



THE KILLAM TRUSTS

**ANNUAL
REPORT
2001**

*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 4,500 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 and Engineering and, beginning in 2002, Social Sciences and Humanities. They are Canada's premier awards in these fields, and to date 58 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

2001 ANNUAL REPORT OF THE KILLAM TRUSTEES



Life never loses its capacity to surprise, and the Killam story is no different.

In the middle of that glorious summer of 2001 (at least in Atlantic Canada), there came sailing into the North West Arm of Halifax Harbour on his 28 foot sailing yacht Mr. John B. Newhall of Manchester, Mass. and his wife, Kate. (They were participants in the biennial Marblehead to Halifax Ocean Race; in alternate years the race goes in the other direction.) A phone call placed to our Managing Trustee, who lives in Halifax, revealed that Mr. Newhall too is a Killam Trustee! But how in the world could that be? Mrs. Killam's Will is very explicit. Since 1965 there have always been four Trustees, and only four, none of whom is John B. Newhall!

To our astonishment, it turns out that there exist in the United States two additional Killam Trusts, the Constance Killam Trust and the Elizabeth Killam Rodgers Trust; and John Newhall is one of the Trustees of those Trusts. Constance Killam and Elizabeth Killam Rodgers were the younger sisters of Izaak Walton Killam. They left the family home in Yarmouth, Nova Scotia and settled in Marshfield, Mass. with their mother in about 1900 in unhappy circumstances. The cause of their departure was the death of their father; their elder brother, Izaak Walton Killam, who was then 15 or 16, stayed behind to make his way as best he could.

As readers of these Annual Reports will know, Walton (as he was known within the family) made his way supremely well. He became the leading Canadian business person of the first half of the 20th Century, and left (through his wife Dorothy Johnston Killam, who doubled her inheritance from Walton) some \$100 million to found the Canadian Killam Trusts in 1965.

What very few knew, certainly not the Trustees of the Canadian Killam Trusts, was that a couple of years before his death in 1965, Walton had made a gift of \$1 million U.S. to each of his sisters. And very much in the Killam tradition, the two sisters had left their estates to charity as well. (Constance never married, and Elizabeth – or “Betty” as she was known – had one son who was killed on active service with the U.S. Forces in the Pacific during the World War II.) Today the two U.S. Killam Trusts are worth some \$15 million U.S.



The initial contact once made, we Canadian Trustees invited Mr. and Mrs. Newhall to Montreal in October to attend the Killam Annual Conference and the Killam Annual Lecture (see report later). The Conference brings together the Deans of Graduate Studies of the five “Killam universities” – The University of British Columbia, University of Alberta, The University of Calgary, Montreal Neurological Institute of McGill University and Dalhousie University – and their assistants, plus the Director of the Killam Program at the Canada Council for the Arts. The Conference affords an opportunity for the Killam institutions to discuss with each other and the Trustees any points of general interest or special difficulty arising from their individual Killam Programs.

Mr. Newhall explained to the Conference how the U.S. Killam Trusts work. He pointed out that “by contrast to Big Brother in Canada, who had a lot of money but very little discretion in how the funds are to be used, the Little Sisters in the U.S. had a lot of discretion but very little money”. Knowing that “Big Brother” had concentrated his efforts on scholarships at the graduate level, the U.S. Trustees had decided to emphasize support for undergraduate liberal education. About \$750,000 U.S. is available each year for distribution, and Canadian universities are eligible.

While the U.S. Trustees do not accept applications, and in the past have made their grants anonymously, they are now becoming more public. Four Eastern Canadian universities received grants in 2001, and the Trustees anticipate increasing the number of Canadian institutions they support in future, and may also enlarge the geographic area to be considered.

Other charitable activities under consideration by the U.S. Killam Trusts include an exhibition relating to the Canadian-American relationship. Tentatively entitled “Rubbing Shoulders,” it would involve both a Canadian and an American museum as co-sponsors.

Now that we have made the connection with our American cousins, we Canadian Trustees plan to maintain the ties. Who knows, one day we might find a couple of long lost Killam cousins in Tasmania or Pago Pago, each with their own charitable trusts, extending the “Killam story” to the farthest corners of the earth!



The Killam Annual Lecture for 2001 was given by *Dr. John R. Evans*, Chair of the Canada Foundation for Innovation, before an audience of over 250 at the Montreal Neurological Institute of McGill University on October 25. This Lecture series, on the general theme of the importance of research at Canadian universities, is now in its seventh year, and has become a permanent fixture at the annual conference of the Canadian Association of Graduate Studies.

In his Lecture, Dr. Evans boldly challenges Canadian governments and universities to enter into a “Public Research Contract”, which would make explicit their shared objectives and commitments to a long-term national purpose. Dr. Evans suggests that this Contract already exists implicitly, but argues that, in spite of the dramatic improvements we have seen recently, government funding for research will always be at risk if the Contract remains inchoate.

The “national purpose” Dr. Evans has in mind is a commitment by the universities to provide an economic and social return on public investment in research, and particularly, jobs and wealth creation in Canada. In exchange, the commitment of governments is to provide a much higher level of investment than previously to Canadian universities for their traditional role in the creation and transmission of knowledge.

For Canadian universities, the Contract would entail new levels of accountability to perform at international standards of excellence, to use their generous and growing public funding efficiently, and to promote commercialization of the intellectual property that results from their research. Each of these commitments would necessitate fundamental reform in the way universities operate.

On the last point, commercialization, Dr. Evans makes a particularly intriguing recommendation. Canada should consider, he argues, imposing a requirement that intellectual property created in Canadian universities through research supported by public funds may only be commercialized by a Canadian based enterprise. This is the model used in the U.S., and the result there has been the explosion since World War II of the thousands of companies that have virtually created the fields of information technology, telecommunications and bioscience, the engines of economic growth in the modern world.

In addition to challenging us on the home front, Dr. Evans argues passionately that Canada should “review its distinctive approach to international development launched originally by leadership of the Colombo Plan and Lester Pearson’s Partners in Development Report in 1969.” He would like Canadian universities to “articulate and promote a strategy to include international development research and education as an integral part of the Public Research Contract.” This is a magnificent vision for Canada, and wholly at one with the vision set out in Mrs. Killam’s Will, which speaks of “promoting sympathetic understanding between Canadians and the peoples of other countries”.

The Trustees’ aim in sponsoring the Killam Annual Lectures is twofold: to bring to the attention of opinion leaders in Canadian academic, government and business circles the importance of research to our universities’ academic success and to our nation’s economic success; and to encourage other wealthy Canadians to emulate the example of Izaak Walton Killam and Dorothy Johnston Killam by providing financial resources for those who carry out that research. We believe our intended audience has heard the voices of our distin-

guished Lecturers clearly in the past, and that as a consequence of their vision (and that of many others) support for research at Canadian universities has been greatly strengthened over the past seven years.

If one had to name the single Canadian who best combined success in the worlds of research, university administration, government service and business, Dr. John Evans would be that person. His Killam Annual Lecture for 2001 has done a great service for Canada, and we believe that it too will have a profound effect on the future development of research at Canadian universities.

If you would like copies of Dr. Evans' Lecture, or any of the six previous Lectures, you can write to Christine Dickinson, the Administrative Officer of the Killam Trusts, whose address is on the outside back cover of this Report. Or you can visit our Killam website: <http://www.dal.ca/killamtrusts>.



Beginning in 2002, the Canada Council for the Arts will award two new Killam Prizes, one in the Social Sciences and one in the Humanities. These are in addition to the three Killam Prizes in Health Sciences, Natural Sciences and Engineering which the Council has awarded since 1981.

The five Killam Prizes are now worth \$100,000 each, and are Canada's premier prizes in these fields.

For some time, the Killam Trustees have been somewhat puzzled by the fact that the Killam Prizes seem so little known, at least outside our universities — and sometimes even within them — in spite of the excellent publicity given to them by the Canada Council and The Bank of Nova Scotia (see the next section of this Report). Now that the Prizes are

no longer restricted to the “sciences” broadly defined, but cover the full range of academic endeavour across the land, we hope they will take a larger place in the nation’s consciousness.



For the past four years, The Bank of Nova Scotia has kindly hosted the Annual Dinner at which the Killam Prizes are awarded to the winners. This year the Dinner was held at the Four Seasons Hotel in Toronto. Those honoured were *Dr. Werner Kalow*, University of Toronto (Health Sciences); *Dr. Ronald Melzack*, McGill University (Natural Sciences); and *Dr. Norbert Morgenstern*, University of Alberta (Engineering). *Bob MacDonald*, host of CBC Radio’s science show *Quirks and Quarks*, was the Master of Ceremonies.

The generous sponsorship by Scotiabank of the congratulatory advertisements that appeared the next day in the *Globe & Mail*, the *Edmonton Journal*, *The Montreal Gazette* and *La Presse* brought broader public awareness of the Killam Prizes. We are most grateful to Scotiabank for its continued support.



This year marked the passing of a distinguished contributor to the Killam cause. *G. Arnold Hart*, former President of Bank of Montreal was, over many years, a confidant of Dorothy Killam. She named him one of the four original Trustees of her Estate, and he served in that capacity in the years from Mrs. Killam’s death in 1965 until 1981. It was in this early period that the first group of Trustees carefully and conscientiously laid the foundations for the Killam Program and its present day success. All the Killam institutions and the current Trustees are deeply grateful for Mr. Hart’s invaluable contribution.

We also note with sadness the passing of *Douglas How*, a distinguished Canadian journalist and author, who died this past summer after a brief illness. Mr. How is the author of “A Very Private Person,” the biography of Izaak Walton Killam and his wife Dorothy, commissioned by the Trustees in 1976. Just this past year Mr. How had completed revisions to the book, bringing the Killam story up to date by describing how the Killams’ original vision has worked out in practice. The new book, with reflections gleaned from participants at all six Killam institutions, will be published next year.

The Trustees, on behalf of the whole “Killam family” of scholars, convey their condolences to the Hart and How families.



On a more cheerful note, this year also saw The University of Calgary award an Honorary Doctorate of Laws degree to our fellow Trustee, Ann McCaig, at its June 13, 2001 Convocation. Ann, a former Chancellor, has been an indefatigable supporter of the U of C over many years, as she has of the Killam Programs at all the Killam institutions. In her Convocation Address, Ann took up the theme of support for our public institutions, a sterling example of which is reflected in Mr. and Mrs. Killam’s commitment to higher education in Canada. As mentioned above, a continuing hope of the Trustees is that they and the six Killam institutions can so present the good work that has been accomplished through the Killam bequests that other wealthy Canadians can be persuaded to emulate their example.



We turn now to a description of the activities at each of the six Killam institutions over the past year.

UNIVERSITY OF ALBERTA

At the U of A, the Vice-President (Academic) and Provost has administrative responsibility for the Killam Trusts. *Dr. Doug Owram*, the incumbent, has established an integrated organizational structure, under which the several Killam subcommittees on the U of A campus report to the Killam Trusts Committee. These are:

- Killam Memorial Chairs Committee;
- Killam Annual Professorships Committee;
- Killam Trusts Finance Committee; and
- Killam Scholarship Committee.

The two Killam Memorial Chair holders at the U of A are *Dr. Valery P. Frolov*, of the Department of Physics, a distinguished cosmologist; and *Dr. David W. Schindler*, of the Department of Biological Sciences, a well-known figure in Canadian academic and environmental circles.

The Killam Annual Professorships are awarded to outstanding academics at the U of A in recognition of their distinguished careers. The award is based on scholarly activities including teaching, supervision of graduate students, research, publications, creative activities, and contributions to the community beyond the university. The U of A has awarded eight professorships each year since 1991. The names and departments of this year's honourees are listed in the table at the back of this Report.

The financial status of the Killam endowments at the U of A is enviable. Alone among the six Killam institutions, in this bleak year for investments the U of A managed to see the

market value of its Killam endowments rise, even after inflation and after paying its Killam program expenses for the year.

The Killam Scholarship Committee is, of course, “where (most of) the action is”. This Committee adjudicates the Killam Predoctoral Scholarships, with 47 scholars now on stipend. Again, the list of Scholars is provided in the table at the end of the Report.

The Committee also awards the Killam Postdoctoral Fellowships at the U of A, of which 13 are now in course.

The Killam Trustees visit the six Killam institutions in the fall of each year, when the universities host celebratory dinners for their Killam Scholars. This year the U of A Dinner fell on Halloween. We can confidently report, however, that the quality of those being honoured, each of whom gave a two minute presentation on the subject matter of their research, made the evening all treats and no tricks.



THE UNIVERSITY OF BRITISH COLUMBIA

The three Killam Funds at UBC – the Scholarship Fund, the Salary Fund and the General Endowment Fund – help to propel academic excellence in research and scholarship at the University by supporting its most distinguished researchers at the Predoctoral, Postdoctoral and Faculty levels. A listing of the UBC Killam winners this year is found at the end of this Report.

As in all of the Killam universities (except the Montreal Neurological Institute), the Killam Scholarship Fund supports both Postdoctoral and Predoctoral students. The

Predocctoral Scholarships are awarded to the most outstanding doctoral candidates at UBC, and this year 12 new scholarships were offered, of which nine were accepted. They join the 27 Predocctoral students in the second year of their Scholarships.

As at the other institutions, many Killam Scholarship winners also receive awards from the national granting councils. In these cases, the national award is “topped up” to the Killam level, and the scholar is dubbed an “Honorary Killam Scholar.” Of this year’s nine new winners at UBC, three are Honoraries.

The Killam Postdoctoral Fellowships at UBC are awarded to distinguished scholars from around the world who recently completed their doctorate degrees at a university other than UBC. Four new Postdoctoral Fellowships were taken up this year; two of them are winners of fellowships from the national granting councils, and are thus considered Honorary. They join the 26 other scholars at UBC who currently hold Killam Postdoctoral Fellowships.

The Killam Memorial Salary Fund supports many university initiatives, but most importantly it allows UBC to meet two of its most difficult challenges. First, it provides bridging and recruiting opportunities to ease retirements among faculty. Second, it allows UBC to fund members of the academic staff embarking on new academic programs that have not yet received dedicated support from the University budget.

Finally, UBC’s Killam Endowment Fund supports two sets of prizes: The UBC Killam Faculty Research Prizes, and the UBC Killam Faculty Teaching Prizes. These are adjudicated in rigorous competitions by the various disciplinary faculties across campus.



THE UNIVERSITY OF CALGARY

Dr. Robert Mansell took over as Dean of the Faculty of Graduate Studies at the U of C earlier this year. We welcome him warmly.

In the Killam Predoctoral Scholarship Competition this year, the Committee read approximately 200 scholarship applications, and awarded new full or Honorary Killam Scholarships to the top 11 of these. They join 11 Predoctoral scholars in the second year of their Scholarship. As with the other universities, many of these scholars are “Honorary”; in fact, at the U of C, about half are in this category.

The U of C has two Killam Chairholders. *Dr. Nigel Shrive* has built a fascinating career by applying the principles of structural mechanics to both masonry and biological structures. He was the youngest person ever appointed to a full professorship in the Faculty of Engineering at the U of C, having received a First Class Honours degree in Engineering Science from Oxford University in 1971, and a Doctor of Philosophy degree in 1974. In biomechanics, Dr. Shrive’s interests lie in soft tissues of joints. In particular, he is interested in the structure and function of normal, healing and reconstructed ligaments, in an attempt to achieve better functional outcomes to surgical procedures.

Dr. Roy Gravel is the U of C’s other Killam Chairholder. He is in the Faculty of Medicine, Department of Cell Biology and Anatomy, with cross appointments in the Department of Chemistry and Molecular Biology and the Faculty of Kinesiology. He comes to the U of C from McGill, and his research area is inborn errors of metabolism, including Tay-Sachs

disease, a fatal genetic disorder in children which causes progressive destruction of the central nervous system, and disorders of vitamin metabolism.

The U of C, uniquely among the Killam institutions, conducts a “Killam Visiting Scholars” program. This is intended to bring to the University distinguished scholars who, by their presence and participation in research and teaching, are likely to make a significant contribution to the academic life of the University. Awards are made for either the fall or winter term, and include an honorarium of \$20,000, plus a travel and research allowance of \$3,000. Scholars are expected to participate in the teaching and research programs of the host department, as well as engage in their own research.

One of this fall’s Killam visiting scholars is *Dr. Lennart Persson*, who is a professor in the Department of Ecology and Environmental Science at Umeå University, Sweden, a leading European centre for ecology and environmental science. Dr. Persson’s approach to science, which blends observations, experiments and theory, has established him as a world leader and innovator in the field of ecology. Dr. Persson has written or co-authored over sixty scientific publications, with another seven under review or in preparation. During Dr. Persson’s visit, the Division of Ecology within the U of C Department of Biological Sciences will explore the development of collaborative grants to fund the exchange of graduate students between the U of C and Umeå.

The other Killam visiting scholar now in residence is *Dr. Koichiro Tsurudo*, Deputy Director, Institute of Space and Astronomical Science, and Full Professor within the Space Physics Group, ISAS. Dr. Tsurudo is being hosted by the U of C Department of Physics and Astronomy. As an internationally recognized leader in space and planetary science, and

a senior leader of the Japanese Space Science Program, Dr. Tsurudo has co-authored over 100 scientific publications and has played key leadership roles in several Japanese and international space science missions. During his visit, Dr. Tsurudo will collaborate on research into electric field fluctuations and plasma density structures in the polar ionosphere, and the development of a micro-satellite neutral particle. He will also give a series of lectures on Space Plasma Processes in Planetary Magnetospheres.

The U of C, again uniquely, also conducts a “Killam Resident Fellows” program. These fellowships are intended to recognize merit and research, teaching or public service, by providing scholars with the opportunity to complete a publication or research project free of teaching, administrative or other duties. This fall, there are seven Killam Resident Fellows, whose names are listed in the table at the back.

Again, uniquely at the U of C, the Department of Graduate Studies awards the Donald N. Byers Memorial Killam Prize to the student who has written the year’s best research proposal. The 2001 prize was shared by two recipients: *Cori Lausen*, Department of Biological Sciences, and *Arindom Sen*, Chemical and Petroleum Engineering.



THE CANADA COUNCIL FOR THE ARTS

The biggest piece of news from the Council’s Killam Program is the establishment of two new Killam Prizes, one in the Social Sciences and the other in the Humanities, discussed in more detail in the opening pages of this Report. The Trustees and the Council are hopeful that this extension of the range of endeavours eligible for Canada’s premier academic prizes

will quicken public interest in the Killam Prizes and, by extension, the Killam Program as a whole from coast to coast. In early September, the Council mailed 10,000 Killam Prize information pieces, with a letter soliciting nominations, to the senior administrators of all Canadian universities, previous Killam award winners from all the Killam institutions, and the media.

The Trustees warmly congratulate *Dr. Werner Kalow*, University of Toronto (Health Sciences); *Dr. Ronald Melzack*, McGill University (Natural Sciences); and *Dr. Norbert Morganstern*, University of Alberta (Engineering). As noted in the opening pages of this Report, these Killam Prize winners for 2001 were guests of honour at a Killam Awards Dinner held courtesy of Scotiabank in Toronto last June.

In addition to the Killam Prize Program, the Canada Council also conducts the Killam Research Fellowships Program. These Fellowships enable some of Canada's best scientists and scholars to devote up to two years to full time research and writing. The recipients are chosen by the Killam Selection Committee, which comprises 16 eminent scholars representing a broad range of disciplines. This year, after considering 110 applications from 25 universities, the Committee chose 17 new Fellows and renewed 19 others; their names are listed at the end of this Report.

The Canada Council produces statistics each year showing the breakdown of applications and awards by institution from 1968, when the Killam Research Fellowships were established, and from 1981, when the Killam Prizes were first awarded. The Trustees have in the past noted a certain amount of angst among some, particularly in Western Canada, over the success rates for their institutions. The Council's awards, like those of the other five Killam institutions, are based

strictly on merit, and the Killam Selection Committee members are drawn pretty well proportionately from across the country; this year, for example, seven of the 16 members are from Western Canadian universities. It would seem, therefore, that variations in success rates might best be accounted for by differing levels of effort exerted at the application stage. For this reason, the Council and the Trustees continually urge all of the Killam institutions, particularly those in the West, to make sure that the “brightest and the best” of their scholars apply for the Council’s Killam Research Fellowships, and are nominated for the Council’s Killam Prizes. Only in this way, we feel, can any perceived unfairness in relative success rates be eliminated in future.



DALHOUSIE UNIVERSITY

Dalhousie is fortunate enough to have Killam Programs under five headings. These include the usual Scholarship, Chairs, Salary and Endowment Funds, but unlike all the other institutions (except the Canada Council), Dalhousie was the beneficiary of a substantial gift made by Mrs. Killam during her lifetime. This fund, originally known as the Anonymous Donor’s Fund but now sailing under the more elegant name of the “Killam Memorial Research and Scholarship Fund”, allowed Dalhousie to make awards this year to 292 Canadian students in the fields of medicine, science and engineering. While not “Killam Scholars” in name, these students are chosen on merit and are eminently worthy beneficiaries of Mrs. Killam’s benefactions.

In the Predoctoral Scholarship category, Dalhousie awarded 26 new scholarships, while renewing 54 already on stipend, for a total of 80 Killam Scholars in 2001-2002. Of these,

almost half (37) hold external awards, including 34 NSERC and SSHRC awards. These figures are consistent with the previous year, when 40 of the 89 Killam Scholars held external awards.

Six new Killam Postdoctoral Fellowships were awarded this year, and six renewed for a second year.

Dalhousie has established five Killam Chairs, of which four are now occupied. The incumbents are *Dr. Ian Meinertzhagen*, Killam Chairholder in Neuroscience; *Dr. Rafiqul Islam*, Killam Chairholder in Petroleum Engineering; *Dr. Mary Anne White*, Killam Chairholder in Materials Science; and *Dr. Ransom Myers*, in Ocean Studies. A search is currently underway for a candidate to fill the Chair in Business Informatics.

Dalhousie also awards annually the Faculty of Science Killam Prize to enhance the career of a promising scientist who has obtained his or her doctorate within the past 11 years. The 2001 Faculty of Science Killam Prize winner is *Dr. Darcy Santor*, Psychology.

Currently, 12 faculty members hold Faculty of Science Killam Professorships, each for a term of five years. These awards recognize the outstanding research contributions of the faculty's most outstanding scientists.

This year, Dalhousie's annual Dorothy J. Killam Memorial Lectures focussed on the theme "Images of the Mind". The organizing committee, consisting of *Dr. Ian Meinertzhagen* and *Dr. Stephen Barnes* of the Departments of Neuroscience and Physiology/Biophysics respectively, arranged for three outstanding Lecturers: *Dr. Colin Blakemore*, Waynflete Professor of Physiology at Oxford ("Minds, Brains and Comput-

ers”); *Dr. Patrick Cavanagh*, Professor of Psychology at Harvard (“What Art Tells Us About the Brain”); and *Dr. Gerald Fischbach*, Professor of Pharmacology at the College of Physicians and Surgeons, Columbia University (“Brain Disorders: New Hope for the New Millennium”). The Lectures were the most successful ever in this long-standing series, each drawing audiences of over 800.

Dr. Jan C. T. Kwak was appointed on July 1 to a five year term as Dean of Graduate Studies, and *Margaret J. Wood* was appointed on November 4 as the Administrative Officer of the Faculty of Graduate Studies and Killam Administrator. We welcome them both!



MONTREAL NEUROLOGICAL INSTITUTE OF MCGILL UNIVERSITY

The Trustees, and representatives of all of the other Killam institutions, are very grateful to the MNI and its Interim Director, *Dr. Donald Baxter*, for hosting this year’s Killam Annual Lecture in such an efficient and enjoyable way. A full discussion of the Lecture, given this year by *Dr. John Evans*, appears elsewhere in this Report.

Thirteen professors and researchers at “the Neuro” receive funding from Killam resources. Unlike the Killam Program at the other universities, these scholars receive five year appointments, and are eligible for renewal.

Given the world-leading position of the MNI in both clinical activities and research related to neuroscience, it will come as no surprise to know that each of the MNI scholars is unquestionably a “star” in his or her field. But this year, we Killam

Trustees learned first hand that at least one Killam Scholar at the MNI is reaching out to the world beyond the university. *Dr. C. J. Thompson*, who is involved with instrumentation for positron emission tomography (PET), recently designed and tested a new technique for shielding PET scanners like the one at the MNI. Dr. Thompson has decided to commercialize this concept, under the name “NeuroShield”, which has now been registered as a trademark. He has formed a company, “Scanwell Systems”, to build and sell these devices, has applied for a patent, and has sold four so far.

As we learned from Dr. Evans’ lecture, commercialization of intellectual property will more and more be the norm for many researchers, who up until now have often confined their activities to the university laboratory bench. As Dr. Evans noted, moving in this direction is not only good for Canada’s economic future, but also goes a long way toward fulfilling our Canadian universities’ obligation under the “Public Research Contract” to give something tangible back to society, in exchange for the large and growing amounts of public monies which are annually invested in their research activities.



We say “goodbye” this year to two Deans of Graduate Studies, *Dr. John Rutherford* at Dalhousie and *Dr. Jim Frideres* at U of C, both of whom had served in an interim capacity.

This is the right time to say, to our two retiring Deans and indeed to all who have served the Killam cause over the past year, a deeply felt “thank you” for all that you have done. Your work — particularly that of the members of the Killam Scholarship Committees, who read literally hundreds of dossiers in pursuit of the “brightest and the best” — is exhilarating, to be sure. But it is also heavy and time consuming work, and without it there literally could be no Killam Program. As Trustees, we are profoundly grateful.



We close by wishing all members of the “Killam family of scholars”, now almost 5,000 strong, very best wishes for the holidays and a happy and successful 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

KILLAM AWARD WINNERS

2001

LISTED BY INSTITUTION

UNIVERSITY OF ALBERTA

Killam Predoctoral Scholars

New Scholars

Ardelean, Elena-Simona; Chemistry
Barranoik, Lois; Elementary Education
Chen, Rui; Chemistry
Chovanec, Donna; Educational Policy Studies
Davis, Caroline; Human Ecology
Fairey, Adrian; Physical Education and Recreation
Fouli, Hesham; Civil and Environmental Engineering
Garneau, Sylvie; Chemistry
Gerhardt, Ernst; English
Ilie, Monica; Mathematical and Statistical Sciences
Holzman, Jonathan; Electrical and Computer Engineering**
Jeon, Yong Kwan; Physical Education and Recreation
Kennedy, Scott; Electrical and Computer Engineering**
Koper, Nicola; Renewable Resources**
Lafreniere, Melissa; Earth and Atmospheric Sciences
Larsen, Kimberly; English
Leuangthong, Oy; Civil and Environmental Engineering
Liu, Minnan; Civil and Environmental Engineering
Ma, David Won Lung; Medical Sciences
Midgley, H. Peter; English**
Mollel, Tololwa; English
Patient, Aida; English**
Pooler, Charlotte; Nursing
Powell, George; Agricultural, Food and Nutritional Science
Turetsky, Merritt Rae; Biological Sciences
White, Dustin; Anthropology
Youssef, Maisaa; English**

** 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.

Renewal Scholars

Abbott, Marilyn; Educational Psychology**
Anisca, Razvan; Mathematical and Statistical Sciences
Aporta, Claudio; Anthropology
Baxter, Christopher; Civil and Environmental Engineering
Elkateb, Tamer Mohamed; Civil and Environmental Engineering
Healy, Daniel; Civil and Environmental Engineering
Huang, Rong; Mathematical Sciences
Karsten, Irene; Human Ecology
Klein, Jennifer; Rehab Medicine
Leblanc, Sylvie; Anthropology
Litowski, Jennifer; Biochemistry
McAdam, Andrew; Biological Sciences
Naidoo, Robin; Biological Sciences
Ronacher, Elisabeth; Earth and Atmospheric Sciences
Spokiene, Diana; Modern Languages and Cultural Studies
Tan, Hwee-Cheng; Business-Ph.D.
White, Gerald; Comparative Literature, Religion and Film/Media Studies
Wohlleben, Trudy; Earth and Atmospheric Sciences
Xenopoulos, Marguerite; Biological Sciences
Zayaryuk, Andriy; History and Classics

Killam Postdoctoral Fellows

New Fellows

Barton , Karin; Modern Languages and Cultural Studies
Chen, Xiaobei; Political Science
Dufour, Jannette; Surgery**
Fairhurst, Stephen; Physics
Reeve, Jeff; Medical Genetics
Spiers, Judith; Nursing**
Stojkovic, Dejan; Physics
Wiebe, Christopher; Chemistry

Renewal Fellows

Cerda-Reverter, Jose; Biological Sciences
Maciszewski, Amelia; Music
MacPherson, Sonia; Secondary Education
Simpson, Christy Ann; Educational Psychology
Willows, Noreen; Agricultural, Food and Nutrition Sciences**

Killam Annual Professors

Belosevic, Miodrag; Biological Sciences
Cheng, J.J. Roger; Civil and Environmental Engineering
Courneya, Kerry; Physical Education and Recreation
Greenwood, Royston; Strategic Management and Organization
Himka, John-Paul; History and Classics

Naeth, M. Anne; Renewable Resources
Nandakumar, Kumar; Chemical and Materials Engineering
Priestly, Tom; Modern Languages and Cultural Studies

Killam Chairholders

Frolov, Valery; Physics
Schindler, David; Biological Sciences

THE UNIVERSITY OF BRITISH COLUMBIA

Killam Predoctoral Scholars

New Scholars

Adesanmi, Pius; French and Hispanic Studies
Brodsky, Alex; Computer Science
Brotto Fontana, Lori; Psychology
Browne, Annette; Nursing**
Mountz, Alison; Geography
Ormerod, Brandi; Neuroscience**
Park, Kirily; Pathology and Laboratory Medicine
Pretorius, Frans; Physics and Astronomy
Shaver, Michael; Chemistry**

Renewal Scholars

Ashworth, Laurence; Commerce
Barnes, Steven; Psychology**
Bouffard, Sylvie; Metals and Materials Engineering
Brashares, Justin; Forestry
Cheng, Benjamin; Medical Genetics**
Coelli, Michael; Economics
Cooper, Barry; Psychology**
Cooper, Karen; Interdisciplinary
Daniel, Chris; Civil Engineering
De Wekker, Stephan; Earth and Ocean Sciences
DiMaio, Simon; Electrical and Computer Engineering
Du, Yaxiong; Music
Farish, Matthew; Geography**
Fudge, Douglas; Zoology
Gessner, Suzanne; Linguistics**
Grant, Nathalie; French, Hispanic and Italian Studies**
Hahn, Mari; Music
Newman, Shelley; English**
Osinubi, Taiwo Adetunji; Comparative Literature
Pospisilik, John; Physiology**

Pot, Isabelle; Biochemistry and Molecular Biology**
Ryder, Andrew; Psychology**
Schleicher, Christoph; Economics
Senbel, Maged; Community and Regional Planning**
Todgham, Anne; Animal Science**
Vouloumanos, Athena; Neuroscience**
Wanner, Kevin; Plant Science
Webster, David; History
Yong, Paul; Experimental Medicine**

Killam Postdoctoral Fellows

New Fellows

Archibald, John; Molecular Biology**
Karels, Tim; Ecology**
Policzer, Pablo; Political Science
Reid, Jane; Zoology

Renewal Fellows

Billings, Stephen; Earth and Ocean Sciences
D'Angiulli, Amedeo; Educational and Counselling Psychology and Special Education**
Dhakal, Amod; Forest Resources Management
Evasdottir, Erika; Women's Studies and Gender Relations
Jangra, Urmila Deo; Chemistry
Mahtani, Minelle; Geography
Narine, Shaun; International Relations
Patterson-Kane, Emily; Agricultural Sciences
Pedroni, Luigi; Classical, Near Eastern and Religious Studies
Plesner, Annette; Pathology and Laboratory Medicine
Soto-Faraco, Salvador; Psychology
Vallance, Bruce; Biotechnology Laboratory**

Killam Faculty Research Fellows

Currie, Dawn; Anthropology and Sociology
Ford, Caroline; History
Gregory, Derek; Geography
Gustafson, Paul; Statistics
Hall, Geoffrey; Psychology
Jeffries, Wilfrid; Microbiology and Immunology
King, Julian; Asian Studies
McKenna, Janis; Physics and Astronomy
Mosoff, Judith; Law
Scott, Douglas; Physics and Astronomy

Killam Faculty Research Prize Winners

Eich, Eric; Psychology
Hall, David; Psychology
Kirkpatrick, David; Computer Science
Mackworth, Alan; Computer Science
O'Brian, John; Fine Arts
Piret, James; Chemical Engineering
Sullivan, Shirley; Classical, Near Eastern and Religious Studies
Weinberg, Joanne; Anatomy
Wynn, Graeme; Geography
Zidek, James; Statistics

Killam Teaching Prize Winners

Anderson, Ann; Curriculum Studies
Angeles, Leonora; Community and Regional Planning
Carefoot, Thomas; Zoology
Eccott, Lynda; Pharmacy Practice
Echard, Siân; English
Edinger, Harry; Classical, Near Eastern and Religious Studies
Ellis, Shona; Botany
Grimm, Kurt; Earth and Ocean Sciences
Kennedy, Lori; Earth and Ocean Sciences
Kozak, Robert; Wood Science
Meadowcroft, Ray; Metals and Materials Engineering
Linde, Mari-Ann; Commerce and Business Administration
Lui, Harvey; Dermatology
McKee, William; Educational and Counselling Psychology and Special Education
Page, Gordon; Educational Support and Development
Pearson, Anthony; Physiology
Richardson, Alan; Philosophy
Ryan, Maureen; Fine Arts
Salzberg, Stephan; Law
Scott, Anne; French, Hispanic and Italian Studies
Thorne, Sally; Nursing
Upadhyaya, Mahesh; Agroecology
Walton, Joanne; Oral Health Sciences

THE UNIVERSITY OF CALGARY

Killam Predoctoral Scholars

New Scholars

Cargan, Emily; English
Cook, Margaret; History**
Fotopoulos, Georgia; Geomatics Engineering**
Lackenbauer, P. Whitney; History**
Lausen, Cori; Biological Sciences**
Musiani, Marco; Environmental Design**
Saj, Tania; Anthropology
Seel, Kevin; Geography
Sen, Arindom; Electrical and Computer Engineering
Spasov, Miroslav; Music
Woolcott, Christy; Community Health Sciences**

Renewal Scholars

Bergen, David; Religious Studies**
Bisson, Sabine; Biochemistry and Molecular Biology**
Blackwell, James; Chemistry
Ceci, Christine; Nursing
Fehr, Joy; English
Froese, Duane; Geography**
Noureldin, Aboelmagd; Electrical and Computer Engineering
Ormond, Wayne; Psychology
Radovanovic, Robert; Geomatics Engineering**
Zajchowski, Laura; Biochemistry and Molecular Biology**
Zender, Marc; Archaeology

Killam Postdoctoral Fellows

Sneddon, Andrew; Philosophy

Killam Visiting Scholars

Persson, Lennart; Biological Sciences
Tsurudo, Koichiro; Physics and Astronomy

Killam Resident Fellows

Archer, Christon; History
Brannigan, Augustine; Sociology
Cleve, Richard; Computer Science
Hebert, Yvonne; Education
Jardine, David; Education

Mash, Eric; Psychology
Michaud, Genevieve; History
Rasporich, Beverly; Communication and Culture
Smart, Josephine; Anthropology
Sutherland, Christine; Communication and Culture
Thomlinson, Elizabeth; Nursing

The Donald N. Byers Memorial Killam Prize Winner

Lausen, Cori; Biological Sciences**
Sen, Arindom; Electrical and Computer Engineering

Killam Chairholders

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

THE CANADA COUNCIL

Killam Research Fellows

New Fellows

Barnes, Timothy; Classics - University of Toronto
Bialystok, Ellen; Psychology - York University
Clarke, Garry; Earth and Ocean Sciences - University of British Columbia
Egan, Kieran; Education - Simon Fraser University
Fournier, Marcel; Sociology - Université de Montréal
Green, Beverley; Botany - University of British Columbia
Hipel, Keith; Systems Design Engineering - University of Waterloo
Jackson, Heather; English Literature - University of Toronto
L'Ecuyer, Pierre; Computer Science - Université de Montréal
Lederman, Susan; Psychology - Queen's University
Li, Ming; Computer Science - University of Waterloo
Mason, Steve; Classics and Religious Studies - York University
Ono, Hiroshi; Psychology - York University
Poplack, Shana; Linguistics - Université d'Ottawa
Richer, Harvey; Astronomy - University of British Columbia
Schoen, Daniel; Biology - McGill University
Tidwell, Thomas; Organic Chemistry - University of Toronto

Renewal Fellows

Bodéüs, Richard; Philosophy - Université de Montréal
Boulad-Ayoub, Josiane; Philosophy - Université du Québec à Montréal
Courville, Serge; Geography - Université Laval
Davies, Peter; Biochemistry - Queen's University

Guthrie, Peter; Chemistry - University of Western Ontario
Kinderman, William; Music - University of Victoria
Kwok, Sun; Physics and Astronomy - University of Calgary
Lever, A.B.P.; Chemistry - York University
Milman, Pierre; Mathematics - University of Toronto
Oleson, John; Archaeology - University of Victoria
Perry, Steve; Biology - University of Ottawa
Robson, Arthur; Economics - University of Western Ontario
Selvadurai, A.P.S.; Civil Engineering and Applied Mechanics - McGill University
Snieckus, Victor; Chemistry - Queen's University
Villeneuve, Paul; Aménagement - Université Laval
Waddams, Stephen; Law - University of Toronto
Winston, Mark; Biological Sciences - Simon Fraser University
Worsley, Keith; Mathematics and Statistics - McGill University
Yates, Robin; History and East Asian Studies - McGill University

Killam Prize Winners

Kalow, Werner (Health Sciences); Pharmacology - University of Toronto
Melzack, Ronald (Natural Sciences); Psychology - McGill University
Morgenstern, Norbert (Engineering); Civil and Environmental Engineering -
University of Alberta

DALHOUSIE UNIVERSITY

Killam Predoctoral Scholars

New Scholars

Bahr, Peter; Philosophy**
Birch, Cheryl; Psychology**
Brown, Ralph; History**
Brunk, Darren; Political Science
DiSanto, Michael; English
Garon, Nancy; Psychology**
Goble, Erika; Sociology and Social Anthropology
Gregus, Andrea; Psychology**
Howse, Samuel; Computer Science**
Hughes, Elizabeth; Law
Koffman, Jordan; Philosophy
Lafond, Matthew; Psychology
Leitch, Roderick; English**
Liu, Rongzong; Biology
Lizama-Riveroll, Angela; Microbiology and Immunology**
MacInnes, W. Joseph; Interdisciplinary Studies**
Mitchell, David; English

Nickerson, Adam; Computer Science**
O'Neill, Seamus; Classics
Osimani, Barbara; German
Peng, Yiran; Physics
Poetzsch, Markus; English
Punshon, Stephen; Oceanography
Tan, Ernest; Pharmacology**
Woodrow, Jennifer; Philosophy**
You, Mingli; Electrical Engineering

Renewal Scholars

Barnett, Audrey; Oceanography
Bejder, Lars; Biology**
Bennett, Evelyn; English**
Boehnke, Susan; Psychology
Brown, Catherine; Oceanography
Bryce, David; Chemistry**
Butler, Beverly; Psychology
Campbell, Mary Ann; Psychology**
Carr, Amy; Psychology**
Chen, Yu; Anatomy and Neurobiology
Chiasson, Theodore; Computer Science
Clarke, Nancy; Mathematics**
Corbett-Sampson, Natalie; Human Communication Disorders
Dawe, Sandra; Microbiology and Immunology**
DeVanthey, Lorraine; Classics
DiStefano, Nina; Political Science
Ellery, Michael; Psychology**
Emsley, Sarah; English**
Haeryfar, Mansour; Microbiology and Immunology**
Hancock, Jeff; Psychology**
Harley, Shelton; Biology
Ibhawoh, Bonny; History
Kallel, Raoudha; French
Kennedy, Catherine; Chemistry**
Lafferty, Renee; History**
Lapr e, Claude; Sociology and Social Anthropology**
Lau, Ka Wai Helen; Oceanography
Laycock, Anitra; Classics**
Lee, Felix; Chemistry**
Livadaru, Lucian; Physics
MacLaren, Douglas; Chemistry**
Mastnak, Mitja; Mathematics
Mitchell, John; English**
Mgbeoji, Ikechi; Law
Musgrave, Bruce; Microbiology and Immunology
O'Donnell, Allyson; Biochemistry**
Rendell, Luke; Biology
Robinson, Matthew; Classics
Rot-Nikcevic, Irena; Anatomy and Neurobiology**

Ruyak, Margaret; Psychology
Sharma, Mukesh; Biology
Shi, Chanjuan; Pharmacology
Slagstad, Trond; Earth Sciences**
Sparkes, Sandra; Psychology
Spinney, Heather; Chemistry**
St.-Maurice, Martin; Biochemistry**
Wang, Jingtian; Psychology
Wang, Rong; Mathematics
Wasik, Adrienne; Sociology and Social Anthropology
Webber, Jonathan; Chemical Engineering**
Whittle, Carrie-Ann; Biology
Wilson, Garnett; Computer Science**
Yahaghi, Reza; Mathematics
Zhang, Xuguang; Electrical and Computer Engineering

Killam Postdoctoral Fellows

New Fellows

Bac, Murat; Philosophy
Bracher, Christian; Physics
Douady, Christophe; Biochemistry and Molecular Biology
Iziomon, Moses; Physics
Stan, Lavinia; Political Science
Wu, Zhi Jian; Chemistry

Renewal Fellows

Fabian-Fine, Ruth; Psychology
Falcon-Lang, Howard; Earth Science
Iakovlev, Serguei; Engineering Mathematics
Richstein, Jörg; Mathematics and Statistics
Sylvain, Renee; Sociology and Social Anthropology**
Zhan, Bi-Zeng; Chemistry

Faculty of Science Killam Professors

Bowen, Anthony; Oceanography
Boyd, Russ; Chemistry
Burford, Neil; Chemistry
Chatt, Amares; Chemistry
Coley, Alan; Mathematics
Cullen, John; Oceanography
Dunlap, Richard; Physics
Jamieson, Rebecca; Earth Sciences
Klein, Ray; Psychology
McGrath, Patrick; Psychology
Santor, Darcy; Psychology
Whitehead, Hal; Biology

Faculty of Science Killam Prize Winner

Santor, Darcy; Psychology

Killam Chairholders

Islam, Rafiqul; Civil Engineering

Meinertzhagen, Ian; Psychology

Myers, Ransom; Ocean Studies

White, Mary Anne; Chemistry; Physics

MONTREAL NEUROLOGICAL INSTITUTE

Killam Scholars

Alonso, Angel

Arnold, Douglas

Barker, Philip

Durham, Heather

Guitton, Daniel

Hastings, Kenneth

Holland, Paul

Miller, Freda

Pike, Bruce

Sadikot, Abbas

Shoubridge, Eric

Stifani, Stefano

Thompson, Christopher

Killam Prize Winner

Duval, Christian

Killam Professor

Wolfe, Leonhard

Dorothy J. Killam Professor

Milner, Brenda

Killam Chairholder

Karpati, George