



35TH ANNIVERSARY

1967 TO 2002



UNIVERSITY OF
ALBERTA

EDMONTON, ALBERTA, CANADA



TABLE OF CONTENTS

2	PREFACE AND ACKNOWLEDGEMENTS
5	CONGRATULATIONS!
6	THIRTY-FIVE YEARS OF KILLAM GRANTS
10	KILLAM FUNDS AT THE UNIVERSITY OF ALBERTA
11	THE IMPORTANCE AND VALUE OF KILLAM AWARDS
12	OTHER CANADIAN KILLAM PROGRAMS
14	ORGANIZATION OF KILLAM TRUSTS COMMITTEES
	UNIVERSITY OF ALBERTA KILLAM...
15	TRUSTS COMMITTEE
16	SCHOLARSHIP COMMITTEE
17	MEMORIAL CHAIRS SELECTION COMMITTEE
17	TRUSTS FINANCE COMMITTEE
18	ANNUAL PROFESSORSHIPS COMMITTEE
19	MEMORIAL CHAIRS
20	MEMORIAL SCHOLARS
28	MEMORIAL POSTDOCTORAL FELLOWS
30	FRENCH EXCHANGE SCHOLARSHIP
32	UNIVERSITY OF ALBERTA KILLAM ANNUAL PROFESSORS, 2002-2003
40	UNIVERSITY OF ALBERTA DISTINGUISHED "KILLAM FACULTY"
40	UNIVERSITY OF ALBERTA WINNERS OF CANADA COUNCIL KILLAM PRIZES
42	UNIVERSITY OF ALBERTA KILLAM MEMORIAL CHAIRS
44	UNIVERSITY OF ALBERTA CANADA COUNCIL KILLAM RESEARCH FELLOWS
48	NATIONAL KILLAM ACTIVITIES
48	KILLAM TRUSTS OFFICE
48	KILLAM ANNUAL CONFERENCE
48	CAMPUS MEETINGS
48	ANNUAL KILLAM LECTURES



PREFACE AND ACKNOWLEDGEMENTS

THE UNIVERSITY OF ALBERTA ACKNOWLEDGES with gratitude the invaluable financial assistance that the Killam Trust has provided to the university and its doctoral scholars, postdoctoral fellows, and professors over the past 35 years. Without this assistance, many of our aspiring academics would have had difficulty in undertaking their programs and the University's operating revenues would have been seriously reduced. Since 1967, the Killam Bequest has provided \$60 million to fund Scholars, Fellows, and faculty members.

We also are grateful to those who have served as Killam Trustees since the Killam Trust was established in 1967, the year of Canada's Centenary. I must especially thank the current Trustees with whom I have worked since I became Chair of the University of Alberta Killam Trusts Committee in 1998: George T H Cooper, QC, Managing Trustee of the Killam Trusts, (appointed as a Trustee in 1983); John H Matthews (1981); M Ann McCaig, LLD, (1993), Chancellor Emeritus, The University of Calgary; and W Robert Wyman, LLD, (1987), Chancellor Emeritus, The University of British Columbia. They have been extremely supportive of our efforts, cordial in our relationships, very helpful in making suggestions for improvement of our procedures, and have worked tirelessly to promote the Killam programs and to establish firm bonds with the Canada Council and the five Canadian universities that received Killam bequests.

The work of former Killam Trustees must also be acknowledged: Donald Byers, QC, (Managing Trustee, 1965 to 1993; and Honourary Trustee, 1993 to 1995); Major-General the Honourable E C Plow, CBE, DSO, CD (1965 to 1983), former

Lieutenant-Governor of Nova Scotia; G Arnold Hart, CM (1965 to 1981), former Chairman and Chief Executive Officer of the Bank of Montreal; and Conrad F Harrington, CM (1965 to 1987), former Chancellor of McGill University; as well as their Academic Advisor, Dr Albert W Trueman, OC, the first Director of the Canada Council. Mr Byers, who worked closely with Mrs Killam in preparation of her will, was a major figure in the first 25 years of Killam programs at the University of Alberta. As the Trustees stated in the Killam Trusts *Annual Report 1993*, "Quite simply, without Mr Byers there would have been no Killam Trusts." He was constantly supported in Killam endeavours by his wife Anne.

The U of A Killam programs could not have enjoyed their acknowledged level of success without the dedicated work of the many members of our Killam Trust Committees. These Committees have been ably supported by their administrative/support staff. Larry Henderson and Ron Chilibeck performed outstanding service as Secretaries of the U of A Killam Scholarship Committee for 1967 to 1984 and 1984 to 1991, respectively, when that Committee was in charge of most Killam activities on campus. Lynne Blair took over as its Secretary in 1991 and has been highly effective for over ten years. Marion Haggarty-France, Dr Katharine Moore, Chris Ashdown, Annette Kujda, and Kally Basra have been particularly valuable in more recent years with other Killam committees.

Many other U of A staff members have worked hard to ensure that our Killam operations have been successful. In this regard I must identify the Deans and Acting Deans of the Faculty of Graduate Studies and Research: Dr Arthur McCalla, Dr Henry Kreisel, Dr John McGregor, Dr John Forster, Dr Stuart Woods, Dr Fu-Shiang Chia, Dr Stephen Arnold,



John H Matthews
Killam Trustee, 1981—



M Ann McCaig
Killam Trustee, 1993—



W Robert Wyman
Killam Trustee, 1987—



Albert W. Trueman
Former Academic Advisor
to the Killam Trustees

Dr Tony Kernahan, Dr Murray Gray, and Dr Mark Dale. Their time-consuming commitments to management of the Advanced Studies Program, which funds Killam Doctoral Scholarships and Killam Postdoctoral Fellowships, have been crucial to the success of the Killam program at the University of Alberta.

University Presidents and Vice-Presidents also have provided invaluable assistance and support. For example, Dr Myer Horowitz, when President, established the Killam Trusts Committee in 1989 and appointed Dr Allan Warrack, Vice-President (Administration), as Chair. Dr Warrack, together with Dr Fu-Shiang Chia, was instrumental in developing new spending and investment guidelines for the Killam Trusts designed to protect its buying power against inflation, thereby ensuring a proper balance between current and future generations of scholars. Glenn Harris, Vice-President (Finance and Administration), ably chaired the reorganized Killam Trust Committee from 1991 to 1998. The Vice Presidents (Research) – Drs Bob James, Martha Piper, Roger Smith, and Gary Kachanoski – have chaired the important Killam Annual Professorships Committee since 1991 and willingly put in the time needed for adjudication. Our Killam Finance Committee has been effectively chaired by Nazim Merali since it was reorganized in 1998. He was assisted by Ron Ritter who has had the demanding overall responsibility for financial accounting related to the Killam Trusts.

I wish to thank the members of the U of A Killam 35th Anniversary Committee – Dr Art Quinney (Chair), Kally Basra, Dr David Chanasyk, Dr Mark Dale, Marion Haggarty-France, Dr Ted Holdaway, Dr Katharine Moore, and Barb O’neil – for their work in planning that this important occasion be appropriately commemorated.

Dr Rowland McMaster kindly provided a 35-year history of Killam funding at the University of Alberta as well as interesting information about and insights into the lives of Izaak Walton Killam and Dorothy Johnston Killam. Fifteen years ago, as part of our Killam 20th anniversary celebration, Dr McMaster was responsible for producing several important articles describing the first 20 years of Killam funding and programs. Geoff McMaster, Dennis Weber, Richard Siemens, Brenda Briggs, Karin Fodor, Juliane Betke, Phyllis Baker, Heather Hogg, Janna Isabelle, Renee Polzioehn, and Bonar McCallum provided the creative and technical assistance necessary to produce this booklet and the event itself. We are sure that the historical and operational information that the booklet contains will be of interest to many readers.

Finally, we are extremely grateful to the speakers at our 35th Anniversary Celebration – Dr Jonathan Schaeffer, Dr M Ann McCaig, Dr Valeri Frolov, and Dr Susan Hannon – and to the Killam Scholars and Fellows who volunteered to discuss their research at the Poster Sessions.

Douglas R Owram

PROVOST AND VICE-PRESIDENT (ACADEMIC)
CHAIR, U OF A KILLAM TRUSTS COMMITTEE



Dr Doug Owram, Chair,
Killam Trusts Committee
1998—2002



Dr Art Quinney, Chair
Killam 35th
Anniversary Committee



TRIBUTE TO DONALD NEWTON BYERS, QC

The tribute printed below has been reprinted, in part, from The Killam Trusts *Annual Report 1995*. This Report stated that Donald’s wife Anne “was his constant companion and helper in the Killam cause...”

The “Killam family” lost its *paterfamilias* and best friend in March this past year. Donald Newton Byers, QC, was Mrs Killam’s personal solicitor and confidant during the decade following her husband’s death in 1955. It was he who took the ideas Mr and Mrs Killam had discussed during their joint lifetimes, and carefully crafted them over many years and through much trial and error into the masterpiece that became Mrs Killam’s will. This is the document that has guided the Killam Program since the beginning and will do so forever.

After Mrs Killam’s death in 1965, Donald Byers, as Managing Trustee of her estate, threw himself with industry and great skill into the task of getting the Killam Scholarships and their supporting endowments up and running. And then, as leader of the Trustee’s team, he carefully watched over the Killam Program until retiring as a Trustee just two years ago, while maintaining his Killam connection as Honourary Trustee.

Donald Byers loved nothing more than to meet and talk with each year’s crop of new Killam Scholars at the annual dinners given in their honour at each Killam University. The pleasure he took from seeing how well the Killam dream had taken on flesh knew no bounds. He would often say in later years, with a quiet sense of pride and satisfaction, “Well, it has worked. Mrs Killam would have approved.”

Donald Byers was a kind and gentle man, a man of profound learning and deep humility, a man of simple tastes and great civility. All who came to know him – and there were thousands in the “Killam family” alone – held him in great affection. He was truly the heart and soul of the Killam Program.



Donald Newton Byers, QC
1912—1995
Managing Killam Trustee, 1965—1993
Honourary Killam Trustee, 1993—1995

Anne Byers

CONGRATULATIONS!



Izaak Walton Killam and Dorothy Killam had the foresight to establish the Killam Trusts to encourage both advanced study and internationalization. The University of Alberta is committed to both of these endeavors and therefore I salute their vision and congratulate the over 600 Doctoral Scholars and Postdoctoral Fellows that have benefited from the Killam's dedication to the scholastic attainments of Canadians.

In honor of the 35th Anniversary of the Killam bequest, I am privileged to acknowledge the invaluable impact such a contribution has had on intellectual life at the University of Alberta.

Roderick Fraser, PhD

PRESIDENT AND VICE-CHANCELLOR,
UNIVERSITY OF ALBERTA



On behalf of the Board of Governors of the University of Alberta, I wish to congratulate the University on the occasion of the 35th Anniversary of its Killam bequest. Our Doctoral Scholars, Postdoctoral Fellows, Killam Memorial Chairs, Killam Annual Professors, and members of Killam Committees have brought honour to the Killam name. Izaak Walton Killam and Dorothy Johnston Killam showed remarkable vision in using their wealth to benefit outstanding scholars at five Canadian universities.

The Board of Governors is very proud to be associated with all of our Killam activities.

The Honourable James S Edwards, PC
CHAIR, BOARD OF GOVERNORS



The Trustees of the Killam Trusts applaud the University of Alberta on its initiative in holding this Anniversary Celebration of the establishment of the Killam Trusts.

It is 35 years since Dorothy Johnston Killam's magnificent gift to the U of A (and to four other Canadian universities and the Canada Council for the Arts) began to work its magic. Her foresight, and that of her financier husband, Izaak Walton Killam, helped to transform graduate and post-graduate work at these institutions, and today U of A is one of Canada's leading research universities.

In marking this milestone the "Killam team" at the U of A has put a bright spotlight on Mrs Killam's dream of building Canada's future through advanced education. Congratulations!

George Cooper, QC

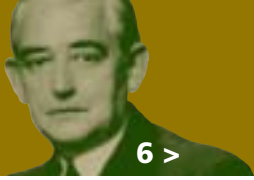
MANAGING TRUSTEE OF
THE KILLAM TRUSTS, 1993 TO PRESENT



On behalf of the Graduate Students' Association, and all graduate students past, present, and future who received, or will receive, a Killam Doctoral Scholarship or Postdoctoral Fellowship, I would like to thank the Killam Trusts for 35 wonderful years. The vision of Dorothy Killam to help build Canada's future through the support of advanced study is even more important today as Canada strives to advance and succeed in the global knowledge economy. Nearly 700 Doctoral Scholars and Postdoctoral Fellows have benefited from the Killam Trusts at our university, all of whom met and exceeded the criteria of excellence. The generous support of the Killams all those years ago have helped to make the University of Alberta one of Canada's best institutions for advanced studies. Congratulations on 35 wonderful years.

Brad Wuetherick

PRESIDENT, GRADUATE STUDENTS'
ASSOCIATION



THIRTY-FIVE YEARS OF KILLAM GRANTS

ONE HUNDRED AND twenty-five million dollars, even today, is a tidy sum. But as applied to education and research, it is a sum that even governments might congratulate themselves on providing, were they so inclined (to provide it, that is, not to congratulate themselves). As the gift of one family, it is the sort of thing we associate with Rhodes or Carnegie, whose alien generosity has supported many Canadian students. Canadians – perhaps it is the legacy of our Scottish bankers and canny fur traders – have been less remarkable as individual benefactors, at least on that grand scale. And in a period when foreign students here as abroad must pay higher fees than nationals of the host country, to provide such large support without nationalistic strings attached is again a sign of generous enlightenment. The gift is exceptional, the terms magnanimous, and the aim, unambiguously, excellence.

The bequest to which I refer, and whose thirty-fifth anniversary we in the University of Alberta have special reason to celebrate this year, is that of Dorothy Johnston Killam, widow of Izaak Walton Killam. In her own words:

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.

Precisely stated, nobly accomplished, and still accomplishing.

This academic year marks the second celebration of the Killam program's operation on campus. In 1987-88, our twentieth-year celebrations included a speech by John Polanyi, CC, winner of the Nobel Prize for Chemistry in 1986 and the Izaak Walton Killam Memorial Prize in 1988, on the obligations of the scientist to society. Dr Ted Holdaway chaired the Organizing Committee for the twentieth-year celebrations, and Dr Gordon Harvey prepared the twentieth-year anniversary booklet entitled *Killam Trusts*. In 2002-03, we celebrate the program's thirty-fifth year with several events on campus, including lectures, poster sessions presented by Killam Scholars and Fellows, social gatherings, and distribution of this booklet.

Dorothy Killam died in 1965, and her will, implementing plans she had discussed often with her husband, gave funds in trust to Dalhousie University (Izaak was a Maritimer, born at Yarmouth, Nova Scotia), the Montreal Neurological Institute of McGill University (a relative's multiple sclerosis aroused his interest in the Institute, and one of its doctors became Mrs Killam's physician), The University of British Columbia (Killam's corporation, Royal Securities, had a pulp and paper company in BC), the University of Alberta (Royal Securities owned Calgary Power), and the Canada Council for the Arts. Our own university in 1966, in the single largest endowment ever to a post-secondary institution in Alberta, received \$14 million, distributed in these particular categories: a Killam Chairs Fund "to establish at least two Chairs at the University of Alberta in the scientific and/or engineering fields" (\$2 million); a Killam Memorial Salary Fund "to pay salaries of its permanent teaching staff" (\$4 million); an Izaak Walton Killam Memorial Fund for Advanced Studies "to provide fellowships ... for advanced

study or research ... both in Canada and in other countries" (\$3 million); and General Endowment Funds providing income to be used "for such purposes as may be determined by its [the University's] governing body" (\$5 million). Subsequently, the Board of Governors of both the University of Alberta and The University of Calgary agreed that one third of the "net corpus of the trusts" would go to Calgary. The total value of Killam Endowments at all six Canadian Killam institutions is now about \$400 million, approximately the value of the Rhodes Trust.

Killam Memorial Chairs are permanent academic Chairs held by scholars of the highest distinction. The current Killam Memorial Chairs are held by Dr Valeri Frolov, Professor of Physics, appointed in 1993, and Dr David Schindler, Professor of Ecology, appointed in 1989. Previous Killam Memorial Chairs were held by Dr Jack Jacobs, Professor of Science (Physics, 1967 to 1974); Dr Harry Gunning OC, Professor of Chemistry (1968 to 1982); Dr Hiroomi Umezawa, Professor of Physics (1975 to 1992); and Dr Terrence Caelli, Professor of Psychology (1982 to 1988).

Killam Annual Professorships, introduced in 1991, are awarded to distinguished faculty currently on campus in various departments. The adjudication process takes into account each candidate's activity in all three areas of research, teaching and community service. Up to eight Annual Professorships are awarded every year.

The scholarship portion of the endowment has enabled the university to attract distinguished students from all over Canada and the world in accordance with Mrs Killam's intention to help "in the building of Canada's future by encouraging advanced study." For 2002-2003, 20 Killam Doctoral Scholarships, seven

Honorary Killam Doctoral Scholarships, eight Killam Postdoctoral Fellowships, and one Honorary Killam Postdoctoral Fellowship were awarded. The totals to date since 1967 are 388 Killam Doctoral Scholarships, 114 Honorary Killam Doctoral Scholarships, 175 Killam Postdoctoral Fellowships, and 16 Honorary Killam Postdoctoral Fellowships. Past Killam Scholars now hold important positions throughout the world in education, government and business. At whatever level, the criterion for selecting Killam Scholars is excellence. They are the best.

Also, since 1969, Killam French Exchange Scholarships have been awarded, funded by the Killam General Endowment Fund. Details of this program are provided later in this booklet.

Our 20th Anniversary Booklet provided information on seven Canada Research Fellows – Dr Pamela Asquith, Dr Desmond Brown, Dr George Lang, Dr Patricia Rooke, Dr William Smythe, Dr Connie Varnhagen, and Dr Pamela Willoughby. The Canada Research Fellows Program was funded equally by the Killam Trusts and the Social Sciences and Humanities Research Council. Fellows were recent doctoral graduates who received support at the University of Alberta for a minimum of three years. The program was designed at that time to improve career opportunities for promising scholars and to increase the pool of highly qualified researchers and teachers in Canada.

Since 1967, the University of Alberta Killam funds have provided about \$60 million in support of our Killam activities related to Chairs, Scholars, Fellows, Annual Professors, and faculty – a huge amount that dramatically demonstrates the benefit that the Killam bequest has conferred on our University.

In 2001, the Killam Trustees were surprised to learn that two Killam Trusts existed in the US – the Constance Killam Trust and the Elizabeth Killam Rodgers Trust. Izaak Walton Killam had given one million dollars US to each of his two sisters some time before his death in 1955. The sisters' estates were also left to charity, and today the two US Killam Trusts are worth \$15 million US. "While the US 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." About \$750 thousand US is available for distribution each year.

On the national scene, prestigious Canada Council Killam Research Fellowships have been won by several professors from the University of Alberta: Dr Allan Offenberger in Electrical Engineering, 1980; Dr Juliet McMaster in English, 1987; Dr Christopher Scarfe in Earth Sciences, 1988; Dr Gary Kelly in English, 1990; Dr Roger Shiner in Philosophy, 1992; Dr Nicole Tomczak-Jaegermann in Mathematics, 1997; and Dr Hani Henein in Chemical and Materials Engineering, 2002.

Killam money given to the Canada Council has supported hundreds of established scholars with Killam Research Fellowships, but the Council's most prestigious award is the Killam Prize, now \$100,000 tax-free, given in recognition of outstanding career achievement in the natural sciences, health sciences, engineering, the humanities, and the social sciences. This major award has been won by four University of Alberta professors: in 1981 by Dr Raymond Lemieux, OC (later CC), University Professor and Professor Emeritus of Chemistry, for research in biotechnology; in 1984 by Dr Werner Israel (later OC), Professor of Physics,

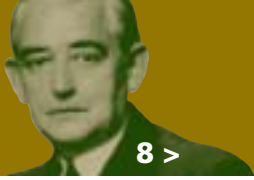


Douglas How

for his work on the mathematics of "black holes"; in 2001 by Dr Norbert Morgenstern, CM, University Professor and Professor Emeritus of Civil and Environmental Engineering, for research in geotechnical engineering; and in 2002 by Dr Robert Moody, OC, Professor of Mathematical and Statistical Sciences, for research in mathematics.

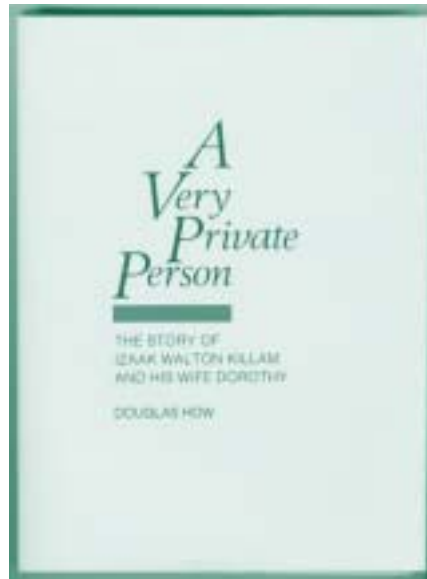
The people to whom we owe our gratitude for such enlightened support of scholarship were interesting in themselves. Izaak Walton Killam, born in 1885 in Yarmouth, Nova Scotia, the son of William Dudman Killam and Arabella Killam (née Cann), became interesting the moment he was christened Izaak Walton. One expects a degree of piscine preoccupation from Maritimers, but to name a son after the writer of *The Compleat Angler* argues a special sense of values, of shaping determination, of prophecy. Walton's minor classic is a discussion between a fisherman, a fowler and a hunter, but mainly about fishing, kinds of fish, how and where to catch them, how to make flies and lines, and all interspersed with pieces of verse and song. As Douglas How says in his lively book, *A Very Private Person* (1976, to which I owe much of the following information, and which is soon to be published in an expanded volume)*, William "loved fishing,

* Page references are to Douglas How, *A Very Private Person: The story of Izaak Walton Killam - and his wife Dorothy* (Halifax: Trustees of the Estate of Dorothy J. Killam, 1976).



liked tying his own flies, made his own fishing rods, and treated them with respect and reverence” (p. 9). And his son Izaak also turned out to be an ardent salmon fisherman. “He always liked fishing, his sister Elizabeth said, just as he liked his fisherman’s name” (p. 14). He owned and read a copy of *The Compleat Angler* (1653, an original copy, of course), and kept accurate records of fishing at his Quebec fishing lodge on the Cascadepia River.

After her husband died, Arabella Killam moved with her two daughters to Marshfield, Massachusetts, leaving Izaak behind. Starting at age 16 as a junior bank clerk in Yarmouth, he was transferred to the head office in Halifax in 1903. There he fell in with Max Aitken (later Lord Beaverbrook). Killam was 19, Aitken 25, and that connection was the basis of Killam’s financial career. Aitken persuaded him to join Royal Securities, which Aitken moved to Montreal, the new financial centre of Canada, in 1906. Killam became Managing Director in 1909. When Aitken left Canada for England in 1910, Killam directed the firm’s operations in England and then Canada, and became its President in 1915. In 1919, he bought Aitken out. Usually with Royal Securities assets, Killam liked to buy businesses cheaply and build them up. Calgary Power, of which he gained control in the 1920s, was only one of the many and diverse companies he controlled, mostly, but not exclusively, power companies. They included the Acadia Sugar Refining Company, Bolivia Power Company; Puerto Rico Railway, Light and Power; British Columbia Pulp and Paper Company Ltd.; *Mail and Empire* newspaper (a forerunner of *The Globe and Mail*); Montreal Engineering; Mersey Paper Company; and Moirs Limited, a chocolate company. As How reports, according to *Fortune Magazine* in 1948 he was “said to



be the richest man in Canada” (p. 79), tough but ethical.

After resigning as President in January 1954, Killam remained as a Director of Royal Securities and Chair of Calgary Power. On 5 August 1955, at the age of 70, he died at his fishing lodge, a fisherman to the end. The Killams had no children. A nephew, Walton, son of his sister Elizabeth Rodgers, might have been his heir, but Walton died in action with the US forces in the Pacific in 1944. Killam, says How, “took the death very hard” (p. 77). Killam was a modest and notoriously silent gentleman who made money, a lot of it, or as one tabloid put it: “more money than Little Orphan Annie’s Daddy Warbucks – and that’s plenty!” He kept his reactions to life, wrote one reporter, “well locked in a mental safety deposit box.” *Madean’s* wrote, “He sometimes goes to a hockey game and now and then to the theatre, at both of which he displays all the enthusiastic interest of a blind man in an art gallery” (p. 62). That’s the humorous view – a more appropriate one might be that like his famous namesake, Izaak Walton, who also lived through tumultuous times, he “studied to be quiet.” The charitable contributions he made during his lifetime were characteristically anonymous. Among various obituary comments on Killam, that by Graham

Towers, first Governor of the Bank of Canada, seems representative and just: “He was absolutely honest ... [and] one of the most creative people Canada has ever had” (p. 99).

Dorothy Killam, née Dorothy Brooks Johnston, was born in St. Louis, Missouri, in 1899. She was a knowledgeable and widely traveled extrovert who made up for Izaak’s reserve. When twenty-two years old, she attended a high-society dinner in Montreal, saw Killam, who was then thirty-seven, and announced that she would marry him. She did. A woman of enterprise and talent, she lived up to the family name by learning to fish for salmon with a fly rod. Both Killams liked baseball. It was rumored he thought of buying the Brooklyn Dodgers for her, but she said that was mostly a joke. Loving opera, she was a member of the Metropolitan Opera’s board, and contributed generously to its productions. She thought diamonds were, if not a girl’s best friend, at least worthy of very close acquaintance. He thought they were an excellent investment; together they acquired one of the great collections. She had a gusto for life, and life as millionaires could live it – *The Ladies’ Home Journal* (August, 1960) listed her as one of “The Richest Women in the World.” When she traveled, first class of course, her servants also traveled first class – is that democratic or patrician? There is a story that she expected her dogs also to fly first class, that she even got them aboard once only to be left in sole possession as Air Canada, seeing no other way around the contretemps, transferred all the other passengers to another plane and flew off without her. But if she had style and panache, she was also very astute and, as How says, “She surprised various businessmen ... by her knowledge of business and finance” (p. 108).

As winter homes, they had two mansions in the Bahamas, one called Graycliff built originally by a pirate (now an exclusive hotel). Both had excellent pools, because she was an expert swimmer, good enough to give pointers to military frogmen. The Duke and Duchess of Windsor, with whom they hobnobbed, were next-door neighbours. Dorothy used the mansion, along with several other richly appointed residences, like the Villa La Leopolda at Villefranche-sur-mer in France, until her death. In one of his novels, Thackeray mentions the complicated exhilaration felt by a young man as his uncle, a retired major, shakes hands with (or, rather, grasps a single, gloved, and languidly outstretched finger of) the Duke of Wellington: “all Pen’s blood tingled, as he found himself in actual communication, as it were, with this famous man (for Pen had possession of the major’s left arm, whilst that gentleman’s other wing was engaged with his Grace’s right).” I recall that one of the more esoteric pleasures of being a member of the Killam Scholarship Committee, in its early days, was getting updates from time to time on the enormous sums gradually accumulating from the sale of such items as the Killam jewellery and the Bahamas mansion – an electric sense of distant and enormous wealth tingling like an attenuated contact with the great Duke’s outstretched finger.

Interestingly, for people who contributed so grandly to the furtherance of scholarship, neither of the Killams was a university graduate. Nevertheless, their impact on Canadian intellectual life has been enormous. Killam evidently had a scruple about avoiding death duties, and when he died the government of Canada took about half of his estate worth about \$83 million. Adding part of it to the proceeds from Sir James Dunn’s estate, the government established the Canada Council for the Arts, which ever since has

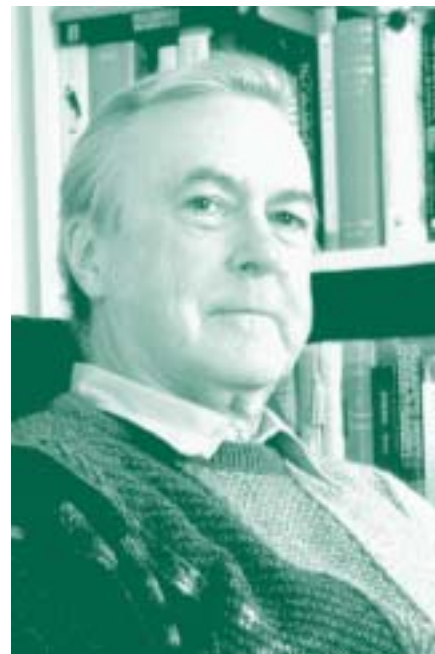
put millions into the intellectual and cultural life of Canada. Killam’s death duties were also part of another \$50 million used to provide Canadian universities with capital assistance over a ten-year period. When Killam died in 1955, Dorothy Killam was left with about \$40 million. And though she may not have graduated from a university, she had certainly been instructed by the best of financial teachers – as she put it, “Walton started by teaching me the ABCs and by the time he died I knew the XYZs” (pp. 101-2). When she died at La Leopolda ten years later, her estate had grown to about \$93 million. Killam had left all his money to her, and her will then gave effect to the plans they had discussed together towards the end of his life. In 1964 she moved from Montreal to Halifax, where she took a vigorous interest in Dalhousie University and the Children’s Hospital. She left \$8 million to build the Izaak Walton Killam Hospital for Children in Halifax as a memorial to her husband. And to Dalhousie University, she left \$30 million, in How’s estimation “probably the largest donation to a university in Canadian history” (p. 113).

So much for the past. As How concludes: “They built a substantial empire which tapped and produced great wealth, provided jobs for thousands and survived through cruel turns of economic fortune . . . They lavished something close to \$125,000,000 upon the land that had chiefly made it possible, and virtually all of it went into that realm of advanced scholarship neither of them had ever known” (p. 117). For over three decades, under the auspices of the Killam program, seasoned researchers have been extending the boundaries of knowledge, and brilliant young scholars, hundreds of them, have been acquiring their degrees and continuing their advanced studies in everything from chemistry to Caribbean

poetry and then dispersing throughout Canada and the world to exercise their developed capabilities. The impact of their work cannot help but be great. It is something worth celebrating.

Rowland McMaster, FRSC

PROFESSOR EMERITUS,
DEPARTMENT OF ENGLISH,
AND A MEMBER OF THE
KILLAM SCHOLARSHIP COMMITTEE
FROM 1967 TO 1989.





KILLAM FUNDS AT THE UNIVERSITY OF ALBERTA

The investment assets related to the Killam Trusts Endowment funds at the University of Alberta are managed with a long-term objective of funding the annual program spending allocation while preserving the capital of the fund. Capital preservation entails maintaining the real value of the fund on an inflation-adjusted basis or increasing the real value of the fund to enable future program enhancements.

The 10-year annualized rate of return as at March 31, 2002 was 14.1%. This extremely strong rate of return has significantly exceeded the annual 5% market value based program spending allocation and the 10-year annualized inflation rate of 1.7%. The 10-year actual rate of return was also significantly in excess of our 10-year passive or index-based benchmark return of 11.3% and demonstrates the value added by our active investment strategies.

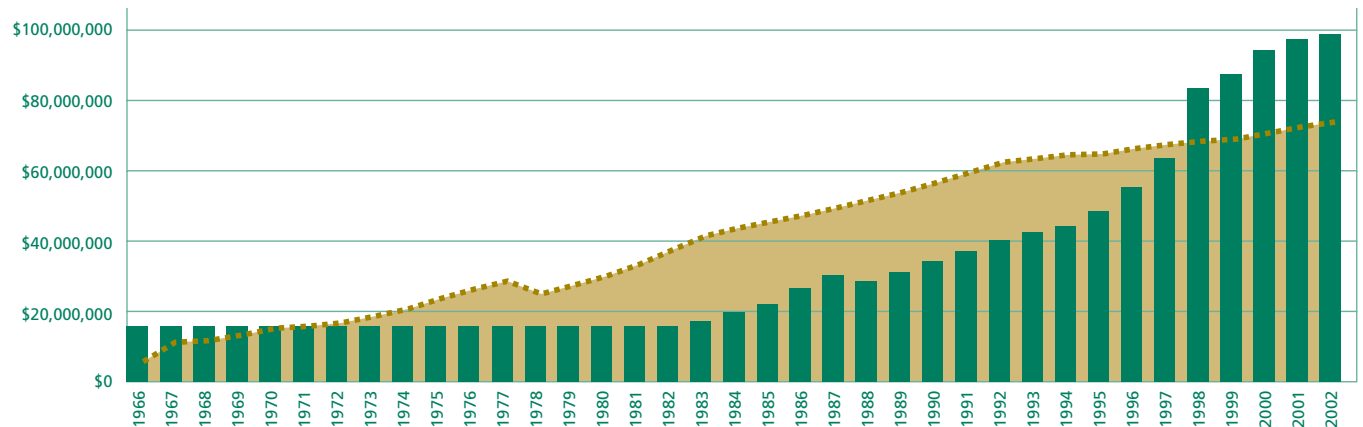
Strong investment returns combined with a formal 5% spending policy that is linked to a 3-year moving market value average has created real growth in both the asset base and the annual program spending allocation.

The past several years have witnessed a significant increase in capital market volatility. The University of Alberta's Board Investment Committee and administrators continuously evaluate future expected rates of returns from capital markets and the related implications for both our investment strategy and spending policy. Future expected rates of return are not anticipated to be as strong as those experienced over the past decade. The University of Alberta is currently in the process of realigning its investment strategy and asset mix to better enable it to achieve the endowment's long-term objectives.



Ron Ritter
ASSOCIATE DIRECTOR AND TREASURER,
FINANCIAL SERVICES

University of Alberta – Killam Endowments, Endowment Growth vs Inflation 1966 to 2002



Killam Trusts Endowments	Original Bequest*	Original Bequest Indexed for Inflation	Actual Market Value March 31, 2002	Program Spending Allocation 2002 / 03	Cummulative Spending Allocation To Date Since Inception
Killam Memorial Chairs	\$1,135,000	\$9,773,000	\$10,896,550	\$524,000	\$6,342,035
Killam Memorial Salary	2,393,000	19,547,000	25,115,172	1,207,000	14,518,527
Killam Advanced Studies	3,504,000	20,597,000	28,068,595	1,348,000	19,370,792
Killam General Endowment	3,628,000	22,680,000	34,477,292	1,657,000	21,674,803
Total	\$10,660,000	\$72,597,000	\$98,557,609	\$4,736,000	\$61,906,157

* Original bequest excludes amounts transferred to the University of Calgary during the fiscal year ending March 31, 1978.

THE IMPORTANCE AND VALUE OF KILLAM AWARDS

Dr M R T Dale
Dean, Faculty of Graduate Studies and Research



Dr Mark Dale
Dean, FGSR,
1997 – 2002

During my doctoral program at Dalhousie University, I was fortunate to be named a Killam Scholarship recipient, so I know first hand the importance of the trusts to students and to the quality and reputation of our graduate programs. Many of the outstanding accomplishments of our scholarship recipients would simply not be possible without Killam support.

As both a past Killam Scholar and the current Dean of the Faculty and Graduate Studies and Research at a Killam institution, I am honoured to be able to share these trusts with our fellow Alberta institution, The University of Calgary. In 1967, the University of Alberta transferred a portion of our Killam trust funds to the newly independent University of Calgary. This transfer not only enabled the U of C to establish its own Killam programs but also fostered the true Alberta advantage for graduate studies and graduate students in this province.

The 35th anniversary of these Killam trusts is now upon us, and I am pleased to announce two new Killam awards at the University of Alberta:

The Killam Award for Excellence in Mentoring consists of a commemorative certificate and \$5,000. It will be awarded to one member of the academic staff on an annual basis beginning in 2003 in recognition of outstanding performance in mentoring the research of undergraduate and graduate students, postdoctoral fellows and visiting scholars.

The Dorothy J Killam Memorial Graduate Prize will be awarded each year to the most outstanding Killam Memorial Scholarship winner in each of four areas of study: engineering and mathematical sciences; life and health sciences; social sciences, humanities and fine arts; and education, physical education and professional programs. Including a cash prize of \$2500, the award will be based on academic achievement, research proposal, letters of recommendation and leadership qualities. The 'first' recipients received their award during the 35th year of the Killam program.

2002 Dorothy J Killam Memorial Graduate Prize recipients:

Kristen S Buchanan	Physics
Norman P Friesen	Secondary Education
Kaley R Mason	Music
Sean A McKenna	Biochemistry

With the introduction of these new Killam awards at the University of Alberta, I am delighted that we will be able to further enhance the reputation and impact of the Killam legacy at our institution and in Alberta.



OTHER CANADIAN KILLAM PROGRAMS

The four other Canadian educational institutions that received Killam bequests have Killam programs somewhat similar to those at the University of Alberta, but several important differences exist. The brief descriptions of these programs provided below have been extracted from information published in the *Annual Report 2001* of the Trustees of the Killam Trusts. Information is also provided about the Canada Council Killam Prizes and Killam Research Fellowships.

The University of British Columbia

Killam Predoctoral Scholarships and Postdoctoral Fellowships are similar to those at the University of Alberta. Nine new Predoctoral Scholarships (three Honorary) and four new Postdoctoral Fellowships (two Honorary) were awarded in 2001, bringing the respective totals for Scholars and Fellows on stipend in 2001 to 36 and 30.

The Killam Memorial Salary Fund “provides bridging and recruiting opportunities to ease retirements among faculty” and “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.”

Two sets of prizes are also supported: Killam Faculty Research Prizes and Faculty Teaching Prizes.

The University of Calgary

In 2001, 11 Predoctoral Scholarships were awarded for a current total of 22, about half of which are Honorary.

The two Killam Chairs are held by Dr Nigel Shrive (Engineering) and Dr Roy Gravel (Medicine, Science, and Kinesiology).

The Killam Visiting Scholars program allows distinguished scholars to contribute significantly to the academic life of the

University “by their presence and participation in research and teaching.” “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.” Two Scholars were selected for 2001.

The Killam Resident Fellows program provides distinguished scholars “the opportunity to complete a publication or research project free of teaching, administrative or other duties.” Seven were awarded in 2001.

The Donald N Byers Memorial Killam Prize is awarded annually “to the student who has written the year’s best research proposal.”

Dalhousie University

In 2001, 26 Predoctoral Scholarships were awarded for a current total of 80, nearly half of which are Honorary. Six new Postdoctoral Fellowships were awarded for a current total of 12. Of five Killam Chairs, four are currently occupied by Drs R Islam, I Meinertzhagen, R Myers, and M A White.

A Faculty of Science Killam Prize is awarded annually “to enhance the career of a promising scientist who has obtained his or her doctorate within the past 11 years.” Faculty of Science Killam Professorships, tenable for five years, “recognize the outstanding research contributions of the faculty’s most outstanding scientists.”

In 2001, 12 faculty members held these Professorships. A set of Dorothy J Killam Memorial Lectures is held annually on a particular subject. In 2001 the theme was “The Brain.”

Dalhousie’s Killam Memorial Research and Scholarship Fund, established by Mrs. Killam through a gift made during her lifetime, provides support at various levels to about 300 students each year, chosen on merit, in medicine, science, and engineering.



Dr Arthur McCalla
Dean, FGSR
1957—1969, 1970—1971



Dr Henry Kreisel
Acting Dean, FGSR
1969—1970



Dr John McGregor
Dean, FGSR
1971—1976



Dr John Forster
Dean, FGSR
1976—1982



Dr Stuart Woods
Acting Dean, FGSR
1982—1983



Dr Fu-Shiang Chia
Dean, FGSR
1983—1988, 1989—1992

Montreal Neurological Institute of McGill University

Thirteen professors and researchers receive Killam funding at MNI to assist their work. Their appointments are for five years, eligible for renewal. "Each of the MNI scholars is unquestionably a 'star' in his or her field." Their work further enhances the world-leading position of the MNI in clinical activities and research in neuroscience.

The Killam Prizes - The Canada Council for the Arts

The Killam Prizes have been awarded annually since 1981 to distinguished Canadian scholars in the fields of health sciences, natural sciences, and engineering and, since 2002, in the fields of social sciences and humanities. The Canada Council for the Arts administers the Prizes privately, under a special provision of the governing legislation which allows the Council to accept gifts on trust and use the income as directed by the donor, usually outside the Council's public mandate. The Killam Fund is the largest fund in the Canada Council's assets which have resulted from private donations and bequests: on 31 March 2002 it totalled \$65.6 million.

Normally, one Killam Prize of \$100,000 will be awarded each year in each of the five fields. (The original value of \$50,000 in 1981 was increased to \$75,000 in 2000 and to \$100,000 in 2001.) The Prizes are intended to honour eminent scholars actively engaged in research in Canadian universities, hospitals, research or scientific institutes, or other equivalent or similar institutions. They are designed to encourage continuing contribution to scholarly research in Canada and are not related to a particular achievement, but rather are given in recognition of a distinguished career and exceptional contributions in one of these fields.



Dr Steve Arnold
Acting Dean, FGSR
1988—1989



Dr Tony Kernahan
Acting Dean, FGSR
1992—1993



Dr Murray Gray
Dean, FGSR
1994 —1997

Killam Research Fellowships – The Canada Council for the Arts

Killam Research Fellowships are offered on a competitive basis to support researchers in any of humanities, social sciences, natural sciences, engineering, health sciences, and studies linking any of the disciplines within these fields. The purpose of a Killam Research Fellowship is to provide release time from teaching and administrative duties to a scholar who wishes to pursue independent research. The Fellowships are intended for established scholars who have demonstrated outstanding research ability and who have transmitted the results of their research through substantial publications in their field over a period of several years.

The home university or research institution is expected to relieve the Killam Research Fellow of all teaching and administrative responsibilities and to continue to pay his or her full salary during the tenure of the Fellowship (normally two years). These release-time Fellowships have two components: (a) payment of a maximum of \$53,000 per annum towards replacement of teaching and administrative responsibilities; and (b) payment of full fringe benefits of the Killam Research Fellow during tenure of the Fellowship.



ORGANIZATION OF KILLAM TRUSTS COMMITTEES

Until 1989, the University of Alberta Killam Trusts Committees operated in a fairly independent and often ad hoc manner. The major operational responsibilities were borne by the Killam Scholarship Committee. Following an in-depth review of Killam activities associated with smooth implementation of the University Endowment Management Policy, senior administrators concluded that “a greater degree of coordination and management of fiscal and academic matters for all [Killam] funds was desirable.” Dr Myer Horowitz, University of Alberta President, formed the Killam Trusts Committee in 1989. After obtaining support from relevant significant individuals about the need for major organizational changes, Dr Warrack, Vice-President (Administration), as Chair of the first Killam Trusts Committee, ensured that it had broad representation and increased responsibilities. Its mandate was “to coordinate academic and fiscal policies and practices related to the Killam bequests at the University, to increase the profile of the Killam endowments, and to maintain focus on the Killam tradition of academic excellence.”



Dr Allan Warrack
Chair
Killam Trusts Committee
1989 — 1991

The Killam Trusts Committee continued to operate under the Chairmanship of the Vice-President (Finance and Administration) until 1998 when the President’s Executive Committee decided that it should be Chaired by the Provost and Vice-President (Academic). This decision was made in order to place a more academic orientation on Killam operations on campus while at the same time maintaining an emphasis upon the need for sound financial management.

In 1999-2000, the Provost and Vice-President (Academic) concluded that the responsibilities of and relationships among the various Killam committees on campus should be clarified. He also assigned responsibility for overall coordination of day-to-day Killam operations to his Executive Assistant. Terms of reference and membership lists were integrated by Dr Ted Holdaway and Marion Haggarty-France, assisted by Lynne Blair, Dr Katharine Moore, and Kally Basra, into a policy and procedures manual which was approved by the Killam Trusts Committee in 2000.

These measures have resulted in improved procedures without imposing unnecessary bureaucracy. Individual Killam committees still act with a high degree of autonomy and report results of their deliberations to the Killam Trusts Committee.

The Killam Trusts Committee, the major U of A Killam Committee, is chaired by the Provost and Vice-President (Academic). Its primary responsibilities are identified in the next section. The four other Killam Committees are listed below:

- Killam Annual Professorships Committee – Chair, Vice-President (Research)
- Killam Memorial Chairs Selection Committee – Chair, Vice-President (Research)
- Killam Scholarship Committee – Chair, Dean, Faculty of Graduate Studies and Research (FGSR)
- Killam Trusts Finance Committee – Chair, Associate Vice-President (Finance)

The Killam Scholarship Committee receives recommendations for awards from the FGSR Graduate Scholarship Committee (Chair – Associate Dean, FGSR) and from the FGSR Postdoctoral Fellowship Committee (Chair – Dean, FGSR).

UNIVERSITY OF ALBERTA

KILLAM TRUSTS COMMITTEE

The Killam Trusts Committee has the following responsibilities:

1. Exercise oversight of all Killam activities at the University of Alberta.
2. Make decisions about academic and fiscal policies and practices related to the Killam bequests to the University of Alberta in keeping with terms of the Last Will and Testament of Dorothy J Killam.
3. Maintain focus on the Killam tradition of academic excellence.
4. Ensure that all expenditures of Killam bequest funds are publicly credited to the Killam name.
5. Issue an Annual Killam Trusts Committee Report to the Killam Trustees and to the Board of Governors and President of the University of Alberta.
6. Assist the University of Alberta in providing leadership to the world-wide “Killam family” of scholars and act as a liaison with the other Canadian “Killam institutions.”

Voting Members 2001—2002

Dr D R Owram, Chair

PROVOST AND VICE-PRESIDENT (ACADEMIC)

Mr G T H Cooper, QC

MANAGING TRUSTEE OF THE KILLAM TRUSTS

Mr J H Matthews

KILLAM TRUSTEE

Mrs M A McCaig, LLD

KILLAM TRUSTEE

Mr W R Wyman, LLD

KILLAM TRUSTEE

Dr R G Kachanoski

VICE-PRESIDENT (RESEARCH)

Mr A O'Brien

ACTING VICE-PRESIDENT (FINANCE AND ADMINISTRATION)

Dr H A Quinney

ASSOCIATE VICE-PRESIDENT (ACADEMIC)

Mr N Merali

ASSOCIATE VICE-PRESIDENT (FINANCE)

Dr M R T Dale

DEAN, FACULTY OF GRADUATE STUDIES AND RESEARCH

Mr R F Ritter

ASSOCIATE DIRECTOR AND TREASURER, FINANCIAL SERVICES

Mr B E H Boytang

MANAGER, RESEARCH AND TRUST ACCOUNTING

Dr D M Bruce

CHAIRS' COUNCIL REPRESENTATIVE

Dr M J Dudas

KILLAM SCHOLARSHIP COMMITTEE REPRESENTATIVE

Dr J C Vederas

POSTDOCTORAL FELLOWSHIP COMMITTEE REPRESENTATIVE

Dr D S Chanasyk

“KILLAM FAMILY-AT-LARGE” REPRESENTATIVE

Non-Voting Members 2001—2002

Ms M T Haggarty-France, Committee Secretary

EXECUTIVE ASSISTANT TO THE
PROVOST AND VICE-PRESIDENT (ACADEMIC)

Dr E A Holdaway

PROFESSOR EMERITUS

Mr P R Poon

ASSISTANT TREASURER, FINANCIAL SERVICES

Mr C S Ashdown

FINANCIAL BUSINESS ANALYST: ENDOWMENTS, RESEARCH AND
TRUST ACCOUNTING

C J Dickinson

ADMINISTRATIVE OFFICER OF THE KILLAM TRUSTS (HALIFAX,
NOVA SCOTIA)



UNIVERSITY OF ALBERTA

KILLAM SCHOLARSHIP COMMITTEE

The Last Will and Testament of Dorothy J Killam specifies that the net income from each Killam Trust shall be used to provide scholarships for advanced study. Those selected should be “likely to contribute to the advancement of learning or to win distinction in a profession.” Scholarships should be for pre-doctoral or post-doctoral work, and are open to Canadians and citizens of other countries. The will states that “a Killam Scholar should not be a one-sided person and each scholar’s special distinction of intellect should be founded upon sound character and good manners.”

The Terms of Reference for the Scholarship Committee are as follows:

1. The last Will and Testament of Dorothy J Killam specifies that the Committee consist of not less than ten members, including the Trustees.
2. The Committee will review and ratify lists of nominees from the Graduate Scholarship Committee of FGSR for Killam Doctoral Scholarships and from the Postdoctoral Fellowship Committee for Killam Postdoctoral Fellowships.
3. The Committee will set and approve budgets, review stipends, and consider special requests.
4. The Committee will host Trustees, Killam Scholars, and Killam Postdoctoral Fellows as required.
5. Elect an academic (non-administrator) member as a representative to the Killam Trusts Committee.

Additional responsibilities of the Chair of the Killam Scholarship Committee:

1. Organize and host the annual Killam Dinner at the University of Alberta.
2. Represent the University of Alberta at the national Killam Annual General Meeting.
3. Represent the Advanced Studies Program on the University of Alberta Killam Trusts Committee.

Voting Members, 2001-2002

Dr M R T Dale, Chair

DEAN, FACULTY OF GRADUATE STUDIES AND RESEARCH

Mr G T H Cooper, QC

MANAGING TRUSTEE OF THE KILLAM TRUSTS

Mr J H Matthews

KILLAM TRUSTEE

Mrs M A McCaig, LLD

KILLAM TRUSTEE

Mr W R Wyman, LLD

KILLAM TRUSTEE

Dr O S E Bilash

ASSOCIATE DEAN, FGSR

Dr A J Greenshaw

ASSOCIATE DEAN, FGSR

Dr S E Macdonald

ASSOCIATE DEAN, FGSR

Dr J R Beamish

PHYSICS

Dr M J Dudas

RENEWABLE RESOURCES

Dr R E Jones

ENGLISH

Dr J R Mercer

ONCOLOGY AND PHARMACY

Non-Voting Member, 2001-2002

Ms L L Blair, Committee Secretary

SCHOLARSHIPS COORDINATOR, FGSR

In the early years of the Killam Trusts, the Killam Scholarship Committee was a joint Alberta-Calgary operation. For example, the members of the 1975 Scholarship Committee were:

Dr J R McGregor, Chair (Dean, FGSR; Alberta); Dr J B Hyne (Dean, FGS; Calgary); Dr S B Woods (Associate Dean, FGSR; Alberta); Dr D L Mills (Associate Dean, FGS; Calgary); Dr H Baadsgard (Geology; Alberta); Dr R D McMaster (English; Alberta); Dr C E Challice (Physics; Calgary); and Mr L Henderson, Secretary (Alberta).

UNIVERSITY OF ALBERTA

KILLAM MEMORIAL
CHAIRS SELECTION
COMMITTEE

The Last Will and Testament of Dorothy J Killam specifies that at least two Killam Memorial Chairs will be funded at the University of Alberta in scientific and/or engineering fields. The Chairs are primarily research appointments. Each incumbent is expected to perform these functions: (a) make major research and scholarship contributions; (b) be a senior research leader on campus; (c) act as a major catalyst for interdisciplinary research on campus; (d) present a highly positive profile for research both internally and externally; and (e) teach at both undergraduate and graduate levels.

The Killam Memorial Chairs Selection Committee has these responsibilities:

1. To begin the selection process for a Killam Memorial Chair one year prior to a vacancy.
2. To select new Chair holders, and to recommend appointments and salaries/compensation to the Board of Governors.
3. To ensure that the University adheres to the terms of appointment as specified by Dorothy J Killam.

The Killam Trustees are to be informed about the process and actions taken under Responsibility 1 and the recommendations under Responsibility 2. The Trustees must approve any appointments made by the Board of Governors.

Voting Members

- Vice-President (Research), Chair
- Provost and Vice-President (Academic) or designate
- Dean, Faculty of Graduate Studies and Research, or designate
- Three faculty members from three designated staff categories

Non-Voting Member

- Executive Assistant to the Vice-President (Research), Committee Secretary

UNIVERSITY OF ALBERTA

KILLAM
TRUSTS FINANCE
COMMITTEE

This Committee has these responsibilities:

- Provide advice about fiscal policies and practices related to the Killam bequests to the University of Alberta in keeping with the terms of the Last Will and Testament of Dorothy J Killam.
- Prepare background materials and briefing materials as required to the Killam Trusts Committees at the University of Alberta.
- Prepare draft statements of revenues and expenditures relating to the Killam activities, and provide this information to the Chairs of the Killam Trusts Committees.
- Ensure that all investments and expenditures of Killam bequest funds are accounted for and credited to the Killam name.
- Provide materials and assist with preparation of the Annual Killam Trusts Committee Report.

Voting Members, 2001—2002

Mr N Merali, Chair

ASSOCIATE VICE-PRESIDENT (FINANCE)

Dr H A Quinney

ASSOCIATE VICE-PRESIDENT (ACADEMIC)

Dr W A McBlain

ASSOCIATE VICE-PRESIDENT (RESEARCH)

Dr M R T Dale

DEAN, FACULTY OF GRADUATE STUDIES AND RESEARCH

Mr R F Ritter

ASSOCIATE DIRECTOR AND TREASURER, FINANCIAL SERVICES

Mr B E H Boytang

MANAGER, RESEARCH AND TRUST ACCOUNTING

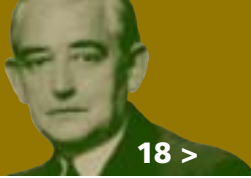
Mr P R Poon

ASSISTANT TREASURER, FINANCIAL SERVICES

Non-Voting Member

Mr C S Ashdown, Committee Secretary

FINANCIAL AND BUSINESS ANALYST,
RESEARCH AND TRUST ACCOUNTING



UNIVERSITY OF ALBERTA

KILLAM ANNUAL
PROFESSORSHIPS COMMITTEE

The Last Will and Testament of Dorothy J Killam specifies that each university, except the Montreal Neurological Institute, shall establish a Killam Memorial Salary Fund whose income shall be used to pay salaries of permanent teaching staff (other than those teaching or concerned with “the arts” as defined in the Canada Council Act), and a General Endowment Fund whose income shall be used for purposes determined by its governing body.

In 1990, concern was expressed that the Killam Bequest was not receiving appropriate recognition for the financial contribution that it was making to the University of Alberta. To remedy this situation, the Killam Annual Professorship program was proposed and developed by Dr Fu-Shiang Chia (Dean of Graduate Studies and Research) and Dr Ted Holdaway (Educational Administration). Their original proposal was modified and refined with assistance from Dr Peter Meekison (Vice-President, Academic), Dr Fred Otto (Dean of Engineering), and Dr Juliet McMaster (English), and the revised proposal was then approved by the Killam Trusts Committee. The University of Alberta decided to use the income from both the Memorial Salary Fund and the General Endowment Fund to pay the salaries and benefits of up to eight professors selected as Killam Annual Professors on the basis of these criteria:

Primary Criterion: A record of outstanding scholarship and teaching over three or more years as evidenced by any or all of research, publications, creative activities, presented papers, supervision of graduate students, and courses taught.

Secondary Criterion: A record of substantial contributions to the community beyond the University, as evidenced by community involvement directly linked to the applicant’s university responsibilities and activities.

So that these professorships may be accessible to relatively new and young staff members, as well as to those who are more established academics, the selection committee shall consider an excellent record over three years as comparable to an excellent record accumulated over a career.

The duties of Killam Annual Professors are not changed from those that they regularly perform. Each Professor is presented with a prize of \$3,500 (increased from \$2,500 in 2001) and a framed scroll.

The Killam Annual Professorships Committee has these responsibilities:

- To ensure that approved procedures for publicity and applications are followed.
- To assess policies and procedures and to recommend any suggestions for changes.
- To screen applications (self-nomination) and select up to eight Killam Annual Professors.

The Committee has been chaired by these Vice-Presidents (Research): Dr Bob James, Dr Martha Piper, Dr Roger Smith, and Dr Gary Kachanoski. Dr Ted Holdaway served on the Committee from 1991 for 10 years during which time he regularly chaired the Preliminary Selection Sub-Committee. Dr Fred Otto (Engineering) and Dr Ron Kratochvil (Chemistry) provided valuable assistance to the Committee for several years.

Voting Members, 2001—2002**Dr W A McBlain, Chair**

ASSOCIATE VICE-PRESIDENT (RESEARCH)

Dr J-J R Cheng

CIVIL AND ENVIRONMENTAL ENGINEERING

Dr K S Courneya

PHYSICAL EDUCATION AND RECREATION

Dr M Cowie

CHEMISTRY

Dr A M Decore

ASSOCIATE VICE-PRESIDENT (ACADEMIC)

Dr J-P Himka

HISTORY AND CLASSICS

Dr M A Naeth

AGRICULTURE, FORESTRY, AND HOME ECONOMICS

Dr L K Penrod

MODERN LANGUAGES AND CULTURAL STUDIES

Dr R J Sobsey

EDUCATIONAL PSYCHOLOGY

Non-Voting Member, 2001—2002**Dr K E Moore, Committee Secretary**

EXECUTIVE ASSISTANT TO THE VICE-PRESIDENT (RESEARCH)

UNIVERSITY OF ALBERTA

KILLAM
MEMORIAL CHAIRS**David W Schindler**
Killam Memorial Chair and Professor of Ecology

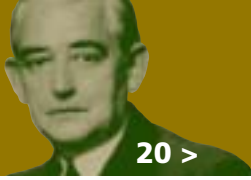
Dr David Schindler
Killam Memorial Chair and Professor of Ecology
1989 –

Appointed a Killam Memorial Professor in 1989, David Schindler came to the University of Alberta following twenty-one years as Director of the Experimental Lakes Project of the Canadian Department of Fisheries and Oceans near Kenora, Ontario, where he conducted interdisciplinary research on the effects of eutrophication, acid rain, climate change and other human impacts on boreal aquatic ecosystems. His work on eutrophication and acid rain has been widely used in formulating ecological management policy in Canada, the USA and Europe. Dr Schindler is the author of more than 250 scientific publications, and is a Fellow of both the Royal Society of London (UK) and the Royal Society of Canada. His recent research has focused on the effects of climate change/global warming, alien fish stocks, airborne contaminants and related human impacts on freshwaters of the Rocky Mountains. Among his many international awards are the first Stockholm Water Prize (1991), the Volvo International Environment Prize (1998), and the 2001 NSERC Gerhard Herzberg Gold Medal, Canada's highest scientific honour.

Valeri P Frolov
Killam Memorial Chair and Professor of Science

Dr Valeri Frolov
Killam Memorial Chair and Professor of Physics
1993 –

Following doctoral studies at Moscow State University, Valeri Frolov worked at the Lebedev Physical Institute in Moscow from 1973 to 1992, and concurrently was a Professor at the Physical Technical Institute for ten years. A year as a Visiting Professor at the Copenhagen University Observatory in Denmark was followed by his appointment as a Killam Memorial Professor of Science at the University of Alberta in 1993. Dr Frolov's field of research is theoretical physics and astrophysics, and he studies how the universe was created, what happens with matter when massive stars end their evolution and form black holes, and what the properties of space and time are under the extreme conditions in a very strong gravitational field. Among his 150 publications is the widely-used book "Black Hole Physics," co-authored with Professor I Novikov in 1998. Dr Frolov received the Canadian Immigration Achievement Award in Science in 1996, and he is a member of the Cosmology and Gravity Program of the Canadian Institute for Advanced Research.



UNIVERSITY OF ALBERTA

KILLAM
MEMORIAL
SCHOLARS

Descriptions of the research of our 38 new and renewal Killam Scholars and 13 new and renewal Honorary Killam Scholars are included below. These are followed by a list of all 388 Scholars and 114 Honorary Scholars. The diversity of their departments reveals how widely the scholarships have been spread across the University. The Scholars came from many countries as no restriction applies to citizenship; this has allowed for cultural enrichment and academic strengthening throughout the campus. At the Killam Annual Dinner, all new Scholars present brief overviews of their research activity and receive a scroll. This is one of the highlights of the fall Killam Trusts events and provides interesting insights into the diversity, value, and complexity of the Scholars' research.

Applicants for Killam Scholarships must have completed at least one year of graduate study. Killam Scholarships are awarded for two years and include a stipend of \$20,100 per year effective 2002/03. The scholarship also includes a tuition component, which is equivalent to the value of tuition and fees for the Fall and Winter Terms (including the 100% Differential Fee for foreign students), plus \$700. A one-time research allowance of \$2,000 also is included with the scholarship.

Honorary Killam Scholarships are awarded to excellent scholars who will receive significant income from another major award. Honorary Scholars qualify for all the benefits afforded to Killam Scholars. This includes the research allowance and if applicable, a top-up to the stipend of their other award to bring it to the current level of a Killam Scholarship. The Killam Scholarship Committee has a long-standing policy that the Killam award should be the most prestigious award available to University of Alberta doctoral students.

2002 Izaak Walton Killam
Memorial Scholars

Darse Billings is from Calgary, Alberta. He obtained a BSc (Honors) degree from the University of Calgary and an MSc from the University of Alberta. Darse's research is in Artificial Intelligence, specialising in imperfect information games and decision-making under conditions of uncertainty. He is the author of four world champion game-playing programs, and is the co-founder and lead designer for the U of A Computer Poker Research Group.

Jennifer R Caines is from Sussex, New Brunswick. She holds a BMus degree from Mount Allison University and an MA (Music Criticism) from McMaster University. Her thesis was entitled *Clara Schumann, The (Wo)Man and her Music: An Examination of Nineteenth Century Female Virtuosity*. Her Musicology dissertation will explore nationality, gender and patronage within Queen Victoria's court.

Izaak Walton Killam
Memorial Scholars*

2002

Darse Billings	Computing Science
Jennifer R Caines	Music
Hugo De Burgos	Anthropology
Kathleen B Dohan	Mathematical & Statistical Sciences
Sebastien A Gittens	Pharmacy & Pharmaceutical Sciences
Minglun Gong	Computing Science
Joyce Gould	Renewable Resources
Leslie I Grad	Biochemistry
Sonya J Grypma	Nursing
Kelly L Laycock	English
Daniel A MacIsaac	Renewable Resources
Dawn D Nickel	History & Classics
Lesley E Peterson	English
Christina-Adela Popescu	Mathematical & Statistical Sciences
Ann Marie Ranson Ratusz	Nursing
Sorin Tomuta	Comparative Literature Religion, & Film/Media Studies
Jennifer A Tupper	Secondary Education
David R Wagner	Secondary Education
Mark K Watson	Anthropology
Philip M Wilson	Physical Education & Recreation

Honorary

Kristen S Buchanan	Physics
Norman P Friesen	Secondary Education
Douglas P Gross	Rehabilitation Medicine
Elizabeth M Hearn	Chemical & Materials Engineering
Kaley R Mason	Music
Sean A McKenna	Biochemistry
Patrick A Pantel	Computing Science

2001

Elena-Simona Ardelean	Chemistry
Lois K Barranoik	Elementary Education
Rui Chen	Chemistry
Donna M Chovanec	Educational Policy Studies
Caroline E Davis	Human Ecology
Adrian S Fairey	Physical Education & Recreation
Hesham RS Fouli	Civil & Environmental Engineering
Sylvie Garneau	Chemistry
Ernst C Gerhardt	English
Monica A Ilie	Mathematical & Statistical Sciences
Yong Kwan Jeon	Physical Education & Recreation
Melissa Lafreniere	Earth & Atmospheric Sciences
Kimberly N Larsen	English
Oy Leuangthong	Civil & Environmental Engineering
Minnan Liu	Civil & Environmental Engineering
David WL Ma	Medical Sciences - Medicine

Tololwa M Mollel	English
Charlotte A Pooler	Nursing
George W Powell	Agricultural, Food & Nutritional Science
Merritt R Turetsky	Biological Sciences
Dustin S White	Anthropology

Honorary

Jonathan F Holzman	Electrical & Computer Engineering
Scott R Kennedy	Electrical & Computer Engineering
Nicola Koper	Renewable Resources
H Peter Midgley	English
Aida MH Patient	English
Maisaa Youssef	English

2000

Marilyn L Abbott	Educational Psychology
Razvan L Anisca	Mathematical Sciences
Claudio F Aporta	Anthropology
Christopher W Baxter	Civil and Environmental Engineering
Tamer M Elkateb	Civil and Environmental Engineering
Daniel J Healy	Civil and Environmental Engineering
Rong Huang	Mathematical Sciences
Irene F Karsten	Human Ecology
Jennifer K Klein	Rehabilitation Medicine
Sylvie LeBlanc	Anthropology
Jennifer R Litowski	Biochemistry

* Note

The term "Honorary" designates scholars who have received an external award, such as an NSERC or SSHRC Fellowship, and whose qualifications are sufficiently high to qualify them for the Killam Scholarship. They are entitled to all other benefits of the Killam Scholarship.

Hugo De Burgos was born in El Salvador and moved to Canada when he was 18. He obtained a MA Medical Anthropology from the University of Toronto and a BA (Honors) in Anthropology from McGill University. Currently he is documenting contemporary traditional healing in an indigenous community in Southern Nicaragua. His intent is to critically analyze traditional medicine in the context of political and economic relations of identity and disease in post-Sandinista Nicaragua. As the first of its kind, this study will therefore clarify our understanding of the plurality, the poetics and the politics of medical traditions operating in Nicaragua.

Kathleen B Dohan obtained a BSc (Honors) in Mathematics from Simon Fraser University. Turbulent layers adjacent to regions in which internal waves may propagate are a common occurrence in geophysical flows. Waves generated at the base of the turbulent ocean surface may act as a source of energy driving deep ocean currents. However, the generation of internal waves from turbulence is poorly understood. Through salt-water tank experiments she has analyzed the properties of internal waves that are generated below an idealized layer of turbulence and will continue to explore the wave-turbulence interaction using numerical simulations.

Sebastien A Gittens is currently enrolled in the interdisciplinary program between Pharmacy and Biomedical Engineering. His thesis research, “The development of novel means to promote the systemic bone regeneration”, revolves around the delivery of osteogenic proteins to facilitate the *in situ* engineering of bone tissue for clinical indications such as osteoporosis. Originally from Calgary, Alberta, he obtained an undergraduate degree in pharmacology from the University of Alberta.

Minglun Gong was born in Harbin, China. He received a BEngg from Harbin Engineering University and MSc from Tsinghua University. He started his PhD program at the University of Saskatchewan and transferred to the University of Alberta in 2001. His research topic is dynamic image-based rendering – an area that involves both computer graphics and computer vision techniques.

Joyce Gould was born in Alberta. She has a BSc (Honors in Botany) from the University of Alberta, and an MSc from the University of Toronto. Her research is entitled “Patterns and Attributes of Rarity in the Vascular Flora of Alberta” and is focused on understanding where rare plants occur on the landscape and what factors influence these occurrences.

Leslie I Grad was born in North York, Ontario, and raised in Richmond, BC. He obtained his BSc in biology from The University of British Columbia, and his MSc in molecular biology and genetics from the University of Alberta for his studies in mitochondrial biogenesis. He is currently investigating mitochondrial dysfunction and disease manifestation using the nematode *C. elegans* as a model system.

Sonya J Grypma is from Lethbridge, Alberta. She earned BN and MN degrees from The University of Calgary. Her PhD research topic is “Canadian Nurses in China, 1931-1951.” She will examine the work of nurses during the tumultuous years of Japanese invasion, civil war, and Communist expulsion of foreigners. Sonya’s interest in intercultural nurses stems from her nursing practice in Uganda, Guyana, and Northern BC.

Kelly L Laycock received her BA (Honors) degree from the University of Toronto before pursuing her Master’s degree at the

Andrew G McAdam	Biological Sciences
Robin Naidoo	Biological Sciences
Elisabeth Ronacher	Earth and Atmospheric Sciences
Diana Spokiene	Modern Languages and Cultural Studies
Hwee-Cheng Tan	Business – PhD
Gerald S White	Comparative Literature, Religion, and Film/Media Studies
Trudy M H Wohlleben	Earth and Atmospheric Sciences
Marguerite A Xenopoulos	Biological Sciences
Andriy Zayarnyuk	History and Classics

1999	
Paul F Choboter	Mathematical Sciences
Don Coltart	Chemistry
Diane L Gamble	Nursing
Trevor L Hilderman	Mechanical Engineering
Katharine M Jack	Anthropology
Matthew R Johnson	Mechanical Engineering
Heather A Kanuka	Educational Policy Studies
Nusha Keyghobadi	Biological Sciences
Lin Zhong	Comparative Literature, Religion, and Film/Media Studies
Tim Nieguth	Political Science
Roy R Suddaby	Business – PhD
Christopher D Todd	Biological Sciences

Honorary	
Sylvie Garneau	Chemistry
Kailan R Rubinoff	Music
1998	
Sean P Abbott	Biological Sciences
Murat M Bac	Philosophy
George W Colpitts	History and Classics
Luke Copland	Earth and Atmospheric Sciences
Patricia E Crane	Biological Sciences
Jeffrey D DiBattista	Civil and Environmental Engineering
Brian W Gobbett	History and Classics
Heng Aik Khoo	Civil and Environmental Engineering
Gregory T Lee	Mathematical Sciences
Beverly D Leipert	Nursing
Alberto Musacchio	Anthropology
Brian E Noble	Anthropology
Vera C Pratt	Agricultural, Food and Nutritional Science

Darren ER Warburton	Physical Education and Recreation
Yoke Sum Wong	Sociology
Honorary	
Gordon J Binsted	Physical Education and Recreation
Jean-Claude Couture	Secondary Education
Grace M DeSousa	English
Christine K Friesen	Psychology

Barry L Giesbrecht	Psychology
Dany Hajjar	Civil and Environmental Engineering
Melissa M Jacques	English
Douglas M McFarlane	Biological Sciences
Lindsay E Robinson	Agricultural, Food and Nutritional Science
Laura A Thue	Sociology
Ann E Tourangeau	Nursing

1997	
Douglas W Allan	Physiology
Karen B Cogan	Educational Psychology
Brian P Crenna	Earth and Atmospheric Sciences
Margaretha Ebbers	Elementary Education
Serguei Ekel'tchik	History and Classics
Yongan Gu	Mechanical Engineering
Bin Han	Mathematical Sciences
Karen A Harper	Renewable Resources
Maureen E Hupfer	Business - PhD
Lori J Jerome	Biological Sciences
Wayne D Kohn	Biochemistry
Michael R MacKinnon	Anthropology
John L Plews	Modern Languages and Comparative Studies
Doreen A Reid	Educational Policy Studies
Catherine R Williamson	Modern Languages and Comparative Studies



University of Alberta. She is currently working on her PhD dissertation entitled *(Re) Producing Travel: Travel and Gender in Early Modern England*, in which she is examining the ways in which the figure of the female traveller challenged early modern constructions of gender.

Daniel A MacIsaac was born in Kingston, Ontario. He has BSc (Biogeography) and MSc (Plant Ecology) degrees from the University of Alberta. Since 1987 he has been employed by the Canadian Forest Service with a research interest in designing partial harvest systems as an alternative to clearcutting. His thesis research, "Spatial Aspects of Boreal Mixedwood Succession and Stand Dynamics," is focused on processes controlling spatial change in aspen-spruce forests, and applications to forest management.

Dawn D Nickel received her BA and MA (History) at the University of Alberta. Her dissertation project, "When Home Was Hospice: Care of the Dying in Montana and Alberta, 1900 – 1950", will offer important insights to both historians and policy makers. The history of twentieth-century medical care is incomplete if it focuses solely on curative medicine and ignores the history of palliative care provided by professionals and non-professionals in the home.

Lesley E Peterson was born in Montreal, Quebec. She studied at Queen's University in Kingston (BA, Psychology) and the University of Manitoba (Ed Cert, Secondary Math and English; MA, English). Her research project, "Loosening the Great Chain: Early Modern Closet Drama by Women," focuses on the dramatic works of Mary Sidney Herbert, Elizabeth Cary, Mary Wroth and Margaret Cavendish.

Christina-Adela Popescu was born in Craiova, Romania. She has a BSc in Mathematics and an MSc in Applied Mathematics, both from University of Craiova. Her research concerns the prediction of non-linear dynamics using a statistical approach. She is investigating applications in aeroelasticity and machine learning.

Ann Marie Ranson Ratusz was born in Medicine Hat, Alberta. She has a BSc and an MSc from the University of Alberta. *Research:* Childhood Sexual Abuse, Systematic Review of Nursing Education Literature. *Current research:* The History of Women who Experienced Childhood Sexual Abuse.

Sorin Tomuta was born in Timisoara, Romania. He holds a BA (Romanian and English) from the University of the West, Timisoara, an MA (Romanian) from the University of the West, Timisoara, and an MA (Comparative Literature) from the University of Western Ontario. In his dissertation, "Entropy and the Problem of Closure in the Twentieth-Century Novel," he will focus on the shift from a plot that, following the Aristotelian view, tends to harmonize the conflicts of the world to a "plot" that, echoing the newer theories in physics, such as the principle of uncertainty, cannot mediate the contradictions it describes.

Jennifer Anne Tupper was born in Halifax. She holds a BEd from the University of Alberta and an MA from the University of British Columbia. Her research is titled *Across the Great Divide: Citizenship and Representation in Social Studies Education*. This project will explore the liberal tradition of citizenship in social studies education and its relationship to cultural reproduction and issues of gender in curricular content.

Honorary

Teresa M Dobson	Secondary Education
Andrei V Frolov	Physics
Jennifer A Hiebert	Biological Sciences
Kimberly L Howland	Biological Sciences
Heather A Smyth	English

1996

David F Collins	Neuroscience
Roumiana G Deltcheva	Modern Languages and Comparative Studies
Robert G Driver	Civil and Environmental Engineering
Cidalia M Duarte	Anthropology
Rosemary Y Foster	Educational Policy Studies
Andreas Junghanns	Computing Science
Richard H Karsten	Mathematical Sciences
Janice E King	Biological Sciences
David A Medler	Psychology
David S Sept	Physics
Denise L Spitzer	Anthropology
Frank M Wilhelm	Biological Sciences

Honorary

Jason Cooke	Chemistry
Rebecca J Luce-Kapler	Secondary Education
Susan M McMahon	History and Classics
Janet L Menard	Psychology

Raylene A Reimer	Agricultural, Food and Nutritional Science
Kevin J Robbie	Electrical and Computer Engineering
Grace A Schlosser	Educational Psychology

1995

Vladimir I Alexiev	Computing Science
John M Amis	Physical Education and Recreation
Lily Avrutin	Modern Languages and Comparative Studies
Hedy E Bach	Elementary Education
Caroline M Haverkort	Anthropology
Ingrid Johnston	Secondary Education
Teresa N Rose	Business - PhD
Dave Schriemer	Chemistry
Cyrus Shafai	Electrical Engineering
Wee-Ke Tang	Mathematical Sciences
Eduard J Vlasov	Modern Languages and Comparative Studies
Shelley A Weaver	Agricultural, Food and Nutritional Science
Zhanping Xu	Chemical Engineering

Honorary

Tara J Fenwick	Educational Policy Studies
Bonnie M French	Psychology
Reuben S Harris	Biological Sciences

1994

John GH Dunn	Physical Education and Sport Studies
James Farquhar	Geology
John T Goddard	Educational Policy Studies
Leanne M Groeneveld	English
Kerstin Hassloecher	Comparative Studies of Literature, Film and Religion
Ujwal A Kayande	Business - PhD
Kirill A Kopotun	Mathematical Sciences
Tatia MC Lee	Educational Psychology
Yuri V Leontyev	Computing Science
Liu Yaoquan	Chemistry
Peter W Roberts	Business - PhD
I Roderick Smith	Geography
Xia Qijun	Chemical Engineering

Honorary

Nancy L Gibson	Anthropology
Deborah A McLeod	English

1993

F Michael Bartlett	Civil Engineering
Rhonda-Lea Batchelor	English
Timothy Berrett	Physical Education and Sport Studies
Patrick R Brady	Physics
Isabelle A Donald	Classics
Karen M Heaton	English



David R Wagner was born in Simcoe, Ontario and has taught mathematics in Alberta and Swaziland. He obtained a BRS from the Mennonite Brethren Bible College, Winnipeg, a BA from the University of Winnipeg, and a BEd and MEd from the University of Alberta. His doctoral research, entitled “Let Them Ask Why: Building Students’ Critical Awareness of Mathematics Discourse,” will consider high school students’ mathematical literacy when it is informed by their analysis of their own discourse.

Mark K Watson graduated from the University of Kent at Canterbury, UK, in Communications Studies spending a year abroad at the University of Jyväskylä, Finland. Graduated with an MA from the School of Oriental and African Studies, University of London, UK. Currently Visiting Researcher at Showa Women’s University, Tokyo, Japan. Conducting fieldwork with Indigenous Ainu living in and around the capital region.

Philip M Wilson obtained a BSc from the University of North Carolina and an MSc from the University of North Dakota. His thesis research (entitled “Psychological Need Satisfaction and Exercise Behaviour”) will examine the broad array of psychological factors that initiate and sustain participation.

2002 Honorary Izaak Walton Killam Memorial Scholars

Kristen Sarah Buchanan is originally from Winnipeg, and earned a BSc in environmental science/physics from the University of Manitoba. After an internship with the Geological Survey of Canada, she completed an MSc in geophysics at the University of Alberta. Her PhD research in condensed

matter physics at the University of Alberta focuses on the magnetic properties of nanocomposite materials.

Norman P Friesen earned his BA (Honors) from the University of Winnipeg, completing courses in the Universities of Mannheim and Heidelberg. He also has Masters degrees in German Literature from The Johns Hopkins University and in Library and Information Studies from the University of Alberta. His research “A Phenomenology of Computer-Mediated Learning,” examines the pedagogical dimensions of the relationship between computer operation and human activity. Specifically, it focuses on computer-mediated communication and human-computer interaction, comparing these activities to those of face-to-face seminar settings.

Douglas Paul Gross is originally from Claresholm, Alberta. He received a BSc in Physical Therapy from the University of Alberta. His thesis research in Rehabilitation Science, “Functional Capacity Evaluation: Its Role in Predicting Successful Return to Work Following Back Injury,” aims at evaluating a commonly used clinical test.

Elizabeth M Hearn has a BSc in Biochemistry from the University of Guelph. Her thesis research in Chemical Engineering and Biological Sciences is identification and characterization of an efflux system for polycyclic aromatic hydrocarbons in *Pseudomonas fluorescens*. Many bacteria possess efflux systems to remove toxic compounds, such as antibiotics, from the cell. *P. fluorescens* has a similar system, but is unique in its ability to transport hydrocarbons.

Kaley R Mason was born in Ontario and completed a BMus at Queen’s University in Kingston and through an exchange with

Douglas L Hogue	Biochemistry
Christian P Klingenberg	Entomology
Martha P Schreiber	Biochemistry
Leslie C Twilley	Psychology

Honorary

Clifford D Keefe	Chemistry
Liliana Rossi	Comparative Literature and Film Studies
Dennis J Sumara	Secondary Education

1992

Michel Cantin	Chemistry
Richard J Deslippe	Zoology
Kathleen M Durante	Zoology
Timothy J Heath	English
Robert G L Hesketh	History
Beverly A Himick	Zoology
Jane L Magrath	English
Waldemar H Riemer	Germanic Languages
Norman G Sawatsky	Soil Science
Debra L Schroeder	Elementary Education

Honorary

Priscilla M Koop	Family Studies
Sharon M Morsink	Physics
Donovan T Plumb	Educational Foundations
Darlene L Witte	Elementary Education

1991

Elyse K Abraham	Linguistics
Michael Heine	Physical Education and Sport Studies
Hu Zhiguo	Mathematics
Caroline Hudecek	Anthropology
Kong Qingkai	Mathematics
James MacEachern	Geology
Ekaterina Nikolarea	Comparative Literature
Andrzej Prus Czarnecki	Physics
Shirleen Smith	Anthropology
Sandra Umpleby	Educational Administration

Honorary

Theresa Beckie	Educational Psychology
Joanne Volden	Educational Psychology

1990

David W Blades	Secondary Education
Rhae A Drijber	Soil Science
Margaret M Drummond	Classics
Evelyn M Ellerman	Comparative Literature
Roy Frenzel	Educational Psychology
Masayuki Fujita	Electrical Engineering
E Haseganu-Zamfirescu	Mechanical Engineering
Karl W Larsen	Zoology
Torun Sabri Oncu	Mathematics
Susan E Samuels	Animal Science

Honorary

Jill McClay	Secondary Education
Kathleen Oberle	Educational Psychology

1989

Rodney Beattie	Educational Psychology
Wei-Qun Dai	Comparative Literature
Caroline Falkner	Classics
Judith Fisher	English
Marei Griffith	Chemistry
Lynn Hazen	Educational Psychology
Ryszard Komorowski	Mathematics
Carleton Leggo	Secondary Education
Frantisek Nisack	Electrical Engineering
Kevin Wamsley	Physical Education and Sport Studies

1988

May Charles	Comparative Literature
Dorothy Constable	Chemical Engineering
Yinxu Huang	Mathematics
Tololwa Mollel	Drama
Christine Moreau	English
Michael Ranger	Geology
Chrisina Tannous	Romance Languages
Koon Hoo Teo	Electrical Engineering
Ado Umezawa	Physics



the Queen's University of Belfast. While studying in Northern Ireland he developed an interest in anthropology that led to his current work in ethnomusicology at the University of Alberta. His research will explore the relationship between globalization and the musical practices of indigenous communities in south-western India.

Sean A McKenna was born and raised in Toronto. He received his BSc in Biochemistry from Queen's University. His current research focus is the examination of protein-protein interactions in the protein ubiquitination cascade using Nuclear Magnetic Resonance techniques.

Patrick A Pantel was born in Winnipeg. He received a Bachelor of Computer Science (Honors) with the Faculty of Science Gold Medal from the University of Manitoba. His research interests are in Natural Language Processing and Machine Learning, both sub-fields of Artificial Intelligence. Research title: Clustering by Committee.

2002 Izaak Walton Killam Memorial Scholars – Renewals

Lois K Barranoik has a BA in Sociology from Eastern Mennonite College, Harrisonburg, Virginia, and a Professional Diploma in Education and a MLS degree from the University of Alberta. She has more than twenty years of teaching experience in grades K-12 in Edmonton Public Schools. Her research, *Meaningful Research Projects: Perspectives from High School Students and their Teacher*, uses a participatory action research approach to explore what high school students experience as meaningful learning in the information search process.

Donna M Chovanec holds a BSW from The University of Calgary and an MEd (adult education) from the University of Alberta. Her doctoral research is entitled "Learning Power from the Margins: Grassroots Women's Movements in Chile" for which she conducted ethnographic fieldwork in marginal neighbourhoods in a small northern city of Chile.

Caroline E Davis has an MA (Human Ecology) from the University of Alberta and a BA (History) from The University of British Columbia. Her research program relates to the meanings surrounding the interaction of individuals with forests and the production of forest products. Her focus includes Aboriginal populations in Canada, Guatemala and the Philippines. She is currently working with the Moose Cree on a research project, "Non-Timber Forest Product (NTFP) Values of the Moose Cree," aimed at understanding the significance of NTFPs (e.g., bark, berries, moss and plants) to members of the community.

Adrian S Fairey obtained a BA (Recreation Administration) and an MSc, both from the University of Alberta. His research: Randomized Controlled Trial of Exercise and Cancer Control will examine the effect of exercise training on biologic markers of recurrence and survival in postmenopausal breast cancer survivors.

Hesham Fouli was born in Cairo, Egypt. He received a BSc in Civil Engineering from Ain-Shams University, Cairo; and an MSc in Water Resources Engineering from the University of Karlsruhe, Germany. Thesis topic: "Dynamics of two-layer down-slope flows: instability and mixing." The characteristics of interfacial Kelvin-Helmholtz instabilities in salinity stratified

Gerald Wandio	English
Carl J Warren	Soil Science
1987	
Paul Belanger	Romance Languages
Jian Chen	Chemistry
Pui-wan Cheng	Educational Psychology
Nancy Collinge	Anthropology
Michael Duke	Geology
David Gay	English
Xian-Qin Hu	Geology
Chung Hwang	Computing Science
Tianxuan Miao	Mathematics
Robert Pitter	Physical Education and Sport Studies
Stephen Smith	Secondary Education
David Stredulinsky	Mechanical Engineering
1986	
Stanley Beeler	Comparative Literature
Olenka Bilash	Elementary Education
Jacqueline Douglas	Educational Psychology
Hong Jiang	Mathematics
Yang Kuang	Mathematics
David Liverman	Geology
Arokia Nathan	Electrical Engineering
Margaret Sellick	Educational Psychology

1985	
Hermes Benitez	Educational Foundations
Sylvia Berg	English
Peter Crocker	Physical Education
Jerome Ell	Educational Administration
Mikio Fujita	Secondary Education
Margaret Harrison	Family Studies
Andriy Nahachewsky	Slavic and East European Studies
On Wong	Physics
Zhuocheng Yang	Mathematics
1984	
Per Dalgaard	Comparative Literature
Katie Jones	Comparative Literature
Inger Lauridsen	Comparative Literature
Stewart Petersen	Physical Education
Xi-Shuo Wang	Physics
Honorary	
John Hebron	Physics
1983	
Gunadya Bandarage	Chemistry
Vidanagamage Epa	Chemistry
P Rod Evans	Educational Administration
Robert Grigjanis	Physics

Ian Humphreys	Physical Education
Richard Martin	English
Allan Reid	Slavic and East European Studies
Ronald Sawatzky	Mathematics
Frances Swyripa	History
Honorary	
Darrell Makarenko	Computing Science
Peter Piercy	Physics
1982	
David Chan	Civil Engineering
Randal Kobes	Physics
Niall Shanks	Philosophy
Margaret Turner	English
Lillian Upright	Music
Rhoda Zuk	English
Honorary	
Ronald Meleshko	Mathematics
Malcolm Ramsay	Zoology
Ronald Salmon	Animal Science
1981	
Robert Attridge	English
J Michael Bopp	Secondary Education
Eamonn Callan	Educational Foundations



two-layer flow over bottom topography are among the main research components.

Sylvie Garneau was born in Quebec City. Her BSc and MSc were obtained at Université Laval. Title of research: “New Antimicrobial Agents Acting on Bacterial Cell Walls.” Inhibiting peptidoglycan biosynthesis is an often-used strategy for the development of new antimicrobial agents. Two different approaches have been undertaken to develop potential inhibitors of the peptidoglycan biosynthesis. The chemical syntheses of several analogs of lipid II have been achieved. Structural and activity studies on various purified bacteriocins (brochocin-C, piscicolin 126, and carnobacteriocins Br and BM1) have also been realized.

Monica A Ilie was born in Romania and completed her undergraduate studies at Bucharest University. Her research is in pure mathematics in the area of abstract harmonic analysis, with the title “Properties of Fourier algebra homomorphisms.” She is investigating the connection between such homomorphisms and maps between the underlying groups as well as the consequences of this phenomenon.

Y K Justin Jeon has a BSc from Yonsei University, Korea and an MSc from the University of Alberta. The purpose of his study is to investigate the risk of developing diabetes and the effects of exercise training on diabetes in people with spinal cord injury.

Nicola Koper completed her BSc and MSc at the University of Guelph. Her research examines the influence of habitat management programs for duck conservation (grazing management and

wetland remediation) on other species, particularly songbirds in Southern Alberta. In addition, she is determining effects of loss and fragmentation of native prairie on avian species.

Melissa Lafreniere was born in Mattawa, Ontario. She has a BSc (Geography) from The University of Western Ontario. Her research involves the use of hydrochemical analyses of surface waters to determine how differences in water sources and hydrologic flow routing between glacial and non-glacial watersheds affect the transport of organochlorine contaminants.

Kimberly N Larsen received her BA (Honors) in English from the University of Alberta and her MA in English from McGill University. In her thesis, “The woman almost fades from view”: Dante Gabriel Rossetti and the Pre-Raphaelite Culture of Aesthetic Production and Consumption,” Kim will explore the gendered and classist power dynamics at work in the art of the Pre-Raphaelite Brotherhood, attempting to open up, within this masculine circle, a space for the production and reception of art by the Brotherhood’s female counterparts.

Oy Leuangthong was born in Laos. She has a BAsC in Civil Engineering from the University of Toronto. Title of thesis: *Multivariate Geostatistics for Improved Numerical Modeling of Natural Resources*. Management of natural resources depends upon a clear understanding of the size, variability and extent of the resource. Geostatistical techniques will be developed for integrating multiple data types to construct more realistic numerical models for natural resource characterization.

Minnan Liu came from the Peoples Republic of China. She obtained her BSc in Tsinghua University, China and her MSc in

David Jack	Physics
Richard Lowell	Zoology
Shelley Quinn	Comparative Literature
Trevor Williams	Physical Education
Gail Wolkowicz	Mathematics

1980	
Udaya Dash	Educational Psychology
Erika Hargesheimer	Pharmacy
Halyna Muchin	Slavic Languages
Ralph Wilcox	Physical Education
Anna Wittman	Comparative Literature

Honorary	
Metro Hrabok	Civil Engineering

1979	
Peter Ashmore	Geography
Vittorio Farina	Chemistry
Marguerite Garstin	Comparative Literature
Sheila Greer	Psychology
Douglas Phillips	Geography
David Piper	Educational Psychology
Robert Reid	Chemistry
Peter Tyson	Germanic Languages
Harm Vogel	Biochemistry

Honorary	
Heather-Jo Gillespie	Sociology

1978	
Marianne Henn	Germanic Languages
Charles Fred Judson	Political Science
Ursula Lefevre	Romance Languages
Patricia Lertora	Romance Languages
Georgia Magnera	Linguistics
Cheryl Malmo	Educational Psychology
Lyle Weis	English
Daniel Zirker	Political Science

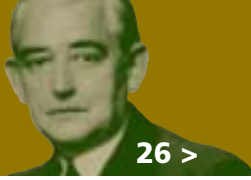
1977	
Amaryll Chanady	Comparative Literature
Alaa Elwi	Civil Engineering
Ian Franks	Physical Education
Dorothy Gillingham	Educational Psychology
Cecile Lafontaine	Comparative Literature
Ernest Nicholls	Physical Education
Pasquale Sodano	Physics
Swee-Hin Toh	Educational Foundations

Honorary	
Bonnie Edwards	Physics

1976	
David Ganley	Physics
John Kramer	Physical Education
Kerrie Pain	Educational Psychology
Johannes Reuvers	Chemistry
Kevin Ridley	Geology
Marios Sophocleous	Geology
Patrick Verriour	Elementary Education

Honorary	
Desmond Brown	History
BJ Caldwell	Educational Administration
AW Hayduk	Educational Psychology
BA Hiebert	Educational Psychology

1975	
Heather Botting	Anthropology
Craig Hall	Physical Education
Jeremy Jones	Comparative Literature
William Lovell	Geography
Ajit Mohanty	Educational Psychology
Suree Narindrasorasak	Biochemistry
Natalie Sharpe	Anthropology
Judith Spencer	Romance Languages
Timothy Stewart	Comparative Literature
Michael Wilkinson	Educational Psychology



the China Institute of Water Resources and Hydropower Research. The title of her research is “Structure of Flow in Vertical Slot Fishways and Hydraulic Jumps using ADV.”

Tololwa M Mollel has a BA (Honors) from the University of Dar es Salaam, Tanzania and an MA from the University of Alberta. His doctoral research, “The Folktale and Theatre: an Intercultural Experience,” explores how well folktales lend themselves to contemporary artistic work, across time, cultures and media. He uses two approaches. The first involves his adaptation of a folktale into a play for children. The second involves a scholarly study of the intercultural process behind transferring his native African folktales from one cultural context into another, and from one medium into another.

Charlotte A Pooler was born in Killam, Alberta, and graduated from the University of Alberta (BScN) and The University of Calgary (MN). She teaches critical care nursing. Her research, “Experiences of Breathing in Adults with Pulmonary or Cardiac Disease” is a hermeneutic phenomenological study to explore meanings, descriptors, and perceptions of breathing in illnesses in order to enable assessment and alleviation of symptoms.

George W Powell was born in Quesnel, British Columbia. He has a BSc (Agriculture) and an MSc from The University of British Columbia. Research: Completion and Facilitation Between the Overstory and Understory of Aspen. His research is quantifying ecological interactions between aspen and herbaceous plants to provide a scientific basis for agroforestry systems – trees integrated into agricultural production – suitable for Canada.

Merritt R Turetsky obtained a BSc in Biology from Villanova University. The boreal forest contains a rich store of carbon, mainly in soils, equivalent to more than 50% of all the carbon in the atmosphere. While atmospheric models suggest that high-latitude ecosystems currently serve as a net sink for carbon dioxide, her research seeks to understand the nature of soil carbon accumulation under global change scenarios, i.e., with increased fire and permafrost collapse.

Dustin S White is originally from Northern California. He received a BA degree in Anthropology from Humboldt State University and an MA in Interdisciplinary Studies at Oregon State University. His research involves the reconstruction of patterns of climate and environmental change in Central Siberia over the last 10,000 years before present. Through the integration of climate modelling techniques and analyses of paleoenvironmental proxy data, a detailed sequence of Holocene climatic change will be presented, which will assist in evaluating the changing landscapes in the Lake Baikal region and the adaptive strategies of boreal forest hunter-gatherers.

2002 Honorary Izaak Walton Killam Memorial Scholars – Renewals

Ernst C Gerhardt was born in Calgary, but has lived in Edmonton for the past 13 years. He has a BA (Honors) and an MA from the University of Alberta. Title of Research: “Explorations of the Nation: Early English Drama and Histories.” His research investigates the manner in and the degree to

Honorary

Dee Brooks	Chemistry
Denis DePape	Economics
Dale Drost	Secondary Education
Janice McGinnis	History

1974

Calvin Botterill	Physical Education
Roger Burrows	Romance Languages
Kim Chee	Physics
Sylvia Csorba	Germanic Languages
Jacques Duysens	Physiology
Sharon Hornsby	Zoology
Arlene Kwasniak	Philosophy
Antoinette Oberg	Elementary Education
Derek Stilwell	English

Honorary

Frances Bates	Chemistry
William Corcoran	Secondary Education
George Lang	Comparative Literature
Ross MacPhee	Anthropology
Barbara Mensch	Comparative Literature
Renate Peters	Romance Languages
Lorna Vaughan	English
Ronald Wiens	Physics

1973

Bettina Blackall	Elementary Education
Mohammed Deeb	Comparative Literature
Reinaldo Elugardo	Philosophy
Jeremiah Ezekiel	Political Science
Mary Hamilton	Comparative Literature
Takako Holmes	Genetics
Andrew Hughes	Secondary Education
Allan Jones	Anthropology
Nina Kolesnikoff	Comparative Literature
William McBlain	Zoology
David McMurray	Comparative Literature
Emily Odynak	Elementary Education
Thomas Prebble	Educational Administration

Honorary

Barbara Belyea	Comparative Literature
Sheila Brown	Geography
Susan Haley	Philosophy
Edward Hobbs	Secondary Education
John Kirby	Educational Psychology
Charles Ledgerwood	Secondary Education
David Liang	Electrical Engineering
Kenneth Luckhardt	Anthropology
Martin McNichol	Zoology
Peter Nielsen	Geology

Danny Reshetylo	Anthropology
Thomas Sayer	Chemistry
Susan Therrien	Elementary Education
Peter Wright	Chemistry

1972

James Auferil	Romance Languages
Florian Bail	Political Science
Joseph Fikart	Electrical Engineering
Gary Ford	Educational Psychology
Rolland Gaudet	Mathematics
Eugene Maltais	Political Science
Anna Qureshi	Anthropology
John Richmond	Educational Psychology
William Roger	Physics
Antonni Serra	Romance Languages
Richard Stubbs	Political Science

Honorary

Dennis Bartels	Anthropology
Carl Betke	History
Malcolm Eley	Educational Psychology
Raymond Jones	English
Howard Leeson	Political Science
Barry Lesser	Biochemistry
Robert Skeel	Computing Science
Rebecca Smith	English

which late fifteenth- and early sixteenth-century English drama and historiography share common rhetorics, structures, and publication networks in their representation and discursive circulation of the English nation and nationalism.

Jonathan F Holzman graduated with a BSc from the University of Alberta. Title of Research: “Ultrafast Photonics Applications for Terahertz Frequency Generation.” His research in the Ultrafast Photonics Laboratory revolves around the use of ultrashort pulsed laser systems and ultrafast optical switches. The short, but powerful, bursts of light made available from this technology have revolutionized the applied fields of microelectronics, optical-computing, and telecommunications, where both optical and opto-electronic switching techniques are now necessary for rapid transmission of ultrahigh bandwidth information signals.

Scott R Kennedy was born in Prince George, BC. He obtained a BSc degree in Engineering Physics at the University of Alberta. His current research involves the design, fabrication and development of photonic devices produced using a unique thin film deposition technique. He is working on the development of a new type of optical material known as a ‘photonic crystal’ that is analogous to semiconductors used in modern electronics. The ultimate goal is to gain the capability of processing light signals at the ends of fibre networks rather than only being able to transfer the information optically and being forced to perform the processing in the inefficient electrical domain.

H Peter Midgley graduated with a BA (Honors) in Afrikaans and MA (English) from Rhodes University, South Africa. His research attempts to establish the extent to which traditional amaXhosa spirituality has been utilized in literature to shape a discernibly South African worldview and sense of identity. By looking at literature written in Afrikaans, English and isiXhosa, he is investigating the changing ways in which South Africans have viewed themselves and their relationship to the African continent.

Aida M H Patient is originally from Yemen, and obtained BA (Honors), BSc and MA degrees from The University of Calgary. Her undergraduate training in both English and Microbiology has fostered an interest in inter-disciplinary studies, envisioning a PhD project titled “Politics of Participation: Seventeenth and Eighteenth-Century Women’s Discourses of Modern Science.” This research focuses on how women writers challenge contemporary intellectual male circles and negotiate the discursive space of modern science.

Maisaa Youssef has a BA (Honors) and an MA in English and Contemporary Social and Political Thought from the University of Victoria. Current research project, “The Intellectual Challenge of Global Statelessness”, interrogates the dissociation of the realm of cultural representation and production from that of institutional reform in postcolonial and globalisation theories.

Shirley Swartz	English
Lorette Toews	Educational Psychology

1971

Eric Buckolz	Physical Education
David Christophel	Botany
Margaret Cooper	Comparative Literature
Walter Crowl	History
Darrel Falk	Genetics
R Gopalan	Mathematics
Francis Macri	Comparative Literature
Kenneth McCalla	Romance Languages
Brian Stackhouse	Physics
Masaaki Suko	Civil Engineering
Ursula Ulrich	Comparative Literature

Honorary

Richard Flanagan	Chemistry
David Gray	Zoology
Robert Mansell	Economics
Edward McRoberts	Civil Engineering
Joseph Straus	Physics

1970

Thomas Ashton	Physical Education
F Mohamed El-Hawary	Electrical Engineering
Albert Hollingshead	Civil Engineering

Terry Hruzey	Mechanical Engineering
Roger Palmer	Physics
Richard Preece	Economics
Michael Salter	Physical Education
Sushil Sarna	Electrical Engineering
Wing-Fatt Soo	Physics
Everard Trip	Chemistry
Howard Watts	Elementary Education
El-Sayed Youssef	Electrical Engineering

Honorary

Shirley Brewer	Classics
Marilyn Crozier	Educational Psychology
Christopher Ringrose	English

1969

Diane Gillespie	English
John Gilliland	Physics
Jim McClements	Physical Education
Geoffrey Michaels	Electrical Engineering
Anne O’Grady	English
Jeffrey Rowe	Chemistry
Anne B Smith	Educational Psychology
Sham Sundar	Chemistry
Glenn Watkins	Physical Education
Richard Watson	Geography

Honorary

Dieter Hartmetz	Germanic Languages
Lawrence McCann	Geography

1968

Kamal Botros	Physics
Eung-Do Cook	Linguistics
David Elton	Political Science
Karen Hansen	Linguistics
Gertrud Lewis	Germanic Languages
Jack Lewis	English
Peter Loewen	Chemistry
Robert Rains	Geography
Jean Ruth	Educational Psychology

Honorary

Michael Smith	Physics
---------------	---------

1967

Peter Atherton	Educational Administration
William Ellis	Chemistry
Edward Holdaway	Educational Administration
David Hutcheon	Physics
Marlene Macki	Sociology
William Skidmore	Sociology
Richard A Young	Romance Languages



UNIVERSITY OF ALBERTA KILLAM MEMORIAL POSTDOCTORAL FELLOWS

Descriptions of the academic background and research interests of the 13 new and renewal Killam Postdoctoral Fellows and the two new and renewal Honorary Killam Postdoctoral Fellows are provided below. These are followed by a list of all 191 awardees since 1967. The comments included for Killam Scholars in the previous section also apply to Killam Postdoctoral Fellows.

Killam Postdoctoral Fellowships are granted for two years and the aim is to attract scholars of superior research ability who have obtained a doctoral degree within the last three years; the Fellowships are not intended for individuals already well established in their discipline. Each fellowship includes a stipend of \$38,000 per year, a one-time research allowance of \$4,000, and a travel allowance.

Honorary Killam Postdoctoral Fellowships are awarded to excellent scholars who will receive significant income from another major award. Honorary Fellows qualify for all the benefits afforded to Killam Postdoctoral Fellows. This includes the

travel allowance, the research allowance and if applicable, a top-up to the stipend of their other award to bring it to the current level of a Killam Postdoctoral Fellowship.

2002 Izaak Walton Killam Memorial Postdoctoral Fellows

Claire Campbell completed an Honors BA at King's College, Dalhousie, and then a MA in Public History and a PhD in Canadian History at the University of Western Ontario. Her research project, "*Some Stubborn Northern Flowering: Landscape in the Historical Imagination,*" brings together her interests in environmental history and regional diversity by examining how landscapes are used at provincial and national historic sites to create an identity for the West.

Timothy Carroll was born in Brisbane, Australia, where he graduated from The University of Queensland with a BSc (Honors) and a PhD in Neuroscience. His research goal is to determine how the nervous system is reorganized after exercise. The title of his fellowship is "Training induced plasticity of spinal reflex and corticospinal pathways in the upper limbs after stroke."

Isabelle Charrier is a French PhD whose main research interest is animal acoustic communication. She conducted her doctoral research at the University of Lyon, studying mother-pup vocal recognition in the Subantarctic fur seal. At the University of Alberta, she is working as a member of the "Comparative

Izaak Walton Killam Memorial Postdoctoral Fellows*

2002	
Dr Claire E Campbell	History & Classics
Dr Timothy Carroll	Physical Education & Recreation
Dr Isabelle Charrier	Psychology
Dr Diana M Davidson	English
Dr Gilad Gour	Physics
Dr Nathan Jones	Chemistry
Dr Matti-Jussi Koivula	Renewable Resources
Dr Oksana Ostroverkhova	Physics
Honorary	
Dr Marjorie J Wonham	Biological Sciences

2001	
Dr Karin Barton	Modern Languages & Cultural Studies
Dr Xiaobei Chen	Political Science
Dr Stephen Fairhurst	Physics
Dr Jeffrey P Reeve	Medical Genetics
Dr Dejan B Stojkovic	Physics
Honorary	
Dr Jannette M. Dufour	Surgery

2000	
Dr Jose Miguel Cerda-Reverter	Biological Sciences
Dr Yuming Chen	Mathematical Sciences

Dr Sonia Ann MacPherson	Secondary Education
Dr Amelia Maciszewski	Music
Dr Christy Ann Simpson	Educational Psychology

Honorary	
Dr Richard David Cunningham	English
Dr Noreen Dianne Willows	Agricultural, Food and Nutritional Science

1999	
Dr Fiona C Black and Film/Media	Comparative Literature, Religion, Studies
Dr Selvadurai Dayanandan	Renewable Resources
Dr Jennifer A Dickinson	Modern Languages and Cultural Studies
Dr Stephen F Matter	Biological Sciences
Dr Karen Simons	English

1998	
Dr Liying Cheng	Educational Psychology
Dr Michael Frishkopf	Music
Dr Monica Nevins	Mathematical Sciences
Dr Nikolai Ssorin-Chaikov	Anthropology
Dr Glenda L Wall	Sociology
Honorary	
Dr Ian C Robertson	Biological Sciences
Dr Rolf D Vinebrook	Biological Sciences

1997	
Dr Gerard W Boychurch	Political Science

Dr Christina Gabriel	Political Science
Dr Jeff Hudson	Biological Sciences
Dr Hotze Rullmann	Linguistics
Dr Raymond G Siemens	English
Dr Jeffrey G Snodgrass	Anthropology
Dr Hua Yan	Physics

Honorary	
Dr Yunjie Xu	Chemistry

1996	
Dr Mercedes Dujunco	Music
Dr Bradley C Lackey	Mathematical Sciences
Dr Roberta L Millard	Earth and Atmospheric Sciences
Dr D Mark Simpson	English

Honorary	
Dr Abdulhakem Elezzabi	Physics
Dr Susan E Perry	Anthropology

1995	
Dr Colleen Cassidy St Clair	Biological Sciences
Dr Jens FW Petersen	Biochemistry
Dr Massimo Torri	Physics
Dr Byeong-Uk Yi	Philosophy

Honorary	
Dr Christopher J Keep	English

1994	
Dr Bonnie Effros	History and Classics
Dr Lisa Gould	Anthropology

* Note
Honorary Killam Postdoctoral Fellows receive significant income from another major postdoctoral award. Honorary Fellows qualify for all the benefits afforded to Killam Postdoctoral Fellows.

Cognition and Behaviour Group” in the Department of Psychology. Her research will focus on songbird acoustic communication, especially cognition and auditory perception in black-capped chickadees.

Diana Davidson is originally from Beaverlodge, Alberta. She received a BA Honors and MA in English from the University of Alberta. She is working on a manuscript entitled *Women Writing Postcoloniality and HIV/AIDS* after completing a PhD in Literature, *Writing HIV/AIDS in the West After 1990: Tensions of an Activist Aesthetic*, at the University of York, England. She teaches contemporary American, Canadian, and British literature as well as HIV/AIDS history and prevention.

Gilad Gour has studied at The Hebrew University of Jerusalem for the past nine years, receiving a PhD from the Racah Institute of Physics. The title of his thesis is “Thermodynamics and quantum mechanics of black holes.” He is also interested in quantum gravity in general, and in the foundations (and interpretations) of quantum mechanics.

Nathan David Jones was born in Harare, Zimbabwe. He graduated BSc (Honors) in Chemistry and Biochemistry, and PhD in Inorganic Chemistry and Catalysis from The University of British Columbia. Research interests: fundamental studies of late transition metal organometallic (particularly carbene) complexes, catalytic C-X bond forming reactions (X = C, N, O), cooperative effects in bimetallic catalysis.

2002 Honorary Izaak Walton Killam Memorial Postdoctoral Fellow

Marjorie Wonham received a BA and MA in Natural Sciences from the University of Cambridge, an MA in East/West Marine Biology from Northeastern University, Boston, and a PhD in Zoology Department from the University of Washington, Seattle. Current Research: Mechanistic modelling of introduced species spread and control: West Nile virus in North America, aquatic invaders in the Great Lakes, and marine invertebrates on the Pacific coast.

2002 Izaak Walton Killam Memorial Postdoctoral Fellows – Renewals

Karin Barton is originally from Germany where she gained an MA in Political Science and German Literature, University of Mannheim. She then graduated MA German from the University of Waterloo and PhD German Literature, University of Toronto. Thesis: *The Disorder of the Sexes*, Rousseau, Goethe and the *Sorrows of Young Werther* (on the politics and poetics of sex and gender). Present research: *Intercourse with the Devil: Crime and Salvation in Goethe's Faust* (the male and female devil's pact, relation to European witch trials, Shakespeare's *Macbeth*, crime and literature, law and rhetoric).

Xiaobei Chen received her PhD from the University of Toronto, and her MPhil from The University of Hong Kong. She grew up and received her undergraduate education in

Dr Nicholas J Lunn	Biological Sciences
Dr Ali Mostafazadeh	Physics
Honorary	
Dr Bart Hazes	Medical Microbiology and Infectious Diseases
Dr Jane M Taylor	Chemistry
1993	
Dr Deborah J Brown	Philosophy
Dr Le Xiao-Chun	Chemistry
Dr Li Hao	English
Honorary	
Dr Brian J Lowry	Chemical Engineering
1992	
Dr Antony R Atkins	English
Dr Jeffrey A Keshen	History
Dr Sergio L Schmidt	Psychology
Honorary	
Dr J Craig Bennett	Physics
Dr Garry J Scrimgeour	Zoology
1991	
Dr P Jeff Curtis	Zoology
Dr Paul T Keyser	Classics
Dr Jolanta T Pekacz	Music
Dr Simon D Pollard	Entomology
Dr Michael J Walter	Geology

Honorary	
Dr Marilyn Walker	Anthropology
1990	
Dr Martin Backstrom	East Asian Languages/Comparative Literature
Dr Jose Curto	Sociology
Dr Katherine Fierlbeck	Political Science
Dr Randy Harris	Linguistics
Dr Mark Zabriskie	Chemistry
Honorary	
Dr Riitta Savolainen	Zoology
1989	
Dr Robert Denver	Zoology
Dr Lisa Crocker	Chemistry
Dr Jari Niemela	Entomology
1988	
Dr Ellen Bielawski	Anthropology
Dr Judith Bronstein	Zoology
Dr John Henderson	Psychology
Dr Norman Ingram	History
Dr Ronald Love	History
Dr Sandra Niessen	Clothing and Textiles
Dr Joseph Pawlik	Zoology
Dr Lung-kee Sun	History
Dr Shusuke Yagi	Anthropology

1987	
Dr Gordon Harvey	English
Dr Carlos Torres	Educational Foundations
Dr Alexander Reinefeld	Computing Science
Dr David Stern	Philosophy
1986	
Dr Charles Burton	Political Science
Dr Krzysztof Golos	Mechanical Engineering
Dr Stephen Speyer	Geology
1985	
Dr Pamela Asquith	Anthropology
Dr Andreas Athienitis	Mechanical Engineering
Dr Barry Dent	Chemistry
Dr Gordon Goldsborough	Botany
Dr Robert Swaskey	Comparative Literature
Dr Manfred Zimmermann	Entomology
1984	
Dr Johannes Kingma	Psychology
Dr Larry McEdward	Zoology
Dr John Pickard	Botany
Dr William Smythe	Psychology
1983	
Dr Ruth Glancy	English
Dr Andre Huizer	Electrical Engineering
Dr Stephen Kent	Sociology



Guizhou Province in the southwestern part of China. Her broad research interest is in the global/local politics of social policy, within and across North American and Asia-Pacific national borders. Her current research focuses on Canadian adoptions from China. Title of project: “Parents Go Global: International Adoptions and Policy Challenges in Canada and China.”

Stephen Fairhurst was born and raised in England and received a BA in mathematics from the University of Cambridge. Subsequently he moved to the United States and was awarded a PhD in gravitational physics from The Pennsylvania State University. His research is focused in two areas: an attempt to describe dynamical black holes, and the search for semiclassical states in quantum gravity.

Jeff Paul Reeve has a BSc from the University of Victoria, and MSc and PhD in Evolutionary Biology from Concordia University, Montreal. His project is “High-Resolution Multipoint Linkage – Disequilibrium Mapping.” He develops computational methods of locating mutations that contribute to complex genetic diseases in humans. Such diseases (e.g., hypertension, asthma, heart disease) affect a large percentage of the

population, but little is currently known about the genetic factors that influence susceptibility.

Dejan B Stojkovic was born in Vranje, Yugoslavia. He received BSc and MSc degrees from the University of Belgrade, Yugoslavia. He joined the cosmology group at Case Western Reserve University, Cleveland, and was awarded with a PhD in physics. His research interest includes, but it is not limited to, gravitation and cosmology, large extra dimensions, topological defects, quantum field theory, neutrino masses and mixings and other topics. He is working with Professor Frolov and the main topic of their research is black holes in a higher dimensional universe.

Honorary Izaak Walton Killam Memorial Postdoctoral Fellow - Renewal

Jannette M. Dufour holds a BS (Chemistry), BA (Biology) from Central Washington University; and a PhD Genetics and Cell Biology from Washington State University. Research: “Creation of an Ectopic Site to Co-localize Sertoli Cells and Islets for Treatment of Diabetes.” The long-term objective of this research is to develop a strategy to transplant islet grafts without the need for chronic immunosuppression.

Dr Daniel Kujawski Mechanical Engineering
Dr Marek Majewski Chemistry

1982

Dr Robert Hackett Political Science
Dr David Justice Linguistics
Dr Neville Pankhurst Zoology
Dr Bernd Speiser Chemistry
Dr Mahendra Wijayasinghe Animal Science

1981

Dr David Harris Geology
Dr Gordon Hopkins Psychology
Dr Noorallah Juma Soil Science
Dr Junji Koizumi Anthropology
Dr Wojciech Rozmus Electrical Engineering
Dr Rita Steblin Music

1980

Dr John Aho Zoology
Dr Mariusz Klobukowski Chemistry
Dr Michael Palmer Political Science
Dr Randall White Anthropology

1979

Dr Robert Duke Biochemistry
Dr John Murphy Chemistry
Dr Richard Satterlie Zoology

1978

Dr Philip Barr Chemistry
Dr Brian Joseph Linguistics
Dr Robert Palmer History
Dr John Spence Entomology

1977

Dr Fred Longstaffe Geology

Dr Kenneth Ober Comparative Literature
Dr Mathew Yedlin Physics

1976

Dr Delbert Brodie Psychology
Dr Stephen Whitney Mathematics
Dr AC David Wright Physics

1975

Dr Frederick Donnelly History
Dr Brian Edwards Biochemistry
Dr Samuel Hollingsworth Psychology
Dr Calvin Normore Philosophy
Dr Paul Rapoport Music
Dr Richard Routledge Mathematics

1974

Dr Ming-Hsiung Chen Plant Science
Dr Mark Greenberg Chemistry
Dr Gail Michener Zoology
Dr Douglas Oldenburg Physics

1973

Dr James Davies English
Dr Freny Mistry Germanic Languages
Dr Masatomi Ohno Chemistry
Dr Frits Pannekoek History
Dr Aimo Salmi Biochemistry

1972

Dr Bruce Crawford Zoology
Dr Donald Downer Biochemistry
Dr Marvin Dudas Soil Science
Dr Edward Hardwidge Chemistry
Dr Nels Mogensen History

1971

Dr Gerald Noonan Entomology
Dr Edward Rowe Psychology
Dr Kyoji Shinsaka Chemistry
Dr Andrew Strilchuck Electrical Engineering
Dr Sterling Vinson Classical Archaeology
Dr John Wearing English

1970

Dr Athol Abrahams Geography
Dr Charles Crawford Psychology
Dr Sandra Djwa English
Dr Stephen Drury Geology
Dr Paul Dubois Mathematics
Dr Michael Joynson Biochemistry
Dr Kenneth Manes Electrical Engineering
Dr John Rowlands Physics
Dr Gene Silberhorn Botany
Dr Robert Stewart Chemistry

1969

Dr Sterling Ainsworth Biochemistry
Dr Gilbert Combepine Botany
Dr John Critchlow Chemistry
Dr David Rutledge Electrical Engineering
Dr Anne Street Mathematics

1968

Dr John Gyr Psychology
Dr Surjit Malhotra Plant Biochemistry
Dr Christopher Smith Botany
Dr Michael Stiles Food Science

1967

Dr Nigel Bunce Chemistry
Dr Richard Hodgson Physics
Dr Anthony Marley Psychology
Dr Jan Murie Zoology

UNIVERSITY OF ALBERTA

KILLAM FRENCH EXCHANGE SCHOLARSHIP

This program has its roots in an agreement reached in 1951 between the French Government and the University of Alberta whereby a French Exchange Fellow spent a year teaching in the then Department of Modern Languages and a recently graduated University of Alberta undergraduate from the Department of Modern Languages spent a year teaching in France, funded by the French government.

At the February 24, 1969 meeting of General Faculties Council, the May 12, 1969 meeting of the Board of Governors, and the subsequent 1969 meeting of the Finance Committee, approval of the program and its funding from the Killam General Endowment were passed. Effective 1976-77 the University of Alberta Calendar description changed to read “Killam Exchange Scholarships with France.” The program has been administered by various units on campus over the past three decades, maintaining consultation with the then Department of Romance Languages (initially, and later, re-named Modern Languages and Cultural Studies in 1998); since 1993 the program has been administered within these departments. The original proposal also allowed for one Belgian and one German exchange scholarship.

Each year, the Department of Modern Languages and Cultural Studies receives three instructors (“assistants”) from France, one of whom is placed at the Faculté Saint-Jean. In return, as part of this reciprocal agreement, the department recommends three graduating or graduate University of Alberta students, currently enrolled in a program that includes a major or a minor in French, to be teaching assistants in France. (Since 1999, our university has been offered the opportunity to send up to *five assistants*, due to the demand in France.)

- The exchange period is eight months for participants coming to Canada: from September 1 to April 30.
- The exchange period is seven months for participants going to France: from October 1 to April 30.

French candidates for the assistantship apply to the *Ministre de l'Éducation Nationale* in Paris on a competitive basis; their review and selection takes place in France. The dossiers of the three candidates are sent to the Department of Modern Languages and Cultural Studies Killam French Exchange Liaison officer for

review (currently Prof Élisabeth Le). If satisfied, the Exchange Liaison officer accepts them for the exchange. If dissatisfied, the *Ministre de l'Éducation Nationale* may be contacted for more dossiers for review. These *assistants* receive their scholarship payment (\$10,000) from the Killam account created for this program.

Candidates from the University of Alberta apply to the Department of Modern Languages and Cultural Studies Killam French Exchange Liaison Officer on a competitive basis. Application, review, and selection take place in the department. The dossiers of those chosen are sent to the *Consulat Général de France* in Vancouver, who forwards them to the *Ministre de l'Éducation Nationale – Centre International d'Études Pédagogiques* for review and placement. The offer of employment is issued to the *assistants* by the French school board designated. Canadian teaching assistants in France receive their scholarship payment from the associated French Government program.

Canadian and sometimes French participants from this program often return to Canada to pursue graduate programs at this university or others. We do not require them to report on their activities following the program. However, their continued involvement is obvious to us when they apply to our graduate programs or seek letters of reference. In fact, two recent graduates of our MA program, one current MA student and one PhD student in our department are recent participants in the Killam French Exchange Scholarship program. Participants from France typically become teachers or professors of either English language or literature, or if they return to Canada, of French language, literature, and culture.

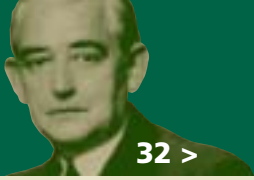
2002 – 2003 Participants:

From France

Gwenaél Conan
Muriel Gasc
Sébastien Petit

From Canada

Karina Haufort
Beatrice Hollinshead
Christie Jensen



UNIVERSITY OF ALBERTA

KILLAM ANNUAL PROFESSORS

2002-2003

Descriptions of the work of our seven Killam Annual Professors for 2002-2003 are provided. They have all met the criteria listed earlier related to (a) outstanding scholarship and teaching and (b) substantial contributions to the community. A list of all Killam Annual Professors since 1991 follows.



Dr Bob James
Chair
Killam Annual
Professorships Committee
1991—1992



Dr Martha Piper
Chair
Killam Annual
Professorships Committee
1993—1997



Dr Roger S Smith
Chair
Killam Annual
Professorships Committee
1998—2001



Dr R Gary Kachanoski
Chair
Killam Annual
Professorships Committee
2002





William Beard

Department of Comparative Literature, Religion and Film/Media Studies

Professor William (Bill) Beard has been associated with the University of Alberta since 1976, designing and teaching the first film studies course offered on campus (1978) while a sessional lecturer, and serving as Film Studies Coordinator from 1990. He is well-known as a leading scholar on the cinema of David Cronenberg, and in 2001 published a 500-page monograph on this artist. His other research interests include the cinema of Clint Eastwood, and Hollywood cinema of the 1970s. For many years, Professor Beard has been a regular contributor to radio, television and newspapers where he has displayed unusual abilities to convey film material to the public at large. His undergraduate teaching has earned him both Departmental and Faculty teaching awards, and he has established strong links with the graduate program of Comparative Literature. Professor Beard has served on the selection committee for the Banff International Television Festival every year since 1981.

2001-02

Dr Miodrag Belosevic	Biological Sciences
Dr JJ Roger Cheng	Civil and Environmental Engineering
Dr Kerry Courneya	Physical Education and Recreation
Dr Royston Greenwood	Strategic Management and Organization
Dr John-Paul Himka	History and Classics
Dr M Anne Naeth	Renewable Resources
Dr Kumar Nandakumar	Chemical and Materials Engineering
Dr Tom Priestly	Modern Languages and Cultural Studies

2000-01

Dr Martin Cowie	Chemistry
Dr Murray Gray	Chemical and Materials Engineering
Dr Susan Hannon	Biological Sciences
Dr Herbert Northcott	Sociology
Dr Linda Pilarski	Oncology
Dr David Sego	Civil and Environmental Engineering
Dr Dick Sobsey	Educational Psychology
Dr Diane Taylor	Medical Microbiology and Immunology





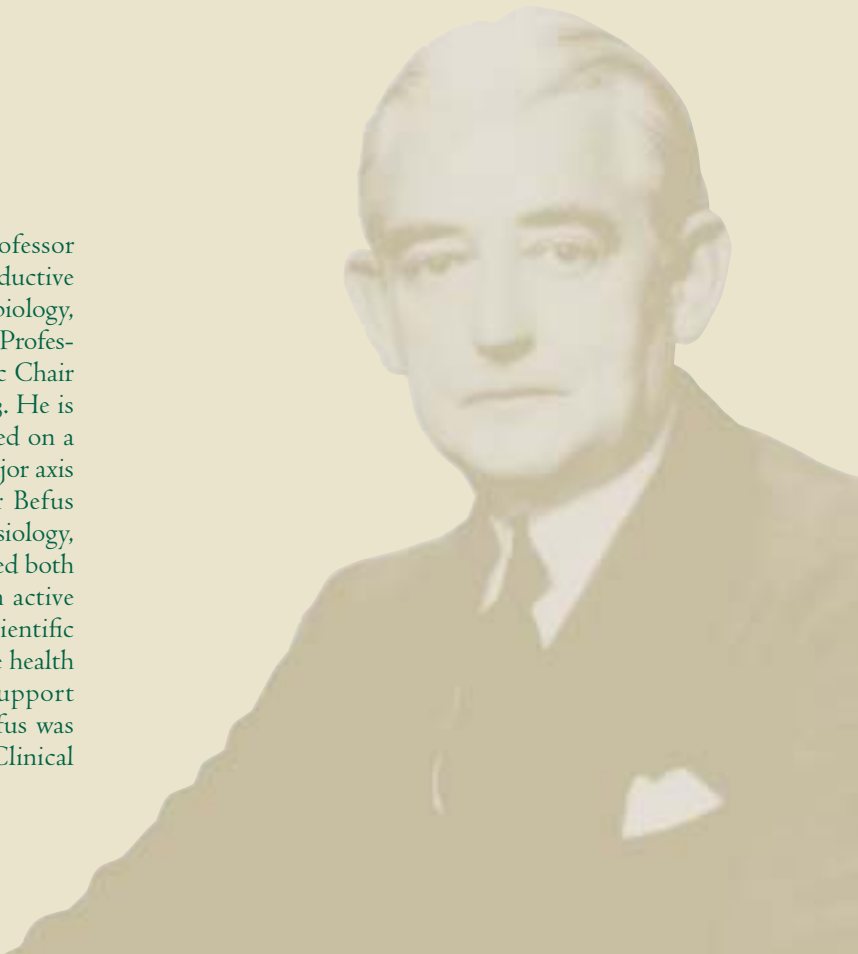
1999-2000

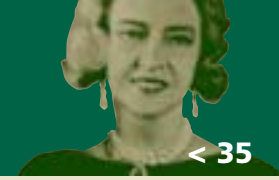
Dr Bert Almon	English
Dr Glen Baker	Psychiatry
Prof CR (Bob) Hinings	Organizational Analysis
Dr Edward Knaus	Pharmacy & Pharmaceutical Sciences
Dr Victor Lieffers	Renewable Resources
Dr Debra Shogan	Physical Education & Recreation
Dr Gregory Taylor	Biological Sciences
Dr Nicole Tomczak-Jaegermann	Mathematical Sciences

Dean Befus

Department of Medicine

Director of the Alberta Asthma Centre, Professor Dean Befus is widely recognized as a productive scientist in mucosal immunology, mast cell biology, lung inflammation, and neuroimmunology. Professor Befus was recruited to the AstraZeneca Canada Inc Chair in Asthma research at the University of Alberta in 1993. He is a co-founder of Salpep Biotechnology, a company based on a novel cellular and molecular mechanism underlying a major axis of neuro-endocrine-immune interactions. Professor Befus teaches undergraduate courses in biological sciences, physiology, pharmacy, and medicine and dentistry, and has supervised both graduate students and postdoctoral fellows. He is an active member of professional and lay organizations, and scientific societies, and has made a significant contribution to the health of Canadians through his research, teaching and support of outreach activities in asthma. In 2001 Professor Befus was presented with the Canadian Society of Allergy and Clinical Immunology Award for Research in Immunology.





1998-99

Dr Simaan AbouRizk	Civil & Environmental Engineering
Dr Wiktor Adamowicz	Rural Economy
Dr David Chanasyk	Renewable Resources
Dr Phillip Fedorak	Microbiology
Dr Michael Gibbins	Accounting & Management Information Systems
Dr Jonathan Hart	English
Dr Ellie Prepas	Biological Sciences
Dr Nallamuthu Rajaratnam	Civil & Environmental Engineering

1997-98

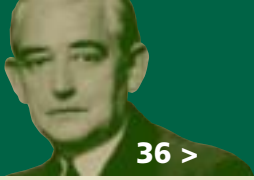
Dr Michael Dawson	Psychology
Dr Graham Fishburne	Elementary Education
Dr Shrawan Kumar	Physical Therapy
Dr Janice Lander	Nursing
Dr Anthony Lau	Mathematical Sciences
Dr Jonathan Schaeffer	Computing Science
Dr Peter Smith	Pharmacology

Stan Boutin

Department of Biological Sciences

First appointed at the University of Alberta in 1986, Dr Stan Boutin has developed a broad research program investigating ecological questions at the heart of sustainable forest management. In 2001, Dr Boutin was named the first NSERC Industrial Research Chair in the Faculty of Science. More than eighty of his undergraduate students have worked as summer or winter assistants on various research projects that he has supervised. Graduate students have the opportunity to blend rigorous experimental science with applied wildlife biology when working with Dr Boutin. Service on a number of provincial government and industry committees has presented him with the potential to influence policy and practice related to endangered species, boreal forest management, and forest biodiversity. By incorporating science into best practice, Dr Boutin has worked closely with industry in creating practical tools to assist in managing issues related to integrated landscape management, cariboo conservation, and the maintenance of biodiversity in the context of industrial development.





1996-97

Dr Tapan Basu	Agricultural, Food and Nutritional Science
Dr Tee Guidotti	Public Health Sciences
Dr Dianne Kieren	Human Ecology
Dr William Lown	Chemistry
Dr Juliet McMaster	English
Dr Peter Robertson	Civil Engineering
Dr Gordon Swaters	Mathematical Sciences
Dr Alan Thomson	Medicine

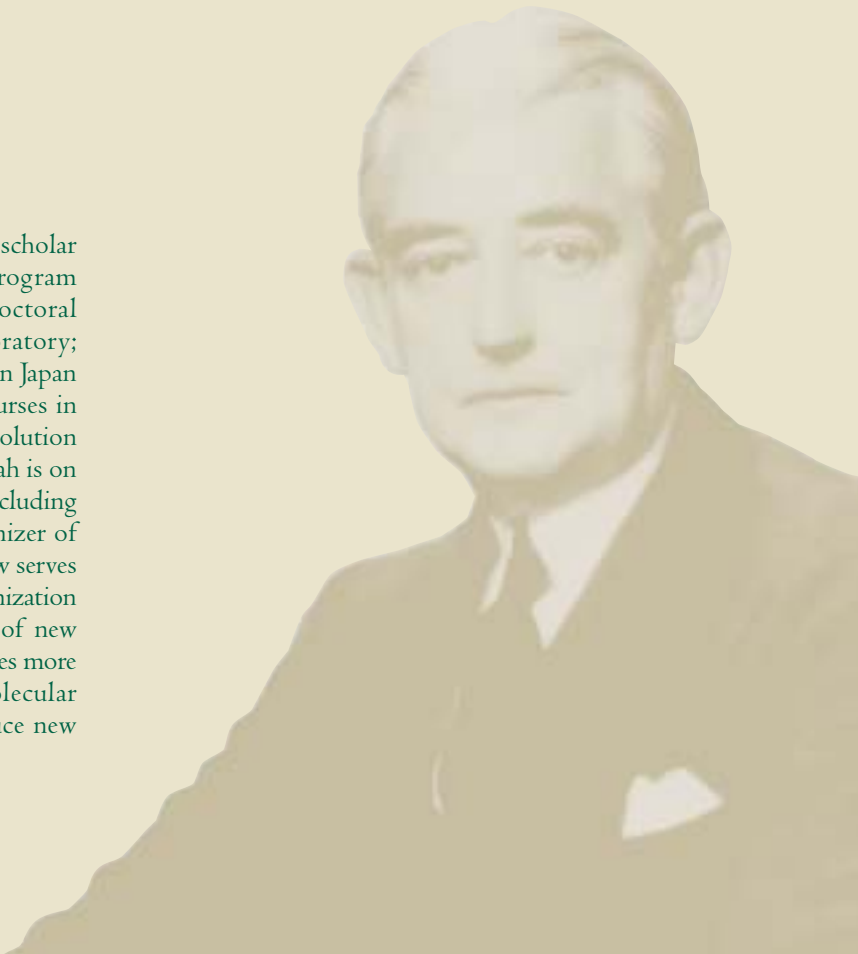
1995-96

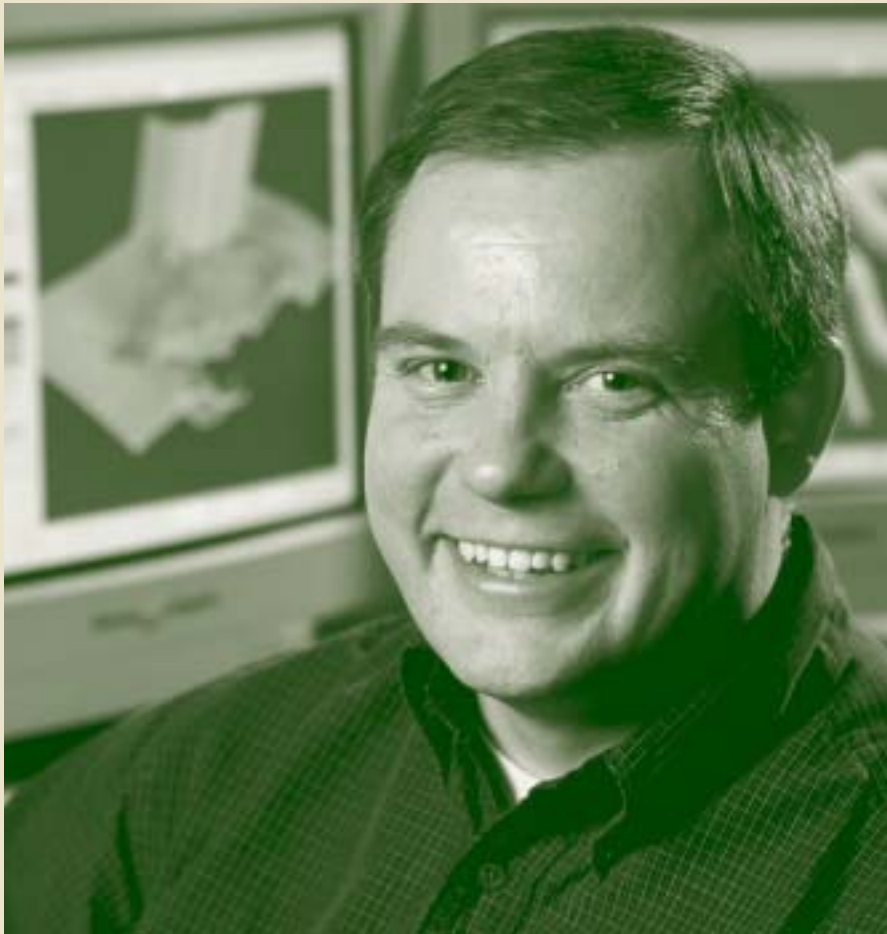
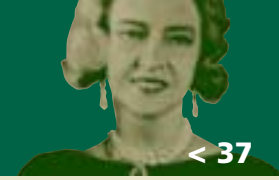
Dr Theresa Allen	Pharmacology
Dr Michael Brett	Electrical Engineering
Dr Robert Hudson	Renewable Resources
Dr Ernest Kanasewich	Physics
Dr Harvey Krahn	Sociology
Dr Ronald McElhane	Biochemistry
Dr Regula Qureshi	Medicine
Dr Carolyn Yewchuk	Educational Psychology

Randy Currah

Department of Biological Sciences

Professor Currah is an internationally known scholar in the field of mycology whose research program attracts a large number of students, postdoctoral fellows and visiting scientists to his laboratory; particularly close links are maintained with researchers in Japan and Finland. His undergraduate teaching includes courses in biology and botany, flowering plant systematics, and evolution and ecology of algae, fungi and lichens. Professor Currah is on the editorial board of several international journals, including *Mycological Research* and *Mycoscience*. He has been an organizer of and a speaker in various international symposia, and now serves as the Chair of a subcommittee of an international organization based in Sweden that is concerned with the evaluation of new developments in fungal systematics. Professor Currah uses more traditional methods in combination with newer molecular methods in his research, and he continues to introduce new instructional techniques in the classroom.





1994-95

Dr Karl Chuang	Chemical Engineering
Dr Gary Horlick	Chemistry
Dr Jack Jhamandas	Medicine
Dr Janet Ross Kerr	Nursing
Dr Tom Kieren	Secondary Education
Dr T Bryant Moodie	Mathematics
Dr Peter Schouls	Philosophy
Dr Richard Young	Romance Languages

Clayton Deutsch

Department of Civil & Environmental Engineering

Since his appointment at the University of Alberta in 1997, Professor Deutsch has been a highly productive researcher in the area of statistical inference of spatially distributed attributes and decision making in presence of uncertainty. His undergraduate teaching in mining engineering includes field trips which expose students to mines in the US and Canada. Professor Deutsch directs a large laboratory where he works with nine graduate students, and he continues to teach two graduate courses each year which include students from a variety of disciplines in science and engineering. Led by Professor Deutsch, a recent bid to host the International Geostatistics Congress in Alberta in 2004 was successful. He serves as Technical Editor for the Society of Petroleum Engineers, and is an Associate Editor for the International Association of Mathematical Geology. Professor Deutsch remains a consulting professor at Stanford University, and teaches each year at two universities in South America.





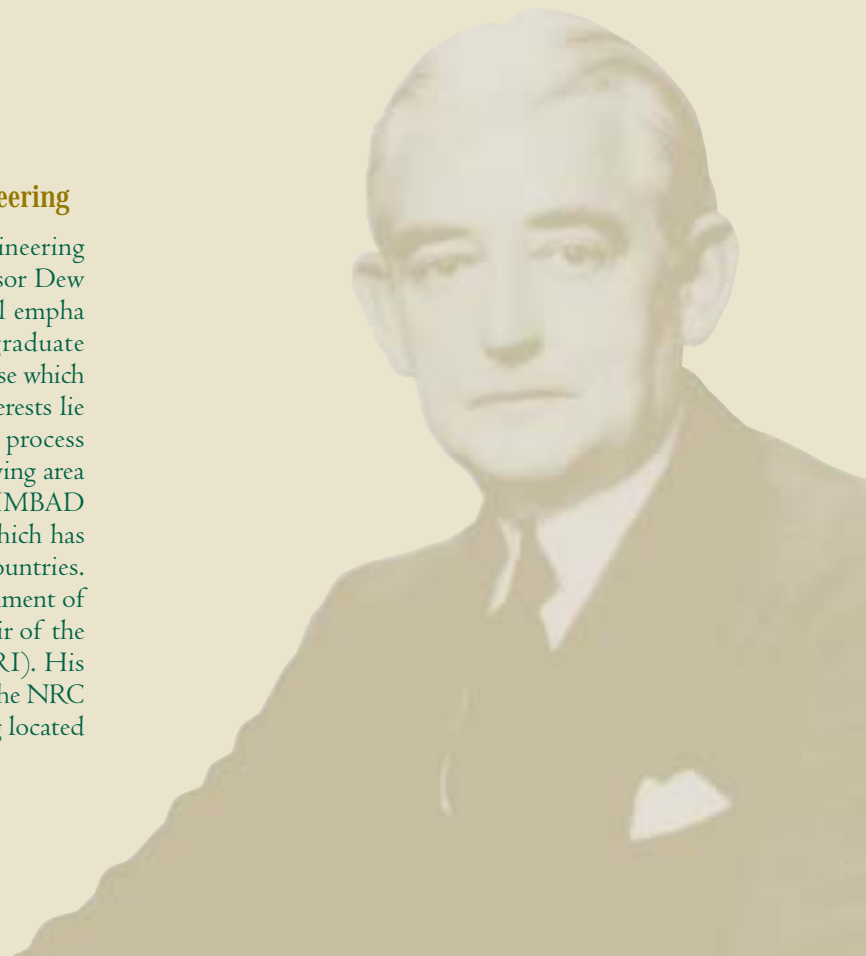
1993-94

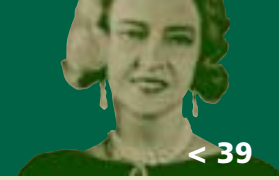
Dr Helmut Brauss	Music
Dr R Stanley Brown	Chemistry
Dr Fernand Ellyin	Mechanical Engineering
Dr Tessa Gordon	Pharmacology
Dr R Gordon Moyles	English
Dr Nathaniel Rutter	Geology
Dr Jeong Sim	Animal Science
Dr Edward Tredget	Surgery

Steven Dew

Department of Electrical and Computer Engineering

A three-time winner of the Faculty of Engineering Teaching Award in the last decade, Professor Dew strives to provide students with a practical emphasis in his courses, and he challenges graduate students in a Microelectronics Process Technology course which involves a mixture of teaching media. His research interests lie in the general field of thin film and microelectronics process technology; this is a precursor field for the newly evolving area of nanotechnology. He is the co-inventor of the SIMBAD simulation package for microelectronics processing which has been marketed internationally to firms in eighteen countries. Professor Dew has actively participated in the establishment of the University of Alberta NanoFab facility and is Chair of the Microsystems Technology Research Institute (MSTRI). His research and administrative leadership contributed to the NRC National Institute for Nanotechnology (NINT) being located on the University of Alberta campus.





1992-93

Dr Frank Aherne	Animal Science
Dr Stephen Arnold	Comparative Literature
Dr Peggy Anne Field	Nursing
Dr Daniel Smith	Civil Engineering
Dr Dennis Vance	Biochemistry
Dr John Vederas	Chemistry
Dr Dale Vitt	Botany
Dr Garth Warnock	Surgery

1991-92

Dr Einer Boberg	Speech Pathology and Audiology
Dr Ronna Jevne	Educational Psychology
Dr Jacob Masliyah	Chemical Engineering
Dr Rowland McMaster	English
Dr Gordon Rostoker	Physics
Dr Michael Stiles	Food Science and Foods & Nutrition
Dr Lawrence Wang	Zoology

Janusz Zwiazek

Department of Renewable Resources

Appointed to the faculty in 1989, Professor Zwiazek's research program in plant stress physiology is aimed at understanding basic processes that plants use to cope with environmental stresses. The results of this research are applied to improve revegetation and reforestation efforts of areas disturbed by human activities. In 2000, he was named as a Faculty of Agriculture, Forestry and Home Economics Teacher of the Year in recognition of his undergraduate teaching expertise. Professor Zwiazek serves as an Associate Editor for the Canadian Journal of Forest Research, and as a member of Editorial Boards of Tree Physiology and Dendrobiology. He represents the University as a reforestation expert for the Ecological Conservancy Outreach Fund's Yangtze River Reforestation Project in Yunnan, China. Professor Zwiazek considers whole-plant physiology, and such an approach can provide a direct and immediate contribution to current problems in forestry, horticulture and pollution.





UNIVERSITY OF ALBERTA DISTINGUISHED “KILLAM FACULTY”

Selected aspects of the careers of our four Canada Council Killam Prize winners, our first four Killam Memorial Chairs, and our seven Canada Council Killam Research Fellows are provided below.

University of Alberta Winners of Canada Council Killam Prizes

Dr Raymond U Lemieux, 1981

Degrees

BSc (Honors), Chemistry, University of Alberta, 1943

PhD, Organic Chemistry, McGill University, 1946

Positions

Ohio State University (1946-47), University of Saskatchewan (1947-49), National Research Council of Canada (1949-54), University of Ottawa (1954-61), University of Alberta (1961-85).

Achievements and Honors

- Was the first person to synthesize sucrose.
- Discovered “anomeric effect,” which accounts for reactivity of certain organic molecules.
- Fellow of the Royal Society of London, 1967.
- Established several chemical companies including Chembiomed Ltd.
- Appointed University Professor in 1981 and Professor Emeritus in 1985.
- Companion of the Order of Canada, 1994.
- “... likely the most influential and most well respected carbohydrate chemist in the world over the last 50 years. His work brought the field of carbohydrate chemistry into the mainstream of organic chemistry and, undoubtedly, his discoveries have provided invaluable groundwork for many medical breakthroughs in the 21st century.” (University of Alberta *Express News*, November 30, 2001).
- Received 15 honorary doctorates.



[Dr Lemieux died in July 2000. The Chemistry Building was renamed the Gunning/Lemieux Chemistry Centre in November 2001.]

Dr Werner Israel, 1984

Degrees

BSc, University of Cape Town, South Africa, 1951

MSc, Mathematics, University of Cape Town, South Africa, 1954

PhD, Trinity College, Dublin, 1960

Positions

California Institute of Technology (1974-75), Visiting Professorships at seven universities, University of Alberta (1958-1996), Adjunct Professor of Physics at the University of Victoria (1996-present), and Honorary Professor at The University of British Columbia (1996-present).

Research

Professor Israel’s research has ranged over the entire field of general Relativity. He has contributed particularly to black hole physics, relativistic thermodynamics, and statistical mechanics, and to the dynamics and structure of high concentrations of matter, such as cosmic strings and the walls of the false vacuum bubbles that form in inflationary theories of cosmology.

In the last few years he and his students have used Einstein’s theory to unravel the physical conditions inside black holes and the nature of their singularities. (www.phys.uvic.ca/dbr.WI.html).

Publications

Co-editor, with Professor Stephen Hawking, of two books commemorating the Einstein and Newton centenaries.

Honors

- Fellow, Royal Society of Canada, 1972
- University Professor, 1985
- Fellow, Royal Society (London, UK), 1986
- Officer of the Order of Canada, 1994



Dr Norbert R Morgenstern, 2001

Degrees

BASc, Civil Engineering, University of Toronto, 1956

PhD and DIC, Imperial College of Science and Technology, University of London, 1964

Positions

Research Assistant and Lecturer, Imperial College, 1958-68

Professor (1968-99), Department of Civil and Environmental Engineering, University of Alberta

Professor Emeritus, 1999

Research

Dr Morgenstern's research interests include the strength and deformation of soils, rocks, dam design, permafrost engineering, oil sands and offshore engineering, and complex slope stability problems. The scope of his consulting experience in over twenty countries includes dams, landslides, foundations (highways, bridges, and buildings), pipelines, underground excavations and offshore geotechnical projects. He has also conducted studies in mining and environmental geotechnics. He is recognized as one of the world's pre-eminent civil engineers. Dr Morgenstern counts his contribution to the development of the Norman Wells pipeline in permafrost in Northern Canada as among his career highlights.



Honors

- Fellow, Royal Society of Canada, 1975
- Named University Professor in 1983
- President, International Society for Soil Mechanics and Foundation Engineering (1989-1994)
- Member of the Order of Canada, 2001
- Honorary doctorates from the University of Toronto and Queen's University

Dr Robert V Moody, 2002

Degrees

BA, Mathematics, University of Saskatchewan, 1962

MA, Mathematics, University of Toronto, 1964

PhD, Mathematics, University of Toronto, 1966

Positions

Assistant Professor, Mathematics, University of Saskatchewan, 1966-70

Associate Professor, Mathematics, University of Saskatchewan, 1970-76

Professor, Mathematics, University of Saskatchewan, 1976-83

Professor, Mathematics, Concordia University, 1984-86

Professor, Mathematics, University of Alberta, 1989-present

Research

Dr Moody's research falls between mathematics and physics. One of his greatest achievements was the co-discovery of the Kac-Moody algebras. This theory has been described as "today's most promising candidate for a theory of everything – a theory that will explain and unify the forces of nature."



Achievements

- Fellow, Royal Society of Canada, 1980
- Officer of the Order of Canada, 1999
- Honorary doctorate, Université de Montréal, 2000
- His work has been recognized with numerous awards including the highest honor from the Canadian Mathematical Society – the Jeffrey-Williams Prize, the Alberta Science and Technology Award for Outstanding Research, and the inaugural Coxeter-James Prize (presented to the most outstanding Canadian mathematician within 10 years of his or her degree).
- Dr Moody was recently appointed the first scientific director of the newly founded Banff International Research Station for Mathematical Innovation and Discovery.



University of Alberta Killam Memorial Chairs

Dr Jack A Jacobs

Killam Memorial Chair and Professor of Science, 1967-74

Born in London in 1916.

Degrees

BA, Mathematics, University College, London, 1938

PhD, University of London, 1949

DSc, University of London, 1961

Positions

Lecturer in Mathematics, University of London (1946-51)

Associate Professor of Geophysics,
University of Toronto (1951-57)

Director, Institute of Earth Sciences,
The University of British Columbia
(1957-67)

Killam Memorial Chair, Professor of
Physics, and Director, Institute of Earth
and Planetary Physics, University of
Alberta (1967-74)

Professor of Geophysics, University of
Cambridge (1974-83)

Honorary Professor, Institute of Geography and Earth Sciences,
University of Wales, Aberystwyth (1988-present)

Research Interests

Evolution of the Earth's core

Temperature distribution in the Earth

Micropulsations of the Earth's magnetic field

The geomagnetic dynamo

Reversals of the Earth's magnetic field



Dr Harry E Gunning

Killam Memorial Chair and Professor of Chemistry, 1968-82

Degrees

BA, MA, PhD, University of Toronto

PhD, University of Illinois

Overview

Dr Harry Gunning is known as the father of the Chemistry Department at the University of Alberta. In the late 1950s and early 1960s, armed with his foresight and determination to build a world-class department, he convinced university administration and the Premier of Alberta that a strong chemistry department was in the best interests of Alberta science and education. Within a decade he built a department that achieved international recognition as a rapidly evolving centre of excellence in the chemical sciences. The crown jewel in Dr Gunning's accomplishments was his success in expanding the department. In 1973, he oversaw the addition of a new (east) wing alongside what is now the west wing of chemistry centre.

Dr Gunning was department chair from 1957 to 1974 and President of the University of Alberta from 1974 to 1979. He received numerous national and international awards, including six honorary degrees. He became an Officer of the Order of Canada in 1979.

[The Chemistry Building was re-named the Gunning/Lemieux Chemistry Centre in November 2001.]



Dr Hiroomi Umezawa

Killam Memorial Chair and Professor of Physics, 1975-92

Born in Kurihashi-Machi, Japan, in 1924.

Degrees

BS (Electrical Engineering), University of Nagoya, 1947

DSc, University of Nagoya, 1952

Positions

Visitor, University of Manchester, 1953-55

Faculty member, University of Tokyo, 1955-60

Professor, University of Tokyo, 1960-64

Professor, University of Napoli, Italy, 1964-66

Professor (1966-67) and Distinguished Professor (1967-75), University of Wisconsin

Killam Memorial Chair and Professor of Physics, University of Alberta, 1975-92

Professor Emeritus, 1992-95

Personal Interests

(provided by Professor Emeritus Faqir Khanna):

Hiroomi Umezawa was a Field Theorist par excellence who published about 350 papers and authored or co-authored 8 books. He started his research with Professor Sakata studying the question of photon self-energy. Under certain conditions he

could make it vanish. The method got rave reviews from Pauli who considered the method of Dr Umezawa to be realistic. Dr Umezawa explicitly demonstrated the universal nature of Quantum Field Theory by applying it to numerous areas of physics that included particle physics, condensed matter, cosmology and thermal physics. While in Napoli, Dr Umezawa introduced the idea of symmetry rearrangement which became an important part of his research program until the end of his life. A theory of Thermo Field Dynamics, introduced with Professor Takahashi while in Wisconsin, became the primary focus of his research program at the University of Alberta. It has become a standard method to tackle problems in diverse areas of Thermal Physics. Dr Umezawa and his collaborators elaborated the techniques and used them to study superconductivity, magnetic superconductors, nuclear systems, and problems in cosmology. A theory of the brain, based on the ideas of symmetry rearrangement and quantum field theory, was initiated here and has become an interesting approach to understanding the working and functioning of the brain.



Honors

- Fellow, American Physical Society, 1968
- Fellow, Royal Society of Canada, 1990



University of Alberta Canada Council Killam Research Fellows

Dr Allan A Offenberger, 1980-82

Degrees

BASc, The University of British Columbia, 1962

MASc, The University of British Columbia, 1963

PhD, Massachusetts Institute of Technology, 1968

Positions

Assistant Professor, 1968-70; Associate Professor, 1970-75; Professor, 1975-95; Professor Emeritus, 1995-present. Department of Electrical (and Computer) Engineering, University of Alberta

Visiting professorships

- Osaka University – Institute of Laser Engineering,
- Oxford University – Rutherford Appleton Laboratory,
- UK Atomic Energy Agency – Culham Laboratory, and
- University of California – Lawrence Livermore National Laboratory

Research

Dr Offenberger’s research program for over 30 years has been focused on the development of high power lasers for inertial confinement fusion research; the production, heating and confinement of laser-produced plasmas and, the physics of high intensity laser/plasma interaction. His scientific publications total about 150, and he has given more than 120 invited talks at international conferences, universities, and government and industrial laboratories. He is a Past President of the Canadian Association of Physicists, has served on many national scientific advisory and research grant committees, and has been a consultant to university, government and industrial institutions (Canada and USA).

[Dr Offenberger, the University of Alberta’s first Canada Council Killam Research Fellow, provided this interesting anecdote. “After being short-listed, I was interviewed by the selection panel in Ottawa. I recall that the room and experience made me think of the inquisition – dim lighting with the panel seated on an elevated “quarter-circular” platform looking down on the hapless candidate on a simple chair at the centre. The questions, as I recall, seemed structured to determine the candidate’s enthusiasm and expectations for the research program plus potential for research leadership (and, I guess, ability to function under fire).”]

Dr Terry M Caelli

Killam Memorial Chair and Professor of Psychology, 1982-88

Degrees

BA (Honors) 1972, and PhD 1975, University of Newcastle, Australia

Positions

Lecturer, University of Melbourne, 1975-78

Senior Lecturer, University of Newcastle, 1978-82

Killam Memorial Chair and Professor of Psychology, University of Alberta, 1982-88

Professor, Cognitive Science, University of Melbourne, 1988-94

Professor, Computing, Curtin University of Technology, 1994-97

Professor, The Ohio State University College of Engineering, 1998

Professor, Department of Psychology, University of Alberta, 1999-2000

Professor, Department of Computing Science, University of Alberta, 2000-present

Research

Computer Vision, Pattern Recognition, and Artificial Intelligence and their applications to intelligent sensing, image interpretation, the prototyping human perception-action and human-machine interactions.

Awards

- Fellow of the International Association for Pattern Recognition
- Fellow of the Institute for Electronic and Electrical Engineers





Dr Juliet S McMaster, 1987-89

Degrees

BA, Oxford, 1959

MA, University of Alberta, 1962

PhD, University of Alberta, 1965

Positions

Assistant Professor, 1965-70; Associate Professor, 1970-76; and Professor, 1976-86; Department of English, University of Alberta. Professor Emeritus, 2000-present.

Publications

Principal books: *Thackeray: The Major Novels*, University of Toronto Press, 1971, paperback 1976. *Trollope's Palliser Novels*, London: Macmillan, 1978. Co-author with Rowland McMaster, *The Novel from Sterne to James*, London: Macmillan, 1981. *Dickens the Designer*, London: Macmillan, 1987. *Jane Austen the Novelist*, London: Macmillan, 1995. Co-editor with Bruce Stovel: *Jane Austen's Business: Her World and Her Profession*, London: Macmillan, 1996. Co-editor with Edward Copeland, *The Cambridge Companion to Jane Austen*, Cambridge: Cambridge UP, 1997.

As founder and General Editor of the *Juvenilia Press*, 1994-2002, published scholarly editions of the early works of known writers, with students involved in the editing process, and other scholars participating: 26 volumes, authors including Lady Mary Wortley Montagu, Jane Austen, the Brontës, Louisa May Alcott, George Eliot, Malcolm Lowry, Philip Larkin, Margaret Laurence, Marion Engel, Margaret Atwood, Carol Shields, and Rudy Wiebe.

Also author of about 100 articles in journals, on the 18th and 19th century British novel, children's literature, Renaissance drama, and juvenile writings.

Honors and Awards

- Guggenheim Fellowship, 1976-77
- Fellow of the Royal Society of Canada, 1980
- McCalla Professorship, Faculty of Arts, 1982-83
- J. Gordin Kaplan Award for Excellence in Research, 1986
- Canada Council Molson Prize, 1994
- University Cup (teaching and research), 1996



Dr Christopher Scarfe, 1988

This article has been reprinted from *Killam Trusts* (University of Alberta, 1988):

"Killam Research Fellow and University of Alberta Professor Christopher Scarfe was struck by an automobile while walking to work on the morning of July 20, 1988. He was killed instantly.

"Born in Little Melton, Norfolk, in 1941, Dr Scarfe received his first degree from the University of Durham. He began his work in experimental petrology with O Tuttle at Penn State University and PJ Wylie at the University of Chicago, but returned to England to complete a PhD at Leeds University, where he assisted Peter Harris in developing a high-pressure laboratory. Appointed to the University of Alberta in 1972, he began to construct equipment capable of simulating conditions deep in the earth (pressures to 40 kilobars and temperatures to 2000 degrees Centigrade). He spent 1978-80 at the Geophysical Laboratory of the Carnegie Institute in Washington, where he met Eiichi Takahashi, who became a colleague and firm friend. Recognizing the significance of research using very high pressures, Dr Scarfe intensively sought funds for a 'superpress' and received a major installation grant from NSERC to go with strong ancillary support from the University of Alberta. Quickly organizing the delivery of the superpress and assembling a research team, he brought the apparatus into operation in only a few months.

"At the time of his death, Dr Scarfe had already made discoveries on the range of stability of K-richterite and had studies well in progress on the stabilities of carbonates and the high pressure petrogenesis of komatiites: he had built the foundation for a brilliant career of great scientific import. His stature was recognized by his appointment as McCalla Professor and then, nationally, by his Killam Research Fellowship in 1988. Dr Scarfe was also an excellent lecturer and a highly regarded mentor to graduate students. Thoughtful and generous, he was a well-liked colleague and a devoted husband and father to a charming family. His death is a tragedy to his family, to his colleagues and the scientific community at large, and to the 'Killam family' of distinguished scholars."





Dr Gary D Kelly, 1990-92

D e g r e e s

BA, History, University of Toronto, 1965
BA, English Literature, Oxford University, 1967
DPhil, Oxford University, 1972

P o s i t i o n s

Lecturer, University of New Brunswick, 1972-73
Postdoctoral Fellow, University of New Brunswick, 1973-74
Canada Council Research Fellow, 1974-76
Assistant Professor (1976-80), Associate Professor (1980-84), and Professor (1984-present), Department of English, University of Alberta.
Professor of English, Keele University, UK, 1994-97 (on leave from University of Alberta)
Canada Research Chair in Language and Literature in Society, January 2001.

S c h o l a r l y A c t i v i t i e s

- Currently embarking on a nine-volume history of popular literature in English
- General Editor of an eleven-volume history of women’s writing in English
- Has published books on the French Revolution and the English novel, the Romantic novel, and women’s writing of Revolution and Romanticism, and numerous essays on writers such as Jane Austen and Walter Scott.
- Has edited six volumes of Bluestocking feminist writing, six volumes of women’s Gothic fiction, eighteenth-century feminist novels, and poems and letters of Felicia Hemans, the most widely read woman poet of the nineteenth-century English-speaking world.
- Had a language column on CBC Radio for five years.



H o n o r

Fellow, Royal Society of Canada, 1992

Dr Roger A Shiner, 1992-94

D e g r e e s

BA (1963), MA (1966), PhD (1971), University of Cambridge
MA (1965), University of Alberta

P o s i t i o n s

Sessional Lecturer, 1965-66; Assistant Professor, 1966-72; Associate
Professor, 1972-77; Professor, 1977-96. Department of Philosophy, University of Alberta
Professor Emeritus, 1996-present
Visiting Professor of Philosophy, Okanagan University College, 2001- present

R e s e a r c h I n t e r e s t s

Philosophy of Law; Greek Philosophy; Aesthetics

H o n o r s a n d A w a r d s

McCalla Professor, Faculty of Arts, 1989-90
President, Canadian Chapter, International Society for Philosophy of Law and Social Philosophy, 1991-93

B o o k s

Norm and Nature: The Movements of Legal Thought (Oxford: Clarendon Press, 1992).
Strictly Institutionalized Sources of Law, Vol. III of *Treatise of Jurisprudence and Philosophy of Law*. Enrico Pattaro, Gerald J. Postema and Peter Stein, eds. Dordrecht: Kluwer Academic Publishers (2003, forthcoming).



Dr Nicole T Tomczak-Jaegermann, 1997-99

Degrees

BSc, MSc, PhD – University of Warsaw, Poland

Positions

Assistant Professor, 1983-84; Associate Professor, 1984-87; Professor,

1987-present, Department of Mathematical and Statistical Sciences, University of Alberta

Research Interests

Dr. Tomczak-Jaegermann is a world-renowned leader in asymptotic geometric analysis and Banach space theory.

Honors and Awards

- Fellow of the Royal Society of Canada, 1996
- Canada Research Chair in Geometric Analysis, 2001
- Invited addresses to the International Congress of Mathematicians in Berlin in 1998 which indicated very prestigious recognition on the international scene, and to the Canadian Mathematical Society and the American Mathematical Society.



Dr Hani Henein, 2002-2004

Degrees

BEng, McGill University, 1972

MEng, McGill University, 1975

PhD, The University of British Columbia, 1981

Positions

Assistant Professor, Carnegie Mellon University, 1981-86

Associate Professor, Carnegie Mellon University, 1986-89

Professor, Department of Chemical and Materials Engineering, University of Alberta, 1989-present, and Director, Advanced Materials and Processing Laboratory (AMPL).

Research

AMPL focuses on materials processing engineering research and is carried out by developing mathematical models, in-plant data, and pilot-scale testing on magnesium, aluminum, zinc, and nickel alloys, microalloyed steels and metal matrix composites. Research projects are focused on Near Net Shape technologies such as atomization and spray deposition as well as the analysis of steel processing operations and the relationship between steel processing, microstructure and properties. Interfacial reactions between metal alloys and ceramics composites is of interest for the development of novel coatings having high wear characteristics as well as the development of unique microstructures and for the study of the effect of the degree of heterogeneity of microstructure on properties. Research projects are carried out in collaboration with colleagues at four other universities. The Killam Research Fellowship project is “Advanced Process Analysis of Melt Sprays and Droplet Solidification.”

Honors and Awards

- President, Metallurgical Society of Canadian Institute of Mining, Metallurgy, and Petroleum, 1998-99
- Presidential Citation, The Iron and Steel Society, 2001





NATIONAL KILLAM ACTIVITIES

The Killam Bequests allow for the national activities described below to be conducted, funded by central Killam funds and the six Killam institutions.

KILLAM TRUSTS OFFICE

The national Killam Trusts Office is based in the Faculty of Graduate Studies, Dalhousie University, Halifax, Nova Scotia. Christine Dickinson is the Trust's Administrative Officer. She keeps the records of Killam Scholars up-to-date and performs other administrative duties.

KILLAM ANNUAL CONFERENCE

The Trustees meet with graduate deans and senior administrators of Killam institutions each fall on the occasion of the Annual Conference of the Canadian Association for Graduate Studies.

CAMPUS MEETINGS

The four Killam Trustees meet with members of the Canada Council and the five universities which received Killam bequests – University of Alberta, The University of British Columbia, The University of Calgary, Dalhousie University, and the Montreal Neurological Institute of McGill University – each fall (the major meeting) and each spring.

As stated in The Killam Trusts *Annual Report 2000*, “The Trustees retain a central fund, as required by the Will, out of which they meet the expenses for these meetings and other activities. In this way, all of the income from the Killam Trusts held by the institutions can be devoted exclusively to the scholarly purposes Mrs Killam wished to benefit.”

ANNUAL KILLAM LECTURES

The Annual Killam Lectures, inaugurated in 1995, have two objectives: (a) to stimulate public support for research at the pre-doctoral and post-doctoral levels at Canadian universities, and (b) to encourage other wealthy Canadians to follow the example of Izaak Walton Killam and Dorothy Johnston Killam in endowing research with private resources. Lectures have been delivered by those listed below: their titles are among those provided at the time of the lecture.

1995

Dr David L Johnston, Chair, Canadian Institute for Advanced Research; and Former Principal, McGill University

1996

Dr Richard A Murphy, Director, Montreal Neurological Institute, McGill University

1997

Honorable Peter Lougheed, PC, CC, QC, Former Premier of Alberta; and Chancellor, Queen's University

1998

Dr Michael Smith, CC, University Killam Professor, and Peter Wall Distinguished Professor of Biotechnology, The University of British Columbia; Nobel Prize Laureate in Chemistry, 1993

1999

Dr Björn Svedberg, Chairman, The Royal Swedish Academy of Engineering Sciences

2000

Professor J Robert S Prichard, OC, President Emeritus, University of Toronto

2001

Dr John R Evans, CC, President Emeritus, University of Toronto

2002

Dr Martha C Piper, President, The University of British Columbia

Complete information about the Lecturers and their positions can be found on www.dal.ca.

Disclaimer

Information in this booklet has been obtained from many sources including University of Alberta documents and records, websites, personal interviews, telephone conversations, The Killam Trusts publications, and *A Very Private Person* (Douglas How). Every attempt has been made to ensure accuracy. We apologize if any errors of fact or interpretation are included.