story to a wider public. We believe Mrs. Killam would approve.

The Council also awards Killam Research Fellowships. Worth about \$70,000 a year, Killam Research Fellowships give two years of release time to professors in mid-career, to enable them to complete a research project or write a book. As the Fellowships are open to applicants from any university – not just the five “Killam” universities – they are hotly completed for and much sought after across Canada. Unfortunately, due to the state of the financial markets, the number of new awards in 2004 will be reduced to only seven. Together with ten renewals for Fellows appointed last year, this is the smallest number of Fellows on stipend in over a decade. Let us hope the markets improve soon!



DALHOUSIE UNIVERSITY

Dal's 2003 Dorothy J. Killam Memorial Lectures were, once again, a rousing success. They were held this year in conjunction with the Congress of the Social Sciences and Humanities, which met this spring in Halifax. The Lectures' theme was “New Perspectives in Conflict and Cooperation”, and the individual lecturers looked at local, national and international dimensions in conflict and conflict resolution. They included *Dr. Richard Tremblay*, Canada Research Chair in Child Development at Université de Montréal; *Dr. Margaret MacMillan*, Provost of Trinity College and Professor of History at the University of Toronto (and author of the international best seller “Paris, 1919”); *Roy Romanow*, recent

Head of the Commission on the Future of Health Care in Canada; and *Mary Robinson*, former United Nations High Commissioner for Human Rights and former President of Ireland.

The Dorothy J. Killam Memorial Lectures are unique to Dalhousie. The decision to hold the 2003 Lectures in conjunction with the National Congress in Halifax turned out to be a good one, providing the participants with lectures of exceptional quality and giving the Killam Trusts a high level of exposure to scholars from across Canada.

No doubt because it is located in Nova Scotia, Izaak Walton Killam's birthplace and Dorothy Johnston Killam's chosen domicile after her husband's death, Dalhousie received somewhat more money from the Killams than the other five educational recipients of their bounty. On top of that, The Izaak Walton Killam Hospital for Children in Halifax, a teaching hospital of the Dal Medical School, also received many millions from Mrs. Killam. Indeed, when it was built in 1965, private rather than government funding for hospitals was much more the norm than it is today; so that without Mrs. Killam, the new hospital would not have been built at all.

Dr. William Cochrane was Physician in Chief at the old Halifax Children's Hospital when Mrs. Killam came on the scene. Bill has regaled the Trustees with stories about Mrs. Killam: for example, how she fretted over the architectural design and outward appearance of the new hospital, insisting on nothing but the best. When advised that her preferred design could not be adopted because it would cost too much, she asked "how much"; and when told, she promptly stumped up the extra cost on top of her original millions! And on one occasion when she wanted to explain to Bill exactly what sort

of design she wanted, she called him at home at 11:30 at night – she was a night owl, and expected others to respond to her clock, especially since she was paying – and insisted on driving around the darkened streets of Halifax until the wee hours, pointing out which buildings she liked and which she didn't.

Bill left Halifax shortly after construction of the new hospital began, to become the first Dean of the new U of C Medical School. Later he became President of the U of C, thus further cementing his Killam connections.

As noted earlier, *The Scientist* magazine recently placed Dal and the U of A in the top ten universities in the world, outside the US, in providing “the best environment for postdoctoral work,” with Dal gaining first place. Congratulations! As Trustees, we are proud that the Killam name is associated with two such prestigious research universities.

Dalhousie's Killam Scholars and award winners are listed at the back of the Report.



MONTREAL NEUROLOGICAL INSTITUTE OF MCGILL UNIVERSITY

Dr. Wilder Penfield, the pioneering neurosurgeon who founded the MNI in 1934, has been the subject of many articles and biographies. In one, *Something Hidden*, by his grandson Jefferson Lewis, a story is told about Penfield's father – a story that is quite simply astonishing for what it reveals about how far medicine has come in little over a century. The father, himself a scholarly physician, at age 22 consulted an eminent

doctor in Chicago, who diagnosed him with tuberculosis. The recommended cure was two years under canvas, alone, in the wilds of Montana. When the senior Penfield returned to civilization, he hadn't gotten any better, but now suffered additional pains from having endured two brutally cold winters outdoors, not to mention the intense loneliness of isolation on what was then (the early 1880's) the wild frontier. On re-examination it turned out that he had not been tubercular at all, but had appendicitis!

When you see the modern miracles of diagnosis and treatment that are wrought every day at the Neuro, you simply shake your head: light years of medical progress in little more than five generations.

This little vignette shows, we suggest, just how right Mr. and Mrs. Killam were to direct their fortune to research at Canadian universities; in the words of Mrs. Killam's Will, "to increase the scientific and scholastic attainments of Canadians...".

Unlike the 1880's, modern medical practice calls for the regular dissemination of medical knowledge for the benefit of patients. In this regard the weekly Killam Research Seminar Series in Neuroscience holds a preeminent position at the MNI. During 2002–03, the Institute hosted 28 internationally recognized scientists and clinicians from across North America and Europe. It continues to award an annual Killam Prize for the best neuroscience research presentation by a research or clinical trainee.

All Killam award winners at the Neuro are listed at the back.



In closing, the Trustees wish to thank all the many hundreds of academics and administrative staff at all six “Killam institutions” for their unstinting efforts. We are indeed aware of the endless hours you put in on Killam business, year in and year out. Without you, there could be no Killam Program.

We especially thank *Dr. Doug Owram*, who retired this summer as Provost and Vice-President (Academic) at the U of A, and thus as Chair of the University’s Killam Trusts Committee, for his years of dedicated and effective work on behalf of the Killam Program.

To all of you, and to Killam Scholars everywhere, best wishes for the holiday season and the new year!

John H. Matthews

W. Robert Wyman, LLD, Chancellor Emeritus,
The University of British Columbia

M. Ann McCaig, LLD, Chancellor Emeritus,
The University of Calgary

George T.H. Cooper, Q.C., Managing Trustee

Trustees of the Killam Trusts

Halifax, Nova Scotia

November, 2003

KILLAM AWARD WINNERS

2003

LISTED BY INSTITUTION

UNIVERSITY OF ALBERTA

Killam Predoctoral Scholars

New Scholars

Adamek, Magdalena; Music
Aldridge, Cameron; Biological Sciences
Altrows, Jessica; Educational Psychology
Bell, Mary; Sociology**
Caine, Vera; Educational Policy Studies**
Carmichael, Lindsey; Biological Sciences**
Cherry, Colin; Computing Science**
Djurfors, Barbara; Chemical and Materials Engineering
Dragic, Srdjan; Electrical and Computer Engineering
Fafard, Melanie; Anthropology
Fagarasanu, Mircea; Rehabilitation Medicine**
Filipescu, Cosmin; Renewable Resources
Fujiwara, Aya; History and Classics
Gifford, James; English**
Gilmour, Matt; Medical Microbiology and Immunology**
Helstein, Michelle; Physical Education and Recreation
Henitiuk, Valerie; Comparative Literature, Religion and Film/Media Studies**
Jones, Troy; Rehabilitation Medicine**
Kalmanovitch, Tanya; Music**
Lee, Jeong; Mathematical and Statistical Sciences
Morgan, David; Computing Science
Nanji, Sulaiman; Surgery**
Peternelj-Taylor, Cindy; School of Nursing Graduate Services
Rashotte, Judith; School of Nursing Graduate Services
Rychtar, Jan; Mathematical and Statistical Sciences
Sample, Heather; Elementary Education

** Honorary Killam Scholar - A designation given to scholars who have received an external award and whose qualifications entitle them to a Killam Scholarship and to all the benefits accorded to Killam Scholars.

Wang, Yuanning; Electrical and Computer Engineering**
Wells, Kristopher; Educational Policy Studies
Yin, Hui; Linguistics
Yoon, Juil; Mechanical Engineering

Renewal Scholars

Billings, Darse; Computing Science**
Buchanan, Kristen; Physics
Caines, Jennifer; Music
De Burgos, Hugo; Anthropology
Dohan, Kathleen; Mathematical and Statistical Sciences
Friesen, Norman; Secondary Education**
Gittens, Sebastien; Pharmacy and Pharmaceutical Sciences
Gong, Minglun; Computing Science
Gould, Joyce; Renewable Resources
Grad, Leslie; Biochemistry
Grypma, Sonya; Nursing**
Hearn, Elizabeth; Chemical and Materials Engineering
Laycock, Kelly; English**
MacIsaac, Daniel; Renewable Resources
Mason, Kaley; Music**
McKenna, Sean; Biochemistry**
Nickel, Dawn; History and Classics
Peterson, Lesley; English
Popescu, Cristina-Adela; Mathematical and Statistical Sciences
Ranson Ratusz, Ann Marie; Nursing
Tomuta, Sorin; Comparative Literature, Religion and Film/Media Studies
Tupper, Jennifer; Secondary Education
Wagner, David; Secondary Education
Watson, Mark; Anthropology
Wilson, Philip; Physical Education and Recreation

Dorothy J. Killam Memorial Graduate Prize Winners

Aldridge, Cameron; Biological Sciences
Altrows, Jessica; Educational Psychology
Djurfors, Barbara; Chemical and Materials Engineering
Henitiuk, Valerie; Comparative Literature, Religion, and Film/Media Studies

Killam Postdoctoral Fellows

New Fellows

Arenson, Lukas; Civil and Environmental Engineering
Chung, Mee-Kyung; Chemistry**
Dodson, D. Alan; Music
Howard, Cosmo; Political Science
Jamieson, Sara; English
MacLeod, Lewis; English

Ruecker, Stanley; Modern Languages and Cultural Studies
Wilhelm, Andrea; Linguistics

Renewal Fellows

Campbell, Claire; History and Classics
Carroll, Timothy; Physical Education and Recreation
Charrier, Isabelle; Psychology
Davidson, Diana; English
Gour, Gilad; Physics
Jones, Nathan; Chemistry
Koivula, Matti-Jussi; Renewable Resources
Ostroverkhova, Oksana; Physics
Wonham, Marjorie; Biological Sciences**

Killam Annual Professors

Clandinin, D. Jean; Elementary Education
Field, Catherine; Agricultural, Food and Nutritional Science
Fracchia, Helena; History and Classics
Hrudey, Steve; Public Health Sciences
Ivey, Douglas; Chemical and Materials Engineering
Moqbel, Redwan; Medicine
Roland, Jens; Biological Sciences
Shah, Sirish; Chemical and Materials Engineering

Killam Chairs

Frolov, Valery; Physics
Schindler, David; Biological Sciences

Killam Award for Excellence in Mentoring Winners

Taylor, Diane; Medical Microbiology and Immunology
Vederas, John; Chemistry

THE UNIVERSITY OF BRITISH COLUMBIA

Killam Predoctoral Scholars

New Scholars

Baumbusch, Jennifer; Nursing
Brumme, Zabrina; Experimental Medicine**
Bryan, Gregory; Language and Literacy Education**

Dixon, Katherine; Physics and Astronomy
Fangue, Nann; Zoology
Gelin, Michaela; Educational and Counselling Psychology, and Special Education**
Gould, Kevin; Geography
Hinton, Jennifer; Metals and Materials Engineering
Khalighi, Yashar; Civil Engineering
Lampard, Gregory; Plant Science
MacLachlan, Erin; Chemistry
Maggi, Stefania; Health Care and Epidemiology**
Marigold, Daniel; Neuroscience**
Mathur, Sunita; Human Kinetics**
Mell, Kathleen; English**
Neufeld, Josh; Microbiology
Poburko, Damon; Pharmacology and Therapeutics**

Renewal Scholars

Bibian, Stephane; Electrical Engineering
Brown, Matthew; Computer Science
Cao, Yang; Mechanical Engineering
Choy, Jonathan; Pathology**
Garland, Erin; Medical Genetics**
Kranz, Karen; Educational and Counselling Psychology
Liu-Ambrose, Teresa Yeong; Human Kinetics**
Staudhammer, Christina; Forestry**
Todgham, Anne; Animal Science
Tsai, Li-Ling; Curriculum Studies
Waters, Johanna; Geography
Wojdak, Rachel; Linguistics**
Young, Nathan; Sociology**

Killam-Donald N. Byers Prize Winner

Gelin, Michaela; Educational and Counselling Psychology, and Special Education**

Killam Postdoctoral Fellows

New Fellows

Agrawal, Anil; Zoology
Boughner, Julia; Oral Health Sciences
Cooke, Steven; Forestry
Frishman, Einat; Chemistry
Heitner, Reese; Psychology
Mejia Acosta, Andres; Political Science
Oriet, Chris; Psychology
Ozog, Mark; Anatomy and Cell Biology
Wainwright, Joel; Geography
Wickham, Mark; Biotechnology Laboratory

Renewal Fellows

Dikovitskaya, Margarita; Fine Arts
Falletti, Tullia; Institute of International Relations
Fan, Yuwei; Metals and Materials Engineering
Green, David; Forest Sciences
Johnson, Monte; Philosophy
Knecht, Neil; Physics and Astronomy
Nelson, Robert; Institute for European Studies
Richards, Jeffrey; Zoology
Schoof, Christian; Earth and Ocean Sciences
Smilek, Daniel; Psychology

Killam Faculty Research Fellowships

Buchanan, Ruth; Law
Burgess, Miranda; English
Dalziel, Pamela; English
Marker, Michael; Educational Studies
McClung, David; Geography
van Eeden, Stephan; Medicine
Zhitnitsky, Ariel; Physics and Astronomy

Killam Faculty Research Prizes

Douglas, Donald; Chemistry
Hickson, Paul; Physics and Astronomy
Humphries, Richard; Hematology
Johnston, Charlotte; Psychology
Kingstone, Alan; Psychology
Lemieux, Thomas; Economics
Mauk, Grant; Biochemistry
Strynadka, Natalie; Biochemistry
Todd, Robert; Classical, Near Eastern and Religious Studies
Siegel, Linda; Educational and Counselling Psychology, and Special Education

Killam Teaching Prizes

Bainbridge, Lesley; Rehabilitation Sciences
Berger, James; Zoology
Chalmers, Graeme; Curriculum Studies
Chandler, Michael; Psychology
Chapman, Gwen; Food, Nutrition and Health
Feeley, Michael; Computer Science
Hall, Geoffrey; Psychology
Hodgson, Antony; Mechanical Engineering
Langlois, Sylvie; Medical Genetics
Macnab, Andrew; Pediatrics
Marziali, Andre; Physics and Astronomy
Matthew, Ian; Oral, Biological, and Medical Sciences

McNeill, John; Pharmaceutical Sciences
Meredith, Deborah; Commerce
Norton, Bonny; Language and Literacy Education
Pue, Wesley; Law
Saltman, Judith; Library, Archival and Information Studies
Sens, Allen; Political Science
Sheppard, Anthony; Law
Sullivan, Shirley; Classical, Near Eastern and Religious Studies
Wilton, Steven; Electrical and Computer Engineering
Wood, Paul; Forest Resources Management

University Killam Professors

Affleck, Ian; Physics and Astronomy
Baird, Patricia; Medical Genetics
Holsti, Kalevi; Political Science
New, William; English

THE UNIVERSITY OF CALGARY

Killam Predoctoral Scholars

New Scholars

Abdelatif, Sherif Saad A.H.; Civil Engineering
Bye, Cristine; History**
Diskin, Katherine; Clinical Psychology**
Keown, Leslie-Anne; Sociology
Liang, Zhe; Mechanical and Manufacturing Engineering
McKay, Bruce; Neuroscience**
Mendez, Israel; Microbiology and Infectious Diseases**
Mintz, Alisa; Clinical Psychology**
Reid, Jennifer; Chemistry**
Saj, Tania; Anthropology
Salina, Davide; Medical Science**
Wulff, Jeremy Earle; Chemistry**
Zajchowski, Laura; Biochemistry and Molecular Biology

Renewal Scholars

Ellum, Cameron; Geomatics Engineering
Ellwood, Ann-Louise; Clinical Psychology**
Hayes, Paul; Chemistry**
Limacher, Lori; Nursing
O'Keefe, Kyle; Geomatics Engineering**
Ormond, Wayne; Psychology

Robertson, Elizabeth; Archeology
Uggerslev, Krista; Psychology**
Zender, Marc; Archeology

The Donald N. Byers Memorial Killam Prize

Bye, Cristine; History**

Killam Postdoctoral Fellow

Romanuk, Tamara; Biological Sciences

Killam Visiting Scholars

Huff, Sid; Haskayne School of Business
Thompson, Andrew; Biological Sciences

Killam Resident Fellows

Bakardjieva, Maria; Communication and Culture
Beaulieu, Eugene; Economics
Chivers, Tristram; Chemistry
Cropp, Martin; Greek and Roman Studies
MacIntosh, John; Philosophy
Oxoby, Robert; Economics
Polito, Mary; English
Ray, Donald; Political Science
Romney, David; Applied Psychology
Shaw, William; Mechanical and Manufacturing Engineering
Sullivan, Rebecca; Communication and Culture
Tetty, Wisdom; Communication and Culture
Young, Lisa, Political Science

Killam Chairs

Gravel, Roy; Medicine and Kinesiology
Shrive, Nigel; Civil Engineering

THE CANADA COUNCIL FOR THE ARTS

Killam Research Fellows

New Fellows

Burford, Neil; Chemistry - Dalhousie University
Devereux, Michael; Economics - University of British Columbia
Friedlander, John; Mathematics - University of Toronto
Grace, Sherrill; English - University of British Columbia
Griffith, Marilyn; Biology - University of Waterloo
Hall, Brian; Biology - Dalhousie University
Kerrich, Robert; Geological Sciences - University of Saskatchewan
Sherwood Lollar, Barbara; Geology - University of Toronto
Strong-Boag, Veronica; Educational Studies and Women's Studies - University of British Columbia
Viola, Lynne; History - University of Toronto

Renewal Fellows

Barrett, Anthony; History - University of British Columbia
Bogoyavlenskij, Oleg; Mathematics - Queen's University
Brodeur, Jean-Paul; Criminology - Université de Montréal
Chamberlin, J. Edward; Comparative Literature - University of Toronto
Glenn, H. Patrick; Law - McGill University
Henein, Hani; Engineering - University of Alberta
Ivrii, Victor; Mathematics - University of Toronto
Kymlicka, Will; Philosophy - Queen's University
Legzdins, Peter; Chemistry - University of British Columbia
Lusignan, Serge; History - Université de Montréal
Montgomerie, Robert; Biology - Queen's University
Moore, Ian; Engineering - Queen's University
Ono, Hiroshi; Psychology - York University
Panaccio, Claude; Philosophy - Université du Québec à Trois-Rivières
Pangle, Thomas; Political Science - University of Toronto
Richer, Harvey; Physics and Astronomy - University of British Columbia
Roy, Christian; Engineering - Université Laval
Weaver, Andrew; Earth Sciences - University of Victoria

Killam Prize Winners

Davison, Edward (Engineering); Electrical and Computer Engineering - University of Toronto
Diewert, W. Erwin (Social Sciences); Economics - University of British Columbia
Duchesneau, François (Humanities); Philosophy - Université de Montréal
Mak, Tak (Health Sciences); Medical Biophysics - University of Toronto
Schindler, David (Natural Sciences); Biological Sciences - University of Alberta

DALHOUSIE UNIVERSITY

Killam Predoctoral Scholars

New Scholars

Anderson, James; Philosophy**
Batongbacal, Jay; Faculty of Law**
Bonakdarpour, Arman; Physics**
Bradbury, Ian; Biology**
Cain, Seth; International Development Studies
Carter, Michael; Chemistry**
Chikowero, Moses; History
Dolcos-Bazgan, Calin; Anatomy and Neurobiology
Eelman, Melanie; Chemistry**
Erdmann, Saskia; Earth Sciences
Fabian, Steven; History
Fleischauer, Michael; Physics**
Gomez, Geraldine; Pharmacology**
Hanke, Felix; Physics
He, Yanjing; Mathematics
Hu, Zhifei; Civil Engineering
Huybers, Sherry; Health and Human Performance**
Jakubinek, Michael; Physics**
Jones, Eluned; English**
Kehler, Daniel; Biology
Kretz, Lisa; Philosophy
Lipp, Judith; Interdisciplinary PhD**
Mailloux, Julie; Resource and Environmental Studies**
Marshall, Susanne; English
Mboudjeke Nzale, Jean Guy; French
Mothana, Belquis; Chemistry**
Mustafiz, Shabbir; Civil Engineering
Nordmann, Julia; German
O'Neill, Daniel; Resource and Environmental Studies
Onyemelukwe, Cheluchi; Law
Osmond, Allison; Physiology and Biophysics
Ottier, Audrey; International Development Studies
Ovans, Robyn; Chemistry**
Owen, Corey; English**
Ragogna, Paul; Chemistry**
Rankin, Matthew; Chemistry**
Richard, Nadine; Psychology
Rodriguez-Evora, Yan; Chemistry
Rothenburger, Sunnie; English
Russell, Stephen; Classics
Rygel, Michael; Earth Sciences
Saha, Gobinda; Mechanical Engineering**

Schwartz, Meredith; Philosophy
Smalarz, Matthew; History
Talbot, Pamela; Community Health and Epidemiology**
Tang, Bin; Computer Science
Thiemann, Gregory; Biology
Wilson, Garnett; Computer Science**
Zhao, Liang; Chemistry

Renewal Scholars

Al Darbi, Muhannad; Chemical Engineering**
Bahr, Peter; Philosophy**
Bejder, Lars; Biology
Bell, Victoria; Sociology and Social Anthropology
Birch, Cheryl; Psychology**
Brown, Ralph; History**
Cheng, Karen; Chemistry**
DiSanto, Michael; English**
Geng, Yong; Chemical Engineering
Hardie, David; Biology**
Harker, Kenneth; Psychology**
Hatchard, Timothy; Physics
Hoshino, Richard; Mathematics and Statistics**
Kelly, Noreen; Oceanography**
Lichodziejewski, Peter; Computer Science**
Ma, Changning; Electrical and Computer Engineering
MacPherson, Amy; Psychology**
Mahmoud, Nesreen; Civil Engineering
McGuire, Shana; French**
Meek, Heather; English
Mummery, Jennifer; Physiology and Biophysics**
Nouri, Alireza; Civil Engineering
O'Neill, Seamus; Classics
Peng, Yiran; Physics
Poetzsch, Markus; English**
Richard, Cynthia; Pharmacology**
Seaville, Victoria; Philosophy**
Spinney, Heather; Chemistry**
Stewart, Connie; Mathematics and Statistics
Tan, Ernest; Pharmacology**
Taylor, Tara; Mathematics and Statistics
Walker, Kerry; Psychology**
Wilkinson, Nicholas; History**
Willenbring, Jane; Earth Sciences
Wood, Tabitha; Chemistry**
Woodrow, Jennifer; Philosophy**
Yue, Jin; Mathematics and Statistics

Killam Postdoctoral Fellows

New Fellows

Baader, Maria; History

Baur, Steven; Music

Dalebout, Merel; Biology

Gonsalves, Joshua; English

Gophna, Uri; Biochemistry and Molecular Biology

Renewal Fellows

Bracher, Christian; Physics

Lawrence, Sean; English

Mitrasinovic, Petar; Chemistry

Strychar, Kevin; Earth Sciences

Syvitski, Raymond; Pharmacy

Faculty of Science Killam Professors

Beaumont, Chris; Oceanography

Brown, Richard; Psychology

Chatt, Amares; Chemistry

Cullen, John; Oceanography

Dunlap, Richard; Physics

Jamieson, Rebecca; Earth Sciences

Klein, Ray; Psychology

McGrath, Patrick; Psychology

Pincock, Jim; Chemistry

Santor, Darcy; Psychology

Whitehead, Henry; Biology

Faculty of Science Killam Prize

Lohmann, Ulrike; Physics and Atmospheric Science

Killam Chairs

Islam, Rafiqul (Petroleum Engineering); Civil Engineering

Myers, Ransom (Ocean Studies); Biology

Rosson, Philip (Business Informatics); Business Administration

White, Mary Anne (Materials Science); Chemistry; Physics

MONTREAL NEUROLOGICAL INSTITUTE

Killam Scholars

Antel, Jack
Collins, Louis
Dagher, Alain
del Maestro, Rolando
Diksic, Mirko
McPherson, Peter
Nalbantoglu, Josephine
Owens, Trevor
Paus, Tomáš
Petrides, Michael
Ragsdale, David
Seguela, Philippe
Sossin, Wayne

Killam Prize Winner

Werbowetski, Tamra

Killam Professor

Pike, Bruce

Dorothy J. Killam Professor

Milner, Brenda

Killam Chair

Karpati, George

