



Saint Mary's Times

Canadian Council for the Advancement of Education
Best Newspaper Award, 1991

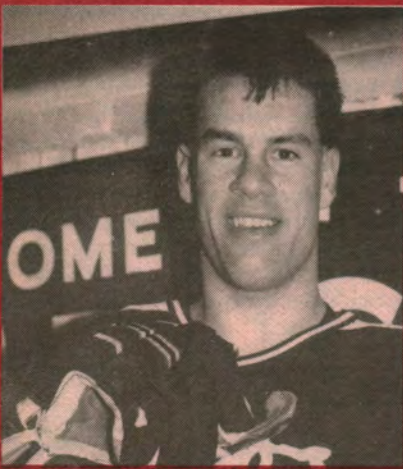
Saint Mary's University, Halifax, Nova Scotia February, 1992 • Volume 21 • Number 4

INSIDE



Huskies in a hurry

Library assistant Brenda Potter is off to the races. **3**



True blue glue

Players like Andy Conrad don't put a lot of points on the scoreboard, but they're the glue that holds the team together. Meet four of them. **8**

The big chill

Halifax holds the Canadian record for the longest run of climactic data and it's a chilly one, indeed! During the 'little ice age' of the 19th century, horses were raced on ice in the harbour and winds were ferocious. **5**

Big grant for heat research project

by Claudine Laforce

IF YOU HAVE EVER wondered how to heat or cool your home more economically, you may not have to look far for some answers. Saint Mary's chemistry professor Dr. John Young and his team of undergraduate student researchers may be able to help you. As part of a Canadian effort to promote the energy-conserving technology of district heating and cooling, Energy, Mines and Resources Canada (EMR) recently awarded the first instalment of a two-year \$350,000 research contract to Dr. Young to establish an Advanced Fluids Research Centre on campus, with the initial responsibility to develop and test advanced heat transmission media for use in central heating and cooling systems. These systems involve the large-scale production of 'hot' and/or 'cold', often from a waste heat source, and its delivery to customers in circulating water flows through pipelines. A local example is the system which pipes waste heat from two electric generating stations to heat buildings in downtown Charlottetown. The term 'advanced fluids' refers to water and phase-change media containing various chemical additives to reduce their hydraulic drag and improve their energy carrying capabilities.

Our university first became involved in this field in 1986, when Dr. Young was invited to join a committee formed by the International Energy Agency to sponsor advanced fluids development in general and hydraulic drag reducing agents (DRAs) in particular. Reduction of hydraulic drag means smaller diameter pipelines and lower pumping costs. The United States and Germany were already leaders in the development of DRAs for heating applications, but little work had been done on the special problems of development of DRAs for district cooling applications.

In 1986, Canada stepped in to fill this void with the formation by EMR of the Canadian Advanced Fluids Group to develop low

New research centre to be established

temperature advanced fluids. This group consists of eight representatives from industry, federal and provincial research laboratories and universities. According to Michael Wiggin, a project manager of the Canada Centre for Mineral and Energy Technology (CANMET), Saint Mary's University was asked to join this group because of impressive earlier work under EMR's Research Agreements Program.

As part of its contribution to the work of this group, Dr. Young's team has worked for

consequence of this work. According to Michael Wiggin, "What is particularly exciting about this arrangement is that not only are Dr. Young and his students contributing to establishing Canadian leadership in this field, but opportunities have been opened up for undergraduates to get involved in real industrial applications".

This grant will enable Dr. Young to expand his current program of collaborative research and development activities and to arrange exchanges with partners in other parts of Canada, the United States, West Germany, Denmark and elsewhere. Says Dr. Young, "I expect to have eight students working with me by this summer and this could double by 1993. I look to provide them all with well-paid employment and worthwhile research experience."

Activities planned for the Advanced Fluids Research Centre in 1992 include further work on low temperature DRA design; establishment of a sophisticated corrosion monitoring capability; creation of an information service on district heating and cooling technology; support for upcoming studies of the use of advanced fluids in full-scale systems in Ottawa, Lansing (Michigan) and elsewhere; a joint research project with the University of Dortmund, Germany, on additive degradation chemistry for the International Energy Agency (IEA); and hosting a conference of the IEA's International Experts' Group on Advanced Energy Transmission Fluids at Saint Mary's in October, 1992.



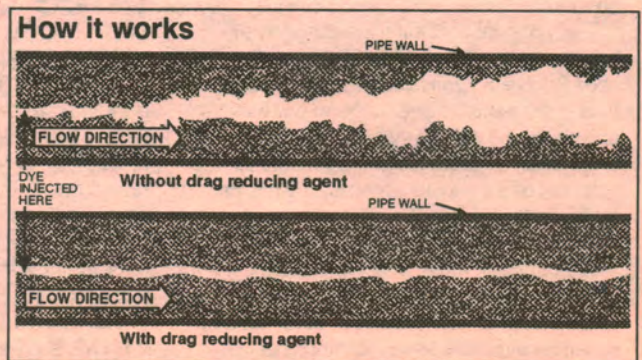
Dr. John Young and some members of his research team at work.



Keith Vaughan photo

several years to develop a better understanding of the mechanism of drag reduction by chemical additives in chilled water and ice slurry flows. Dr. Young and his students have isolated, tested and applied for patent coverage of surface active additives which remain soluble at low temperatures and reduce hydraulic drag by up to 85 per cent.

The decision by EMR to fund our Advanced Fluids Research Centre is a



Dye injected into pipe reveals eddies in water flow and effect of drag reducing agent

Where tradition meets the future

by Chuck Bridges

FOLLOWING SOME 31 meetings, the Council of Nova Scotia University Presidents (CONSUP) has presented its report on rationalization of the province's universities to the Minister of Advanced Education. As you may recall, the process began in the summer of 1989, when Nova Scotia universities were asked by the Maritime Provinces Higher Education Commission to set out their roles and planned capacities. It was from these reports that the government identified seven areas for rationalization. The goal was to save money and avoid unnecessary duplication. What is outlined in the CONSUP document is considerable co-operation among the universities. Saint Mary's can be especially proud of its academic and administrative co-operative efforts. Copies of our report on co-operative ventures between universities have been distributed to chairpersons and department heads.

What are the recommendations in the report? In some cases, there is need for a further assessment by outside experts, while in others, considerable work has already been done. Education faculties are one example of where there has been considerable rationalization over the last decade. Each university that offers the program has developed its own areas of expertise.

The continuing education departments in Nova Scotia universities have been applauded by CONSUP for their co-operation in developing programs while avoiding duplication. The Division of Continuing Education at Saint Mary's has been particularly innovative in these collaborative efforts.

Discussions are ongoing between TUNSD and Dalhousie which could lead to a closer working relationship in engineering at all levels. Also cited as a significant example of collaboration between universities is Interuniversity Services Inc., of which Saint Mary's was a founding partner.

The geology departments at Saint Mary's, Saint Francis Xavier, Dalhousie and Acadia universities have discussed their positions and CONSUP has recommended the Nova Scotia Council on Higher Education take an active role in deciding what will be the next step.

The question of the business schools remains one of the more contentious issues. The CONSUP report notes, "It is apparent that broad differences (of opinion) exist." There has been an information meeting between the business faculties of Saint Mary's and Dalhousie. In a Maclean's article published the week of February 3, Advanced Education Minister Ron Giffin seems to indicate that there will be one business school in Halifax-Dartmouth. This is in keeping with what the provincial government has been saying for more than a year.

Saint Mary's position on all of these issues has been reported in the past and there have been no substantive changes during the last two and a half years. These positions were developed in discussion with faculty, staff, students, the Board of Governors, Senate and alumni.

The very real constraints imposed by the two-year provincial budget freeze and the need for a better educated population may lead to dramatic changes in Nova Scotia's university and college system over the next few weeks. Premier Donald Cameron has gone out of his way to advise CONSUP and anyone who cares to listen that changes are required and the provincial government is willing to make them.

Where will Saint Mary's be? Given our commitment to wise utilization of the limited resources available to us, interuniversity co-operation, and accessibility, I hope that we are perceived as part of the solution and not part of the problem.



Premier pays a visit

Premier Donald Cameron visited the P.C. Club of Saint Mary's on January 22. Club executive members Ken MacPhee, president, Stephanie White, vice president and Otto Akkerman, communications officer, chat with Premier Cameron.

Response to changing environment

Business office reorganizes

Employee Moves

The five sections of the business office have been reorganized into three after a review of the department by Doane Raymond Management Consultants.

Under the section **information and systems services**, Marjorie Sullivan has become assistant comptroller. She was

previously manager-financial services. This section was formed to give greater emphasis to the development and maintenance of financial systems and to be responsible for the development and distribution of financial information.

Judith Campbell has become manager, **accounting services** from her previous position as senior accountant-financial services. This section is responsible for the accounts payable, accounts receivable and payroll. Judith was appointed to this position on November 15.

Kevin Webb, previously budget control officer, has been named manager, **budget services**. This section consolidates budget support activities for all areas of the University whether they relate to general operations, research accounts or special projects.

Comments Comptroller Ronald Cochrane, "The changes will help the business office to lead rather than just cope. We feel confident that this organizational strategy will best address our mandate and make best use of our human resource strengths."

New payroll system

Payroll and personnel will soon have a new computer system which will assist both offices in handling increasing workloads. "Right now, for example, we have a double input of information when a new employee is hired," explains Marjorie Sullivan, assistant comptroller. "The new system will use a common data base between the two offices and we'll be able to provide current information to senior management on a regular basis."

Unfortunately there is some delay in putting the system in place. "The payroll process never stops or even slows down," says Sullivan. "We don't have a down period in paying salaries when we can take the time to make the changes but with training soon behind us, we hope it will be a smooth transition." The changeover is expected to take place in early spring.

Apology

Some Freudian lapse always makes me place Dr. Donald Weeren of the Faculty of Education in the Religious Studies Department and, lo and behold, I did it again in our account of sabbatical activities in the December Times! My sincere apologies.

Anne West, Editor

Around campus



Winter fun

Winter Carnival '92, held from January 22-25, drew people to events all over campus. Here students play a game of chance in Carnival Alley found in the Colonnade, Loyola.

Billboards for unity

Toronto trucker Jim Taylor (back) watches student Mark Bowlby sign his national unity petition. Taylor brought his campaign to keep Canada together to Saint Mary's campus on December 2. He positioned his giant billboards in the Loyola Colonnade and students, faculty and staff spent the day signing their affirmation of Jim's slogan, "My Canada includes Quebec".



Sri Lanka wins

During the Multicultural Association of Nova Scotia (MANS '91) Cultural Festival, the Sri Lanka Association of Nova Scotia won the award for best cultural presentation. The award, an original painting by a Micmac artist, was given to the International Education Centre to put on display until the MANS '92.



Here, members of the association display the award, which was presented to Joy Woolfrey (third from left), director of the International Education Centre.

University surpasses United Way goal; three departments win awards

Staff, faculty, and the Jesuits of Halifax combined to put Saint Mary's over the top in this year's United Way goal of \$22,000. \$24,591.24 was raised through donations and special events organized by the campaign committee and the overall participation rate was 38 per cent.

The Patrick Power Library with Media Services and the Department of Athletics and Recreation both took home the United Way Silver Award for obtaining a 75 per cent

department participation rate with an average gift per donor of \$55. Physical Plant received the Bronze Award for having a 70 per cent participation rate and donating an average gift per donor of \$40.

"We had a good response given the tough economic climate," says Kim Squires, the University campaign chair. "Volunteers are very important to the campaign and I really want to thank them on behalf of the United Way for helping us surpass our goal."



Times

Saint Mary's University
Halifax, N.S. B3H 3C3

February, 1992
Volume 21, Number 4

The Times is produced by the Public Affairs Department of Saint Mary's University. Submissions from faculty, staff, students and friends are welcome.

Director of Public Affairs
Chuck Bridges
Editor: Anne West
Sports Editor & Staff Writer:
Claudine Laforce
Design: Stu Ducklow

Far North comes to Fairview

Team of huskies gears up for first race

by Anne West

LIBRARY ASSISTANT Brenda Potter, who lives in Fairview, spent the Christmas holiday teaching her dogs the art of pulling a sled. After owning Siberian huskies for 14 years, she finally had a chance to put them through their paces in the sport that is peculiarly their own. The lessons were a success and Brenda and her friend Karen Armstrong are taking their team to Mill River, P.E.I. for its first race even as *The Times* goes to press.

This time Brenda will be the dog handler, because she has not had enough practice at driving, but both dogs and owner love the new game. "They are like jumping beans," says Brenda. "They love it, they go crazy and you have to have someone to hold them before the start." Once off, a foot brake on the sled and the driver's voice are the only means of controlling the dogs. The two commands that Brenda uses are "Hike" to set them off, and "Whoa" to make them stop.

When she was little, Brenda was scared of dogs. "My mum tells me that at two I was petrified of dogs and used to scream and yell at the sight of one." But when she reached three, the family acquired a dog and a lifelong affection was born.

Brenda bought her first Siberian husky in 1977. She chose the breed "Because I like wolves, and to the novice they look like wolves. I was looking for a dog that



Andrea Nemetz, Halifax Herald

was quiet, friendly with people and other dogs, and that did not bark a lot." She was not looking for a watchdog, and says of the breed, "They will hold the flashlight for the burglar." Brenda has a kennel in her back yard and says, "I am sure when I first moved in my neighbors were afraid the dogs would bark all the time, but all of them have commented on how quiet they are."

Over the 14 years, Brenda has owned

five huskies. Her first, Chimo (Friendly) died last year and it was she who introduced Brenda to the world of showing and obedience training.

"Chimo," says Brenda, "outsmarted me for 13 years." She remembers her first time in the ring. "My mother came to see me do Chimo's first obedience trial. She flunked just about every exercise." Before the humiliating performance was over, Chimo had escaped into another ring and left a gift on the floor! However, they persevered, Chimo became an obedience champion and Brenda learned husky psychology. "Siberians are independent, they learn very quickly but they get bored. You mustn't overwork them. They are not a dog you can drill. You have to make them think they do things because they want to, not because you want them to."

In 1990, Brenda and Karen started a club for local Siberian husky owners. It now includes about 25 dogs and their 30 humans. "Most are people who just have their dogs as pets," says Brenda. "We get together and talk about the problems people have, we went out sledding once, and we had a flyball demonstration." Flyball is an exciting new team contest for dogs, in which they take turns to release a ball from a trap and carry it back. "Huskies are not natural retrievers," says Brenda, "but we are teaching them." Brenda also has a reputation as an expert on pedigrees. "People are amazed at my knowledge of the parents and grandparents of their dogs," she says, and puts this down to her educational background. She has an honors history degree and a BEd from Dalhousie, and has done research into the genealogy of her family. She has worked in the Patrick Power Library for seven years.

Over the years, Brenda has trained both conformation and obedience champions and two of her dogs produced litters of seven adorable puppies, all well documented in her photo album. At present she has three dogs, 12 year-old veteran Jason, Katie, and Tasy. She acquired six-year-old Katie about a year ago, from a kennel. "She is my pet

therapy dog," says Brenda, who takes her to the Camp Hill Hospital once a month to socialize with long-stay patients. "She has a sweet personality, which is amazing for a kennel dog. She appreciates affection. She wants to be loved and is marvellous with people. She sits and puts her paws up and gives them kisses, and gets up on the beds."

Tasy (short for Fantasy which is part of her registered name), is just a year old. She is not only beautiful, but gifted and Brenda has great hopes she will excel in obedience, conformation and pet therapy, and be suitable for breeding. She has taken eagerly to sledding and is being trained as a lead dog.

New Archbishop of Halifax installed as chancellor



Ted Flinn, chairman of the Board of Governors, helps Archbishop Burke on with his robe of office during his installation as chancellor of the university.

Saint Mary's University and also presides over Convocation. Archbishop Burke is particularly enthusiastic about presiding over convocation. As Bishop of Yarmouth, his previous position, he was involved with the Convocation at Université Sainte-Anne and very much enjoyed his contact with students.

Archbishop Burke succeeds Archbishop Emeritus James M. Hayes who held the position for 25 years before retiring in November 1990.

"Our University has played a vital role in ensuring accessibility for Nova Scotians to a quality university education since 1802, and I see this as one of the more important responsibilities of my term as Chancellor," said the Most Reverend Austin-Emile Burke during his installation as Chancellor of Saint Mary's University on Sunday, 8 December.

Approximately 175 people, representing faculty, administration, students and government attended the installation ceremony. The Chancellor serves as a member of the Board of Governors, the body responsible under provincial statute for the operation of

Tying one on!



Thomas Ross of New Bedford, Massachusetts (left) received a Nova Scotian tie from Minister of Education Ron Giffin during his stay in Halifax. Ross took part in the New England-Nova Scotia student exchange program during the fall semester. He was enrolled in the geography course 'natural environments' at Saint Mary's. He is a senior at Bridgewater State College and leans toward geography and urban planning for a career.

People

Dr. Colin Dodds, Vice President (Academic and Research), has been appointed to the Nova Scotia Trade Council.

★ ★ ★

Professor John Chamard has been appointed to the Management Services Advisory Committee of the Federal Business Development Bank. The Committee has been set up to provide counsel to FBDB management on how best to bring useful business advice to clients of the bank. The Committee has one representative from each of Canada's five regions.

★ ★ ★

Dr. David Swinger of the Division of Engineering received a Signal Processing Award at the annual awards banquet of the International Conference on Acoustics, Speech and Signal Processing. It was for a paper he published (with Jeffrey Krolik, Concordia University) entitled "Multiple broad-band source location using steered covariance matrices", October 1989.

★ ★ ★

Dr. Gillian Thomas of the English Department has joined a New Democratic task force on reform of the United Nations. The task force will seek ideas from academics, activists and the public on the mandate and charter of the UN, function of the security council, military staff committee, secretariat and the general assembly.

★ ★ ★

Dr. Hermann Schwind, Management, has been appointed to a three-year term with the Aid to Scholarly Publication Program Committee of the Social Science Federation of Canada.

★ ★ ★

Dr. Harvey H. Millar, Finance and Management Science, recently attended two academic conferences; the joint annual meeting of the Operations Research Society of America and the Institute of Management Sciences in California and the Production and Operations Management Society Conference in New York. At the former he chaired a session on manufacturing management; at the latter a session on production planning and control. He also presented two papers at each of the conferences; "A Lagrangean algorithm for multi-item lot sizing with capacity constraints" and "Batch sizes and lead time performance in flexible manufacturing systems".

★ ★ ★

Dr. P.L. Arya of the Economics department was an external examiner for a PhD thesis from the University of Delhi entitled "Lease financing in India". He also recently reviewed a book entitled "The Principles of Economics" for the HBJ Holt Publishing Company.

Publications

Dr. Rick Miner, management department and director of the Canada/China Language and Cultural Program has recently published a paper entitled "If two heads are better than one, why do I have bruises on my forehead?" in the *Clinical Laboratory Management Review*, volume 5, number 5.

★ ★ ★

Dr. Richard Perkyns of the English department published a paper entitled, "Michael Cook's Dramen: Jacob's Wake und die europaische Tradition" in the February 1992 issue of *Das englisch-kanadische Drama*, the first major German publication on

Italian geochemist picks Saint Mary's for research

You may see Dr. Enrico Lanti visiting Tim Horton's in Loyola for a coffee, or grabbing a cigarette outside. Most often you'll find him in S413A but only if you're really searching. In fact to find his office, you have to pass through S413A to a room in the back, but Dr. Lanti doesn't seem to mind this location; he has a window, a desk, and a map of one of the volcanos in his home country of Italy.

Dr. Lanti is from the Department of Mineralogy and Petrology at the University of Bologna and the International Volcanological Institute in Catalina. He was awarded a postdoctoral fellowship by the Italian national research council to study and do research abroad.

Dr. Lanti chose to begin research in September at Saint Mary's because of a particular professor who supervised one of Italy's most respected geochemists. That professor is Dr. Jaroslav Dostal of the Geology Department. "About seven years ago I supervised Dr. Serri of the University of Pisa while he was doing research," comments Dr. Dostal. "Enrico is now being supervised by Dr. Serri who encouraged him to come to Saint Mary's to work with me." Dr. Lanti's research deals with the geochemistry of recent volcanic rocks from Linosa Island in the Mediterranean Sea. He meets with Dr. Dostal at least once a month to discuss the progress of his research.

On his stay in Halifax, Dr. Lanti says in broken English, "(Halifax) is a very good place to work (and I) hope to be able to come back," then he adds, "But it is too cold to smoke outside!"



Dr. Enrico Lanti

Canadian drama. The original English version is "Jacob's Wake and the European Tradition".

★ ★ ★

Dr. Georgia Pe-Piper recently published two articles: "K-rich moedenite from late miocene rhyolitic tuffs, Island of Samos, Greece" (with P. Tsohis-Katagas) in *Clays and Clay Minerals*, 39, 239-247, and "The metamorphism and migmatization of the Xanthe-Echinos metamorphic complex, Central Rhodope, Greece", (with C.N. Kotopouli and C.G. Katagas) in *Lithos*, 27, 79-93.

Saint Mary's connects with Malay

Twinning arrangements, management courses, graduate degree programs and alumni were the key reasons for a return visit to Malaysia by Dr. Colin Dodds, Vice President (Academic and Research), in December.

In his previous visit last year, Dr. Dodds found Malaysia offered many opportunities for Canadian universities - opportunities currently being exploited by other foreign universities. Malaysia and other countries in that region have sent students overseas for their education for some time, and some of these students have studied in Canada. In fact, Ontario's grade 13 is currently being taught in Malaysia.

While many students continue to study abroad by seeking direct entry into universities, an emerging trend, particularly in Malaysia, is for twinning arrangements between private colleges and recognized universities or consortia of universities. "The British and Australians are leaders in this area right now and we can learn from them," says Dr. Dodds. In twinning, one or more years of study is completed in Malaysia, with the balance taken abroad. The college becomes an extension centre of the foreign university and quality control is ensured by the university controlling the curriculum, textbooks, lectures, examinations and other details.

Programs are currently in place with the University of Winnipeg and the University of Manitoba. The main areas of interest for Malayan students are business, engineering, computer science and law.

At the graduate level, Australia, the U.K. and the U.S.A. are teaching their degree programs in South-East Asia. The city of Singapore has 35 MBA programs of which only two are from the local universities. Foreign MBA programs are also available in Malaysia. Other areas that are growing rapidly in the region include women's development programs, programs for women



entrepreneurs, and English as a Second Language programs - all possibilities for Saint Mary's involvement.

The Faculty of Commerce at Saint Mary's University is part of a consortium of 32



Indian delegation at Saint

(l to r) Dr. Hari Das (management), Fr. E. Abraham, Dr. Manerikar, Dr. Paul Dixon (acting dean of

Link with Czechoslovakian university forged through fall of communism

A co-operative linkage between Saint Mary's University and Charles University in Czechoslovakia will help put the Czech university back on its feet according to Dr. Roger Barnsley, Dean of Education who spent several weeks in Czechoslovakia this fall.

"The Czechoslovakians are seeking assistance at this point in time," says Dr. Barnsley, "there is an incredible transition going on and they are coping well, but the job ahead is so large and complex, they would appreciate outside assistance." As an example of the changes, it was reported to Dr. Barnsley that the recently-appointed Rector (university president) of Charles University had previously been forced by the communist government to perform the job of a sanitary engineer. Since the collapse of the communist regime, positions of influence have been filled on merit rather than on a political basis.

During his visit to Prague, Dr. Barnsley lectured on the Canadian experience of integrating children with special needs into the regular education system.

Czechoslovakia, which currently educates these children separately, is seeking to model its system on the North American practice of including such children in regular schools.

Charles University, founded in 1340, is the oldest university in Central Europe. It has a faculty of education of 700 teaching members and a combined student body of 30,000. The university is turning its attention to English as a Second Language, an area which Saint Mary's recently entered. English is the common language of communication in Europe today and the first foreign language taught to children.

Dr. Barnsley sees the changes in Czechoslovakia as an opportunity to develop a co-operative relationship with Charles University and to strengthen Saint Mary's international ties. He feels that, in the next few years, Charles University will regain its high stature in the European community and Saint Mary's will benefit greatly from this opportunity. Says Dr. Barnsley, "I hope we will be able to have student and faculty exchanges in the near future. There is so much we can learn from their experiences."

LECTION

ryan universities

business schools across Canada which is planning a feasibility study for developing management programs in Malaysia, Taiwan, Indonesia and surrounding countries. As vice-chairman of the consortium, Dr. Dodds was able, on his visit, to finalize the plans for the study. "We would like to offer two to three week courses on a regular basis with the teaching shared among participating Canadian universities. This could eventually lead to faculty exchanges," explains Dr. Dodds.

Dr. Dodds also touched base with Saint Mary's alumni in Singapore, giving them information on what is happening on campus and some background material on the rationalization situation.



at Mary's

commerce), Dr. Pothana, Mr. Joe Philip, Dr. Mehta, Dr. Sharma, Dr. Baker and Dr. Rao.

Commerce fosters ties with India

Eight senior administrators from Indian universities and institutes of higher learning visited Saint Mary's in October as part of a tour of Canadian universities. Their purpose was to identify business schools which are potential partners for collaborative research and academic exchange.

Saint Mary's was the first stop in the delegations' visit to 10 universities. "We had very positive feedback from the delegates," comments management professor Dr. Hari Das. "One delegate phoned me from Toronto to tell me that the group very much enjoyed the Canadian hospitality, but the treatment they received at Saint Mary's was something special which they would never forget." According to Dr. Das, the delegate went on to say, "Your warmth more than compensated for the chilly winds we experienced at Peggy's Cove!"

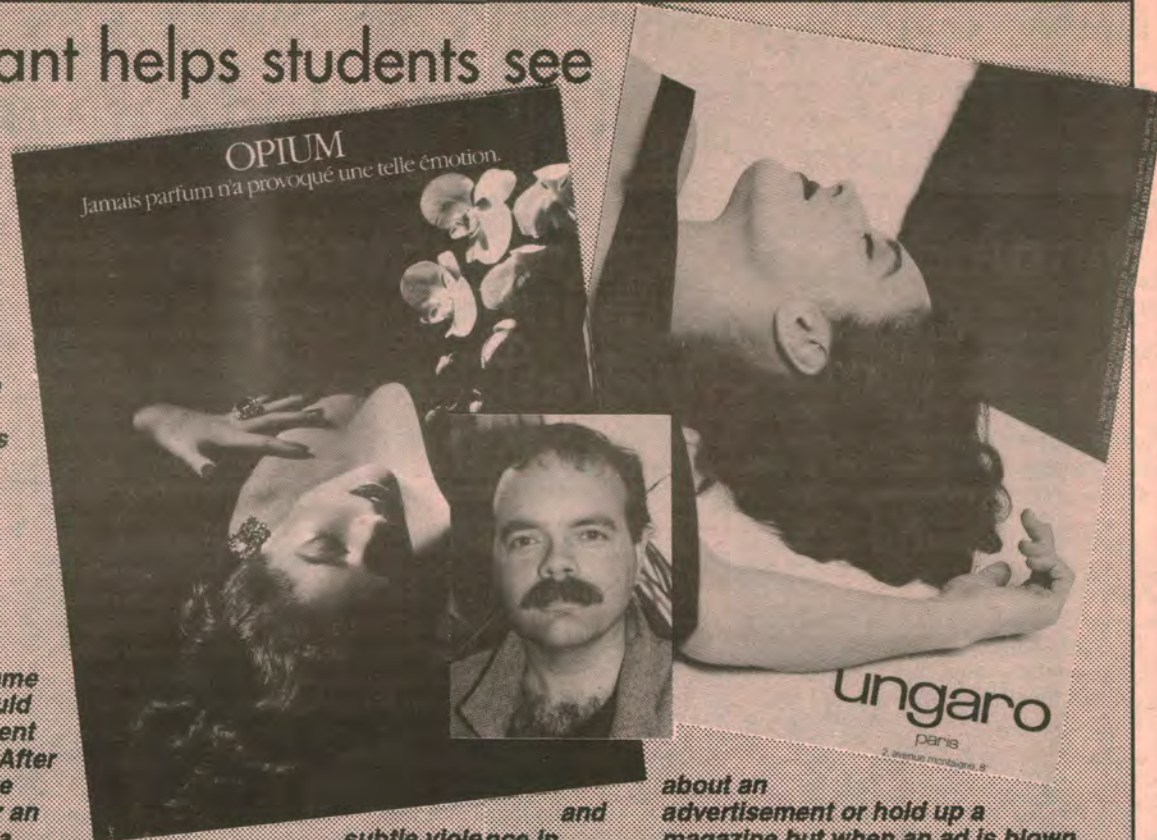
Since the delegation returned to India, three of the eight schools they represented have written to Saint Mary's expressing their desire to establish some sort of link with the University.

Teaching grant helps students see violence in ads

You might miss the hidden violence in an advertisement on the page of a magazine, but project that same image six feet square and the message is obvious. Thanks to an Innovative Teaching Grant from Senate, this is what sociology students of professor Chris McCormick are now seeing.

McCormick has been researching gender and sexuality in advertising for several years but when it came to teaching, he knew he would have to do something different to get the message across. After talking to Kevin Cleary in the Senate office, he applied for an Innovative Teaching Grant, a modest grant which enables faculty members to introduce new teaching methods in their courses.

"I wanted to find a method to show my students how to look for explicit



and subtle violence in advertising," McCormick explains. He came up with the idea of making advertisements into slides; a process which can be done at a low cost using media services. "I can talk

about an advertisement or hold up a magazine but when an ad is blown up, the class can really visualize what I am saying," says McCormick.

• Pictured: Sociology professor Chris McCormick with magazine ads.

Early climate records of Nova Scotia found

According to Environment Canada, the longest continuous run of climatic data in Canada was from Toronto, but research by Dr. Terence Day suggests that this record is actually held by Halifax. Dr. Day, director of the Atlantic Canada Centre for Environmental Science, is conducting research on the history of climate in Nova Scotia. He led off the Friday Forum series with an initial review of his work. Friday Forum, lectures in which faculty members share their research with their peers, is combined with the Fisheries Forum this year.

Dr. Day notes that climate is not static. It is affected by planetary motion (which currently causes up to 0.1 degree centigrade decline in temperature every 100 years), solar output (0.2 degrees change every year) and changes in atmospheric composition.

At the end of the 19th century there was a general global warming which ended a period referred to as the "little ice age". This was followed by a slight decline at the beginning of the twentieth century. From then until the 1950s there was a slow but steady increase in temperature, followed by a slight decline. The 1970s saw an increase again. Annual trends in Halifax are now fairly steady and buck the global trend.

The earliest known temperature charts in Canada were found by Dr. Day in the Public Archives of Nova Scotia. The records date back to 1828, when Alexander Murison of

• FRIDAY FORUM

Halifax began taking temperature, barometer and wind readings three times per day. There were a few breaks in the data where Mr.

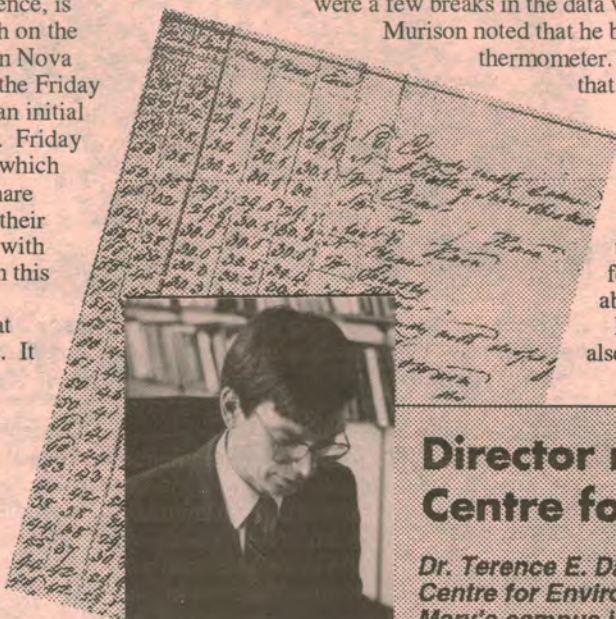
Murison noted that he broke the thermometer. It is also noted

that Murison was away during the years of 1836-37 but someone recorded the temperatures for him in his absence.

Dr. Day has also noted several

extremes of climate in his research. There are several newspaper accounts of years when Halifax harbour froze over and an article in 1876 chronicled a horse race from the Bedford Basin to Georges Island! There were also the terrific gales of the 1860s and 1870s. The Saxby Gale in 1869 had actually been forecast in a letter to the newspaper the year before. Sailors around the world were gripped by fear because they didn't know exactly where this storm would occur. It did happen here, centred around the Bay of Fundy, and fortunately people heeded the news and were totally prepared for the storm.

Dr. Day is planning to further his research by studying 18th and 19th century Royal Navy ship logs since the navy almost always had at least one ship in the Halifax harbour and they were required to keep weather logs. When he finishes, Dr. Day will have the longest-running



Dr. Terence Day and (behind) weather observations from 19th Century.

Director named for Atlantic Canada Centre for Environmental Science

Dr. Terence E. Day has been named director of the Atlantic Canada Centre for Environmental Science which was established on the Saint Mary's campus in the spring of 1991. Dr. Day, who has a PhD in Environmental Science from the University of East Anglia, U.K., has seven years experience as a consultant on environmental and geoscience projects for federal and provincial government departments, various research institutions and corporations in both Canada and the United States.

Dr. Day, who came to the Centre in October, believes that "if there is to be an improvement in the state of the environment, there has to be a change in values." He believes the Centre can help bring to the forefront issues of environmental importance using the expertise of its members. The Centre has 21 members, 20 of whom are Saint Mary's professors, covering almost all disciplines. This means that professors with different areas of expertise are given the opportunity to work together and share their knowledge on environmental issues.

The Centre is currently involved in four initiatives: doing environmental science research, establishing a bachelor of Environmental Science program, co-operating with industry to facilitate joint research projects and placing of co-op students in suitable positions, and investigating the feasibility of a Canadian journal of environmental science. The Centre is also negotiating with other universities to participate in province-wide projects related to sustainable development.

Finding psychology jobs after graduation

Ninety psychology majors took advantage of an opportunity to hear about job prospects during the program's annual career day on November 23.

The Saturday morning session, offered by Saint Mary's professors, focussed on options for graduates in such fields as graduate school, education, industrial and organizational psychology, criminology, health services and social work.

The afternoon session focussed on volunteer and paid employment in the human services field. Representatives from different social service organizations discussed job opportunities in mental health (Nova Scotia Hospital, Regional Residential Services), community (Help Line), family (Adsum House), geriatrics (Camp Hill Hospital), addictions (City of Halifax), and corrections (Correctional Services, Clinic for Sexual Offenders).

Faizal Junus, co-organizer of the event with Dr. Philip Street, says Career Day is a critical step in enhancing student awareness of the career options available to undergraduate psychology students.

Heroes of Our Times "Jake Fire" scholarship

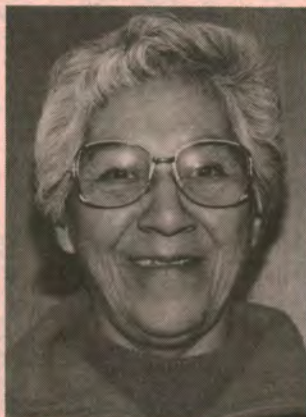
Micmac student wins Mohawk award

Micmac Elder and anthropology student Isabelle Toney-Shay is this year's recipient of the Heroes of Our Times "Jake Fire" scholarship, awarded annually by the National Indian Brotherhood Trust Fund. The citation for the award says, "We honour our brother Jake Fire for his uncompromising defense of his people and the traditions of the Mohawk nation with this award."

At 60, Isabelle Toney-Shay is not your ordinary student. Growing up on the Indian Brook reserve, she was raised in the Micmac tradition until she entered residential schools in Indian Brook then Mabou, Cape Breton where the Sisters of Charity enforced catholicism and discouraged native culture. "I was very angry as a child; we all were," comments Toney-Shay. "I didn't know the Micmac philosophy, my history. I had a low self-image of myself as a Micmac because of my catholic upbringing."

After finishing grade 12 and doing a year of nursing, she moved to Boston in

the late 60s, where she helped form the Boston Indian Council. The council worked to establish a clinic for educating native people in health and spirituality as well as providing transportation to hospital if needed.



Isabelle Toney-Shay

"It was a time of upheaval in the States," explains Toney-Shay. "Native Americans fought for their culture." For herself, she says, "by this time, as a native, I knew that I didn't want to worship a white, male, supreme being anymore." Toney-Shay, finally rebelled against her catholic upbringing.

A driving force behind her was Annie Mae Aquash, a close friend from Indian Brook who also lived in Boston. "Annie Mae always encouraged me to learn about the Micmac culture; she told me that it was my job as an Elder to know

the legends and history of our people. I assumed the role of an Elder; there was no ceremony involved," she explains. "As I got older I learned more and more about the old traditions and people just started coming to me, asking questions and looking for advice."

Annie Mae strongly believed in fighting for her heritage. She was involved in the occupation of Wounded Knee in 1973 and was killed in that altercation. "Annie Mae was a very strong influence on me," says Toney-Shay who stayed in Boston until 1976. Over the next several years she lived in Maine, Gold River (Chester Basin) and finally returned to Indian Brook. During that time she raised six children and one grandchild and counselled and advised young people on Micmac spirituality.

But memories of the earlier years and Annie Mae stayed with her. In 1989, Toney-Shay registered at Saint Mary's in the anthropology program to learn to research her Micmac heritage. Now she is writing a book on her personal experiences called *Out of the Depths* with the help of Gillian Thomas of the English department.

A letter of congratulations on the award from the National Chief of the Assembly of First Nations says, "The trustees of the Board are very impressed when Elders continue their life-long learning experiences and utilize their gifts working with the younger generation as you have."

New course for marketing students shows how

HANDS-ON SELLING



Student Marlee Wright; Ravi Tangri, professor of the personal selling course; student Eric Cogswell and Norm Gallant, general manager of the Student Union.

Saint Mary's, Xerox, the Royal Bank and ATV/ASN are providing a unique opportunity for students to challenge themselves with real-life business responsibilities. "Personal Selling" is now being offered as a half credit course under special topics for marketing majors.

The course, originally created by Dr. Linda Van Esch, chair of the marketing department, had five students in its first year and seven in this, its second. Professor Ravi Tangri, who now heads the project says, "The course is basically like a job; responsibility for learning is passed on to the student."

The course begins with several intensive weekend seminars where students learn from professors and people in the business world about marketing and selling techniques, including how to handle customer objections and how to close a sale. Students then hold sales meetings every Friday afternoon to discuss their work. If they need more in-depth information, they call in the pros. The pros are people in the business community who have agreed to act as mentors. "This program exposes students to the real selling

environment. Students develop sales skills through their work and complement it by asking questions," explains Tangri.

At present, the students hold sales positions with three SMUSA publications; The Bulletin (monthly calendar of student activities), the Student Handbook and the Santamarian yearbook. They are assigned territories and projected quotas to sell advertising space and receive commissions, like any other sales position.

There are advantages for both the students and the companies who are involved in the program. Students gain hand-on experience, while employers/mentors meet good potential recruits for their sales forces.

"We are trying to involve businesses around Metro in this project to the point that all students involved in the program will have their own mentors," says Tangri. "Right now Ross MacLean and Greg Jones from Xerox, Norm MacNeil from the Royal Bank, Linda Law of ATV/ASN and Don Grouse from CHNS have been very supportive of the project but we really need more companies to become involved if we are to develop this into a regular Commerce course."

Tangri hopes to offer the course to all fourth year marketing majors in 1993.

Explosion conference on campus

December 6, 1992 is the 75th anniversary of the explosion which wrecked Halifax and Dartmouth in 1917. It held the record for explosive force until the unleashing of the atomic bomb in 1945, and is still the world's largest accidental explosion.

The Gorsebrook Research Institute for Atlantic Canada Studies will host a conference on the explosion which is just one of many commemorative events planned for Halifax and Dartmouth. The conference runs from December 3 to 5 and a call for papers is expected to result in presentations on many aspects of the event. Ideas already suggested include its sociological impact, the Relief Commission, the Boston connection, medical aspects and the Dartmouth scene.

Organizers hope that the conference will appeal to members of the general public and schools and are planning the event with that intention.

Math requirement restored

For the past two years, Mathematics 442 was accepted for admission to the bachelor of science program at Saint Mary's, but the University has now reverted to its original requirement of Mathematics 441. The acceptance of 442 caused confusion and frustration among students who had to upgrade their math without receiving any credits for those courses and, for this reason, it was decided to revert to the original requirement. During the experiment, it became very clear that students with academic mathematics adjust much more easily to university-level science programs than those who do not.

Saint Mary's hosts business conference

Six students and 18 professors from Saint Mary's departments of accounting, management science, marketing and management took part in the 21st Annual Atlantic Schools of Business Conference hosted by Saint Mary's Faculty of Commerce at the World Trade Centre November 14-16.

According to event co-organizers Dr. Paul Dixon, acting dean of commerce and Lois Wasteney, assistant CMA director, the three-day conference was very successful, with a record 80 presentations from business schools across Atlantic Canada.

The 2nd Annual Doane Raymond Atlantic Canada accounting case competition was held in conjunction with the conference. Shown above are business students Kris Chahley and Lori MacDonald who represented Saint Mary's in the competition with Ben Kennedy (l), the Doane Raymond judge, and their faculty advisor, Dr. Dick Chesley (r).



Art Gallery news

Staff, student, alumni show

The art gallery opened the 12th Annual Faculty, Alumni, Student and Staff Art Exhibition with a reception on January 10. Several artists were on hand to discuss their work. Here, Margaret-Anne Bennett (l) and Ariene Davls (r) talk to Mrs. Krishna Murty about one of her paintings.



Readings

Dr. Janet Baker read short stories by alumnus and Loyola resident Paul Gouett in the Art Gallery on January 23. The event, at which Professor Bill Greer (Management) also read one of his short stories and Dr. Donald Weeren (Education) shared his poems with the audience, was designed to add an extra dimension to the 12th Annual Faculty, Alumni Student and Staff Art Exhibition then on show at the gallery.



Coming to the Art Gallery

Thursday, February 13—Sunday, March 22
Cliff Eyland, The 100,000 Names of Art
An exhibition of the 3" x 5" format works and art writings of Cliff Eyland sponsored by Xerox Canada Ltd. Eyland has chosen to use the library as a (dis)ordering principle for his work as an artist, curator and writer.

8:00 pm, Sunday, February 23
Louise Bessette, piano
Program will include Estampes by Debussy, La Valse by Ravel, and Sonate No. 5 by Scriabin.

Montreal massacre scholarship awarded

Third-year engineering student Rhonda Crews is the first recipient of the Montreal Women's Memorial Scholarship. The scholarship was presented on December 6, at a packed and moving memorial service in the University chapel for the 14 women engineering students massacred in Montreal. It was sponsored by the University's Women's Caucus.



L to R: Dr. Georgia Pe-Piper (Geology), Rhonda Crews and Acting Dean of Science, Dr. Clive Elson admire a painting by artist Susan Hubley inspired by the Montreal Massacre.

The presentation was made by Dr. Georgia Pe-Piper (Geology), who outlined Canada's urgent need for scientists, and in particular for women scientists. She said, "Science and technology have been identified...as the key to our future economic success. Japan has seven engineers for every lawyer: Canada almost the reverse." After analyzing the reasons why Canadian women lag behind in the pursuit of scientific careers, Dr. Pe-Piper said, "If women are to play a full role

in the Canada of the 21st century, we must ensure that they are fully represented at all levels of our scientific and technological community...the tragedy in Montreal two years ago is a challenge to all of us: to live the dreams of those 14 women to play a full part in the technological society in which we live."

Penal reform

Fred Gibson, Q.C., Chair of the National Parole Board, gave a lecture on 'corrections and parole reforms' to students in the Criminology Certificate Program on January 28. He chats with event organizer, Professor Sandra Bell, before the lecture.



Women at Work research challenging and rewarding

by Claudine Laforce

Dr. Linda Christiansen-Ruffman (Sociology) and two partners are reviewing the Women and Work Strategic Grant Program, the longest-standing of five strategic grant programs funded by the Social Sciences and Humanities Research Council (SSHRC). The other programs are: Applied Ethics, Education and Work in a Changing Society, Managing for Global Competitiveness and Science and Technology Policy in Canada. The Women and Work Program, which was initiated in 1983, is due for review and this is the first time that SSHRC has given a research grant to academics in the field to conduct such a review.

Dr. Christiansen-Ruffman is principal investigator, assisted by Dr. Francine Descarries, of the Department of Sociology at the Université du Québec à Montréal and Dr. Mary Lynn Stewart of the Department of History and Women's Studies at Simon Fraser University. Together they represent the social sciences and the humanities, the anglophone and francophone communities and three geographic regions of the country—Atlantic Canada, Québec and the West. They have received two grants, the first, \$5,000 for research design and a team meeting in Ottawa to develop the project, and a second grant of \$75,000 to conduct the research.

"We had never met each other let alone worked together before our first group meeting in Ottawa last April," says Dr. Christiansen-Ruffman. "But yet we are working well as a team. There are some problems with communication given the tight time frames and the large distances between us, but overall it's a rewarding experience both intellectually and personally."

The team has designed a review that will accomplish three objectives: it will describe the development of research and researchers in the area of Women and Work, it will assess or evaluate the impact of the grant program on scholarship and in the ways in which research is organized (e.g., multi-disciplinary teams, community-based partnerships). It will identify research themes that merit priority treatment in the future and research policies that facilitate

appropriate research on these new themes. According to Dr. Christiansen-Ruffman, the design of this study hinges on four principles: it is multi-disciplinary, multi-faceted, participatory and collaborative. These principles have been applied within the research team and in gathering information from the larger community of researchers and policy-makers in universities, governments and community groups.

Her portion of the research includes selecting strategic case studies for analysis using a variety of data-gathering approaches, to ensure that a valid picture of the program was emerging and that it was understood in context. In order to develop recommendations for a new theme, she and her team have conducted interviews and focus groups with policy makers and academics and have attended numerous meetings. She was in Kingston last year for the duration of the Learned Societies

meetings and has attended numerous women's meetings where current issues, needs and initiatives were discussed. She and her team now have an extensive knowledge of the needs and issues affecting women today, of the areas where research is needed and of the themes where researchers will have the greatest potential for making a significant contribution to Canadian society.

In order to assess the perceived impact of the strategic grant program on women and work and to gather information on output, a questionnaire was distributed to all the eligible principle applicants and all co-applicants of successful projects. Formal and informal interviews were also conducted with policy makers, members of SSHRC's adjudication committees, assessors and researchers within the field, including those who had applied and those who had not applied to the program.

The group is currently working on their draft to SSHRC. From there, Dr. Christiansen-Ruffman plans further writing for journal purposes. There is a possibility that the report will be published in itself.



Dr. Linda Christiansen-Ruffman

CAUT on cuts

Dr. Guy Chauvin of the Political Science Department (second from right) was invited by the Canadian Association of University Teachers (CAUT) to explain first hand the harmful effects funding cuts will have on Nova Scotia universities. The brief, presented before the Commons' Finance committee on November 25, illustrated the unfavourable effects of Bill C-20, which if passed by the government, would freeze the transfers per capita to the provinces for health and post-secondary education.



Four players show value of team spirit

Unsung heroes hold the team together

by Claudine Laforce

Certain names have been in the news since varsity winter sports began in late fall. But what about the players behind these stars who pass the basketball, the puck or set the volleyball for a spike? These people are rarely recognized other than by their team members and coaches. They are the unsung heroes of our sports teams and often play a key part in keeping team spirits up during a slide or provide that extra spark when needed.

Ann O'Neill, volleyball

Ann O'Neill, captain of the women's volleyball team is a perfect example. Says coach Joan Matheson, "She's the glue that holds the team together. Everyone looks to Ann for leadership; she's a very good player though she's not in the limelight." Coach Matheson goes on to say that since Ann started with the team, she has never missed a practice or game, even if she was sick. In fact, Ann makes a point to attend even the optional practices!

Her upbeat spirit comes out in conversation. "I go into a game thinking that we have a good team and we should be able to beat whoever we play. If we are down 14-1, we're still not out, we can come back and win 16-14!" This Newcastle, NB player in her fourth year Arts "always goes the extra distance" comments Coach Matheson. Says Ann, "We're here to have fun. Even if we lose, we should still have fun playing the game."



Ann O'Neill

Andy Conrad, hockey

"Andy Conrad is an intensive player who has really improved over the past year," says hockey coach Norm McCauley. "He is quiet and leads by example. His offensive play is really improving but unfortunately it's not showing up in the points."

Andy, a native of Sackville, NS, is in his second year Commerce. He developed his hockey skills through the Nova Scotia Junior 'B' League with the Sackville Blazers and notes that hockey is a little different at the university level. "Hockey here is much faster and more intense in this league because every game counts," he explains. "My role is more defined in that I have to be the aggressor, be the first man in, cause the other team to make mistakes." Andy goes on to explain that he knows he is not yet one of the team stars, "I don't play on the power-play or penalty-killer lines because they are not my strengths" he says, but with



another two years to play, he may yet reach this level.

Cathy Callaghan, women's basketball

"Cathy Callaghan is the basketball team's best defensive player," according to Coach Jill Healy. "She is not a flashy player but she is aggressive and works very hard."

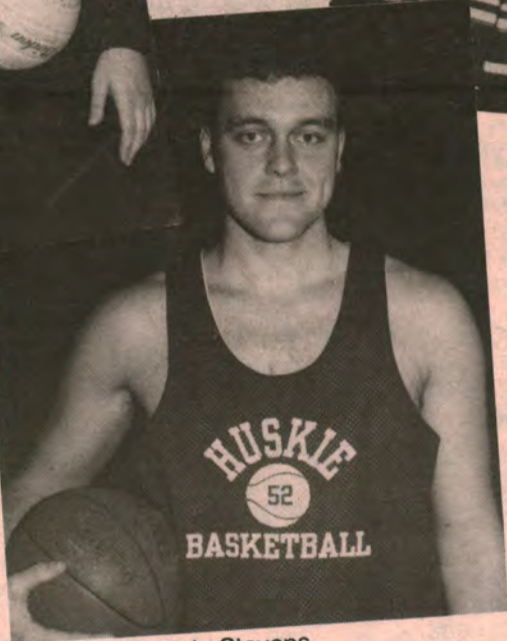
Cathy, who will graduate with a BComm this year, seriously injured her knee playing basketball in the spring of 1989 after playing two seasons with the Huskies. In the fall of 1989, she had her knee operated on and sat out the 1989-90 season.



Andy Conrad

Not to be held back by injury, she trained hard during the spring of 1990 and through the summer so that she would be in top condition for the 1991 season.

Not only did she come



Dale Stevens

back this season to captain the team, but she is playing without her knee brace! Says Cathy, "I wanted to be as strong as possible so that I could play without my brace. I know lots of people who return to a sport after an injury but use a brace for the rest of their playing days. The brace hinders your performance and I didn't want it to affect mine."

Coach Healy says that if Cathy continues to play consistently, she will give the Huskies the added scoring threat they need to make the playoffs.



Cathy Callaghan

Dale Stevens, men's basketball

"When I joined Saint Mary's as basketball coach, Dale was at the press conference and came up to me saying 'I'm very excited to be playing under your coaching'. He gave me a vote of confidence back then that I'll always remember," says Ross Quackenbush, coach of the men's basketball team.

Dale is very easy going by nature, according to Coach Quackenbush but he works very hard to get the job done. "Dale sparks the team by playing good defense, he goes out and rips down some rebounds and really turns a lethargic game around," says Coach Quackenbush.

Dale recognizes that his role on the team is more than scoring points. "Brian (Thompson) and Will (Njoku) are the best forwards in the league," explains Dale. "When they go off, I try to keep the intensity, play solid defense, give them a break if they are in foul trouble or need a little rest."

Dale, an economics student, finds this season a little different from his previous two with the team. "Where we are ranked so high, play is more intense because we want to maintain our ranking." He continues, "I try to keep the team image up because we are really in the public eye now. If I think someone is doing something wrong, I'll let them know."

Keeping spirits high, providing that little spark, fighting back against injury and watching over the image of the team; all points that make these unsung heroes true winners in every sense of the word.

Three students, one alumni chosen in soccer draft

Saint Mary's students George Kyreakakos, Nick Papadopoulos and Stephen Boyle, along with alumnus Neil Sedgwick were picked up in the January dispersion draft of the Canadian Soccer League after the Clippers bowed out of the league.

All four were chosen by the Nova Scotia Clippers in their inaugural season last year. Kyreakakos (Halifax) will go to the Hamilton Steelers, Papadopoulos (Saint John, NB) and Boyle (Dartmouth) will go to the London Lasers, who have re-entered the league after a year off, and Sedgwick (Sackville, NS) will go to the Montreal Supra.

Gifts to seven-year-old fan

Chris Flynn a superstar off the football field

In November, Bruce Hopkins in the department of Athletics and Recreation received a letter from a Truro couple who had something very special to say. Here are some excerpts from their letter.

You may recall that we contacted you last fall because of our seven-year-old son, Eric's interest in Saint Mary's football...When you learned of Eric's admiration for Chris Flynn, you sent along a team poster autographed by Chris...Shortly after receiving the poster, Eric wrote a note to Chris thanking him for the autograph and

wishing him luck.

In the early spring of 1991, while Chris was with the Montreal Machine, he sent Eric an autographed picture of himself. The fact that he kept Eric's address, even after he left Saint Mary's speaks volumes about the kind of man Chris is....Then last June, completely out of the blue, a parcel arrived for Eric from Montreal. Chris Flynn had mailed him the Barcelona game ball inscribed with a very warm message for Eric! (this was the only game that Chris Flynn played last season with the Montreal Machine). Eric was elated,

shocked and extremely appreciative of such a kind and thoughtful gesture by his hero.

Needless to say, Chris Flynn is Eric's role model, and what a wonderful person to aspire to...In closing, we simply wanted you to know what Chris has done for Eric. Chris Flynn has been a great ambassador for Saint Mary's University. We thank you for not just producing superstars, but super people and we hope that Saint Mary's stays a winner in the true sense of the word for many years to come.

Harry and Judy MacKenzie