

"If I had my life to live over again I would start barefoot earlier in the spring."

85-year-old Micmac woman

Saint Mary's University  
Halifax, Nova Scotia

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## Convocation 1983: A Look Behind the Scenes

By the time May 9 rolls around, Assistant Registrar Murray Wilson will have ironed 35 flags, Registrar Elizabeth Chard will have signed some 550 degrees and Sylvia Jaeger will have mended more than 20 torn gowns. The flags will be in place, seating arrangements for the honorary dignitaries will have been set-up and the degrees, sealed in their respective tubes, will be waiting to be handed out.

Organizing the list of graduates is the biggest chore in preparing for Convocation, admitted Murray Wilson. A list of potential graduates, drawn up last October, is refined during the ensuing months as students withdraw or decide to graduate in absentia. Once final grades are in, the Registrar tabulates the results and averages the marks, establishing a confirmed list of graduates. The list is then presented to Senate the week before Convocation, with a note on those students eligible to graduate with distinction and on those recommended to receive the various Faculty medals. Once Senate approval has been received, the list is rushed to the Print Centre to be included in the Convocation program. Meanwhile, the degrees are signed, stamped with the University seal and inserted into labelled tubes.

By the Friday before Convocation, the hats and gowns are ready to be picked up by students. The names of those students who fail to pick up their gowns along with those who have already decided to graduate in absentia are compiled and their degrees are withdrawn from the bundle to be handed out at Convocation. The Sunday before, Mr. Wilson and Mrs. Chard insert the degrees into the cubicles on stage, in order according to the final graduate list.

"You have to keep your wits about you and know what you are doing," said Mr. Wilson, "It is a very exacting process."

Has anyone ever received the wrong degree? "Occasionally," he admitted, "but that rarely happens and only when an unexpected student turns up. We keep some empty tubes on stage for the odd unexpected student."

By May 10 it will all be over. Speeches will have been made, honorary degree recipients will have been honoured, graduates will have received their parchments, and proud relatives will have taken their pictures. Staff in the Registrar's Office can take a collective breather before the process begins all over again for Convocation 1984.



### Saint Mary's to award three honorary degrees

(see page 3)

## Valedictorians chosen to address Convocation

The two students chosen by their peers as valedictorians to represent the graduating class of 1983 are Arts student Theresa Forgeron and Commerce student Mark Herlehy.

Theresa Forgeron, a 21-year-old Political Science major from Louisbourg, Nova Scotia, will address graduates in the Faculties of Arts and Education during the morning Convocation ceremony.

In the afternoon Mark Herlehy, a 22-year-old Marketing major from Westport, Ontario, will address graduates in the Faculties of Commerce and Science and the Division of Engineering.

During Convocation ceremonies, two students are hooded as representatives of their class. This year those chosen to be hooded are James Chester in the morning and David White in the afternoon.

## Schedule

### Baccalaureate Service

Sunday, May 8 at 5:45 p.m.

### Canadian Martyrs' Church

Graduates should assemble in the O'Donnell-Hennessey Student Centre at 5:00 p.m., wearing gowns and hats. In case of rain, meet in the gym in the Parish Centre of the Canadian Martyrs' Church.

### Morning Convocation

Monday, May 9 at 9:30 a.m.

### Theatre Auditorium

Graduates in the Faculties of Arts and Education, including Master of Arts degree candidates. Assemble in the gym at 8:30 a.m. sharp.

### Afternoon Convocation

Monday, May 9 at 2:30 p.m.

### Theatre Auditorium

Graduates in the Faculties of Commerce and Science, and the Division of Engineering, including Master of Business Administration and Master of Science degree candidates. Assemble in the gym at 1:30 p.m. sharp.

## Franciscan friar to speak at Baccalaureate Service

Father Senan Taylor, O.F.M. Cap., Franciscan friar of the Capuchin Order has been invited to address graduating students during the Baccalaureate Service. The service will be held in Canadian Martyrs' Church on Sunday, May 8.

This year the theme of the service is "St. Francis: A Man of Our Times" and Father Taylor will be speaking about St. Francis as a man from whom all can learn one way to lead a Christian life.

Father Taylor graduated from Capuchin Theological Seminary with a Bachelor of Divinity in 1970. He later earned a Master of Arts degree from Maryknoll Seminary and a Master of Arts degree in counselling from Manhattan College.

Over the years he has taught high school in Yonkers, New York; was a missionary on the Islands of Guam and Mariana; and directed the Deacon Program at Mary Immaculate Friary Garrison in New York. He is currently Director of Formation at St. Anthony Friary, Manchester, New Hampshire.

## Two Arts graduates win SSHRC scholarships

The Social Sciences and Humanities Research Council (SSHRC) has awarded Special M.A. Scholarships to two Saint Mary's students who will graduate at this year's Convocation.

Margaret McDonald, a 22-year-old Religious Studies major from Trenton, Nova Scotia, has been offered one of the SSHRC scholarships to complete a Master of Arts degree in Theology at the Toronto School of Theology, an affiliate of the University of Toronto.

Ms. McDonald has also been offered a Commonwealth Scholarship, awarded by the Canadian Commonwealth and Fellowship Committee to study in the United Kingdom. This scholarship is dependent on her final grades and on the Committee being able to find a place for her at a British University. She hopes to be accepted by Oxford University in the Master of Philosophy in Theology program, where she will specialize in biblical studies.

Ms. McDonald enrolled at Saint Mary's in 1979. During her years at the University she has been involved in the Chaplaincy and this past year she was Director of the Saint Mary's Chaplaincy Choir.

Judy MacIntyre, an Anthropology major, has been awarded the second SSHRC Special M.A. Scholarship. She will pursue post-graduate research in ceramics and archaeology at Trent University in Peterborough, Ontario. This award was not the only good news Ms. MacIntyre received this week. She has just been invited to spend the summer studying Inca ceramics at an excavation site in the Peruvian Andes with two archaeologists from Trent University.

Ms. MacIntyre graduated from Saint Mary's with a Bachelor of Arts degree in Sociology in 1972. After working for eight years she decided to pursue her interest in archaeology and returned to the University to complete an Honours Equivalency certificate in Anthropology.



Margaret McDonald



Judy MacIntyre

## Vice-President, Administration appointed



Guy L. Noel has been appointed Vice-President, Administration, announced University President Dr. Kenneth Ozmon. Mr. Noel has been Acting Administrative Vice-President since last October.

The native of River Bend, Quebec, has been on the staff of Saint Mary's University for 13 years during which time he held a number of administrative posts, including Director of University Services, Director of Planning and Information and Assistant to the Academic Vice-President.

Mr. Noel is a graduate of St. Francis Xavier University and the Technical University of Nova Scotia.

## NOTEWORTHY NOTES

PROFESSOR GAVIN BOYD (Political Science) has been asked to prepare a paper on regional cooperation between Pacific developing countries for a meeting of government representatives sponsored by the United Nations Institute for Training and Research. The meeting will be held in Buenos Aires in mid June.

FATHER WILLIAM LONC (Physics) and DR. NORMAN SCRIMGER (Astronomy) conducted a Radio Astronomy Workshop on March 13 for 21 senior students from the Halifax Grammar School.

Father Lonc has been invited to make an audio-visual presentation on his research on "Polarization and Frequency Dependence of Propagation Over a Very Long East Coast Path" at a symposium organized for "University Research Week" by the Department of Communications, Ottawa, May 30 to June 3.

DR. F. C. MINER (Dean of Commerce) recently visited Xiaman University, People's Republic of China. Dr. Miner represented Saint Mary's which is one of the coordinating universities in the Canadian International Development Agency program on Business Management Education with the People's Republic of China.

PROFESSOR DERMOT MULROONEY (Engineering) was a participant at a special conference on Engineering Education organized by the Science Council of Canada and the Canadian Council of Professional Engineers in Ottawa, April 11. Sixty representatives from industry, government, education and the professions were brought together to make recommendations to the Federal Government on critical issues in Canada's engineering education system.

DR. KENNETH L. OZMON (President) has been elected Vice-Chairman of the Association of Atlantic Universities.

DR. OZMON responded to a paper delivered by Dr. Larkin Kerwin, President of the National Research

Council, at the meeting of the Association of Universities and Colleges of Canada in Edmonton, March 2. Dr. Ozmon's paper dealt with research in the Social Sciences and Humanities.

Honours Biology student, MS. SHIRLEY RAMCHARITAR, presented a paper entitled "Chromosome morphology and chromosome numbers of some Eastern Canadian members of the family Compositae" to the 14th Atlantic Universities Undergraduate Biological Conference, held March 4 to 6, at Memorial University, St. John's, Newfoundland. The paper was based on Ms. Ramcharitar's honours thesis done under the supervision of DR. BRIJ KAPOOR (Biology).

DR. PETER RICKETTS (Geography) presented a paper entitled "The Saliency of Administrative Zones and Boundaries in the Ocean" to an international conference and workshop on "Maritime Boundaries",

organized by the Dalhousie Ocean Studies Program, on February 22.

DR. JOHN YOUNG (Chemistry) has received the second installment of a \$25,000 research grant from Energy, Mines and Resources, Ottawa, to continue his studies of the use of low-cost salt hydrates as energy storage media. A progress report of this work presented by research team member LARRY ROSBOROUGH received honourable mention at a chemical engineering conference held recently at Laval University, Quebec City. Team leader ALAN MAINGOT has received several awards for his contributions to the project. He and MICHAEL McMULLIN have recently completed undergraduate theses on related topics at the Technical University of Nova Scotia. JAMES COLLICUT has been awarded an NSERC student fellowship and will be joining the research group for the coming summer.

## Faculty Publications

J. DOSTAL (Geology), C. Dupuy and J. D. Keppie, "Uranium and thorium in paleozoic rhyolites of Nova Scotia", *Canadian Journal of Earth Sciences*, 20/1983, pp. 266-274.

J. DOSTAL (Geology) and D. F. Strong, "Trace-element mobility during low-grade metamorphism and silicification of basaltic rocks from Saint John, New Brunswick", *Canadian Journal of Earth Sciences*, 20/1983, pp. 431-435.

J. DOSTAL (Geology), C. Dupuy, J. P. Carron and R. C. Maury, "Partition coefficients of trace elements: application to volcanic rocks of St. Vincent, West Indies", *Geochimica et Cosmochimica Acta*, 47/1983, pp. 525-533.

RONALD G. LANDES (Political Science), "Politics in Nova Scotia", pp. 269-275 in R. B. Byers (ed.), *Canadian Annual Review of Politics and Public Affairs 1980*, (Toronto: University of Toronto Press, 1982).

RONALD G. LANDES (Political Science), "The Political Socialization of Canadian Youth", pp. 133-142 in K. Ishwaran (ed.), *The Canadian Family* (Toronto: Gage Publishing Limited, 1983).

GEORGE F. MITCHELL (Astronomy) and Terry J. Deveau, "Effects of a Shock on the Molecular

Composition of a Diffuse Interstellar Cloud", *The Astrophysical Journal*, 266 (1983), pp. 646-661.

William F. Gayton, Gertrude Havu, John G. Baird and KENNETH L. OZMON (President), "Psychological Androgyny and Assertiveness in Females", in *Psychological Reports 1983*, no. 52, pp. 283-285.

RASHID TAYYEB (Library), "Technical Innovations: Something New", *Canadian Library Journal*, Vol. 40, No. 1 (February 1983), pp. 5-7.

## Geology Professor Honoured

A new ostracod species, *Protocythere siddiquii*, from the British Upper Cretaceous was named in honour of Dr. Q. A. SIDDIQUI of the Department of Geology, Saint Mary's University, in a recent paper of the Palaeontographical Society of London (Weaver, 1982, No. 552, p. 54).

This honour was given to Dr. Siddiqui in recognition of his work on Upper Cretaceous ostracods from Northern Ireland in which he described this species without naming it.

# Saint Mary's to honour three Canadians



Dr. Phyllis R. Blakeley

Three Canadians will be honoured by Saint Mary's University at this year's Convocation ceremony: Dr. Phyllis R. Blakeley, B.A., M.A., B.Ed.; Harry R. Steele, B.A. (Ed.); and Reverend William A. Stewart, S.J., B.A., S.T.L., Ph.L., D.D., Professor Emeritus in Philosophy.

Archivist, author, educator, and Nova Scotian historian, **Dr. Phyllis Blakeley**, was born and raised in Halifax. Since graduating from Dalhousie University with a Master of Arts degree in history in 1945, she has been associated with the Public Archives of Nova Scotia and has been Archivist since April 1982.

Although the Archives have kept her busy, Dr. Blakeley has found time to write textbooks on Nova Scotia history that have been read by a generation of schoolchildren and to research biographies on Samuel Cunard and other distinguished Canadians for *The Dictionary of Canadian Biography*, for which she is consultant for Nova Scotia.

She has also contributed her time and energy to a number of community organizations that include the Royal Nova Scotia Historical Society, the Archivists Association of Canada and the Writers' Federation of Nova Scotia, from whom she won the Cultural Life Award in 1981.

In recognition of her service to the Archives and to the preservation of Nova Scotia culture and history, she has received a number of other awards. Among these were an honorary Doctor of Letters from her



Harry Steele

alma mater, Dalhousie University (1977), the Order of Canada (1978), and a certificate from the Canadian Government (1969) "on behalf of the Canadian people to record our thanks for a generous contribution to the preservation and enrichment of Canada's historical heritage".

**Harry Steele**, a fisherman's son from Musgrave Harbour, Newfoundland, is the President of Eastern Provincial Airways.

He was a member of the naval reserve and entered Memorial University through the navy's University and Training Division. In the early 1950s he graduated from Memorial with a Bachelor of Arts Degree in education and joined the regular navy as a communications and electronics specialist.

During his naval career, Mr. Steele was stationed at a number of bases throughout the world, but it was while he was an instructor at the Navy's Maritime Warfare School in Halifax in the late 1950s that he became interested in the stock market and real estate business.

After retiring from the navy in 1974 as a lieutenant-commander, he returned to his home province and bought shares in Eastern Provincial Airways, assuming the position of Vice-President Traffic and Sales in 1976. Little more than one year later he bought controlling shares in the airline and became President of the financially troubled company, soon turning it into a profitable enterprise.

Mr. Steele was invited by students in the University's Commerce Society to speak on "The



Father William A. Stewart, S.J.

Motivation of the Successful Entrepreneur" at the Society's dinner last February.

**Father William Stewart** was a member of the faculty at Saint Mary's University from 1950 until last summer. Born in Montreal, he was educated at Loyola High School and Loyola College, and later received post-graduate degrees from Regis College and Immaculate Conception College. He entered the Society of Jesus in 1937 and was ordained in 1949.

A professor of philosophy, Father Stewart has always believed in excellence in teaching and thus it is fitting that the Alumni Association has established a Medal for Teaching in his name. The University also honoured him for his dedication to teaching when he had conferred on him the distinction of Professor Emeritus in Philosophy on the occasion of his official retirement in 1981.

Although he held a number of administrative posts during his tenure, Father Stewart will always be remembered as moderator of the Dramatics Society, a student organization that he became involved with in his first year at Saint Mary's.

His love of drama drew him into community theatre groups, including the Bit Players (Theatre 1707) and the Theatre Arts Guild. He also became involved in the Cultural Federation of Nova Scotia, serving on its Board of Directors for two terms. In recognition of his service, the Federation twice honoured him: in 1977 he was awarded the Queen's Silver Jubilee Medal and in 1981 he was presented with the Dramatist of the Year Award.

## Three Days to remember

For Gert Day, May 9 will be a day to remember. All three of her children will graduate from Saint Mary's University with Bachelor of Commerce degrees.

As she sits in the audience at Convocation, Mrs. Day will be watching the culmination of years of typing papers that began in 1976 when son Peter and daughter Anne first enrolled at the University. Receiving their degrees will be Peter and her second son, Paul. Anne will be a graduate in absentia, vacationing on her honeymoon.

Peter, the eldest, aged 26, is married with two children. A marketing major, he completed two years at Saint Mary's, decided to get married and work for a couple of years, and then returned in 1981 to complete his degree. He managed to combine a full-time program with full-time work in a beverage room and the added responsibility of being a husband and father. This last semester has been especially tough as he had to pick up six credits in order to complete his degree requirements.



Peter, Anne and Paul Day

"It was difficult," he admitted, "but also a lot of fun." Anne, aged 24, began the Commerce program with Peter but decided to take some time off after one-and-a-half years of study. She worked for Halterm and then decided to try her luck in Vancouver. Realizing her chances of getting ahead were limited without a degree, she came back to Saint Mary's in 1980 and

completed the requirements for a marketing major.

"It was something I had always at the back of my mind," she said, "It was something I had started and I wanted to finish it."

Paul, the youngest of the three has just turned 22. He joined his brother and sister in the Commerce program in 1979 and will graduate with a major in finance. He opted for finance with a double major in accounting because he hoped it would lead to a good job. Like Peter, he combined full-time studies with full-time work as a bartender which, he admitted, affected his marks.

"It has been tough," he said. "I was going for a double major but decided not to take my last two half-credits in accounting to make the year a little easier."

Luck seems to favour the Days, though. In these times of recession all three have found jobs in their respective fields. Peter will be joining a brokerage firm, Paul has a job with a finance company, and Anne will work with her fiancé, a manufacturer's agent.

All three agree that their mother deserves honourable mention at the very least. She gave her children moral support through their years at Saint Mary's and typed each and every paper they wrote.

## English professor publishes first book



*John Clare and Picturesque Landscape* by Dr. Timothy Brownlow has just been published by Clarendon Press, Oxford. It will be available in Canada from Oxford University Press, Toronto.

The book will be part of a series on John Clare, published by Clarendon Press. Dr. Brownlow was an assistant professor of English at Saint Mary's in 1978 and 1979. This past year he was a research associate in Irish Studies at the University and was a member of the committee for the recent conference of the Canadian Association of Irish Studies.

## Art Gallery News



### Fusion of philosophy and photography

The last exhibition of the academic year will be "The Philography of Motion", a collaborative effort by photographer Francis Coutellier and philosopher Serge Morin, featuring photographs they made in the Polaroid Studio in Cambridge, Massachusetts.

The general public is invited to the opening on Sunday, May 1 at 2:00 p.m. in the University Art Gallery. The exhibition runs until June 15, after which date the Gallery will close for the summer.

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### Chamber music recital

A recital of chamber music featuring John Rapson, clarinet, William Tritt, piano, and William Valeau, cello, will be held at the University Art Gallery on Sunday, May 29 at 3:00 p.m. Admission is \$5.00; \$3.00 for students and senior citizens. This is the last scheduled event in the Performance Art program.

## Library awards a new "degree"



The Patrick Power Library offered a course on government documents for new employees. Audrey (Ginger) MacNevin holds her "Bachelor of Government Documents" degree while Ken Clare presents a gift to "professor" Murray Baillie. The inscription on the front of the T-shirt is the call number of the *Statistics Canada Catalogue*.

## Rights of women

The international rights of women in the workforce is the topic of a series of workshops sponsored by the International Education Centre and held in various communities in Nova Scotia during April and May. All the meetings are being organized with the help of local committees who have arranged facilities and child care supervision, and have made suggestions for guest speakers. Each workshop will include speakers, slide presentations and discussion periods.

The following all-day workshops will be held, beginning at 9:30 a.m.:

Saturday, May 7,  
St. Andrew's Church Hall, Truro, N.S.

a.m. Women in Agriculture,  
with Dr. Ellen MacLean, former National president of the Women's Institute; Melinda MacLean, a lawyer; and Margaret Hope-Simpson of CUSO and a student at the Nova Scotia Agriculture College.

p.m. Women and Microtechnology  
Kathy Chisholm of Success Business School, and Mary Morrison, formerly with the Department of Occupational Health.

Saturday, May 28,  
Saint Mary's University, Halifax, N.S.

a.m. Women and Microtechnology  
p.m. Women in the Fisheries

Details of this workshop will be announced.

## History professor appointed to government committee

Dr. Mary Sun (Asian Studies) has been appointed to a federal government Founding Committee to determine the detailed structure of an Asia-Pacific Foundation for Canada and to secure its financial backing.

The Committee, chaired by John Bruk of Vancouver, includes 14 members drawn from business, labour, academic and other interests. Dr. Sun is the only representative from the Atlantic region.

Establishment of the Foundation reflects the Canadian government's greater attention to the Asia and Pacific dimension of Canada's international interests and helps raise the country's profile in the Pacific Rim.

## South African exile to speak at the I.E.C.

Donald Woods, former newspaper editor and author of *Biko*, a biography of the black activist who died in a South African prison, will be speaking in Theatre B on Saturday, May 7 at 7:30 p.m.

Mr. Woods was banned by the South African government five years ago for his outspoken views on apartheid. Banned people are forbidden to appear in public or attend gatherings, private or otherwise. After complying with the banning order for a while, Mr. Woods fled his native country when his family received threats.

A white South African, he once commented that blacks who are banned receive the support of their communities but whites who are banned are outcast and labelled terrorists.

Mr. Woods' lecture is co-sponsored by the International Education Centre and the International Defense and Aid for Southern Africa.

## Medal for Teaching announced by Alumni Association

The Reverend William A. Stewart, S.J., Medal for Teaching has been established by the Alumni Association. The award is intended to recognize faculty members who have made an extraordinary contribution to the education of Saint Mary's students through teaching, in the Saint Mary's tradition of quality undergraduate education.

Nominations will be reviewed by a selection committee who will make its recommendations to the Alumni Executive. Nominees will be selected on the basis of teaching ability and classroom performance, interaction with students, and extra-curricular contributions to the life of the University community. The first medal will be presented at this year's Convocation ceremony.

In speaking about the award, Father Stewart expressed his pleasure in having his name associated with the medal. He believes that good teaching provides the foundations of a good, small, liberal arts University like Saint Mary's.

"We don't have the big graduate schools that Dalhousie has, so we must concentrate on our undergraduate teaching," he said. "Through excellence in teaching, young students are introduced to new ideas and helped to refine their thinking."

## Summer program for senior citizens

Maybe you have thought about joining the Elderhostel program of study and travel for senior citizens but don't want to travel this summer; maybe you would like to learn more about Halifax; or maybe you have thought about taking some university courses during your retirement years but are wary of starting out. Whatever your reasons, if you are over 60 years of age and would like to invest a little of your time in courses that are both educational and fun, Saint Mary's University is offering a one-week program, July 17 to 22, that just might interest you.

Coupled with civic receptions, guided tours and other special events, the University's Division of Continuing Education will offer courses on the history of Halifax and the latest discoveries in astronomy.

"Halifax: From Colonial Outpost to Atlantic Metropolis" is the story of the growth of one of the oldest cities in the Maritimes. Taught by civic historian Lou Collins and his wife, the course will combine lectures on history, culture, architecture and social development of the city with walking and bus tours of historic sites.

"Journey Through the Cosmos" explores the universe through recent findings made by the solar system explorers and with large optical telescopes. Using the facilities of the University's Astronomy Department and the Burke-Gaffney 0.4 meter reflecting telescope, Dr. Norman Scrimger will discuss black holes, pulsars, extraterrestrial life and the evolution of the universe.

Registration for the Saint Mary's program for senior citizens is limited, so plan your summer early. For more information on these and other summer courses offered by the University, please call the Division of Continuing Education, 429-9780, ext. 140.

## Textbook by Dr. Ronald Landes published



A textbook on Canadian politics, written by Dr. Ronald G. Landes, Associate Professor of Political Science at Saint Mary's University, has just been published by Prentice-Hall of Canada. The book is entitled: *The Canadian Polity: A Comparative Introduction*.

The goal of the book is to teach students how to carry out the analysis of political systems from a comparative point of view. While the major focus of the text is on Canadian politics, comparisons are made on each topic with the British and American patterns. Included is an analysis of both the content and the passage of the Constitution Act of 1982.

## National Universities Week: October 2 to 8, 1983

The first week of October has been designated as a week of celebration for Canada's post-secondary institutions by the Association of Universities and Colleges of Canada (AUAA).

Under the theme of "We have the Future in Minds/L'Avenir en Tetes . . .", a week-long program of activities, special events and open houses will be organized on a regional basis. Dr. Ozmon is chairman of the Atlantic region's National Coordinating Committee.

The objectives of National Universities Week are to demonstrate the role of individual universities and the university system in community, regional and national development; to underline the value to society produced by university teaching, scholarship, research, and public and cultural activities; to emphasize university contributions to business, industry and the economic life of the community; and to foster a greater sense of pride and higher morale on university campuses.

Universities will organize individual activities to focus attention on these objectives and to attract the attention of as many people as possible in the local community. The aim is to coordinate National Universities Week with other planned university activities. Saint Mary's participation in the week-long festival will be highlighted in the September issue of *The Times*.

## Notes from AUCC . . .

### CBC INVITES ACADEMICS TO AIR THEIR IDEAS

IDEAS is a CBC weeknight stereo program that covers the sciences, humanities, social sciences and the arts through documentaries of two to five hours' duration. Academics are invited to submit proposals for coverage, to do the necessary interviews, shape the material and finally to script and narrate their series with the assistance of CBC producers. Series production would be on a contract basis. Those interested are invited to contact the executive producer of IDEAS, Geraldine Sherman, CBC, P.O. Box 500, Stn A, Toronto M5W 1E6 (416-925-3311, ext 2084).

## Holidays . . . holidays

The University will be closed during the following days:

Monday, May 23	Victoria Day	Monday, Aug. 1	Dartmouth Natal Day (½ day)
Friday, July 1	Canada Day	Monday, Sept. 5	Labour Day
Monday, July 25	Halifax Natal Day		

## Renowned Physicist and Saint Mary's Alumnus Welcomed



Dr. Kevin Moriarty, an alumnus of Saint Mary's and Dalhousie, and now a renowned theoretical physicist and professor of applied mathematics at the University of London, spoke on Modern Physics at the University Art Gallery March last. Dr. Moriarty's research on Lattice Gauge Theory (the position of molecules in a crystal) has earned him an international reputation.

The following day Dr. Moriarty spoke at a faculty colloquium and attended a reception hosted by the Alumni Association in the Gorsebrook Lounge. Shown here at the reception are (left to right): Professor Urhan Merdsoy of the Physics Department, alumnus Earl Walsh, Dr. Moriarty and Laurie Smith, Director of Alumni Affairs.

## Achievement Scholarships 1983-84

VALUE:	\$400.00 to maximum \$2,000.00
FIELD:	Unrestricted
CONDITIONS:	Candidates must have been full-time students in the immediately preceding academic year at Saint Mary's University and carried 5 full courses or the equivalent number in half courses.  Courses taken in summer session(s) will <i>not</i> be considered.
DURATION:	Each award is granted for one year only. However, scholarships may be renewed each year on a competitive basis, providing students are working towards the completion of a first undergraduate degree and apply by May 31st, 1983 to the Financial Aid Officer.
DEADLINE:	May 31st, 1983 to the Financial Aid Officer.

For further information, please contact:

Financial Aid Officer  
Business Office, Room 119  
Saint Mary's University  
Halifax, Nova Scotia B3H 3C3

## Marketing of flyash subject of study

Each day industrial plants produce tonnes of industrial waste that must be disposed of safely. The Nova Scotia Power Corporation is no exception. The Corporation's coal-burning plants produce a non-hazardous by-product known as flyash, a fine, dust-like substance that is used in making concrete in some parts of Canada, but not in Nova Scotia.

Dr. Thampiah (Tom) Kumanan, a civil engineer with the Power Corporation and a Master of Business Administration (MBA) graduate of Saint Mary's University, explained that the ash can be used as a substitute for a percentage of the cement used in the manufacture of concrete. He undertook a market survey of the commercial potential of flyash in the Maritimes as an MBA research project. The project has become an on-going part of his responsibilities in the Design and Construction Division of the Halifax-based Power Corporation.

The project, he explained is two-fold: he had to survey the market size and also test the flyash produced by the Power Corporation to ensure that if used in concrete the end product would meet standards set by the American Society for Testing Materials (ASTM) and the Canadian Standards Association (CSA).

The first step was to survey 300 professional engineers in Nova Scotia and New Brunswick to see if they would accept flyash in part substitute for cement

and to establish a "growth model" based on the results of the respondents. Dr. Kumanan added that a growth model works on the theory of diffusion of innovation, a supposition that the populace can be divided into two sectors: innovators, those who will try a new product based on individual choice, and imitators, those who will adopt a product if others do. The more innovators who will use a new product, the more imitators who will follow suit up to a projected maximum. Based on his statistics he set out to establish how many tonnes of flyash the Nova Scotia Power Corporation could expect to market in the first few years and the maximum number of tonnes the Corporation could hope to sell once the product has been accepted.

Dr. Kumanan also surveyed some 50 retailers of ready-mix concrete to establish how many would use flyash in their manufacture of concrete. Most respondents indicated they would provided the price was right. Cement, the most expensive component of concrete, costs about \$100 a tonne. However, if the flyash is marketable it should be cheaper since at the moment it has little commercial value.

The next step was to test the quality of the ash produced by the Nova Scotia Power Corporation plants to see if it met the rigid government standards. The quality of flyash, explained Dr. Kumanan, depends on a number of factors including the quality of the coal being burned at any one plant, the plant's efficiency in burning the coal and the plant's filtering system. Flyash is so fine that it floats in the air as dust particles unless recovered by dust collectors. The results of the testing indicate that Nova Scotia flyash

is suitable for use in the manufacture of concrete, he added.

Dr. Kumanan came to the Power Corporation seven years ago from the University of Waterloo where he had been a Post-Doctoral Fellow in Civil Engineering. He enrolled at Saint Mary's University in the late 1970s as a part-time student, taking most of his classes in the evenings. It was hard work, he admitted, but well worth the effort. Although he completed his degree requirements for an MBA last fall, he decided to wait and receive his degree at the 1983 Convocation ceremony, to be held at the University on May 9.

## MBA student research

One of the prerequisites for a Master of Business Administration degree from Saint Mary's University is completion of an original research project. Dr. Hari Das, Director of the MBA program, provided information on four projects undertaken by students this past year.

### Joint Ventures: The New Industrial Arrangement?

Robert Russell researched industrial arrangements concluded by two or more companies entering into joint ventures, a formal corporate arrangement whereby independent companies join forces to create a new entity. This type of arrangement suits firms who wish to spread their financial risks or governments who want to ensure that foreign companies do not control their countries' resources. Of the 30 Nova Scotian companies surveyed by Mr. Russell, 49 percent had employed some sort of joint venture at one time or another, and in three-quarters of those companies the initiative originated with a Nova Scotia firm. Despite pitfalls that include arrangements with the wrong partner, overall restrictions or unfair sharing of equity, Mr. Russell established that joint ventures appear to be gaining popularity in Nova Scotia, particularly in the field of oil and gas exploration.

### A Look at Our School System

James de la Mothe looked for the differences between academic performances achieved by male and female students, and attempted to establish if the quality of education as measured by achievement tests is improving and if the quality of learning in a given school improves as students move into higher grades.

Surveying the performances of a random selection of 640 graduates from four high schools between 1978 and 1981, Mr. de la Mothe discovered that there was no discernible difference in overall performance by the students in the four schools but that there was a significant difference between males and females in mathematical ability and writing scores at the grade 9 level, and that students' performances did improve as they reached higher grades.

### How Does an Insurance Agent Pick an Insurance Firm?

The criteria an insurance agent establishes in selecting an insurance company formed the basis of Lorne Browne's project. He looked not only at the criteria, which included speed of service, commission rate, premium rates, company reputation and fairness in settling claims, but also at the trade-offs an agent must make between these variables. In studying the trade-offs, Mr. Browne came across a "conjoint analysis" procedure for resolving many of these problems. Conjoint analysis is a computer algorithm for helping to establish the precise trade-offs an agent makes in choosing an insurance company.

### Job Sharing in the 1980s

Did you ever think of sharing your job with someone else — taking half pay (and half benefits) for working half time? Those who have tried it, says Judi Bell, like it a lot.

The MBA student surveyed 32 women working at 16 shared jobs and established that job sharing increases commitment and dedication by the workers and results in a lower rate of absenteeism and lower training costs. The employees benefit by being able to work and augment the family income while still finding time to spend with their children.

Copies of these reports are available from the Special Collection Division of the University's Patrick Power Library.

## Students receive awards



Shown here are (left to right): Janice Giffin, a first year Commerce student and winner of the William Chisholm Trust Award; Maureen McLean, first year Commerce; and Hoda Badawi, third year Science. Miss McLean and Miss Badawi, daughter of Dr. Gamal Badawi, are co-recipients of the Owen J. and Mary C. Hayes Memorial Scholarship.

## Dr. William J. Dalton Memorial Scholarship



Shown here with Mrs. Kay Dalton (centre) are this year's winners of the Dalton Scholarship for Political Science majors: Howard Steel and Theresa Forgeron.

# China Project

The People's Republic of China is undergoing a massive modernization program, initiated by the present government to make China a viable industrial nation. In the post-Mao years the Chinese government approached a number of industrialized countries, including Canada, for help in implementing the program.

The Canadian government responded and through the Canadian International Development Agency (CIDA) agreed to provide funds and the expertise to help the Chinese government in four specific areas: agriculture, forestry, energy and management education. CIDA will set up a number of projects involving Canadian and Chinese experts in these four areas. Some of the Canadians will work in China while a large number of the Chinese will be trained in Canada.

It is an immense program, involving some 30 to 40 proposed projects. The first and most crucial step is to set-up language and cultural training programs for the Chinese participants in the projects and centres for Canadians involved in the CIDA projects to learn about Chinese culture and society.

Saint Mary's University in Halifax was approached by CIDA last year to organize and administer the language and cultural programs. Dr. Mary Sun, Co-ordinator of the Asian Studies program at the University and former cultural attaché in Peking, has been appointed co-ordinator of what has been known as the "China Project".

Dr. Sun explained that the China Project at Saint Mary's has three essential components. The first and most immediate is to set-up the Canada/China Language Training Centre in Peking. The Centre will

be based at the Beijing (Peking) Institute of Foreign Trade, a "key" institute in China, recognized for its excellent language training programs for Chinese diplomats and its cosmopolitan attitude towards western culture.

"China has been isolated for so many decades," said Dr. Sun, "that few of its educational institutes have contacts with the industrialized world."

The Centre in Peking will be supervised by Saint Mary's, using Canadian teachers, materials and audio-visual equipment. All Chinese personnel involved in the many CIDA projects will have to pass through the school. They will be selected on the basis of an admission test and will be required to pass a final examination.

The Language Centre will open immediately as its first graduates must be ready to begin on other CIDA projects before the end of 1983. The first of the six-month courses began on April 15 and a number of the 40 initial registrants will be trained as interpreters for the Canadians who will be working in China.

Dr. Sun is responsible not only for administering the school but for consulting with academics involved in the Teaching of English as a Second Language (TESL) and English for Special Purposes (ESL) in selecting materials, screening the materials to ensure suitability for Chinese needs, recruiting teachers with experience in teaching English or French as a second language, and briefing the successful applicants prior to departure for China.

The second component of the Saint Mary's project is to offer the Chinese experts arriving in Canada an introduction to Canadian culture and society and to provide courses in English or French on specialized vocabulary for specific vocations. The third component is to prepare Canadians who are to work in China under CIDA with an introduction to Chinese

culture and society. To this end, Dr. Sun is organizing a network of regional centres across Canada designed to enable both Chinese and Canadian participants in the CIDA projects to learn about each other's culture and to provide specialized vocabulary courses for the Chinese. The centres will be based at selected Canadian universities that offer either Asian Studies programs or have the facilities for teaching English or French to foreigners. Each university will be expected to co-ordinate with other regional universities and colleges to organize individual programs. The International Education Centre at Saint Mary's hopes to be designated as one of the centres and act as the regional co-ordinator for the Atlantic provinces.

Dr. Sun explained that the scope of the Saint Mary's China project is immense. All participants in the various CIDA projects will touch upon the Saint Mary's program, either by attending one of the regional centres or, in the case of all Chinese personnel, completing the language course at the Beijing Institute.

As with all development aid programs, the CIDA projects will last about five years, after which the Chinese government is expected to assume responsibility for the programs. Dr. Sun expects to be directly involved for two to three years as co-ordinator of Saint Mary's project and administrator of the Language Centre in Peking. She plans to be at the school for the first session, at least, leaving the administration of the Canadian components of the project to her assistant, Dr. Tony Chan.

"Professionally, this is the most challenging job I have taken on," said Dr. Sun, "even more so than the work at the Embassy. This is much more focused and urgent."

# Saint Mary's site of regional analytical facility

Saint Mary's University will be the location of a Nova Scotia regional x-ray fluorescence analytical facility for the analysis of rock and soil samples, announced the Dean of Science, Dr. D. H. Williamson. The facility will be established by grants totalling nearly \$300,000, provided by the Natural Sciences and Engineering Research Council (NSERC).

Dr. Williamson emphasized that this is a regional facility for use by Maritime geologists and chemists. He added that the application to NSERC was co-signed by members of the universities of Saint Mary's, Dalhousie, Acadia, St. Francis Xavier and Mount Allison, and the Nova Scotia Department of Mines and Energy.

"Many people," he said, "do not realize the degree of concentration of research institutions in the Halifax-Dartmouth area, such as the Nova Scotia Research Foundation or the Bedford Institute of Oceanography. The Technical University of Nova Scotia may also collaborate in the use of the facility."

In agreeing to locate the facility at Saint Mary's, the University also agreed to provide laboratory space for sample preparation and office space for visiting researchers.

The x-ray fluorescence analytical facility will be completely automated with the latest micro-processing technology. Dr. Williamson said that most of the equipment will be arriving during the coming months and the facility should be ready for testing by September, though it may take several more months before procedural operations are streamlined.

The facility will enable geologists to analyze samples for elements in the earth's crust. Dr. Williamson explained that only eight elements comprise about 96 percent of the earth's crust: oxygen, silicon, aluminum, iron, magnesium, calcium, sodium and potassium. The other 80 elements make up the remaining three to four percent. These elements are known as the trace elements. The facility should be able to detect the presence of many elements with an atomic weight of more than eight, eight being the atomic weight of oxygen.

The process is fairly simple in principle, although the presence of other elements can complicate procedures used. Basically, an x-ray beam excites the electrons in a sample of powdered rock or soil, causing a secondary radiation beam to be emitted

from the sample. This secondary beam is composed of wavelengths emitted by all the individual elements in the sample. Each element produces its own characteristic wavelength, its "fingerprint". A spectrometre will separate the secondary beam into distinctive wavelengths, characteristic for each element in the sample.

A quantitative analysis of the amount of each element in an unknown sample can be made by comparing the intensity of the secondary x-ray beam with those emitted by a standard of known composition.

Once standards have been established, analyzing unknown samples by this equipment takes only a few minutes. What is time-consuming is the preparation of samples. These must be ground to a powder in a dust-free environment so that no contaminants are introduced. Known samples must be analyzed

repeatedly to ensure reliability of results, explained Dr. Williamson.

What are the uses of the facility? One of the principal uses is in studies of the geological processes leading to the formation of mineral deposits. Other uses include research of the geo-chemical processes that formed the earth's crust or analysis of samples to detect pollutants in soils and muds.

Dr. Williamson concluded that not only is this the largest grant provided for research at Saint Mary's, but it also reflects a trend among researchers in universities and governments to collaborate more closely with one another.

"The day is past when the government will make equipment grants to individual institutions: it is too expensive. The trend today is towards grants for regional facilities for use by a greater number of institutions."

# Thorne Riddell Scholarship



Robert Radchuck, C.A., (left), Managing Partner of Thorne Riddell, and Professor Greg Walsh (right), Chairman of the Accounting Dept., are shown here with this year's recipients of the Thorne Riddell Scholarship for Accounting majors: Gordon Stewart, Brenda MacKay and John Harlow.

## Sports Round-up

The Athletics Awards Night at Saint Mary's on March 25 was the climax of a successful year that was highlighted by the men's basketball team who were the Atlantic Universities Athletic Association champions.

The evening belonged to the student-athletes who participated in the athletic and recreation programs during the 1982-83 season. This year the winners were:

### Athletes of the Year

Karen McKellar, a member of the field hockey and women's basketball teams. This is the second time she has won this award.

Ross Webb, a member of the men's soccer team.

### Manager of the Year

John Landry of the men's basketball team.

### John Jones Memorial Award for the "unsung hero"

Annalie Vandenberg, a member of the women's field hockey and basketball teams.

### Rookies of the Year

Cindy Crosby, goalkeeper for the field hockey team.

Greg Williams, a member of the men's basketball team.



Athletes of the Year, Ross Webb and Karen McKellar, pose with Director of Athletics and Recreation, Bob Hayes, on the occasion of his 25th anniversary at Saint Mary's.

## Charter Day 1983

As usual the executive of the Students' Representative Council held the Charter Awards Banquet for those students who contributed significantly to student life on campus. After dinner, awards were made to those students who worked hard to make the past year a success.

This year's Banquet, held on April 7, reminded all who attended of the contribution the late Father J. J. Hennessey made to the University. The J. J. Hennessey Medal for the student who best upholds the spirit of Saint Mary's was awarded to Commerce student Don Smart. The medal, awarded annually, was established in Father Hennessey's name by the graduating class of 1970. In making this year's presentation, alumnus Paul Gouett noted that the legends surrounding Father Hennessey will live for years.

Just prior to the presentation of the Hennessey Medal, Laurie Smith, Director of Alumni Affairs, rose to accept a cheque for \$1000 from the executive of the Students' Representative Council as the Council's contribution to the Father J. J. Hennessey Memorial Trust Fund. The Fund now stands at \$17,600, with outstanding pledges bringing the total close to \$20,000. "I promise you," he said to a gathering of 450 students, "that we will reach \$25,000 by July." Later Mr. Smith added that he hopes the first scholarship may be awarded in September 1983.

## From the Residence Office

The Residence Society held the annual Awards Banquet on Friday, March 18, at which time awards were presented to those students who made a positive contribution to residence life:

Some of the Special Awards presented this year went to:

Students of the Year	Joyce Ellis Dave Peters
Athletes of the Year	Rob Muir Kathy Nolan
Frosh of the Year	Jennifer Newton
Academic Awards	Wayne Cox Brenda MacKay
Desk Clerk of the Year	Leonard McNabb
Dons of the Year	Peter Lockhard Lee Ann Tost

The Society also elected its new executive for 1983-1984:

President	Dave Peters
Vice-President	Connie McRae
Treasurer	Marg Demers
Secretary	Simone Campbell



Joyce Ellis, Residence Society President, and Dave Peters are shown accepting their awards for Resident Students of the Year.

## Summer Schedules

### ART GALLERY

Monday closed  
Tuesday to Thursday 1:00 p.m.-7:00 p.m.  
Friday 1:00 p.m.-5:00 p.m.  
Saturday, Sunday 2:00 p.m.-4:00 p.m.  
Closes: June 15

### BOOKSTORE

Regular hours: Monday to Friday 9:00 a.m.-4:30 p.m.  
Wednesday open until 7:30 p.m.  
Summer sessions: May 10-12 9:00 a.m.-8:00 p.m.  
July 4-6 9:00 a.m.-8:00 p.m.

### CONTINUING EDUCATION/INFORMATION DESK

May: Monday to Thursday 9:00 a.m.-7:30 p.m.  
Friday 9:00 a.m.-5:00 p.m.  
June: Monday to Friday 9:00 a.m.-4:30 p.m.  
July: Monday to Friday 9:00 a.m.-4:30 p.m.  
August: Monday to Thursday 9:00 a.m.-7:30 p.m.  
Friday 9:00 a.m.-4:30 p.m.  
September: Monday to Thursday 9:00 a.m.-7:30 p.m.  
Friday 9:00 a.m.-5:00 p.m.

### LIBRARY

Regular hours: Monday to Friday 9:00 a.m.-5:00 p.m.  
Closed on weekends  
Summer Sessions: Monday to Friday  
9:00 a.m.-9:00 p.m.  
Saturday closed  
Sunday 1:00 p.m.-5:00 p.m.

### BURKE-GAFFNEY OBSERVATORY

Tours — Every Saturday  
Meet in Room L 152 at 9:00 p.m.

### RELIGIOUS SERVICES

University Mass  
Sunday 7:00 p.m. Canadian Martyrs' Church  
until mid-June

Ignatius Chapel (opp. Royal Bank)  
Open Monday to Friday for Prayer and Meditation

Chaplain  
Father John Mills  
L 200, ext. 219 or 220 or 422-2223

### ROYAL BANK

Wednesday, Friday 10:00 a.m.-2:30 p.m.

### FOOD SERVICES

**Residence Cafeteria**  
Monday to Friday 8:00 a.m.-6:00 p.m.  
Closed on weekends

### Faculty Lounge

Monday to Friday 8:00 a.m.-3:45 p.m.

### Mini-Mart, Loyola Building

Monday to Friday 8:00 a.m.-11:00 p.m.  
Saturday & Sunday 10:00 a.m.-11:00 p.m.

This is the last edition of *The Times* for the academic year. The next edition will be published in September and the deadline for that issue will be August 17.

Please send articles of interest to Information and Public Relations, Saint Mary's University, Halifax, N.S. B3H 3C3.

*The Times* is published once a month during the academic year for staff, faculty, students and friends of Saint Mary's.