

*Wisdom entereth not into a
malicious mind,
and science without conscience
is but ruin of soul.*

— Francois Rabelais

Saint Mary's University
Halifax, Nova Scotia

May, 1985
Volume 14, Number 6

Honorary degree recipients announced

Saint Mary's University will honour the Prime Minister of Ireland, and five other distinguished persons at the Spring Convocation on May 13.

The Right Honourable Garret FitzGerald, Prime Minister of the Republic of Ireland, will receive an honorary Doctor of Civil Laws degree. He is an economist and a politician. Dr. FitzGerald was educated at St. Brigid's School in Wicklow; Colaiste na Rinne, Waterford; Belvedere College, Dublin; and King's Inns, Dublin. He was a lecturer in the Department of Political Economy, University College Dublin. He was elected to the Irish Senate in 1965, and to the Irish Parliament, the Dail Eireann, in 1969. He became Minister of Foreign Affairs in 1975. In 1977 he was elected leader of Fine Gael party and became Prime Minister in 1981. He has published several books including *Planning in Ireland* and *Towards a New Ireland*.

Saint Mary's has a strong connection with Ireland; it was founded in 1802 by Irish Catholics, and was administered for a time by the Irish Christian Brothers. A Chair in Irish Studies is currently being planned.

Diplomat Charles Ritchie will receive an honorary Doctor of Letters degree. He was born in Halifax and attended the University of King's College, Harvard University, and Ecole Libre des Sciences Politiques in Paris.

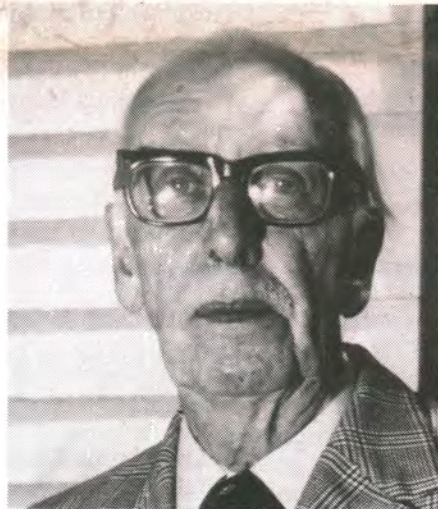
Mr. Ritchie had a long and distinguished career representing Canada abroad. For nearly half a century he was one of Canada's top diplomats, serving as the Canadian Ambassador in London, Bonn, Washington and the United Nations. As an advisor to Canadian prime ministers, he was a key architect of Canada's image in the post-war world. A writer all his life, he began publishing after his retirement in the early 1970s. He has published several books including *The Siren Years* which won the Governor General's Award for non-fiction and became a best seller.

Dr. Alice R. Stewart, Professor Emerita of History at the University of Maine at Orono, will receive an honorary Doctor of Letters degree. She founded the New England-Atlantic Provinces-Quebec Centre at the University of Maine. She is a specialist in Canadian History, with a strong interest in the Atlantic Provinces.

Dr. Stewart, who received a doctorate from Radcliffe in 1946, was



Right Honourable Garret FitzGerald,
Prime Minister of Ireland



Canadian diplomat Charles Ritchie

a Fulbright Research Fellow at the University of London in the mid-1950s. She received an honorary Doctor of Laws degree from the University of New Brunswick in 1979.

She has taught at the University of Maine, Wellesley College, and Radcliffe College. She is the Library Consultant for the Canadian-American Centre at the University of Maine. In 1979, she was awarded the Donner Medal of the Association of Canadian Studies in the United States for Contributions to Canadian Studies.

Terence F. Heenan, President and Chief Operating Officer of British Columbia Telephone Company, will receive an honorary Doctor of Science degree. He was born in Halifax and attended Saint Mary's University where he received a Bachelor of Science degree in 1947. Two years later he received a Bachelor of Engineering degree from the Nova Scotia Technical College (now the Technical University of Nova Scotia). In 1980 the Technical

Schedule of Events

Morning Convocation (9:30 a.m.)

Degrees will be awarded in the Faculty of Arts (including Master of Arts) and Faculty of Science (including Division of Engineering and Master of Science).

Honorary degrees will be awarded to:

Margaret Catley-Carlson, B.A.

Charles S.A. Ritchie, C.C., B.A., M.A.

Alice R. Stewart, B.A., A.M., Ph.D.

Margaret Catley-Carlson will deliver the Convocation Address.

Afternoon Convocation (2:30 p.m.)

Degrees will be awarded in the Faculty of Commerce (including Master of Business Administration) and the Faculty of Education (including Master of Arts).

Honorary degrees will be awarded to:

Alberta H.P. Baker, B.A., B.Ed.

The Honourable Garret FitzGerald, B.A., Ph.D., LL.D.

Terence F. Heenan, B.Sc., B.E.

The Honourable Garret FitzGerald will deliver the Convocation Address.



Dr. Alice R. Stewart, Professor Emerita of
History at the University of Maine at Orono



Terence F. Heenan, President and Chief
Operating Officer of B.C. Tel.



Margaret Catley-Carlson, President of
CIDA



Alberta Baker, President of the South
Shore Community Service Association

University conferred on him an honorary Doctor of Engineering degree.

Mr. Heenan worked at Maritime Telephone and Telegraph Ltd. in a number of engineering and traffic positions from 1949 to 1965. In 1967 he was employed by British Columbia Telephone and was appointed President of the company in 1983. He is a former director of Telesat Canada,

past chairman of the Canadian Telecommunication Carriers Associations, and a former member of the Advisory Council of the British Columbia Institute of Technology. Although he lives in B.C., he has maintained ties with Saint Mary's and is a member of the Board of Advisors for the University's Capital Campaign.

noteworthy notes

Noteworthy Notes submissions should be typed and submitted in the format used below. Please include only events that have happened.

Dr. James Ahiakpor (Economics) presented a paper entitled "On the Irrelevance of Neoclassical Economics to the Less Developed Countries" at the Canadian Association of African Studies conference, held in Montreal, April 1985.

Dr. Saleh Amirkhalkhali (Economics) presented a paper entitled "On the Relative Small Sample Properties of Alternative Estimators for Regression with Autocorrelated Non-normal Errors" at the Canadian Economic Association, Montreal, April 1985.

Dr. Jamal Badawi (Management) was invited to address the plenary session of the Second International Search Conference, held in Anaheim, California.

Dr. Badawi participated in a Muslim-Christian Dialogue held at Acadia University. The other participant was Dr. Forsman of the Religious Studies Department at Acadia.

Dr. Badawi was a guest speaker at a seminar held at the University of New Brunswick in Fredericton.

Dr. Badawi will begin a new segment on the "Islam in Focus" television program dealing with the sciences of Qur'an. The program is aired on Channel 10 on Tuesdays at 10:30 p.m. and on Saturdays at 1:30 or 2:00 p.m.

Elizabeth Chard (Registrar) was invited to be a participant at a workshop entitled "The Agent in Amateur Sport", which was held in Ottawa, March 28 to 29, 1985. This exploratory workshop was sponsored by the National Sport and Recreation Centre, the Canadian Interuniversity Athletic Union, and the Fitness and Amateur Sport division of the Government of Canada.

Dr. Margaret Harry (English) was co-runner-up in the Black Water Short Story Competition for fantasy fiction. The title of her entry was *Mud*.

Dr. Andrew Harvey (Economics) presented a proposal for a multinational co-operative time-use study at the meeting of the International Research Group on Time Budgets and Social Activities, held at The Hague, The Netherlands, April 1985.

Dr. Harvey served as chairperson of a national review committee for a study on "The Economic Impact of the Arts and Culture Sector". The committee of five persons was established by the Culture Education and Tourism section of Statistics Canada.

Dr. Harvey presented an invited paper entitled "Spending Time" at a Presidents Symposium on "Time: A Human Resource", held in conjunction with the 75th anniversary of the University of Saskatchewan, Saskatoon.

Dr. Harvey presented an invited seminar on "Stability and Change in the Halifax Panel" to members of the Department of Geography at the University of Western Ontario, London, Ontario.

Dr. Michael Herrick (Management) moderated a panel discussion on "Technical Communication" at the Association of Business Communicators, Toronto, April 1985.

Dr. Kris Inwood (Economics) was invited to participate at a symposium on "Competitiveness Through Technology: What Government Needs From Government" at York University, April 1985.

Dr. Joseph G. Jabbara (Academic Vice-President) has been appointed by the Maritime Provinces Higher Education Commission to the

AAU-MPHEC Academic Advisory Committee. Dr. Jabbara served on the above Committee for a three-year period from 1981 to 1984 as an AAU representative.

Dr. Alfonso Rojo (Biology) has been invited by the Instituto Oceanografico of the University of Oriente in Venezuela to participate in the development of a postgraduate academic and research program in the field of marine fishery.

Dr. Rojo's prize-winning story in the recent Spanish Literary Contest has been published in Ottawa in the original version with translations in English and French. The English translation was completed by his son, Henry Rojo, B.A., B.Ed., an alumnus of Saint Mary's. The French version was made by Dr. F. Pepin, a former professor in the Department of Modern Languages.

Professor Robin Rodger (Marketing) attended Seafood Expo '85 in Boston, Massachusetts, March 1985 as a guest of the Department of External Affairs.

Dr. Hermann F. Schwind (Management) has been invited by the American Society for Training and Development to contribute a chapter on cross-cultural management to its Handbook on International Management.

Professor Rolph Seringhaus (Marketing) presented a paper entitled "Private/Public Sector Interaction: How Effective is Export Marketing Assistance by the Government" at the annual conference of the European Marketing Academy, held at Bielefeld, West Germany, April 1985.

Elizabeth Stevens (Information and Public Relations) is a member of the National Media Committee for National Universities Week. This year, National Universities Week will be held from October 19 to 27.

Dr. Quadeer A. Siddiqui (Geology) has been appointed to the Editorial Board of the *Journal of the Palaeontological Society of India*.

Dr. Keith Vaughan (Chemistry) attended the 26th Annual General Meeting of the British Association for Cancer Research, held March 24 to 27 at the University of Aston in Birmingham, England. Dr. Vaughan presented a paper in the Drug Metabolism Symposium entitled "Iminium Ion Formation vs. Carbinolamine-Amino Aldehyde Tautomerism in the Solvolysis of Triazine and Triazene Carbinolamines: A Model System for the Metabolism of N-Alkyl Xenobiotics". □

faculty publications

Faculty Publications should be typed and submitted in the format used below. Please include only items already published.

Jamal Badawi (Management), chapter in *Prophet Muhammad: The Ideal Man*, (Indianapolis, Indiana: American Trust Publications).

Jamal Badawi (Management), two chapters in *Islam: A Way of Life and a Movement*, (Indianapolis, Indiana: American Trust Publications).

Hari Das (Management), "Organizational and Decision Characteristics and Personality as Determinants of Control Actions: A Laboratory Experiment", *Accounting, Organizations and Society*, (London: Pergamon Press, 1985).

Margaret Harry (English), A poem "Rats" in *Waves*, Volume 13, Number 2 & 3, page 98, (Winter 1985).

Kenneth Hill (Psychology), "Verbal Reports of Stimulus Effects on Learning: Introspection Revisited", *Journal*

of *Research in Personality*, 18, pp. 480-490, (1984).

Kenneth Hill (Psychology), "Hartsoecker's Homonculus: A Corrective Note", *Journal of the History of Behavioral Science*, 21, (April 1985).

Kris Inwood (Economics), "The Diffusion of New Technology and Persistence of the Old: The Case of Charcoal Iron in Nineteenth Century Canada", *Business and Economic History*, Second Series, Volume 14, (1985).

Kris Inwood (Economics), "Productivity Change in Obsolescence", *Journal of Economic History*, volume 35 (1985).

Hermann F. Schwind (Management) and **Gao Shan** (MBA student), "Canadian and Chinese Management Education: A Comparison", in *The Canada-China Journal*, March 1985.

David G. Turner (Astronomy), "The Reddening (and Distance?) of P Cygni", in *Astronomy and Astrophysics*, 144, pp. 241-244, (1985).

E.N. Gate, D.L. Hooper, M.F.G. Stevens, M.D. Threadgill and **Keith Vaughan** (Chemistry), "¹H and ¹³C NMR spectra of the rotational Isomers of N-Hydroxymethylamides and Derivatives", in *Magnetic Resonance in Chemistry*, Volume 23, No. 2, pp. 78-82, (1985).

Keith Vaughan (Chemistry), **Ronald J. LaFrance** (Chemistry), C.M. Hemens, Y. Tang and D.C. Chubb, "Derivatives of hydroxymethyltriazenes: Potential prodrugs of the active metabolite of aryl dimethyl triazenes", Proceedings of the BACR 25th AGM, *British Journal of Cancer*, Vol. 50, pp. 265-266, (1984). □

Gorsebrook Institute receives major grant for study of Atlantic fishing industry

The Gorsebrook Research Institute for Atlantic Canada Studies has received a \$145,000 grant from the William H. Donner Foundation for a two-year study of the Atlantic fishing industry.

The study will focus on the interrelationships among resource management policies, marketing and market structures, including port markets and fisheries-dependent communities. Particular attention will be given to the impact of Canadian-United States relations on these facets of the industry. The project will run in conjunction with a similar project being funded by the Donner Foundation at the Institute for Employment Policy at Boston University.

The more specific goals of the project include: a comparison of American and Canadian approaches to Northwest Atlantic fisheries management decision-making, examination of the social and economic forces involved in

price determination in the Northwest Atlantic fish market, and development of a detailed analysis of the socio-economic relationships between the fishing industry and the small host communities where much of it is based, with a focus on Nova Scotia. It is anticipated that the results of this research will be made public at the conclusion of the project.

Researchers involved in the study include Dr. Richard Apostle (Department of Sociology, Dalhousie University), Dr. Gene Barrett (Department of Sociology, Saint Mary's), Dr. Patricia Connelly (Department of Sociology, Saint Mary's), Susan Ican (Dalhousie), Cynthia Lamson (Ocean Studies, Dalhousie), Michael LeBlanc (IRES, Dalhousie), Dr. Martha MacDonald (Department of Economics, Saint Mary's), and Dr. Leigh Mazany (Department of Economics, Dalhousie). □



City Flag of Hakodate

Saint Mary's to co-host Japan Week



日本週間

HAKODATE



June 4 has been declared Hakodate Day. On that day, 200 visitors from the Japanese city of Hakodate will perform their traditional Harbour Dance at the Grand Parade as part of a week-long celebration in honour of Japan and Halifax's twin city of Hakodate. The celebrations, which will be held from June 2 to 8, will include an evening performance in Saint Mary's Theatre Auditorium of the best of Nova Scotian and Japanese dancers, musicians and performers on June 3.

The original idea for what has become known as Japan-Hakodate Week was a festival to highlight the University's Asian Studies program and to introduce the people of Halifax

to the mysteries of Japanese culture, says Dr. Hermand Schwind, Coordinator of Asian Studies at Saint Mary's University. However, when it was learned that Hakodate is Halifax's sister city, it was decided to make it a joint celebration. A committee, comprising of representatives from Saint Mary's, the City of Halifax, school boards, sports associations, business people, and the Japanese community, established a proposal which Dr. Schwind presented in person to the mayor of Hakodate, Akira Shibata.

Dr. Schwind's reception at Hakodate was quite exceptional. Met at the airport by civic officials, he was driven

ceremoniously to the city by limousine, entertained and invited to a press conference attended by a dozen reporters from the local and national media.

"A twinning arrangement means so much more to them," explained Dr. Schwind. "We have other twin cities such as one in Norway, but we usually pay only lip service. It rarely goes beyond the exchange of polite letters. It means so much more to the Japanese. They want to make it work."

So it would seem. Originally only a dozen or so artists were expected but soon a request was received from Hakodate to send 200 visitors. They

will include about 60 traditional dancers, choir members, folksingers, artists and artisans. The rest are business people, teachers and representatives of the City of Hakodate, including Mayor Shibata.

The Japanese visitors will stay in Halifax for only four days, but the festival will be extended until the end of the week. During their visit, they will put on a number of displays and performances, most of which will take place at Saint Mary's, such as tea ceremonies, flower arranging, and a doll and kimono exhibition in the Art Gallery. There will also be a number of official receptions, including a dinner hosted by the Premier and a reception hosted by the Lieutenant-Governor.

Hakodate shares many similarities with Halifax. Located on the southernmost part of Hokkaido, it is a port city with a natural harbour that encouraged the development of marine transportation. It was founded in 1859, the same year as Yokohama and Nagasaki, and developed as a key city of communications and transportation. Today it boasts a population of 320,000. By 1987 it will also have the world's longest undersea tunnel. The Hakodate airport, resembling Halifax International Airport, has been expanded to accommodate international flights, thus linking the two cities more closely. More unusual is a defence structure in Hakodate which, from the air, looks remarkably like the Citadel complex in Halifax. Both fortifications are now historical parks, but the Hakodate fortress was used for defence whereas not a shot has been fired in anger from Halifax's Citadel Hill.

Japan-Hakodate Week 1985 will mark the start of an annual event. Next year the festival will take place in Hakodate, but it will be returned to Halifax in 1987. □

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Margaret Catley-Carlson, President of the Canadian International Development Agency (CIDA), will receive an honorary Doctor of Letters degree.

Mrs. Catley-Carlson has enjoyed a distinguished career as a foreign service officer with the Department of External Affairs. She held a number of overseas positions before being appointed Senior Vice-President and Acting President of CIDA in 1979. She then returned to the foreign service as Assistant Under-Secretary for the Department of External Affairs and Assistant Secretary-General of the United Nations as well as Deputy Executive Director (Operations) for the United Nations Children's Fund (UNICEF). In 1983 she replaced the Honourable Marcel Masse as President of CIDA.

Saint Mary's has a close working relationship with CIDA. The University administers the Canada/China Language Training program, which is sponsored by CIDA. This is a major part of a multi-million dollar CIDA-sponsored development aid program to help China acquire new technological expertise.

Alberta Baker, President of the South Shore Community Service Association, will receive an honorary Doctor of Letters degree. Mrs. Baker, who has received numerous awards and citations for her volunteer work with handicapped persons, was the main driving force behind the establishment of Bonny Lea Farm for mentally handicapped individuals, which was founded more than a

decade ago. She remains an active member of the Farm's Board of Directors. She is a member of a number of other organizations including the Council for Exceptional Children, the Council of Administrators of Special Education's Division on Career Development, the Quebec Association for Children with Learning Disabilities, and the Canadian Council on Rehabilitation and Work.

Although she was born in the United States, Mrs. Baker and her family moved to Nova Scotia 15 years ago. She is a graduate of Saint Mary's University with a Bachelor of Education degree. □

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Retiring Faculty and Administrators

Each year retiring faculty members and administrators are honoured at the Chancellor's Dinner preceding Convocation. For some it means full retirement and a chance to pursue hobbies and other interests while others will return to Saint Mary's to continue teaching for a while longer.

This year those to be honoured at the Dinner are the Director and founder of the Institute of Human Values, Dr. John MacCormack; long-serving Director of Admissions, Leo MacDonald; professor of German, Dr. Roman Nahrebecky, who chose languages after studies in law and music; and Chemistry professor Allan Sabean who was able to bring his love of photography to the classroom as teacher of the only photography course offered at Saint Mary's. □

(All stories are by freelance writer Susan Williams.)



Jack MacCormack

In 1956 the Saint Mary's History Department had only one teacher — Jack MacCormack. The young lecturer, who was later to become a full professor and Chairman of the Department, was responsible for Canadian, American, English and European history.

Although at the time Dr. MacCormack did not plan to make a career at Saint Mary's, he has stayed on for 29 years. His only absences have been for three one-year sabbaticals in England.

He has watched the History Department add 12 faculty members and the full-time student population grow from 280 to 3,000. Now, with his official retirement date approaching, he has no regrets about staying and sharing in the University's development. He has even accepted a post-retirement teaching appointment.

Saint Mary's is special to him because, despite its growth, it has remained small enough that the faculty know each other and share a feeling of camaraderie.

Dr. MacCormack is probably best known at Saint Mary's for his role in establishing and directing the Institute of Human Values, a job which he will also continue next year.

The ten-year-old Institute had its origins in a conversation in the 1960s. Dr. MacCormack remembers expressing concern to a fellow professor about the future of the college's character and aims. He felt that if Saint Mary's did not remain Roman Catholic, and he did not think it would, its moral values must somehow remain.

His concern eventually led to the development of an institute which would promote the connection between knowledge and moral values.

"For the last hundred years people have tended to believe that all you have to do to produce good people is to create a good society," he said. The Institute's philosophy is that personal and moral judgement also has to be developed within people.

As Director of the Institute, Dr. MacCormack has been working recently on a project which will bring together members of the academic community throughout metro to work on various projects involving human values. Interdisciplinary teams are being formed in 23 different problem areas.

Although his work for the Institute has kept him busy, Dr. MacCormack has also found time to teach and write. In recent years he has taught courses on the history of the Tudor period, the English Civil War, twentieth century history and the origins of the two World Wars, and on values and civilization.

For the past ten years he has been working on a book on the relationship between conscience, justice and freedom. With luck, he hopes to have it finished by the end of the summer. His first book, entitled *Revolutionary Politics in the Long Parliament*, was published in 1973.

If his work at the University someday slows down and he finds time to retire, Dr. MacCormack would like to try his hand at popular journalism and also at developing a television program on human values. In the meantime, he will be on campus and busy as ever next year. □



Leo MacDonald

Travel has no part in Leo MacDonald's retirement plans. As Director of Admissions at Saint Mary's for 17 years and a member of the armed forces for 30 years, he has spent enough time on the road.

"I'm going to sit down in the softest chair I can find with my feet up, play golf in the summer and swim in the winter," he said about his upcoming retirement.

As he pointed out, he will not be able to play golf on what was once his favourite course. The course is now home for the Saint Mary's campus and, as he remembers it, one of the best holes is buried directly under his office.

Given the nature of Mr. MacDonald's work, he has not spent much time in that office. From September to March every year, he travelled approximately four days a week to high schools throughout the Atlantic Provinces. At each school he talked to students about Saint Mary's; its programs and scholarships.

"That is our best means of getting students to come to Saint Mary's."

In March he returned to his office to begin looking at the applicants for the following year. "We process an average of 3,000 to 3,500 applications and accept about 2,000," he said.

His office also processes the applications for Masters programs although the actual selection is done by the faculties. Mr. MacDonald prepared the scholarship lists for the scholarship committee (he is currently doing up his last list), met with guidance counsellors from the high schools and talked to students, through an open door policy, about programs and scholarships.

Working with students for 17 years has given him a first-hand view of the changes they have undergone. When he took over as Director, student militancy was just beginning to show, he said. Students then expected "an easier ride".

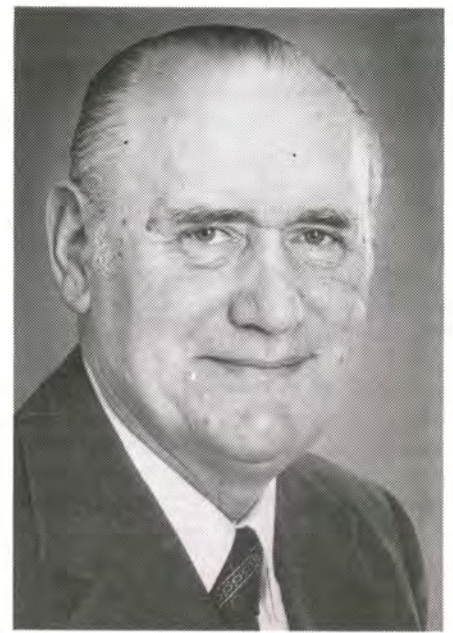
Today's students are generally more serious and more eager to compete for scholarships. More and more young people are also coming to university, he said, but accommodation problems may affect that trend.

Approximately seven percent of the students now at Saint Mary's are here from other countries. What surprises many people is that the largest group of these foreign students are from the West Indies, he said. "We get more students from one island down there, Antigua, than from the entire United States." Many are excellent students whose high standards have had a good effect on the University.

Mr. MacDonald was once a student at Saint Mary's himself. He graduated with a Bachelor of Arts degree in 1941 and then headed off for a career in the army. Almost 30 years later he was posted back to Halifax, at the same time as he decided it was time for a career change. However, it was Kingston, Ontario, not Saint Mary's, that was on his mind.

He changed his plans because of a conversation with the University's Vice-President about the available post of Director of Admissions. Having served on the army's selection board which picked students to be sponsored in college, the job interested him enough to apply.

Mr. MacDonald never made it to Kingston but he is not sorry. "It all worked out well," he said. Considering his plans for retirement, Kingston is now far from his thoughts. □



Roman Nahrebecky

The prospect of retirement may frighten some people. Roman Nahrebecky welcomes it.

The Rumanian-born professor of German has many interests which he is looking forward to pursuing. "I have a very keen interest in every aspect of life — in the arts, music, soccer. . ."

These interests have always been a part of Dr. Nahrebecky's life, including his past 19 years at Saint Mary's. For example, he was named honorary coach of the University's soccer team because of the assistance he has given. Although he was forced to give up the violin after an operation in 1965, he brought out his instrument to participate in a recent commemorative concert here. He has also published a book, the result of ten years of work, in which he examined the influence of German romantic literature on German music in the nineteenth century.

Dr. Nahrebecky has also brought his interests into the classroom. Instead of giving textbooks to his second-year students, he made them read and translate a book on Mozart. His reasons were not based only on his love for the musician.

"My main satisfaction in teaching is if students learn something; if they have enriched their knowledge so they can better communicate with their fellow man."

The fact that Dr. Nahrebecky is the only German professor in the University's Modern Languages Department has not daunted his enthusiasm.

All students who want to minor or major in the language work with him from their first struggles with declensions and conjugations to their eventual mastering of Modern German Literature or German Literature in the Romantic Era. For Dr. Nahrebecky, that has meant sometimes teaching as many as five courses a year.

In light of his background, the fact that he has spent much of his career teaching German is a surprise. When he entered university in Rumania in 1938, it was to study law, not German.

Although he graduated with a law degree, Dr. Nahrebecky practised for only six weeks before deciding he had chosen the wrong profession.

He headed back to school, this time to study music and choir directing at the University of Erlangen in Germany in 1945. When he moved to Canada

four years later, it was to direct a church choir in Montreal.

Dr. Nahrebecky spent the next 11 years as a music teacher and choir director, even directing a group which played Eastern European folk and concert music. Then, in 1961, he went back to university one more time. During the next five years, he earned a Master of Arts degree in German literature and a doctorate from McGill. He also began teaching German for the first time.

After graduating, he received offers from several universities but cannot remember exactly why he chose Saint Mary's. He does remember that Halifax had a special meaning to him because it was "the place I arrived when I first came to Canada".

Now, looking back, he has decided, "I could not have picked a better place".

He has also decided to accept a post-retirement appointment next year. That means his plan to pursue his many interests will have to wait a little longer. □

Allan Sabean

Allan Sabean did some adding recently and figured out that he has faced 27,000 pupils in his 45 years of teaching at Saint Mary's and in the air force reserves.

Although he has enjoyed it, he was not sorry to hand in his final pile of marked exams as one of his last duties before retiring. "Enough is enough," he said.

Professor Sabean has been teaching with the University's Chemistry Department since September, 1940, only a few months after he had graduated from here with a Bachelor of Science degree.

The Jesuits were in the process of taking over the University at the time and he found himself one of two lay people on faculty and the only chemistry professor. He taught Qualitative and Quantitative Chemistry, Advanced Chemistry, Mathematics to all first-year students, Physics and Geology.

"I did everything but sweep the floors," he said.

University life has changed since those days, he explained. "We knew everybody and we considered everybody to be friends."

'Everybody' included the students. As part of his job, Professor Sabean was expected to counsel students on both academic and personal problems. "I used to consider my office as almost a confessional."

Besides teaching and counselling, Professor Sabean also managed to find enough hours to study for a Bachelor of Arts degree, which he was awarded in 1943. He also joined the reserve army and kept up his involvement with the reserves almost continuously until 1970, when he retired as a major.

In 1952 he took a sabbatical leave to study for his Master of Science degree at McGill University. When he returned, he found Saint Mary's faculty, staff and students preparing to move into a new building and a new era. They were beginning to think in terms of being a part of a full-scale university, he said.

His duties also changed. For the next 15 years he was responsible for the Organic and first-year Chemistry

courses. He was also asked to teach a course at Mount Saint Vincent University and to teach at summer school.

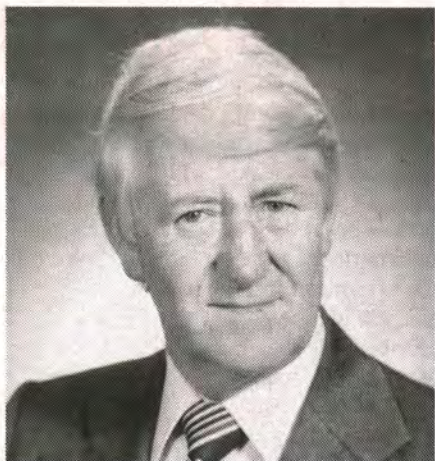
In those days, faculty members were expected to add something to the community, he said. Because photography was his hobby and because the University had decided to offer a non-credit photography course as part of its adult education program, he decided to teach it. Since then he has presented the course, which now has a credit value, 47 times.

Photography is an important part of Professor Sabean's plans as he begins to think about retirement. Through his involvement with the province's heritage foundation, he will be doing some photography of old buildings.

He has also bought a farm in the Annapolis Valley near Middleton but said he will leave the planting and weeding to his wife.

As for Saint Mary's, his ties here will be cut on August 31, his official retirement date. "I've been associated with the University for 53 years," he said. "It will be sort of like waving good-bye to an old friend." □

Laurie Smith: A profile



Laurie Smith's career has involved so many positions and titles that it is almost impossible to keep track of everything he has done.

At Saint Mary's, he has been Director of Admissions and Scholarships, Dean of Student Affairs, Assistant to the President for Student Affairs, Head of Counselling, Director of Alumni Affairs, and is now Special Assistant to the President.

Before joining the University administration in 1966, he was Director of Guidance for the Halifax City schools. He also taught students from grades six to 12 for 21 years at St. Patrick's School, was Vice-President there, was Assistant Director to the Atlantic Provinces Examining Board for 14 summers, and taught, on a part-time basis, at Saint Mary's and Mount Saint Vincent Universities.

In a volunteer capacity, he has worked with the Canadian Mental Health Association, the Community Tape Resource Library for the visually handicapped, the Family Life Program of the Archdiocese of Halifax and many other associations. His greatest recognition, however, has been for his coaching of the St. Patrick's High School hockey team which, under his

direction, won approximately 14 city championships. He accomplished that feat despite his admission that he could not play hockey "worth a hoot".

Why so many positions and titles? Mr. Smith, who has a Bachelor of Arts degree from Saint Mary's, a Bachelor of Education from Dalhousie and a Master of Education from Fordham University, is reluctant to admit it, but he has always been in great demand. Most of his moves were as a result of invitations, not applications, to take on new challenges.

When he was asked to come to Saint Mary's by former President Reverend C.J. Fisher, he accepted because it was "a chance to try something different". He said he has always found that a change is stimulating.

There has been one common factor in all of Mr. Smith's positions, and that factor is the students. The only jobs he has not enjoyed really were those in which he was too far removed from the students.

In 1972, for example, he took over as head of counselling because he felt he had previously been stuck away in an office. "I was happier and more satisfied working directly with students."

During his 19 years at Saint Mary's, Mr. Smith has watched the University undergo major changes. "When I came here, it was small, intimate in the best sense, and it was male," he said. The changes began when the University turned co-educational in the late 1960s and gradually expanded its residences. He believes that becoming co-educational has added a lot to its dimensions.

With these changes, he too has had to change his approach to working with students. He now attends as many functions as possible because, given the size of the University, they provide a point of contact with the students. "You learn to trust people by getting to know them," he explained.

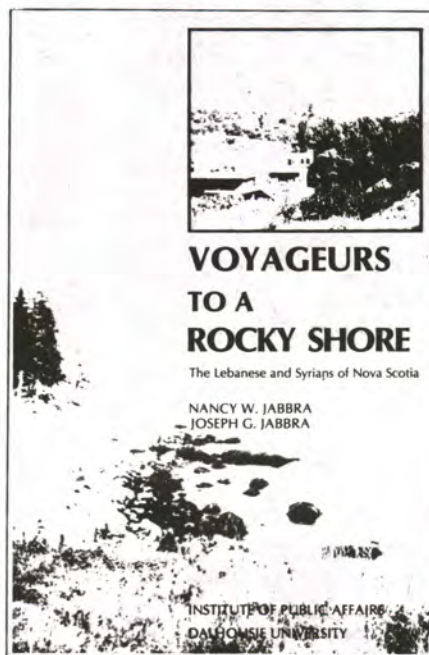
In his new position as Special Assistant to the President, Mr. Smith

will be a liaison with high schools to assess the needs of potential students. He will also work to enhance the University's relationship with schools and the community and look at possible curriculum changes. He will be working mainly in the metro area but also hopes to visit other schools in

the Atlantic Provinces and across Canada.

A recent illness has kept him from filling these duties to date. Although he admits he may have to slow down now, he plans to be back at work by June. As for Convocation in May, he said, "I'll be there." □

Academic Vice-President co-authors book on Lebanese and Syrians in Nova Scotia



The Lebanese and Syrians who have settled in Nova Scotia — where they came from, how they got here, and how they have fared in the process of transplantation — are the subject of a study written by Dr. Joseph G. Jabbara, Academic Vice-President at Saint Mary's, and his wife, Dr. Nancy W. Jabbara, an anthropologist in the Department of Sociology and Social Anthropology at Dalhousie University.

The book, entitled *Voyageurs to a Rocky Shore*, should be hailed by

Lebanese and Syrians in Nova Scotia as a means of promoting greater understanding of the problems experienced by first and second generation expatriates in becoming incorporated into Canadian society.

The book was a collaborative effort by the Jabbaras, who are specialists in the politics, social structure, culture and modern history of the Middle East. Coupled with this expertise, they write from first-hand experience as close observers of the Lebanese and Syrians of Nova Scotia, and they have drawn on an extensive and invaluable network of informants across the province.

The travails of assimilation and acculturation are, of course, not unique to Middle East migrants. Any North American who stems from an identifiable cultural, linguistic and religious background, and who has experienced the pains of disengagement from one social world and integration into another, will find this analysis of the Lebanese and Syrian migration to Nova Scotia a pertinent study. Moreover, specialists in ethnic studies or migration will find the book useful for comparative purposes.

Voyageurs to a Rocky Shore is available at the Henson Centre, 1261 Seymour Street, Halifax. □

Grad Class Schedule

- Tuesday, May 7, 1985** Presidents' Reception
(Graduation list posted and marks received)
Party at THE OFFICE, afterwards
- Wednesday, May 8, 1985** Softball game, 2 p.m.
Casino Night in the Sub Cafeteria with Terry Kelly, 8:30 p.m.
- Thursday, May 9, 1985** Political Science Wine & Cheese, 2 p.m. - 5 p.m. meet in the Quiet Lounge
Part-time Societies Wine & Cheese, 7 p.m.
Harbour Cruise, 6 p.m. - 8 p.m.
Double Decker Buses meet and transport Grads to new lounge in the Holiday Inn, 8 p.m. - 1 a.m.
- Friday, May 10, 1985** Wine & Cheese, 7 p.m. - 9 p.m.
Grad Ball, 9 p.m. - 1 a.m. (Hotel Nova Scotian)
*stress that Grads should show up early and parents are welcome to attend wine & cheese
- Saturday, May 11, 1985** Convocation Rehearsal, 7 p.m. (Theatre Auditorium)
Tony Quinn in the Gorsebrook Lounge, 9 p.m.
- Sunday, May 12, 1985** Tour of the University for Parents, 11 a.m. - 12 noon
Mothers Day — Champagne Brunch, 12 noon - 1:30 p.m.
Baccalaureate Service, 4 p.m. — graduates must wear their gowns to this event
- Monday, May 13, 1985** Convocation, 9:30 a.m. — Arts, Science, Engineering, and Certificate of Honors Equivalency, 2:30 p.m. — Commerce and Education



On May 13, more than 600 graduates, together with their families and friends, will gather at Saint Mary's University for the Convocation exercises. This will be one of the largest graduating classes in the history of the University.

There will be two Convocation ceremonies. In the morning degrees will be conferred on students in the Faculties of Arts and Science; in the afternoon degrees will be awarded in the Faculties of Commerce and Education.

Graduates will be asked to assemble in the gymnasium before each Convocation ceremony. From there they will form the procession which, led by the Marshall, Father William Stewart, will sweep around in front of the McNally Building, up the front steps, through the lobby and into the Theatre Auditorium. A piper will herald the arrival of the marchers. As they reach the doors of the Theatre Auditorium they will be joined by members of the University faculty and honorary degree recipients.

The mace, which will be carried by the Marshall, bears special significance. Crafted in 1980, it was presented to the University on May 8 of that year by Vice-Admiral John Allan, former Commander of Maritime Fleet. A ceremonial symbol of royal authority, the mace proclaims the University's right to grant degrees. It is always carried at the head of the procession and placed in a prominent position during the conferring of degrees.

Once the Convocation ceremony is underway, the valedictorian is invited to speak to the assembled graduates and guests. Each valedictorian is chosen by members of the graduating class in an election held during the academic year. This year, Bradley Gaetz, who has a Bachelor of Arts degree in English, will speak in the morning. Edith O'Reilly, a foreign student from Antigua, will give the afternoon address.

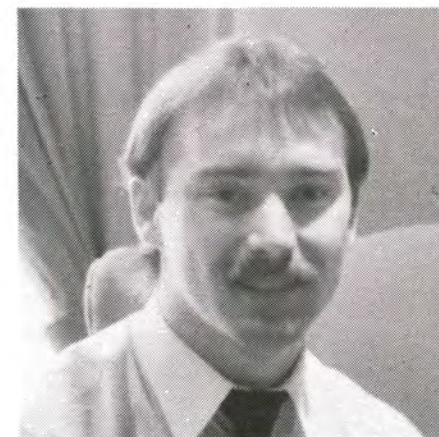
Before the graduates may receive their degrees, one member of the graduating class is invited to be symbolically hooded. This ceremony marks the acceptance of all the candidates into the international community of scholars.

The colours of the hoods hold special meaning. The bachelor's hood is red satin with a white chevron (the University's colours), while the master's hood is lined with red satin only. The trim around the edge indicates the faculty — white for Arts, gold for Science, grey for Commerce and white with blue for Education. These colours are recognized internationally as signifying these faculties and so the hood symbolizes the degree conferred.

After the degrees have been awarded to graduates and honorary dignitaries, one of the honorary degree recipients will address the graduating class. In the morning the speaker will be Margaret Catley-Carlson, a career foreign service officer and President of the Canadian International Development Agency. In the afternoon, the Convocation address will be given by the Right Honourable Garret FitzGerald, Prime Minister of Ireland and an economist.

After the closing remarks are made, the graduates will be asked to disassemble, followed by the guests. All are invited to a reception in the Multi-Purpose Room in the Loyola Building.

The Valedictorians



Bradley Wayne Gaetz, B.A., will deliver the morning Valedictory address.

Mr. Gaetz, who attended Eastern Shore District High School, completed the requirements for a Bachelor of Arts degree with a major in English in the fall of 1984. This year he has been taking a number of upgrading courses in political science.

The 22-year-old student from Halifax County has not yet decided on a career. He would like to work for a couple of years in a position that will make use of his knowledge of politics. Then he may elect to return to university for postgraduate studies in either law or education.

He is the son of Wayne and Diane Gaetz of the Head of Chezzetcook, Halifax County.



Edith Christine O'Reilly, a student from Antigua in the West Indies, will give the Valedictory address at the afternoon Convocation ceremony.

The 24-year-old student, a graduate of Antigua Girls' High School, will receive a Bachelor of Commerce degree with a major in accounting.

After leaving high school, Ms. O'Reilly worked for an accounting firm in her home town for three years. She decided to pursue her interest in accounting and applied to Saint Mary's on the advice of friends who had already attended the University. The firm for which she worked has assured her of a job on her return to Antigua.

At Saint Mary's, Ms. O'Reilly has been an active member of the Caribbean Society. One of the largest campus societies, it boasts a membership of more than 200 students. She was also a member of the International Education Centre's Speakers' Bureau, and on more than one occasion she spoke to school children about her life on a Caribbean island.

She is the daughter of Mr. and Mrs. Timothy O'Reilly of Antigua.

Hooding Candidates



Cynthia Claire Otto will be hooded at the morning ceremony. Ms. Otto, a graduate of Cobequid Educational Centre in Truro, will receive a Bachelor

of Arts degree with a major in political science and a minor in sociology.

At Saint Mary's she has been active in student affairs and was Vice-President of the Students' Representative Council during 1983-84. Last year she was also a member of Senate while this year she has been a member of the Board of Governors.

Her first love was music and she gave serious consideration to a career in music before deciding in favour of an Arts program at Saint Mary's. She began to play the French horn at 12 and was a member of the respected Cobequid Band.

Next year Ms. Otto will be enrolled in a French immersion program at Laval University in Quebec. After that she is not sure what she will do, although she is giving some thought to working in Africa for a year or two.

She is the daughter of James and Dorothy Otto of Truro. Her father is an alumnus of Saint Mary's with a Master of Arts in Education degree.



Simone Marie Campbell will be hooded in the afternoon ceremony.

The 22-year-old student from Port Hawkesbury, Cape Breton Island, will receive a Bachelor of Commerce degree with a major in accounting. An exceptional student, she received Achievement Scholarships during her four years at Saint Mary's. She has been active in student affairs as a member of the Residence Society for three years and a Don for two. She also worked with the Chaplaincy and last fall she helped with the Labour Arbitration Committee for the Intercollegiate Business Competition (ICBC). The Competition included teams from 27 schools across Canada. In recognition of her contributions to the University, Ms. Campbell was awarded a Silver M at the recent Charter Day Banquet.

Next fall she will begin work as a management trainee with the Toronto Dominion Bank. This summer she plans to take a six-week French immersion course at the Universite de Sainte Anne in Clare.

She is the daughter of Margaret and the late James J. Campbell of Port Hawkesbury, and a graduate of Strait Area Education and Recreation Centre. □



Saint Mary's University Baccalaureate Service



The Reverend William A. Stewart, S.J., Professor Emeritus of Philosophy at Saint Mary's University, will deliver the address at the Baccalaureate Service, which will be held at Canadian Martyrs' Church on Inglis Street at 4:00 p.m. on Sunday, May 12. The Service is intended for clergy, faculty members, family and friends of the University to wish the graduating students a fulfilled and productive future. The Honourable Alan R. Abraham, Lieutenant Governor of the Province of Nova Scotia and an alumnus of the University, will present the first scripture reading.

Dr. Stewart taught at Saint Mary's from 1950 until his retirement in 1980. During the years, he held a number of administrative positions, including Academic Vice-President and Acting President. He is remembered as the long-standing moderator of the Saint Mary's Dramatics' Society. In 1983 he received an honorary Doctor of Letters degree from the University, and that same year the Alumni Association established the Reverend William A. Stewart, S.J., Medal for Teaching in his honour. □

Novanet to be introduced to the Library

Novanet, a totally integrated computerized library system linking all the university libraries in Halifax, is scheduled to be operational in September 1986, provided funding is received.

The system is a proposal put forth by the Committee of Metro University Librarians, an interuniversity committee that has been meeting for two-and-one-half years. The system is similar to one in use by five universities and colleges in Massachusetts and will be the first of its kind in Canada. As such, its development is being watched closely by other university libraries across the country.

Universities connected to Novanet will initially include Dalhousie and its associated libraries, Saint Mary's, Mount Saint Vincent, the Technical University of Nova Scotia, and the Nova Scotia College of Art and Design. Each university will contribute proportionally to the system with Dalhousie shouldering the lion's share. Saint Mary's will contribute roughly 17% of the initial operating costs.

What is special about the system is that it will integrate the various libraries, avoid unnecessary duplication of materials and allow faculty members and students access to materials held at all five libraries while at the same time permitting each library to remain autonomous and to pursue its own acquisitions and lending policies. This latter point is very important, according to University Librarian Ron Lewis of the Patrick Power Library at Saint Mary's. Each library must reflect the needs of its university's programs and no attempt is being made to fuse the five into an homogenous whole.



The Novanet system will involve a network aligned to a computer, located at a central site, with hardware terminals on the five campuses as well as dial-up terminals which may be accessed by MODEM (telephone linking system between two computers) from users' personal computers. The system may be expanded as needs arise so that in time faculty and students with computers in their offices or rooms will be able to search for a book at any one of the participating libraries without stepping outdoors.

It is an on-line system which will record not only catalogue information on the libraries' holdings but also data on materials on order and being catalogued. In addition, it will indicate which materials are on loan and when they are due back. It will also print out overdue notices. For library staff it will

mean a much more efficient acquisitions policy. Before ordering new materials, particularly more expensive reference items or professional or academic periodicals, librarians can check to see if one of the other libraries already has the material or has placed an order for it. Then the decision whether or not to buy duplicates can be made. In the long run it will result in savings for the libraries concerned.

In the meantime, though, setting-up costs are high. The projected price tag for a fully integrated system, including the cost of reconverting existing card catalogues onto the system, is \$3.145 million. Other packages which do not include reconversion costs and are less expensive are also being looked at.

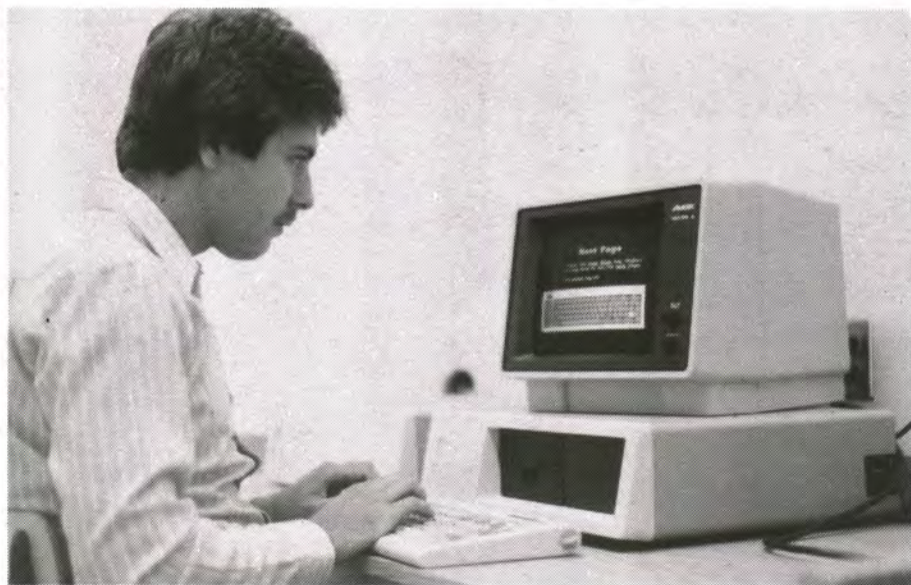
At Saint Mary's, all materials purchased since 1978 have been catalogued through UTLAS (the

University of Toronto Library Automated System) and have been produced on microfiche. Adapting these files to the new on-line computer system is fairly straightforward. However, this accounts for only 70,000 of the University's 200,000 volumes. The remaining 130,000 volumes are on the old card catalogue system and must be converted to a machine readable format. This is both costly and time consuming.

Why is such an expensive system being considered at this time? Mr. Lewis maintains that it will save money and is the sort of system that would have to be introduced one day. Its benefits far outweigh its costs. In one fell swoop the Saint Mary's library holdings will increase ten-fold to two million volumes, the combined holdings of all five universities. Someday he envisions an integrated library system that will link all university, and perhaps all public, libraries from coast-to-coast. Certainly a system that would include all Atlantic university libraries is not too far-fetched. Already librarians at the Bedford Institute of Oceanography, the Atlantic School of Theology, Acadia and St. Francis Xavier Universities have expressed an interest in joining the consortium at a later date.

"I think it would be a feather in the universities' caps if this comes off," said Mr. Lewis. "It will also be a feather in the province's cap. The Royal Commission (on Post-Secondary Education) encouraged the universities to co-operate. But, the librarians have been co-operating since day one." □

Notes from Continuing Education



Microcomputer Laboratory

After a full academic year, use of the microcomputer laboratory in the Loyola Building is increasing. This past year, 16 non-credit courses on applications of computers were offered by the Division of Continuing Education. They ranged from An Introduction to Computers to courses for professional business people on the uses of Lotus 1-2-3 and word processing. Similar courses are being

planned for the fall semester.

University faculty members are also using the laboratory. Professor Izzy Elkhazin has offered an advanced management information systems course for both undergraduate and Master of Business Administration students. Dr. Dennis Connelly is offering an advanced level course for students during the summer sessions. Dr. Walt Finden of the Department of Mathematics and Computer Science is using the lab for courses on advanced numerical analysis and computer graphics.

The lab, however, is not being fully utilized, according to Jim Sharpe, Assistant Director of Continuing Education. It contains 25 IBM Personal Computers for the use of faculty members and students enrolled in computer-related courses, and is open 24 hours a day. Professors wanting to explore means of using the computers in their course programs for September 1985 should contact Mr. Sharpe at extension 2140. □

Seniors' Weeks

The Division of Continuing Education is offering two one-week programs of study and recreation for senior citizens during the month of June. The sessions, which will run from June 16 to 21 and June 23 to 28, will include lectures on astronomy with Dr. Norman Scrimger and on the history of Halifax with Lou and Pam Collins, as well as walking and bus tours, receptions and a number of special events. Mr. Collins, who is the Halifax civic historian, is a noted authority on the history of the city and surrounding districts. Dr. Scrimger is an astronomer at Saint Mary's University. For more information and registration forms, please contact the Division of Continuing Education at Saint Mary's University as soon as possible. Enrollment is limited. □

Institute of Human Values embarks on new project

by Dr. John McCormack, Director

Following upon its successful national conference in November on the social sciences and the humanities, the Institute of Human Values is embarking upon a major new project which will involve many members of the Halifax academic community. Employing the problem-centred, interdisciplinary and cross-cultural approach which has been its hallmark for the past ten years, the Institute aims to focus these rich, but relatively untapped resources, on the many contemporary problems in which human values are deeply involved. To this end, its executive committee has been expanded and made representative of all Halifax institutions of higher learning.

Teams which will involve at least seventy-five faculty members from these universities and colleges are now being organized. They will explore such themes as law and morality; bioethics; economics and human values; the human context for science and technology; sexuality and human values; aesthetics and communication and religion and morality. An organizational meeting and reception will be held in the near future with activities beginning in the autumn of 1985. □

Science Research

The three Science professors and one faculty member from the Department of Finance and Management Science profiled here received first installments on Natural Science and Engineering Research Council grants.

(All stories are by freelance writer Susan Williams.)



David Cone, biologist

When David Cone says that studying the biology of fish diseases keeps him in touch with the public, he means it. A recent call from the owner of some ailing tropical fish prompted him to invite the owner to visit his laboratory at Saint Mary's while he examined the fish.

Dr. Cone, who has been awarded \$18,356 as the first installment of a two-year NSERC grant, is working with diseases of fish, particularly skin diseases, and their effects on aquaculture. Although he is working to prevent disease, he doesn't look at it as "something bad" but rather as "a fact of life in nature".

While calls from tropical fish owners are not all that common, Dr. Cone's work frequently brings him into contact with other public sectors. He works closely with the provincial Fisheries Department, for example, and uses their farm in Antigonish to study diseased fish.

A second area of Dr. Cone's work, which he described as his true love, involves the study of the evolution of an unusual type of reproduction in tiny invertebrates — viviparity. The two areas of study are related in that some invertebrates attach to the skin of fishes and cause diseases, he said.

With this, his second grant from NSERC, he plans to purchase high-precision microscopical instruments and support equipment for use on both his research interests.

"I'm slowly getting to the point that my laboratory is financed and fitted the way I want it."

Once he has reached that goal, he will be able to channel more funding to graduate students who work with him. Although Saint Mary's does not have a graduate program in biology, he trains one or two graduate students a year as a research associate of Dalhousie University.

His graduate work was done at the University of Guelph where he received a Master of Science degree. He also has a doctorate from the University of New Brunswick. Before coming to Saint Mary's three years ago as an NSERC University Research Fellow, he worked for the federal government in St. John's, Newfoundland, and set up a fish disease laboratory there. He currently teaches a course in Ecology and Resources in the University's Atlantic Canada Studies program. □



Cameron Reed, astrophysicist

Physics professor Cameron Reed has gone star gazing on his honeymoon. The stars, however, are not in his bride's eyes but in the Milky Way Galaxy and he is gazing at them, not from a honeymoon suite, but from an observatory in the Arizona desert. His wife has no objections. She is a graduate student in astronomy and is observing too.

Observing trips are an important part of Dr. Reed's research on Galactic structure. Not only is the equipment at Arizona superior to that at Saint Mary's but the sky is also usually clear for large fractions of the night, he said.

The Arizona trip, like a recent trip to a 14,000-foot high observatory in Hawaii, was funded by a one-year grant from NSERC. Dr. Reed has recently been awarded a second grant which is valued at \$16,000 for each of three years. The grant will fund future

travel as well as the summer students who do computer work for him.

Dr. Reed's research is focused particularly on how stars are distributed in the Milky Way Galaxy. "From the distribution of the stars you can infer the motion of the stars and of whole galaxies," he said.

He uses photographic plates to record star light and then analyzes them to determine the types of stars, their temperatures, distances and other characteristics. With modern technology, it is possible to simulate galaxies on computers and, from there, to find out more about how they interact.

Like fellow NSERC grant winner David Turner, he is also interested in star clusters within the Galaxy. His reason — "because the stars are gravitationally bound together at a common distance, it is fairly easy to determine distances to clusters."

He is researching the characteristics of clusters with a professor at McMaster University but also compares notes with Dr. Turner. He finds this kind of collaboration provides an impetus for new research projects.

Dr. Reed has been teaching in the Saint Mary's Physics Department for almost two years. He previously earned a Bachelor of Science degree at the University of Waterloo, a Master of Science degree from Queen's University, and a doctorate from Waterloo. □

David Turner, astronomer

Throughout the Milky Way are thousands of groups of a few dozen to a few thousand stars orbiting around common centres of mass. These star clusters, as they are called, are the focus of David Turner's research. Dr. Turner, who joined Saint Mary's Astronomy Department last September

as an NSERC University Research Fellow, is even responsible for the discovery of a few of these clusters.

His fascination with them centres around the fact that they form "nice little working groups".

"When you study a cluster you have a statistical ensemble. All of the stars are at the same distance, are the same age and started off life with the same chemical composition."

With this information, Dr. Turner is able to determine distances and intrinsic properties for individual stars within each cluster. "Our current knowledge of stellar evolution is undergoing a change because of the information we are learning from star clusters," he said.

Dr. Turner, who has been awarded \$26,000 in the first installment of a three-year grant from NSERC, has several research interests, all of them related to star clusters. He is involved in a study of the distance to the Hyades star cluster, which provides a calibration or reference point for distances to other star clusters within the Milky Way. He is also investigating clusters which contain Wolf-Rayet stars, luminous, young stars encased in a shell of gas which appear to be losing material at a very rapid rate.

His main interest, however, is in clusters which contain pulsating, super-giant stars called Cepheid variables. These stars, which are up to ten times more massive than the sun, have reached a stage of their evolution in which their outer layers have expanded and cooled to a point where they are susceptible to radial pulsations. A few of these stars can be seen by the naked eye.

Dr. Turner came to Saint Mary's from Laurentian University where one of his duties was directing the planetarium. This year he taught astronomy courses to graduate students. Next year he will teach astronomy to first-year undergraduates as well. □

NSERC Research Grants-in-Aid announced

The Dean of Science, Dr. D.H. Williamson, has announced the names of recipients of NSERC (Natural Science and Engineering Research Council) Research Grants-in-Aid for 1984-1985:

Dr. George Mitchell (Astronomy)	— \$16,695
Dr. David Turner (Astronomy)	— 26,000
Dr. Gary Welch (Astronomy)	— 12,800
Dr. David Cone (Biology)	— 18,356
Dr. David Cone (Biology)	— 11,367
Dr. Clive Elson (Chemistry)	— 14,469
Dr. Kathleen Mailer (Chemistry)	— 12,000
Dr. Keith Vaughan (Chemistry)	— 18,253
Dr. P. Dixon (Finance & Management Science)	— 6,700
Dr. Jaroslav Dostal (Geology)	— 25,000
Dr. Jaroslav Dostal (Geology)	— 17,000
Dr. Georgia Pe-Piper (Geology)	— 20,000
Dr. John Waldron (Geology)	— 12,000
Dr. Arthur Finbow (Mathematics & Computing Science)	— 1,890
Dr. Walt Finden (Mathematics & Computing Science)	— 1,544
Dr. Bert Hartnell (Mathematics & Computing Science)	— 5,187
Dr. D. Kabe (Mathematics & Computing Science)	— 7,329
Dr. M. Kiang (Mathematics & Computing Science)	— 1,395
Dr. P. Muir (Mathematics & Computing Science)	— 13,140
Dr. B. Cameron Reed (Physics)	— 16,000



Paul Dixon, professor of Management Science

A teaching load of four courses meant Paul Dixon had 240 final exams to mark earlier this month. The workload did not, however, keep him from finding enough time for his research — mathematical problem solving in a business context — to win a grant valued at \$6700 for each of three years from the Natural Sciences and Engineering Research Council of Canada (NSERC).

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Charter Day Awards



Geology student Glen Cameron received a Silver 'M' at the recent Charter Day Banquet for his contributions to the Geology Society.

The Charter Day Awards Banquet is held annually to honour those students who have contributed to student affairs on campus. Three hundred guests attended this year's event, which was held on March 29. Master of

Ceremonies was Dave Peters, President of the Students' Representative Council (SRC). The following people were among the 44 award winners:

- J.J. Hennessey Award
(Awarded in honour of the late Father J.J. Hennessey to the student who best upholds the spirit of Saint Mary's)
Curtis Swinimer
(Commerce Society)
- Student Leader
Dave Peters
(President, SRC)
- Society of the Year
Commerce Society
- Awards of Distinction
Kristine DeCoste
Mark Bower
Kevin Biggs
Charles Russell
Jackie Stringer
- Frosh of the Year
Elizabeth Sperry
(Off-Campus Society)
- Sophomore of the Year
Sean MacLellan
(Off-Campus Society)
- Junior of the Year
Jim Driscoll
(Radio Saint Mary's)
- Senior of the Year
Mike Whitlock
(Residence Society)

- Literary 'M's
(For literary contributions to the campus media)
Karen Neves (Journal)
Troy Myers (Journal)
Allan Aflak (Journal)
Colin MacMillan (Journal)
Dave Waller (Journal)

- Honorary 'M's
(For non-students who have contributed to student affairs)
Dr. Peter March (Philosophy)
Lois Wasternays (Commerce)

- Silver 'M's
(For graduates who have contributed to student affairs)
Simone Campbell
Glen Cameron
Mike Whitlock

- Gold 'M's
(Highest award given to graduating students)
Christine Soucie
Kevin Biggs
Ted Holden
Dave Peters

Other awards included 16 Certificates of Merit and awards to the most improved societies on campus. □

PAUL DIXON, PROFESSOR OF MANAGEMENT SCIENCE...

continued from page 9

Dr. Dixon has been the recipient of NSERC grants almost since he joined Saint Mary's as a management science professor in September, 1979. This new grant will enable him to buy computer equipment and will help finance conference travel and two Master of Business Administration student research assistants.

His work involves problems of inventory control and production scheduling. "My particular interest is problems which have restrictions on the machine time available or smaller warehouses," he said.

One of the mathematical techniques he developed is now being used by a company in Belgium. Next year, while on a sabbatical leave at the Technical University of Nova Scotia, he hopes to take a closer look at actual problems of some Nova Scotian companies.

"Since I'm looking at math models (rather than actual situations), they are abstractions of real life. I want to see what problems I am missing."

Although Dr. Dixon has concentrated on manufacturing problems in business, his methodology may also be applied to other fields such as health care, transportation or the armed forces. Because more and more students are interested in working in these service-oriented fields, he has introduced a course on Management of Service Operations.

He has also taught courses in first-year Quantitative Methods for Business, Introductory Statistics for Commerce, Management of Manufacturing Operations and an MBA course on Operations Management.

Dr. Dixon came to Saint Mary's from the University of Waterloo where he earned a doctorate in 1979 and a Masters in Mathematics in 1976. He also has a Bachelor of Arts degree in Statistics from the University of New Brunswick. □

Saint Mary's and Dalhousie to offer cooperative program on International Development Studies

The International Development Studies program, a collaborative effort between Dalhousie and Saint Mary's Universities, is a new multidisciplinary degree program which will focus on Third World issues. Emphasis will be on providing a broad range of study on political, social, cultural, economic and historical developments in the regions.

The program will begin accepting students for the fall 1985 academic year provided it is approved by the Maritime Provinces Higher Education Commission. Program co-ordinator at Saint Mary's, Dr. Henry Veltmeyer of the Sociology Department, is confident approval will be granted because the program will make use of existing resources and faculty members of the two universities. No great expenses are anticipated.

The two institutions will coordinate their individual course offerings through their various departments. The core of the program will be offered jointly and co-taught by faculty members from both Dalhousie and Saint Mary's. Other more specialized courses will be coordinated but not offered at both universities. Dalhousie will concentrate on African Studies whereas Saint Mary's will focus on Asian Studies and Caribbean and Central American Studies.

Students may work either towards a Bachelor of Arts degree with a major or honours in International Development Studies (IDS), or they may combine IDS electives with another program of study. For instance, a Commerce student may decide to take IDS electives in combination with a Bachelor of Commerce degree program.

The aim is to make the program as flexible as possible to meet the needs and interests of students. It is, according to Dr. Veltmeyer, the first in

Canada to provide a major in International Development Studies. Two universities offer similar programs in International or Third World studies, but only in combination with other academic programs. This is also the first fully collaborative program between Dalhousie and Saint Mary's, although there have been exchanges of faculty and students in individual courses.

There is already great interest in the new program. A number of students have been advised about possible courses of study. There is a Projects Office in the Sociology Department which last year coordinated a number of conferences, such as last fall's international Caribbean conference, workshops, seminars and lectures. Exchanges with other universities, such as the University of the West Indies or the University of Guyana, are being explored. Informal relations already

exist with the University of the West Indies, which has campuses on a number of Caribbean islands. However, Dr. Veltmeyer is hopeful more formal exchange programs can be introduced. There are also collaborative research efforts in existence with institutions in such countries as Guyana and the Dominican Republic, which Dr. Veltmeyer would like to see extended to include faculty and student exchanges.

Students interested in finding out more about the program may consult the *Academic Calendar* or speak to Dr. Henry Veltmeyer in the Sociology Department.

Please be advised that the offering of the International Development Studies program is subject to approval of the Maritime Provinces Higher Education Commission. □

At the Art Gallery



Rebel Gravity, lithographs from the Permanent Collection, are on display at the University Art Gallery

Night Images

(How to take photographs at night)

by David Thompson

In so many of these 'how to' articles the reader is bombarded with technical information and concerned about not owning special, and usually expensive, equipment. Not so with this article. Its purpose is to get as many of you taking pictures at night with the least fuss possible, and to have fun. After all, who knows what wonders may be seen at night by skulking around with brick and camera in hand. (Did I say brick? I shall return to that later!)

If you are an avid amateur photographer, you probably own some of the equipment that you will need for a nightly foray. You may already have some idea about how to take night photographs. Even so, you will find the accompanying chart to be of some benefit. If you are not a camera buff but do own a camera and would like to take some shots at night to fill the family album, show to friends or, perhaps, to use as a reference for drawing or painting, then read on. Some of this information may be useful.



First, you need a camera, not just any camera but one with an adjustable aperture and a shutter speed with a 'B' setting. The aperture is the hole in the lens that lets in the light. The larger the hole, the more light gets in and the less time you need to expose the film. However, the smaller the aperture, the greater the depth of field. What is the optimum aperture for night photography? For most cameras it is about F8. (F-stops are a numbering system used to designate the size of the aperture opening. As a rule of thumb, the smaller the number the larger the opening.)

The best aperture for your particular lens, or the aperture which will give you the sharpest photographs from corner-to-corner is three to four numbers, or stops, smaller than the widest opening. If your lens runs from F2.8 at its widest opening through F4, F5.6, F8, F11, F16 and F22, then F5.6 or F8 are your optimum apertures.

What, you may ask, is a 'B' shutter speed? The 'B' setting allows you to keep your shutter open for as long as you choose so that you can set the optimum exposure length for your

night shot. 'B' is a leftover from those days when the photographer had to attach a length of air hose with a rubber bulb on the end to the shutter button. The bulb was squeezed to keep the shutter open for long exposures. Even better than a 'B' setting is a camera with a 'T' setting. ('T' stands for time.) With a 'T' setting you don't have to keep the shutter button pressed down. You simply depress it and when you want to close the shutter, set the dial to the next shutter speed to cancel the time setting.

When taking long night exposures, you must keep your camera very still. If you own a tripod, all well and good. But, if you don't there is no need to rush out to the stores. Use a little ingenuity instead. You probably have with you one of the biggest tripods of all — the roof or hood of your car. However, if you cannot manoeuvre your car into the middle of a muddy field, look around for some other solid object such as a wall or a tree stump.

Now it is time to return to the brick. If you are a keen amateur, you probably own a cable release, a little metal plunger that is today's answer to the air hose and bulb. It is a useful little device, but if you don't own one you are going to need something weighty to keep the shutter button depressed until you are ready to release it. What better object than a brick? It can double as a deterrent to would-be muggers as you stand alone at night, taking your pictures. However, any solid, heavy object balanced atop your camera will do the trick.

How long should you expose the film? That is where the chart comes in, so read it carefully. Always remember, however, to bracket your photograph by one full stop on either side of the exposure time you have chosen. To increase your exposure by one full stop you must double your exposure time. To decrease it by one full stop you must half your time. That means that if the chart says you should shoot your photograph for 30 seconds at F8, then you should bracket with one shot for 60 seconds at F8 and one for 15 seconds at F8. If you increase or decrease your exposure time by only a few seconds either side, the difference in the final prints will be so minimal that you may never get the right exposure or the photograph you wanted. Professional photographers always bracket. They may use a roll of film for one photograph because their most precious commodity is time. Far better to use the entire film than to have to come back and do it again. Night photographers should remember that the moon may never again be in quite the same spot on such a clear evening. The chart, I emphasize, is a guide only. It could never take into account the variations in light intensity on any given night in any particular spot in Nova Scotia.

What film should be used? It doesn't matter because no film is perfectly balanced for night photography. All will give some degree of colour cast. Therefore, if you like it, use it.



Now that the principles behind night photography have been mastered, it is time to review the techniques. Here follows a step-by-step list of procedures for the first-time amateur:

1. Place your camera on a tripod or other solid subject and focus on your subject.
2. Did you wind on the film?
3. Place your hand or a card directly in front of the lens, but do not let the object touch the lens.
4. Attach your cable release or carefully place your brick or other heavy object on the shutter, making sure you hear it click open.
5. After you are confident that the camera is not wobbling and the shutter is firmly open, remove your hand or card from in front of the lens. You are now beginning the exposure. Make sure nothing will jar the camera while the shutter is open.
6. Time the exposure. Seasoned professionals can be seen counting softly to themselves, but you may use a watch if you prefer.
7. When time is up, replace the hand or card directly in front of the lens and carefully remove the brick. That is all there is to it.
8. Now do it all over again, but this time double and then half the exposure time.

Ready to go? Then collect the camera, film, car, accessories and chart, and don't forget your brick. Who knows who you might meet out there, brick in hand. □

Photographs are by former students in the photography program at the Halifax Regional Vocational School.

Exposure Chart for Night Photography (All photographs are to be taken at F8)

Area	50-64 A.S.A. film	100-125 A.S.A. film	400 A.S.A. film	800 to 1000 A.S.A. film
Very bright downtown street (e.g. Spring Garden Road) with store lights blazing.	16 sec.	8 sec.	2 sec.	1 sec.
Average shopping street with some store lights on.	24 sec.	12 sec.	3 sec.	1 sec.
Road with street lights on both sides lit. (Thoroughfare of an average main street.)	30 sec.	15 sec.	4 sec.	2 sec.
Road with street lights staggered on both sides.	60 sec.	30 sec.	8 sec.	4 sec.
Main object of picture is lit by only one or two small lights (e.g. courtesy lights outside a house).	1 min., 30 sec.	45 sec.	12 sec.	6 sec.
Country road with main object of picture near a street light.	2 min.	1 min.	15 sec.	8 sec.
Panoramic view of a city/town with lights from a distance. (Object is to get some detail of the buildings in the scene.)	2 min., 20 sec.	1 min., 10 sec.	20 sec.	10 sec.
Moonlight is the only source of illumination (e.g. fields and trees in the country). Much depends on the moon's brightness.	20 min. to 1.5 hrs.	10 min. to 1 hr.	2 to 5 min.	1 to 2 min.

Campus Notes

Achievement & Named Undergraduate Scholarships for 1985-1986

Application forms and detailed criteria may be obtained from the Financial Aid Office in Room 402 of the O'Donnell-Hennessey Student Centre. Deadline for applications is June 14, 1985.

CBIE Executive Director visits Saint Mary's

Marnie Girvan, the newly appointed Executive Director of the Canadian Bureau for International Education (CBIE) visited Saint Mary's on March 14. This provided Ms. Girvan with an opportunity to learn first-hand the interests and concerns of some of those directly involved with international students.

MBA Society

The Saint Mary's MBA Society held its closing banquet on April 4 at the King's Palace Restaurant in Halifax. The President of the Society, James Gibbons, acted as Master of Ceremonies.

Special gifts were presented to Dr. Rick Miner, Dean of Commerce and Dr. Colin Dodds, Director of the MBA program. The MBA Society Teaching Award was presented to Professor Izzy Elkhazin of the Accounting Department by Barb King, the Society's Social Director.

More than 100 students and faculty members attended the banquet. Chris Hartt, newly elected President of the Society, made the closing remarks. □

Notes on the China Project

Helen Vanwel (National Coordinator) attended a TESL (Teaching English as a Second Language) conference in Vancouver, where she presented a paper on "Teaching English as a Second Language in China". She then toured four of the China Project's Regional Orientation Centres and attended a briefing for four new teachers hired for the Canada/China Language Training Centre in Beijing. The meeting took place at the CIDA Briefing Centre in Ottawa.

Donna Reed (Administrative Assistant) and Janice Burke (Accountant) assisted in the briefing program for the new teachers mentioned above.

From August 1983 to December 1984, 1181 Chinese trainees have been tested for admission to the Canada/China Language Training

Centre in Beijing. Of these, 279 were admitted, and 122 of those have come to Canada.

A second satellite program will open in May in Jiagedaqi. It will provide English language training for forest managers and forest fire fighters. Frances Mar has been hired as the ESL teacher. Mrs. Mar has a Master's degree in ESL teaching and has extensive teaching experiences in several Asian countries, including China.

The latest national advertisement for four ESL teaching positions in China for September resulted in over 350 applications.

Dr. Hermann Schwind represented Saint Mary's University at a meeting in Winnipeg, organized by the International Development Office. The topic of the conference was "International

Development — What lies ahead for Canadian Universities?" Over 100 international development officers and other representatives of Canadian Universities and Colleges attended. One morning was dedicated to programs in China. Several speakers and discussants made references to Saint Mary's China Project. Recommendations were made to expand this successful program to include other countries. □

Schedules

Art Gallery

Monday closed
Tues to Thurs 1:00-7:00 pm
Friday 1:00-5:00 pm
Sat, Sun 2:00 pm-4:00 pm

Bookstore

Regular hours
Mon-Fri 9:00 am-4:30 pm
Wed 9:00 am-7:00 pm

Continuing Education

Mon-Fri 9:00 am-5:00 pm
Tue & Wed 9:00 am-8:00 pm
(or by appointment)

Patrick Power Library

Mon-Fri 8:15 am-11:00 pm
Saturday 9:00 am-5:00 pm
Sunday 1:00 pm-11:00 pm

I.D. Hours

Monday 2:00-5:00 pm
Thursday 7:00-9:00 pm

Royal Bank

(Effective May 6)
Wed., Fri.
10:00 a.m. - 2:30 p.m.

Gorsebook Lounge

Mon-Wed 3:00 pm-12 midnight
Thurs & Fri noon-1:00 am
Saturday 6:00 pm-12:30 am

Burke Gaffney Observatory

Tours — Every Saturday
Meet in Room L152 at 7:00 pm

Religious Services

University Mass Sun 7:00 pm
Canadian Martyrs' Church

Weekday Mass

Mon, Wed & Thurs 6:30 pm

Liturgical Centre L145

Tues 6:30 pm L145
Friday 12:30 pm L145

Ignatius Chapel

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

Chaplain — Father John Mills
L200, Ext. 219/220 or 422-2223

Athletics Awards Banquet

The 1985 Athletics Awards Banquet was held on March 20. Athletes of the Year awards were presented to Canadian Olympic field hockey player Darlene Stokya and the Captain of the football team, Renzo Passaretti.

Ms. Stokya, a first year Arts student from Oakville, Ontario, scored more than one-half of the field hockey team's season total. In just one game against St. Francis Xavier University last October, she scored nine of Saint Mary's fifteen goals, and in doing so set a league record for the most goals scored by one person and one team in a single game.

Mr. Passaretti, a senior Arts student from Hamilton, Ontario, played linesman for the Huskies. He has received numerous awards for his skills as a football player and was nominated by the Atlantic Athletic Union (AAU) for the 1984 J.P. Metras Award. He has been selected by the Edmonton Eskimos of the Canadian Football League in this year's college draft.



Athletes of the Year Renzo Passaretti and Darlene Stokya

Other awards presented at the Banquet included:

Rookies of the year
— Angie Banks, 1st year Commerce (field hockey)
— Mike Volpe, 1st year Arts (hockey)

John Jones Memorial Award
— Maureen Houlihan, 4th year Commerce (Captain, basketball team)

Manager of the Year
— Eddie Palmer, a senior high school student (Manager, hockey team)

Football Block & Tackle Award
— Jim Czense

Team Most Valuable Player Awards
— Darlene Stokya (field hockey)
— Michele Gaunce (basketball)
— Mike Volpe (hockey)
— Tanya Kling (soccer)
— Roy Burns (rugby)

Intramural Athletes of the Year
— Marilyn Emmerson
— Ken LeBlanc

Royal Bank contributes to Capital Campaign

H. George Buckrell, Senior Vice-President and General Manager, Atlantic District, Royal Bank of Canada, speaks with Kore-Lee Mielke, a fourth-year Commerce student, at a recent reception held at Saint Mary's. Mr. Buckrell took the occasion to announce that the Royal Bank will donate \$110,000 over five years to the University's Capital Campaign.

Photo credit: Wamboldt Waterfield



THE TIMES

The Times is produced by Information and Public Relations, Saint Mary's University, Halifax, Nova Scotia B3H 3C3. This is the last issue for the academic year. The next edition will be published in September 1985.

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Editor — Alexa Thompson
Design and Production — Heather Wood

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