

The TIMES

March, 1997 • Volume 26 • Number Five



Team Canada Trip Pays Off Big for Saint Mary's University



"When 500 Canadians get off a plane, you tend to be noticed," is how the Prime Minister of Canada, Jean Chrétien, described the impact of the January, 1997 Team Canada Trade

Mission to Korea, the Philippines and Thailand.

The Nova Scotia contingent lead by Premier, John Savage, included Dr. Kenneth Ozmon, President, Saint Mary's University and Denis Leclaire, Director, International Activities. The province generated \$20 million through a number of signing agreements, including one which is credited to an earlier Saint Mary's initiative.

The initiative produced a memorandum of understanding between Atlantic Combustion Products of Amherst and the Electricity Generating Authority of Thailand.

(left to right) Dr. Kenneth Ozmon, President, Saint Mary's University shows Nova Scotia Premier, John Savage and the Prime Minister of Canada, Jean Chrétien, the Team Huskies hats as part of the Team Canada Trade Mission to Korea, the Philippines and Thailand.

Once the test period is completed, the company plans to sell \$11.5 million worth of products to Thailand every year. Blake Daley, a partner in Atlantic Combustion, credits Saint Mary's Master of Business Administration students with providing the key to opening the door for at least \$8 million in business for his firm in Thailand.

The students analysed the license plate market in Thailand for the company two years ago. While that project did not flourish, a more lucrative contract was signed and it was one of the largest contracts initiated during the Team Canada visit.

"The visits generate a great deal of press, which in turn raises awareness, and, in my university's case, leads to very worthwhile contacts....as well as recruiting

students. Being able to say that one is part of the Prime Minister's delegation opens a lot of doors....," says Dr. Ozmon, about the importance and benefits of 'Team Huskies' participation in Team Canada.

The second part to the Saint Mary's contingent included Maureen Woodhouse, International Activities, who participated in a number of education fairs hosted by the regional Canadian Education Centres in Singapore, Jakarta, Bangkok and Kuala Lumpur. There is an incredible demand for tertiary education in a number of countries throughout Asia. Canada and Nova Scotia are particularly attractive because of the calibre of universities, the safety of our cities and a friendlier, inclusive culture. "Once prospective

continued on page 9



Dr. Ozmon is also pictured at the Assumption Suksa School, Bangkok with sister Roonnee Wanmee-Ngean and Alice Mansell, President, Nova Scotia College of Art and Design.

From Deserts to Blizzards – Omani Students Study In Canada



front (l-r) Faisal Al-Hajri, Salim Al-Mawali, (back l-r), Mohammed Al-Farsi, Sultan Al-Wahaibi, and Khalid Al-Farsi.

by Renee Field

Braving the cold winter over hot, arid days, five Omani students are slowly adjusting to both Canadian temperatures and way of life, while studying English at Saint Mary's University.

This marks the first time that the Sultanate of Oman has sent students to study abroad in Canada. For well over 20 years the government of Oman has traditionally sent students to study in the United States, the United Kingdom and other Arab countries. Saint Mary's and the University of Saskatchewan are the only universities in Canada to receive Omani students.

On the southeastern coast of the Arabian Peninsula, Oman borders Yemen and Saudi Arabia. With a population close to 2 million, the country is 300,000 square-kilometres, which is almost the size of Newfoundland and Labrador. The capital is Muscat and like many gulf countries, petroleum is the leading industry. Arabic is the official language and Islam is the main reli-

gion. Traditionally Oman has had a long-standing relationship with first the British and later the United States governments.

Today, Oman is on the fast track to modernization. However, the people still retain very close ties with their tribes, of which there are about 200, and their villages. Social services are free to Omanis and both sexes are encouraged to attend school. The hot, tropical climate makes it ideal for date, papaya and banana crops, but leaving those average temperatures of 35 Celsius can be a shock to the system.

Coming to Canada, "Yes, it was quite a shock," say the five 18-year-old men in unison. "When we first came in September, it was about 22 C and I was cold then, but you adjust. It's too bad the weather is so changeable though," says Salim Al-Mawali, in perfect English.

The spoken English language skills of the students are excellent, thanks to a strong oral tradition in Oman. Improving their English writing and comprehension skills is why the students are studying a one-year intensive English language course. They have also been granted conditional acceptance to Saint Mary's upon completion of their English language exam.

continued on page 11



(above) Chemistry professor receives international recognition for photography pg.2

Asthma and pollution - the link. A chemistry professor has designed an air particle pump to collect pollutantspg.4

Jesuit presence on campus - First Jesuit Chaplain on campus in 20 years pgs 6 & 7

Students Excel at Model UN Political Science Students get three Awards at Model UN pg.8

Volleyball Huskies - AUAA Champs! Women's Volleyball team remains undefeated going into CIAU's pg.12

INSIDE

Developing New Synthetic Drugs

by Renee Field

Synthetics are part of our life. We dress in synthetic fibers like polyester and nylon and take artificially-made drugs for colds and other illnesses. They have become so common that sometimes we take them for granted.

Long before synthetic products make it to the shelf, a lot of hard work begins in a laboratory. Using molecules, as building blocks, chemists start work using test tubes. "I'm trying to find new ways to make new drugs," says Dr. Robert Singer, 32, Chemistry Department, Saint Mary's University. In the past two years Dr. Singer has received almost \$100,000 from the petroleum industry and government agencies to research cheaper, faster and more selective molecules for the construction of synthetic compounds. Part of his funding comes from the Natural Science and Engineering Research Council of Canada in the amount of \$15,750 and the Petroleum Research Fund has provided him with \$34,000 for a two year grant. The funding has allowed him to hire six undergraduate students to work directly with him on his research projects.

Dr. Singer is working on two different projects which complement each other. One project involves the development of organometallic methodologies. Working with metal atoms, the smallest particles of matter that have characteristics of particular chemical elements, he is able to conduct reactions which are more selective while yielding higher returns of the end product. Specifically, Dr. Singer's research utilizes Zinc, an electron rich metal, to make new carbon-carbon bonds.

The process involves vacuuming the air and water from a specialized round glass bottom flask and replacing it using needles and syringes with inert gasses like argon and

nitrogen. The reactions are then carried out at low temperatures ranging from -30 to -78 degrees Celsius. The compounds are then purified and isolated at Saint Mary's, while the verification takes place at the Atlantic Regional Magnetic Resonance Centre, Dalhousie University. Verification ensures that the methodology was correct.

Going against conventional methods is a trait of Dr. Singer's. Instead of using traditional solvents like ether or water, he is working with ionic liquids, like a liquid salt, for his second project.

These compounds are chemically similar to table salt but, because they are low freezing liquids they can be used as solvents for reactions that can take place either at room temperature or as low as -90C. Traditionally, chemists use solvents like ether or water as their reaction mediums. The use

of ionic liquids means milder temperature conditions can be applied. "They appear to have novel solvent effects. I'm hoping that by using these ionic liquids as solvents, only one reaction pathway will occur, giving us the selectivity we're looking for," he says. Selectivity yields more of a specific compound.

"We want to demonstrate our methods by making compounds in the lab that otherwise occur in nature," says Dr. Singer. As an example he cites a compound like ASA, which is found in many pain relieving drugs. ASA is a derivative of a compound that exists in willow leaves. Chemists can now synthesize ASA in the lab without the aid of mother nature.

"Everything I'm doing here, I hope will make a big difference," he says. It certainly seems to be a big deal to pharmaceutical companies, who are interested in cheaper, more selective methodologies that can create synthetic products with potential pharmaceutical activity. ▽



Dr. Rob Singer at work in his Chemistry lab. Dr. Singer is interested in creating cheaper, faster, synthetic compounds and his work is receiving national recognition.

The Eye of the Beholder

From the laboratory to the great outdoors, a Saint Mary's University Chemistry professor receives international distinction for his photography.

Dr. Keith Vaughan, Chemistry Department, was recently awarded the fellowship distinction from the Color Photographic Association of Canada (FCPAC) and the distinction of Excellence de la Federation Internationale de l'Art Photographique (EFIP) from the International Federation for Photographic Art. Only about a dozen people in the world have been awarded an EFIP.

Twenty-four years ago when Dr. Vaughan decided to take up photography as a hobby he had no idea it would lead him to compete internationally. Today his work receives acclaim and recognition from both the public and his peers. His photography was displayed during the Faculty, Alumni, Staff and Student exhibition at the

University Art Gallery, and recently he presented a multi-projection show for the Chemistry Department.

"To me photography becomes art when you start being creative," he says. Part of creativity involves manipulating and double exposing photos. Asked what makes his photography different he says, "I guess I've always pushed it." Working mostly with land and seascapes, his photography has a surreal aspect and almost dream-like quality. His work would be how Alice from *Alice in Wonderland* would view the world through the looking glass — a world that is real, but which has been distorted, and redefined to look sharper and crisper.

Dr. Vaughan plays an active role in the photography community. In January, 1997 he was named by the International Federation of Photographic Art as Liaison Officer and will work with the two major Canadian photographic organizations. ▽

Let's play ball - Inuit style

What would happen if you were to take European cricket, North American baseball and combine them with Inuit customs? The answer is a game called "Anaulataq."

The word Anaulataq means to strike something. While there are similarities with baseball, the rules of the game vary dramatically. In many instances the rules differ from community to community.

Since 1992, both Dr. Michelle Daveluy and Professor Chris Fletcher, Anthropology Department, have been researching the origins and the cultural significance of this game.

"My hypothesis is that the historical origins of this game came from the English explorers, whalers and the Inuit themselves," says Prof. Fletcher. "Structures were created to form relationships and cricket was used to help create that friendly atmosphere." Over the years the game was transformed to incorporate a number of foreign influences, while maintaining Inuit customs of friendliness and openness.

Foreigners who visit the Inuit are often invited to play the game and there is a sense of belonging and confidence that you will fit in. However, that feeling does not last long, because the complexity of the rules make it almost impossible to follow. As researchers you think you understand a culture, but this game reveals the complexity of cultural issues and habits that as foreigners you think you can grasp. This is not an easy game to understand, says Dr. Daveluy.

"There is no chance that this game will die out," says Prof. Fletcher. Their research has revealed that the origins of the game evolved around the 1820's and that many communities have established their own rules and customs.

It is very hard to describe how to play Anaulataq, says Dr. Daveluy. A person does hit a ball, but the ball can go anywhere, which is very much like cricket. However, there is no limit to the number of players, which incorporates the Inuit custom of openness.

Originally both Dr. Daveluy and Prof. Fletcher went to work in Kangiqsujuk, Nunavik, about 1,700 kilometres north of Montreal, for Hydro Quebec. "I love the North, it's heaven. If you love the space and animals, it's everywhere," says Prof. Fletcher. In 1989 Prof. Fletcher spent four months in Nunavik gaining field experience and learning the complex language, while working on his Master's (he is currently working towards his PhD).

Currently, the professors are trying to create a documentary film that would detail how Anaulataq is played to show the social significance of the game. Children from a very young age learn to play and adapt to the different rules in each community. The professors are working with Kangiqsujuk community members including the director of recreation, the mayor, the mental health co-ordinator and the community council. They are hoping that funds will be available for the film. They are also trying to organize a game of Anaulataq on the Saint Mary's campus, by

bringing about six players from the North to the University. The goal is to increase awareness about the uniqueness of the game.

Dr. Daveluy and Prof. Fletcher helped to form the Arctic Research Committee (ARC) at Saint Mary's University. There are eight people from each faculty represented on the ARC. The goal is to increase student awareness about the people and way of life in the North. Already, through their efforts, the University has been able to tap into the resources of the Northern Scientific Training (NST) program. Available to fourth year undergraduate students, research money will pay for travel, lodging and food, while students conduct research in the North. Also, third year students will have the opportunity to prepare for the NST program that they will be qualified for next year, with a new half-credit Arctic course taught by Prof. Fletcher. ▽



Professor Chris Fletcher and Dr. Michelle Daveluy, Anthropology Department, are working on understanding the historical significance of a traditional Inuit game called "Anaulataq."

Saint Mary's University, Halifax, Nova Scotia

The TIMES



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

Telephone: (902) 420-5518
Fax: (902) 420-5511
E-mail: Chuck.Bridges@stmarys.ca
E-mail: R.Field@stmarys.ca
Internet: www.stmarys.ca

Director of Public Affairs:
Chuck Bridges
Editor: Renee Field
Sports: Virginia Jackson
Design: Ian Cauthery

AROUND *Campus*



Vietnamese Delegation Talks About Canadian Opportunities in Viet Nam

Her excellency Dinh Thi Minh Huyen, Ambassador of the Embassy of the Socialist Republic of Viet Nam in Canada (middle of photo) along with Ha Quang Doan, Commercial attaché to the Embassy presented a talk about business opportunities in Viet Nam for Canadian companies. Her Excellency is pictured with 10 student Vietnamese diplomats, who are studying intensive professional English on campus at the Teaching English As a Second Language Centre and three professors from the National Economics University in Hanoi, Viet Nam.



Saint Mary's Leads the Way with Largest Number of Graduating CA's

This year close to half of the graduating class of Nova Scotia students who passed their Chartered Accountancy exam were Saint Mary's University alumni. After graduating from Saint Mary's, the students have to complete 30 months of work experience and complete the exam before they receive their designation from the Chartered Accountant Institute. In Nova Scotia 38 students passed the exam and 17 are alumni from Saint Mary's. This is the biggest graduating class of CA's from the University and a sign of Saint Mary's commitment to business leadership.

(back left to right): Heather Keeler, Doane Raymond Ltd; Karyn Chabassol, Steele and Cleveland; Sandy Baxter, Doane Raymond Ltd; Cheryl Williams, Doane Raymond Ltd; Kendall Kent, Doane Raymond Ltd; Judy MacKay, Lyle Tilley Davidson; Mark Marshall, Price Water House; Steve Boyle, Ernst & Young; (front l-r): Troy MacDonald, White Burgess, Langille Inman; Kirby Rogers, Lyle Tilley Davidson; Phil Dickie, Deloitte & Touche Inc; Jennifer Ross, Ernst & Young; Chris Britton, Doane Raymond Ltd; Cheryl McMullin, Office of the Auditor General; Mark Boutilier, Doane Raymond Ltd. Missing from photo: Todd King, Deloitte & Touche Inc; and Kevin Copeland, KPMG, Halifax.



Quebec Liberals Want Canadians to Make Quebec Feel Welcomed

The federalist Quebec Liberal party is on a national campaign to get Canadians active and involved about the future of Quebec in Canada. "Quebecers don't feel welcome in Canada. They need a signal that they are a full-partner; with their identity and tradition," says Christos Sirros, President, Commission de l'économie et du travail, who spoke to a group of political science students at Saint Mary's University. He and Jean-Marc Fournier, Member for Chateauguay, stressed that Canadians must show the province of Quebec that they are truly welcomed as a distinct society in Canada. (l-r) Christos Sirros and Jean-Marc Fournier.



Irish Studies Lecture Series

As part of the 10th anniversary lecture series of the D'Arcy McGee Chair of Irish Studies at Saint Mary's, Dr. Francis J. Costello, Irish Historian and commentator of Irish Affairs spoke about "Michael Collins: A Vision for a Nation," on February 18, 1997 to a packed room in the Loyola building. Dr. Costello did his doctoral thesis on the Irish War of Independence and has published a biography on Terence MacSiney. (left to right) Dr. Cyril Bryne, Irish Studies Department, Dr. Francis Costello and Dr. Padraig O'Siadhail, Irish Studies Department.



Meet Canada's Latest Trading Partner — Chile

The road has been paved and it is now open for Nova Scotian businesses to begin importing and exporting with Chile, says Ron MacDonald, who talked about the newly formed free trade agreement between Canada and Chile. Pictured with Dr. Kenneth Ozmon, President, Saint Mary's University is Ron MacDonald, MP, Dartmouth and Parliamentary Secretary to the Minister of International Trade with Dr. Michael Larsen, Dean of Arts and guest speaker Leonard MacKenzie, SYNMAP International Ltd.

Shastri Institute members complete work at Saint Mary's

For the first time two members from the Shastri Institute in India spent four months working in the Commerce Faculty at Saint Mary's University. Pictured with Dr. Colin Dodds, Vice-President, Academic and Research is Dr. D. Rajasenan, who worked with Dr. Tony Charles, Finance and Management Science Department and Dr. K.K. George, who worked with Dr. Atul Dar, Economics Department next to Dr. Kenneth Ozmon, President, Saint Mary's University.



Mi'kmaq Leaders Talk About Their Future

As part of the Gorsebrook Seminar Series on Aboriginal Issues in Atlantic Canada; Mi'kmaq, Maliseet, Innu, Inuit, John Paul, Executive Director, Atlantic Policy Congress of First Nation Chiefs was the third invited speaker to talk about what the future holds for first nation people in Canada, on February 13, 1997.

Hold On to That Spoon

As part of the Continuing Education Teaching and Learning Series, Professor Roger Crowther, English Department, wore the other hat to talk about how to identify antique silverware. Prof. Crowther is well known within the University community for his knowledge of antiques. He is pictured here holding a Patrick Robertson Scottish spoon, 1780, valued at \$600.



AIDS Quilt

As of July, 1996, 5.8 million people have died due to AIDS, while another 21.8 million world-wide are living with the deadly disease. In Canada 10,242 people have died with AIDS. The Canadian Aids Memorial Quilt tries to humanize those growing statistics through the memorial quilt. Today more than 500 individual, three-foot by six-foot panels have been created in memory of someone who has died of AIDS. A piece of the quilt was on display in the University's Art Gallery for a one-day show on January 15, 1997.

Tracking Pollution

by Renee Field

For the past two decades the number of people with allergies and asthma has doubled, while at the same time pollution in the atmosphere has increased. Researchers are interested in determining what type of airborne pollutants are being dispersed into the environment and they are working to establish the link between those pollutants and environmental illnesses.

"Many people in my family are affected by allergies. All my youngest nieces and nephews are getting them. I'm very much interested in the environment, especially since the number of outbreaks of allergies in the last 20 years has increased tremendously. This directly relates to the amount of pollutants in the air," says Marc Lamoureux, Chemistry Department, Saint Mary's University.

Dr. Lamoureux received a Natural Sciences and Engineering Research Council of Canada (NSERC)

grant of \$24,000 for three years, to study airborne particles. His research called "Environmental Speciation of Metals and Pollutants Associated with Air Particulates," could change how people view the effects of pollution.

The importance of Dr. Lamoureux's work has not gone unnoticed. Recently he was awarded 18 shifts of beam-time, valued at \$32,000, at the Stanford Synchrotron Research Laboratory (SSRL), at Stanford University, California. The

SSRL is a multi-million research facility that has a particle accelerator which produces high-energy, polarized x-rays. There is no such facility in Canada, and it is an honor to be granted access to the equipment.

"It is interesting to see how the chemical nature of metal pollutants is affected by environmental conditions. Is the chemical composition dependent on the humidity, and sun light, and how does this affect particle size?" asks Dr. Lamoureux. Lead, chromium and selenium, are the three elements he is studying. These metals are common pollutants.

Using the SSRL, he was able to control the environment and his data reveals that temperature has a profound impact on the chemical nature of metals. There are more

particles distributed in the summer compared to winter.

Most people know that lead is deadly in high concentrations, but how is it distributed in its chemical form?

"Particle size that is lower than five microns (which is five one millionth of a metre) is in the air. Your respiratory system can't get rid of them. Fairly large concentrations of pollutants over time can build up and if you reach a particular level it can attack vital organs," says Dr. Lamoureux.

A portable pump collects air particles and helps Dr. Lamoureux determine what type of chemicals accumulate in specific

"Air movement has no boundaries, no passport or frontier and it keeps on going,"

— Dr. Lamoureux.



Pictured (back) left to right: Dr. Marc Lamoureux and Shawn Moulton, honors, Chemistry student (front) Melanie MacDermid, second year, double major, Alison Karst, second year double honors student and Dr. David Styris, Battle Pacific Northwest Laboratory at the SSRL facility in California.

areas. The pump could be placed alongside a highway and after a specific time, the chemicals could be analyzed to determine what type of metals are being accumulated. This could have a profound impact on farmers that might have either crops of livestock close to major highways. Analyzing the metals is time consuming and tedious work. Eventually, Dr. Lamoureux hopes to develop a smaller portable air particle collector that will be cheaper and easier to analyze.

The problem with airborne chemicals is that they can remain in the air for long periods of times and travel vast amounts of distances depending on the wind currents. With Nova Scotia affected by the north-east winds from the United States, chemical pollution is a reality. "Air movement has no boundaries, no passport or frontier and it keeps on going," emphasizes Dr.

Lamoureux.

The long-term goal of this research is to develop better models that can help explain and define how air control pollutants work. How specific metals are distributed in their chemical form is a major component of Dr. Lamoureux's research.

Note:

In January, 1997, three of Dr. Lamoureux's students travelled to the SSRL to use the synchrotron x-ray beam for seven days. The students worked 24 hours a day and were able to collect enough data to publish a couple of research papers. "Although the size of the facility and complexity of the instrumentation was initially overwhelming, pieces of the puzzle began to fall into place as the week went by. We were working in a state-of-the-art facility collecting data in an area that few, if any, before us had," they say. ▽

Working for the US Consulate General



Dr. Harold Ogden, Marketing Department and Richard Vinson, Commercial Representative, United States Consulate General, watch as Sheila Randall, a student intern accesses the national trade database.

The chance to work for the United States Consulate General is a golden opportunity for any student. Four Master of Business Administration (MBA) students at Saint Mary's University have benefited from this experience.

"This is quite an exciting program and it's very good for the student. They gain work experience and make contacts," says Dr. Harold Ogden, Marketing Department, who co-ordinates the program for the University. For the past five years, one student per semester has been selected to work for the Commercial Services Division, US Consulate General.

"They're really enthusiastic about developing a relationship with Saint Mary's and Dalhousie. It's a great learning experience. It was hard work, but you get things published," says Donna Whalen, 26, about her work term which she completed in

December 1996. Whalen, who received her Bachelor of Business Administration from the University College of Cape Breton, is completing her MBA at Saint Mary's in one year. Concentrating in marketing she realized the potential of gaining hands-on experience through this program. "I was really disappointed about seeing it end," she says.

Juggling a full university schedule, combined with at least one full day of work at the Commercial Services Division, students usually put in an additional 10 to 12 hours of research into projects on their own time. On average students complete seven to nine research projects as part of their work term, which are published in a national trade database.

There is no money in the budget to hire students, says Richard Vinson, Commercial Representative, United States Consulate General, but having access to talented students has helped his department deal with more work and less people. "This is very rewarding. It's interesting for students to see projects completed that are of interest to someone else," says Sheila Randall, 23, who is working for Vinson this semester.

The success of this experience has been tremendous. Whalen is positive that her education combined with her previous and current work experience are what helped her get a job with Imperial Oil as Territory Manager. They were impressed with her marketing research skills, published material and educational background. Whalen will assume her new position starting in September. ▽

Creating a map for Atlantic Canada

by Renee Field

A Saint Mary's University geographer is busy mapping roads, rivers, communities and shopping malls throughout Atlantic Canada.

Dr. Robert McCalla, Geography Department, published *The Maritime Provinces Atlas*, nine years ago. The success of that publication, which sold over 10,000 copies, has prompted him to work on a sequel. The original publication was geared for a junior high course, but both teachers and the general public bought the Atlas.

With new school curriculum, the updated Atlas will include all of Atlantic Canada. The new course called Atlantic Canada and the Global Community will focus on the relationship Atlantic Canada has with the rest of the world. Mapping another province is a huge undertaking, especially since Dr. McCalla goes out of his way to make the material relevant and interesting for the students.

"In what way does your school interact with the rest of the world? For example is your school involved with UNICEF, pen-pals, Earth day. I want to connect schools with some place in the world on a map and try to categorize the interaction," he says. Dr. McCalla has an honors student helping him work on this particular aspect to the Atlas. Martha Bostwick, a third year geography student, has mailed letters to a number of schools asking them specifically how their school relates to the rest of the world.

The information for the updated Atlas will be derived from the 1996 Canada census. Other interesting facts involve more work. Dr. McCalla plans to map music throughout Atlantic Canada. "Music is part of our identity and economy more so and more so," he says. This involves tracking entertainers and finding out where they were born. He also plans to map places in relation to how far they are from each other over time and years. This will provide the students with a sense of scale. For example, how long does it take to travel by airplane from Halifax to Yarmouth, NS, compared to how long such a journey would have taken by train or horse-drawn wagon in the past. Many interesting tidbits from the previous Atlas will still exist, such as prominent surnames which readers really enjoyed.

In September 1997, the new course will be taught as a pilot project in some schools throughout Atlantic Canada. The textbook for the course will be published separately from the resource book this year.

The original publication of the Atlas took a team of four, two years to complete. The updated version is expected to take one year, once the data are compiled. Today, with the computer programs available to geographers, designing maps for publication is easier and in many instances more detail can be added. Dr. McCalla believes that the updated Atlas will be available by 1998, one year after the publication of the course material. ▽

Rewriting History

by Renee Field

Correcting a misconception in the history books is a difficult task because text books are slow to change as is public perception concerning historical figures.

Take Sir William Phips for example. Governor of Massachusetts from 1692-1695, he has always been characterized as short-tempered, unpredictable, foul-mouthed and rude. Now because of a collaborative study undertaken by a Canadian and a United States historian, that description could soon be wiped clean from the books.

"He is very much a misunderstood character," says Dr. John Reid, History Department, Saint Mary's University, who joined forces with Dr. Emerson Baker, History Department, Salem State College, Massachusetts.

Dr. Reid, whose primary research interest is in Northeastern North

America in the 17th century always wondered about Phips' historical role in the attack of Acadia in 1690. Likewise, Dr. Baker was very much interested in Phips' New England roots. Relying on archival material in the US, Canada and London they began to piece together his unusual life.

Phips grew up with a very basic frontier existence. Much of his childhood was spent in the accompaniment of the Abenaki natives. He became a ship's carpenter in Boston, where he married a widow, and around 1680 he became a small-scale merchant captain. At this time the interest in sunken treasure was an active part of marine life. Phips completed a number of unsuccessful ventures in the search of treasure off the Caribbean and finally hit pay dirt in 1687.

He discovered a sunken Spanish vessel containing about 200,000 pounds of gold and silver off the Dominica Republic. While a lot of money ended up in the hands of his financial backers, he retained enough to live the good life. He was also knighted for his endeavors by King James II of England, who was actively securing cash for his treasury.

The knighthood enabled Phips to return to New England with status. He received command of the military and launched an attack on Acadia, in 1690. While he succeeded in capturing Acadia, his sights were set on Quebec. In the end he left Acadia without a garrison and lost 35 vessels off Quebec. Recently one of his vessels was discovered off the coast of Quebec.

The catastrophe forced Phips to defend himself in London, where he was involved in the negotiations for the charter of Massachusetts that were taking place in England. In 1692 he became governor of Massachusetts. Historically he is known for stopping the Salem witchcraft trials.

"What surprised us was that Phips' family was not as obscure in England as in New

England, secondly, that he was personally so close to the Salem witchcraft trials, thirdly, he demonstrated an unusual recognition for the need to establish a negotiated relationship between the English and the Abenaki," says Dr. Reid.

At the time of the witchcraft trials, his wife presided over a multi-racial household. This was seen as very unusual at the time and she was accused of witchcraft, but never



Sir William Phips is the first American to be knighted by the King of England. Two historians are out to change how the history books portray this lively character.

brought to trial. Phips himself was almost accused. The history books shrug this off, but in truth, "they were excellent candidates," says Dr. Reid. Originally, Phips tried to stay out of the trials, but the moment he realized things were heading his way he put an end to the trials by commuting death sentences. He was also able to rely on a few allies within the Church, who supported his efforts. However, Phips' political enemies wanted him out of power.

"There has been very little scholarly interest in Phips in over 60 years, yet I find a great deal of public fascination with him. His treasure hunting and role in the Salem witch trials assure him a certain amount of interest, while others want to know how he became the first man born in America to be knighted by the king of England," says Dr. Emerson.

"Phips has been seen by historians as a boor, someone who got into fist fights, and at best had no formal education. He was uneducated, rude and an upstart. Traditionally they've been condescending in their attitude. While he is not necessarily likable, he is interesting," says Dr. Reid. In many instances Phips used language that revealed his class background to the common people who were on the docks, which was where he spent much of his time.

Historians also claimed he was a violent man. "We looked at all the evidence and counted three times violence was used." Once when there was a mutiny on one of his ships he seized a weapon and charged an individual, secondly, he was accused of torturing a person at Port Royal in the hopes of discovering a cash box, and thirdly, he caned a naval captain on the wharves. In each of these incidents the historians argue Phips knew exactly what he was doing and was very much in charge of the situation and his character. However, Phips' enemies used charges of violence and forced him to return to London, once again, to defend his character. In London, he contracted a fever and died unexpectedly.

It was extremely rare for an individual with Phips' upbringing and heritage to assume a leading position in colonial society. Both historians feel that previous authors have been too quick to judge his character. After five years of research, they compiled a book, available next year, which they hope will correct some of the historical injustice. ▽

Greenhouse Gas Emissions Are Up

Greenhouse gas emissions are not decreasing and there is no way Canada will stabilize its carbon dioxide emissions at 1990 levels by the year 2000, says one Saint Mary's University professor.

Dr. Larry Hughes, Mathematics and Computing Science Department, is a soft-spoken, quiet individual, who is angry with both the Canadian government and public. "If you can see what's going wrong and truths that aren't being told, you have a responsibility to raise the flag," he says. That is exactly what he hopes to achieve.

Environmental issues deeply concern Dr. Hughes and for almost a decade he has made it a point to follow Canadian government policy relating to climate change. In 1988, a major atmospheric conference was held in Toronto and the Canadian government pledged to reduce carbon dioxide emissions to 80 per cent of 1988 levels by the year 2005. However, by 1990 the government realized that goal was impossible, so they launched the world's first Green Plan. At the 1992 Rio conference, the government agreed to stabilize greenhouse gas emissions at 1990 levels by the year 2000. "Again this is still not going to happen," says Dr. Hughes, who co-authored a report with Sandy Scott called "Canadian Greenhouse Gas Emissions: 1990-2000," in *Energy Conversation Management*, Volume 38, no. 3.

The report, based upon National Energy Board data shows that with present government policy, stabilization of emissions is impossible. In fact by the year 2000 the net growth of emissions is projected to be over 18 per cent. "To achieve stabilization, you must have short, medium and long-term goals," says Dr. Hughes. Short term goals could be reached through simple, common sense changes, such as using compact fluorescent bulbs, turning lights off, turning down furnaces and car pooling.

"Canada is blessed (although some would say cursed) with abundant sources of cheap energy — there is no incentive to reduce our energy consumption," says Dr. Hughes. Countries, such as Denmark, with limited fuel sources are forced to conserve energy. For example, when generating electricity, the 'waste' heat is used to heat homes through a technique called co-generation. While the Canadian government has expressed interest in this concept as of yet not a lot of work has been done to promote this concept.

Climate change seems to have disappeared from both the public and government agenda. While the commitment to lower the debt receives much attention as benefiting all Canadians, the need to reduce greenhouse emissions some could say was a passing fancy. ▽



(Bottom to top) Karen Lee, second year MBA student, John A. Mahoney, second year MBA student, Dr. Cathy Driscoll, Management Department, Paul E. Cugno, second year MBA student, Dr. Ashwin Joshi, Marketing Department and Lewis K. Page, second year MBA student all participated in the Concordia MBA case competition.

Saint Mary's Master of Business Administration (MBA) students are into the swing of competitions. They recently finished two competitions organized by the University of Western Ontario and Queen's University, Ontario.

In January a team of 35 MBA students travelled to the Ivey School of Business at Western University to compete for the Queen's Cup. This is the seventh year of competition and the Saint Mary's team came in first place.

"There was more enthusiasm this year and we did better in every event," says Devlin Hinchey, 25, a second year MBA student, who participated in last year's event.

The Queen's Cup is divided into business simulations, athletic events, social activities and school performances. Over 500 students from 14 schools participated in the event.

The Saint Mary's team raised over \$1,500 for the Abilities Foundation and Canadian Lung Association. The team began to organize events this past summer, almost six months before the game. ▽

Concordia MBA Competition:

Four students represented the University in the Concordia MBA International Case Competition and placed second for total points.

MBA students Paul Cugno, Karen Lee, John Mahoney and Lewis Page were coached by Dr. Cathy Driscoll, Management Department and Dr. Ashwin Joshi, Marketing Department.

Saint Mary's defeated the University of Massachusetts 10-1, Concordia University 8-3, University of Windsor, 7-4, and Dalhousie University 8-3. They were defeated by Wilfrid Laurier 7-4. The team made it to the semi-finals but was later defeated by the University of Western Ontario. Western went on to win the competition.

This is the 16th year of the Concordia Case Competition. This year the international competition hosted 30 teams with about 120 of the top MBA students from around the world and 250 senior executives from Canada and the United States. ▽

Jesuit Presence

by Renee Field

For the first time in almost two decades Saint Mary's University's Chaplaincy Services has a member of the Jesuit Order serving the University community.

"I believe in helping people become aware of who they are," says Father John Gahan, S.J., 38, in his quiet soothing voice. Dressed in blue jeans and a checkered flannel shirt, many people on campus might be unaware of his presence.

"People read the (clerical suit) differently and there is a distance created there. The comfort level is more formal and I don't feel at ease. The suit voices power," he says.

Arriving in September 1996, Father Gahan slowly adjusted to the needs of his new constituents. He is amazed at the number of students, both men and women, who continually make their way into his office. His easy going relaxed manner is an asset, but equally important is his own experience as a student.

Father Gahan's first passion was Anthropology and he completed his Bachelor of Arts at York University, Ontario. He later worked as an archeologist for three years with the Ontario government.

"I used to ask where is my life going and what does it all mean. I had everything but was not satisfied. I finally identified a spiritual need — that was the missing piece," he says. Archeology answered the question how, and studying Catholicism has helped him with the why.

A lot of soul searching went on before Father Gahan decided to join the Jesuit Order. Brought up in a small town outside of Ottawa with a Catholic family tradition, deciding to join the Jesuit Order was not favorable to his parents. Today, they see that he made the correct choice and fully support their son.

For Father Gahan the Jesuit Order answered his spiritual needs. Today there are about 23,000 Jesuits in the world, and 530 are in Canada, and on average four young men enter the Order each year in Canada. Becoming a Jesuit is a life-long process. Part of that process for Father Gahan involved studying philosophy for two years, and a regency training period. For his regency training, he taught high school in Winnipeg and in St. John's, Newfoundland for one year and then served as a chaplain at the Toronto Hospital, in Ontario. In May 1996, after 11 years, he was ordained as a Jesuit priest.

Working with students means a lot to him. "I can relate to students. In the University community, the students have friends and classes and they seem like everything is fine. Under the surface, there is fear about employment, career, student loans and if they are ever going to meet the right person," he says. Most of his time is spent listening to students while he tries to determine how he can best help. "I'm interested in formation and how people are formed. I see God in every aspect of life," he says.

"I hope that people will see the Priest as not set apart, but as one aspect of the Church, working not on a pedestal," says Father Gahan.

Religion Holds No B...

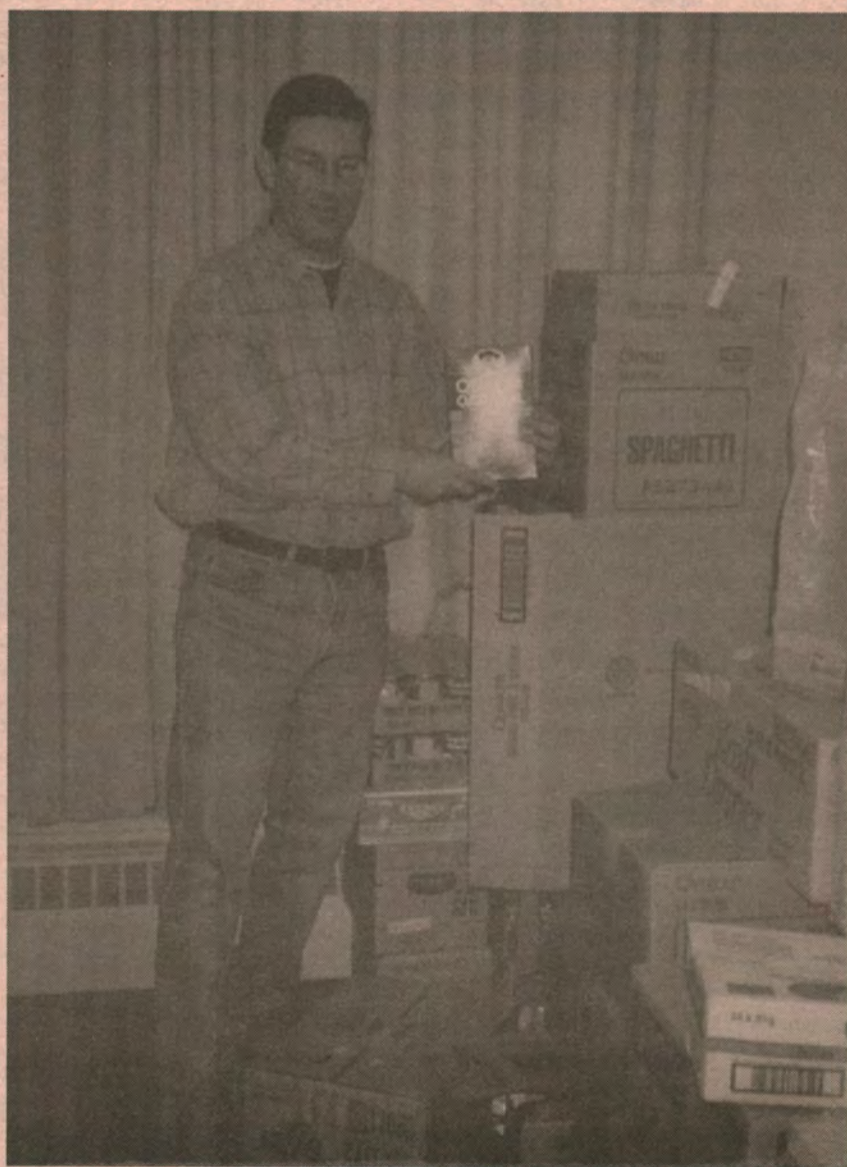
The University's Chaplaincy Services is an office that is always open. There are a number of services offered that respond to the growing need of the community. The Food Bank is one example, along with opening the chapel to...

University Food Bank

Pictured next to boxes of canned goods is Father Gahan on the second floor of the Loyola residence which is home to the University's Food Bank. The number of people needing the services of the Food Bank has doubled since the Fall. Recently the residence students donated \$250 from a bottle drive they organized for the Food Bank. The Alumni Association also donated all canned goods, filling two huge boxes, from their Alumni Skating program to the Food Bank. "People have been really generous," says Father Gahan.

Openin...

Besides providing a place for the University's Chapel, Father Gahan is also looking for other nominations. Last term the University saw all the students of Arts and Science and men, used the community also uses the Buddhist. When looking for the future...



Taking stock of the Food Bank inventory is Father John Gahan.

Felt on Campus

ounds

to students, staff and faculty. There
s of a diverse University communi-
her nominations.

the Chapel to other religions

ing Roman Catholic Mass on Sundays at Canadian Martyr's Church and daily Mass in the
er Gahan, recognizes the growing diversity of the student population. He actively encourages
s to use the Chapel, as a place for prayer meetings or quiet reflection.

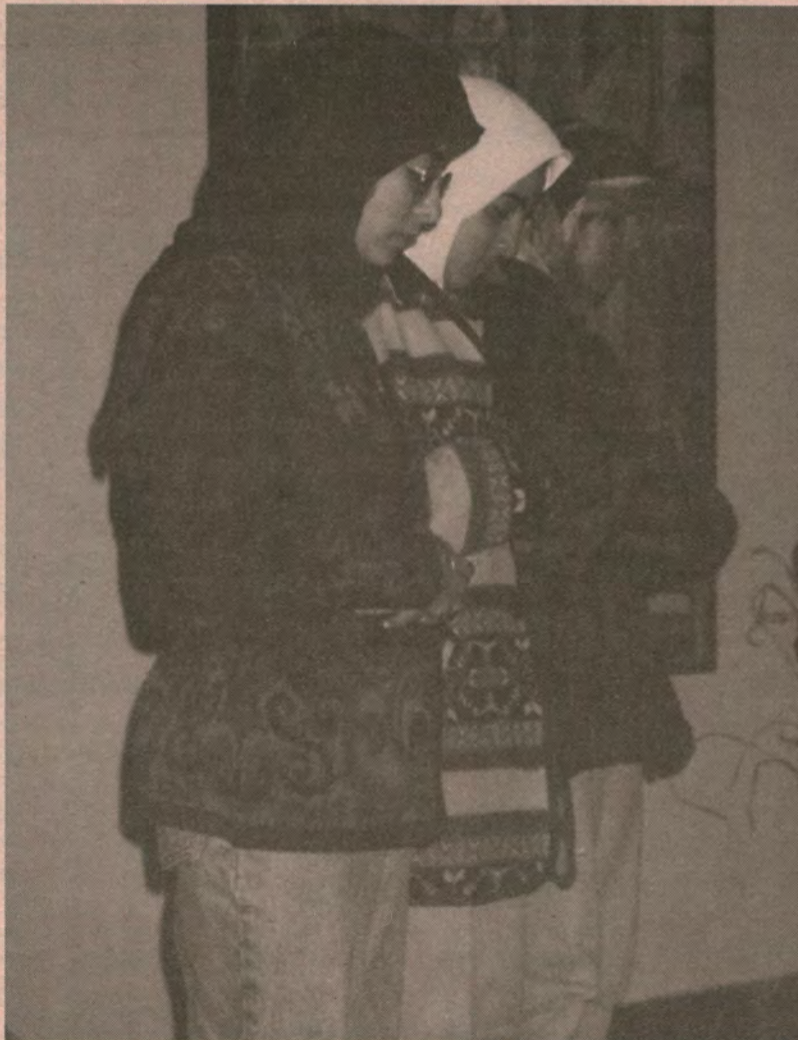
Islamic Student Association used the Chapel for Friday afternoon prayer services. "It's nice to
s together to pray," says Abdul Mujeeb Samad, a fourth year student enrolled in the Bachelor
ce programs, who led the Friday prayer service. About 16 students made up of a mix of women
e Chapel as a place to pray to Allah, the Arabic term for God. The Greek Orthodox commu-
e Chapel for Sunday Mass. "I've had really nice meetings with the Muslims, Hindus, and
you meet people there is a lot in common. There's a lot of room to collaborate and that's excit-
," says Father Gahan.



(above) Pictured praying is
Faisal Samad, a first year
Commerce student and



MacDonald, a second year residence assistant, Rice residence, is pictured with
John Gahan donating a \$250 cheque on behalf of all RA's to the University's
bank.



(left) standing (left to right)
is Sumayah Mughal, fourth
year Bachelor of Science
student, Rania Ghaly, first
year BSc student at
Dalhousie University and
Khadija Cajee, a second
year Commerce student.

Programs

Last semester a group of seven students went with Father Gahan on a retreat
to Monastery, Nova Scotia. The purpose was to provide the students with a
place for quiet, reflective time where they could assess God's role in their lives.

Scholarly & Professional Development

ACADEMIC AND RESEARCH

Dr. Colin Dodds, Vice-President, Academic and Research, published *Cross-Border Capital Flows: Corporate Governance and Developing Financial Systems in the Asia-Pacific Region*, as Chapter Nine, in *Euro-Pacific Investment and Trade: Strategies and Structural Interdependencies*. He also wrote the forward to the volume.

ASTRONOMY AND PHYSICS

Dr. Malcolm Butler, Astronomy and Physics Department, was elected to a two year appointment as chair, Physics and Astronomy Committee, Atlantic Provinces Council on the Sciences (APICS). The committee works to help improve physics and astronomy education at all levels, and Dr. Butler will co-ordinate a lecture tour in Atlantic Canada each year, targeted at undergraduates, and he will also organize an undergraduate conference each year.

Dr. William Lonc, Professor Emeritus, has been serving as resource person for the past few months in assisting the Astronomy and Physics Department, University of Pittsburgh, to construct a radio telescope for undergraduate use. The University of Pittsburgh system came to successful completion within the past few weeks, and students are already using it for a variety of projects in observational radio astronomy. The design of their system is based on several telescopes that Dr. Lonc, and his colleague Bob Schultz, a retired electronics technician from Defence Research Establishment Atlantic, built. The system has proved so popular with the Pittsburgh department that they are now in the process of constructing a duplicate instrument.

Dr. Michael West has been invited to serve on the time allocation committee of the

Canada-France-Hawaii Telescope, which is located in Hawaii. This committee is charged with reviewing the 100 and more applications which request observing time on the telescope each year. Dr. West also gave an invited talk titled "Dark Matter: More Than Meets the Eye," at the Atlantic Undergraduate Physics and Astronomy Conference, hosted at Saint Mary's, February 7-9, 1997. This annual conference brings together undergraduate Physics and Astronomy students from the four Atlantic provinces.

ECONOMICS DEPARTMENT

Dr. Andrew Harvey, Economics Department, was elected president, International Association for Time-Use Research, at their annual meeting in Vienna, September, 1996. In August, 1996, the Time-Use Research project received funding by the Netherlands Ministry of Transport to undertake a study of the 24-hour society.

ENGLISH DEPARTMENT

Dr. Christine Cornell, English Department, presented an illustrated lecture drawing on her research on the figure of the royal mistress in Renaissance English culture. The talk, called "Wilful, Wise, and Wanton: The Royal Mistress in English Renaissance Paintings and Literature," was given February 19, 1997, Loyola building.

MATHEMATICS AND COMPUTER SCIENCE DEPARTMENT

Dr. Larry Hughes, Mathematics and Computer Science Department, published a paper, "Canadian Greenhouse Gas Emissions: 1990-2000," in *Energy Conversion and Management*, volume 38, no. 3, pp. 217-224. (See story page 5.) Dr. Hughes also published a text book called *Introduction to Data Communications: A*

Practical Approach, Jones and Bartlett Publishers, Massachusetts, 1997.

MODERN LANGUAGES AND CLASSICS DEPARTMENT

Dr. Paul Bernard, Modern Languages and Classics Department, compiled and edited "Actes du 19 congrès annuel de l'Association canadienne des professeurs d'immersion," with Irène Bernard, St. Francis Xavier, "Le Journal de l'Immersion," vol. 20, no.1, November, 1996. Dr. Bernard provided the introduction and the transcriptions of plenary speeches given by Robert Scully, Dr. André Obadia and Dr. Neil Boucher.

SOCIOLOGY

Dr. Gene Barrett, Sociology Department, organized and implemented an Environmental Linkage Project between Saint Mary's and Rockingham school. The project is designed to enhance community-school ties through environmental education curriculum development and community focused research on the local watershed.

Dr. Ronald Cospser contributed entries for Polci and Hausa, two Chadic languages of Nigeria, to *Intercontinental Dictionary Series*, a computer stored data base, Mary Ritchie Kay (editor), University of California, Los Angeles.

Dr. Linda Christiansen-Ruffman participated in the 20th anniversary celebrations of the Canadian Research Institute for the Advancement of Women in Ottawa, as presenter and participant at its colloquium. She also authored "CRIAW: A Research Institute Without Walls: A Remedy for Knowledge Without Women," and co-authored "Recreating CRIAW/ICREF's Herstory Together: The Generation of Feminist Changes," in *Feminist Voices, Memories and Visions: Celebrating 20 years of Feminist Research with CRIAW/ICREF 1976-1996*. She also co-authored (with Pat Baker and Ann Manicom) "Creating Feminist Spaces in University," *Graduate Women's Studies: Visions and Realities*, Ann Shteir (ed), New

York: Inanna. Dr. Christiansen-Ruffman also participated in the executive meeting of the International Sociological Association in Colima, Mexico, November, 1996.

Dr. Helen Ralston authored *The Lived Experience of South Asian Women in Atlantic Canada: The Interconnections of Race, Class and Gender*, Edwin Mellen Press, 1996. She also authored "Race, Class, Gender and Work Experience of South Asian Immigrant Women in Atlantic Canada," in Wendy Mitchinson et.al. (eds) *Canadian Women: A Reader*, Toronto: Harcourt Brace and Co., 1996. She presented "Crossing the Black Water: Alienation and Identity Among South Asian Immigrant Women," at the University of Joensuu ISA RC36 conference, Cultural Meanings and Alienation, Ylöjärvi, Finland, July, 1996; "Passage from India: The Reality of Women's Lives in Canada," at the National Symposium on Immigration and Integration: New Challenges, University of Manitoba, October 1996 and participated in a working group on Access and Equality at Metropolis: An International Forum for Research and Policy on Migration and Cities in Milan, Italy, November 1996. Dr. Ralston was the only Atlantic Canadian representative invited to the Milan conference.

Dr. Evi Tastsoglou delivered a paper "Immigrant Women and the Social Construction of Ethnicity," at the National Symposium on Immigration and Integration, University of Manitoba, October 25-17, 1996. Dr. Tastsoglou also prepared course material for "Gender, Ethnicity and Migration" (SOC 481.0) which will appear in the *Gender, Race and Class in Sociology: Toward an Inclusive Curriculum*, American Sociological Association, 1997.

Dr. Madine VanderPlaat presented a paper on "Critical Evaluation," with Dr. Deborah Castle, to the Canadian Evaluation Society—Nova Scotia, Halifax, October 1996. ▽

MAKING THE NEWS

Dr. Elissa Asp, English Department, spoke with CBC reporter Kendra Black for New Brunswick's Information Morning radio show on Palindromes, words that are read the same backwards and forwards, on January 25, 1997.

Dr. Victor Catano, Psychology Department, spoke with ATV about the general attitude of hockey fans and their tolerance of fighting on the ice, on January 23, 1997.

Dr. J. Colin Dodds, Vice-President, Academic and Research, spoke with CBC TV about university funding and the concerns of inequality in the existing funding formula, on January 23, 1997.

Dr. Edna Keeble, Political Science Department, spoke with CBC Radio; Maritime Noon and Information Morning, about keeping your children safe and the role of women in the military, on January 14, 1997.

David Lane, Technician, Astronomy and Physics Department and Shawn Mitchell, Astronomy and Physics Department, assisted King's College journalism students with the taping of Halifax Cable's 'Halifax This Week,' concerning asteroid and comet impacts, on February 13, 1997. Lane also

spoke with Country 101 concerning the comet Hale-Bopp which will be at its brightest by the end of March, on February 18, 1997. Lane also did his monthly star gazing series for CBC's radio Information Morning show at the beginning of February.

Dr. Harvey Millar, Finance and Management Science Department, spoke with Ron Chamard, Information AM, about Black history month, on January 31, 1997.

Dr. Kenneth Ozmon, President, Saint Mary's University, spoke with ATV about why and how universities are joining the ranks of aggressive marketing, locally, regionally and internationally, on February 4, 1997.

Dr. Leonard Preyra, Political Science Department, spoke with MITV about Alexa McDonough, NDP leader's, selection of the Halifax-West riding, on January 10, 1997. Dr. Preyra also held a model parliament at Province House on February 20, 1997 and spoke with *The Halifax Herald's* reporter Dale Midill and a reporter with ATV.

Dr. Rob Singer, Chemistry Department, spoke with ATV about the dangers of barbecue propane tank fumes, on January 7, 1997.

Dr. Bill Stiles, Biology Department, and several Biology students worked with ATV to show where common, everyday germs live in public places and how they can be avoided, February 19-21, 1997. ▽

EMBA Students Discover the Fine Art of Business Dining



Close to 24 Executive Master of Business Students and alumni from Saint Mary's had the chance to learn first-hand the importance of dealing with foreign business executive, as part of the EMBA excursion to China in January, 1996.

The students took part in a trade mission to Zhuhai, China, Hong Kong and Macao, an independent city on the southern side of China. "It is interesting to note that something as natural as eating takes on a new significance when you travel. If you have not experienced eating peanuts with chop sticks, you do not know what challenges you are missing," says Willy Robinson, an EMBA '96 alumni who participated in the trade mission.

All the participants in the Class of 1997's International Marketing trade mis-

sion were fascinated by the food. The tour guide who led the orientation on the first day of the 10 day trade mission stated that the Chinese eat everything that flies, except planes. While birds became a familiar sight on the menu, she did not mention that the Chinese also eat things that crawl. In Zhuhai, an economic zone in China, some adventurous participants had the pleasure of eating snake and sea worm soup. While the ingredients were a culture shock to the participants, the food was delicious.

From a business perspective, the trade mission resulted in excellent contacts being made and relationships being forged. From a personal perspective, everyone learned a great deal about adjusting to other cultures. ▽

Astronomers and Physicists Take Over Campus

The first annual Atlantic Undergraduate Physics and Astronomy Conference was a huge success with 120 students participating in the three day seminar, which was hosted by Saint Mary's University, on February 7-9, 1997.

Students came from all four Atlantic provinces to give presentations and to hear leading physicists and astronomers like Dr. Paul Corkum, National Research Council of Canada; Dr. Jeff Dahn, Dalhousie University; Dr. Joel Tohline, Louisiana State University and Dr. Michael West,



Getting ready to present is Philip Mak, in his final year of Math and Computing Science. He gave a talk on black body microwave emission, to about 100 people on day two of the conference. Dr. William Lonc, Professor Emeritus, Astronomy and Physics Department, helped him prepare for his presentation.

Saint Mary's University.

"It's a great privilege and honor to be invited here tonight. This is the first time Astronomy was included in this conference and it's the largest yet," says the Honorable Gerald O'Malley, Nova Scotia Minister, Technology and Science. O'Malley went on to say that Nova Scotia is the first province in Canada that has exclusively designated a ministry to the pursuit of science and technology. He encouraged the students to continue with the study of science.

Dr. Corkum, Program Leader, Steacie Institute for Molecular Sciences, National Research Council of Canada, gave a detailed talk on femtosecond science. Femtosecond lasers produce extremely high powered energy pulses. "There is nothing so convenient and so fast," he says. His talk highlighted how the pulses produce enormous amounts of energy in very short time frames. "The only problem is that there is not much energy over long periods," he says. He also touched on the future potential for femtosecond science, saying it could one day be used in dentistry and in the medical profession.

For a conference of this magnitude to work smoothly, a lot of hard work has to take place months in advance. Cindy Freeman, Alyson Bailey and Mike Seymour, all students juggling full course



Opening night of the first annual Atlantic Undergraduate Physics and Astronomy Conference had a few people nervous, but not the three student organizers. (left to right): Student organizer Cindy Freeman, Honorable Gerald O'Malley, Nova Scotia Minister, Technology and Science, Dr. Paul Corkum, National Research Council of Canada, Dr. Kenneth Ozmon, President, Saint Mary's University, Alyson Bailey and Mike Seymour.

loads, made up the organizing committee. They began planning the conference in September, 1996.

"It was a great opportunity for peers in the fields of Physics and Astronomy to get together and I am glad that I was given the chance to be a part of it. I think the entire organizing committee would agree that all the time and hard work that went into the planning of the conference, was well worth it, especially when you can look back on it and smile," says Freeman. Arranging the logistics and schedule for the speakers played a key part to the success of the conference.

One professor came all the way from the deep south — Dr. Joel Tohline, Chair, Department of Physics and Astronomy,

Louisiana State University. He was thrilled to have the chance to speak at the conference and pleased with the opportunity to meet fellow Acadians in the province.

Dr. Tohline talked about the formation and destruction of binary stars. "Over 80 per cent of stars in our galaxy exist in binary formation," he says. However, understanding how nature creates binary stars in another matter. With the use of new technology, astronomers are hoping to closely monitor specific stars to determine how they are formed.

The undergraduate conference provided the students with the chance to mix and mingle with other Atlantic students and the opportunity to meet internationally recognized professors. ▽

Students Receive Three Awards at Model UN



This year Saint Mary's walked away with three awards from the Model UN held in Boston. (Back, left to right) Colin Dodds, Tyson Johnson, James Dodds, Eddie Urquhart, Nick Farr (middle) Mary Naugler, Kelly Boutillier, Janice Hopkirk, Angela DeNicola, Halcian Joseph, Jeff Kelly, Jeff Murphy, Calista Rajasingham (front) Emily Wong, Glenn Bonvie, Michelle Thompson, Meghan Caaney and Sharon Daley.

Nineteen political science students participated in the Harvard National Model United Nations held in Massachusetts, February, 1997. The students received three awards — the best the University has ever done at this international competition.

This is the fourth consecutive year the University has sent a delegation to compete in the event. Every year about 2,000 students from 200 universities across North America and parts of Europe, Asia and Latin America meet to try and solve some of the world's most pressing problems. The Saint Mary's students represented Zimbabwe this year.

There's a particular challenge there, especially sub-Saharan Africa, which is one of the poorest regions in the world. The students had to see the world from a very different perspective, says Dr. Ronald Colman, Political Science Department, and co-ordinator of the second year course which prepares students for the Model UN.

The students had an opportunity to meet Ambassador Mapuranga, Permanent Representative of Zimbabwe to the UN in November, 1996. The Ambassador attended an International Peacekeeping Training Centre at Cornwallis, Nova Scotia, and the students had the opportunity to ask ques-

tions concerning how best to represent his country and to find out how the process works. For many it was an eye-opener.

"The major learning experience that the students learn is the frustration of how difficult it is for the UN to actually do something," says Dr. Coleman. "The students were extremely well prepared. They did a lot of research, practiced writing reports, and re-drafts and they were very confident when they were there. They won a lot of respect from the other delegates."

For Calista Rajasingham, 26, a fourth year Bachelor of Arts transfer student from Kansas University this course was a great opportunity. Rajasingham, received a distinguished effort award for her committee work on the Human Rights Commission. She fought for four days to have an arms embargo imposed on Nigeria which would put pressure on the Nigerian militia. In the end many countries blocked her. "I was surprised to get the award. It was very mentally exhausting. I'd have to say I was pretty disappointed about the human right issues. There was a lot of bureaucracy," she says.

Janice Hopkirk and Angela DeNicola each received best delegate awards for their work on the Status of Women Commission concerning reproductive health.

Having a university walk away with three awards means the students were very well prepared. The other delegates who participated in the Model UN are now keenly aware of the Saint Mary's presence for future years. ▽

continued from page 1

Team Canda trip pays off big...

students realize that the winter does not last six months, they are impressed with the location, reputation and breadth of programs available at Saint Mary's," says Leclaire.

In addition to a highly successful alumni function in Singapore hosted by Dr. T. C. Cheung (Honorary Doctor of Commerce, May 1993) and attended by nearly 100 people, University representatives met with government, high school and university officials in Bangkok, Singapore and several other countries which have expressed interest in sending students for undergraduate degrees and others for specialized training.

Already several requests for costs and course outlines are being handled by International Activities and the Admissions Department. ▽

MBA Students Work as Interns for WTCC

For the second year, Saint Mary's Master of Business Administration (MBA) students are gaining valuable on-the-job training working as interns for the World Trade and Convention Centre (WTCC) as part of their course material.

In total, five Saint Mary's students and 11 students from Dalhousie University, make up the internship program. Last semester, four students from Saint Mary's made up the team and currently one student, Changming Wang, is working at the WTCC. The students receive half a credit for their internship.

"It was a direct study course where you work in the WTCC and work with clients," says Randal Blackwood, 22, a second year MBA student, who participated in the program last term. He and Maja Olejarova, also a second year MBA student, found clients for manufactured housing and distributors for Seagull Pewter through the Canadian embassies in Europe. The manufactured housing project was straightforward, but they ran into a number of obstacles, including lack of access to a fax machine for the Seagull Pewter project.

After contacting a number of Canadian embassies in Western Europe to see if they could find clients interested in Seagull Pewter they realized that either the company was already distributing its product to a number of countries or that the market was saturated. "We only had two marginal responses from Western Europe and finally we had to tell them that we were not getting a response, so they changed the project from Seagull Pewter to the giftware industry in Canada," says Blackwood.

It was a completely different story concerning the manufactured housing project. Realizing that manufactured housing, such as pre-fabs, would probably have a market in Eastern Europe, Blackwood and Olejarova contacted the Canadian embassies in areas like the Czech Republic. The students hit pay dirt, when they stumbled across a Czech Republic mission, interested in housing that would be travelling to Nova Scotia.

"It wasn't all talent, part of it was luck, which is 50 per cent of it they tell me," says Blackwood. In the end, 13 companies were interested in the pre-fab housing industry and wanted more information. By the beginning of November that project was completed and the success showed the students that anything can happen in the export industry.

"We pick our best students for this project and they must have an interest in market research and some international business," says Dr. Harold Ogden, Marketing Department, Saint Mary's University, who co-ordinated the project with the WTCC.

"It was overall a good experience," says Blackwood. "The Canadian embassies were all really helpful." Blackwood hopes to work for an export management company. Last year he completed his Business Administration degree from Mount Saint Vincent University and this year he's enrolled in the accelerated MBA program, which he will complete this year. ▽

Newfoundland Writer Wins National Awards

by Renee Field

Talented new Canadian authors have a hard time getting literary works published. But persistence, passion and hope encouraged one Newfoundland writer to weather the storm of negativity to publish a book about "the rock."

Readers are lucky that Bernice Morgan, a Newfoundlander, was finally able to secure a small press publisher, who was willing to publish her first novel, *Random Passages*. After many years, the sequel, *Waiting For Time*, is available in bookstores.

After six months on the market, people in Newfoundland started to whisper about it and talk about it, and that's when it finally started to be popular, says Morgan, about her first book, to a group of people who attended the Sun Room Reading Series at Saint Mary's University on January 29, 1997.

It took Morgan about 10 years to write both novels. Originally both books were compiled into one, but the length was a deterring factor, said one publisher. A publisher also told her that books about Newfoundland do not sell, and she would be better off changing the setting to a place in



Dr. Cyril Bryne, Irish Studies Department, is in the process of getting his books signed by Bernice Morgan author of *Random Passages* and *Waiting For Time*.

New England. Refusing to accept the odds, Morgan took another crack at her book, and after three years of editing and re-writing, she finally finished the first book. The sequel takes the reader into the future, in this case the year 2024.

She used historical information from Newfoundland, and oral stories that she grew up with, which enabled her to weave a story of how a family of immigrants that landed on an outcrop off Newfoundland fought to survive. Living on nothing more than a barren rock, surrounded by the pounding, relentless Atlantic Ocean, the novels are a triumph of the human spirit. The strong voice and charming characters of the women in both novels makes the reader devour the pages one after another. The sheer struggle of making a living off salted cod is honed into the reader. The excitement when the fish arrive, the drudgery of learning the fastest method of cutting, cleaning, salting and storing the fish consumes their bone-weary lives. The challenge to endure, fall in love and watch the children grow up, get married and start their own families is what makes the fanciful real.

Over 10,000 copies of *Random Passages* have been sold. While genuine stories about Newfoundland might not make an author wealthy they certainly are a rich and needed commodity in Canada. Recently, *Random Passages* was added to the reading list for Newfoundland high schools. This is the most rewarding aspect to writing, says Morgan, who hopes that more Canadian authors will take the plunge and write about Canada. ▽

Mi'kmaq Believes Anthropology Can Help Natives

One Mi'kmaq student has set out to tackle the misconception and fear that surrounds the field of anthropology.

"When natives are confronted by anthropologists they tend to shut them out," says Donna Morris, 46, who completed her Bachelor of Arts, majoring in Anthropology last year. This year Morris is working towards her Master's in Atlantic Canada Studies.

Studying anthropology has always been a passion of Morris', but her strong Mi'kmaq beliefs forced her to examine her educational desires. "I love it. The more I

understand about anthropology, the more I want to know. But digging does really bother me," she says. The Mi'kmaqs believe that everything is alive. Even though dirt might cover an item, the life force of either that object or a person's bones remains and they should be left alone and respected. Morris understands the need to dig, but she is often uncomfortable about the process. Joking she says, "I can step in and out of my beliefs." But when pushed she is quick to say she would never take part in an

archeological dig if it involved digging up bones. "What I'm doing goes totally against what I believe. I felt like I shouldn't tell people in my community was I was studying."

It was difficult for Morris to decide to study anthropology at Saint Mary's. While the number of natives attending university is increasing, it can still be an intimidating process. Currently, there are 57 natives studying at Saint Mary's. Growing up in a tight-knit, family-oriented community on the Shubenacadie reservation, she was aware of how other members felt about anthropologists.

Even her own children questioned her field of study.

But Morris is a difficult person to dissuade. Going to university was something she always wanted to accomplish. After raising her family of four children, she realized the time was right. Today, after completing her BA, she realizes that words hold different meaning for different people. The word survey used by archeologists is misleading, and to many people, a survey involves taking a picture of the land, not digging.

However, to archeologists a survey involves test-pits, which means digging the land. While non-natives might see this as a harmless act, to natives this has profound significance. Understanding those issues could bridge a gap that over the last few decades seems to have widened.

Today, Morris is a strong promoter of education. She encourages everyone, especially natives, to further their education. "It teaches you how to deal with other people who are culturally different and for the younger people it's really a good process," she says.

While many natives feel that they have been studied enough, Morris would like the opportunity to liaise with both the native and anthropology communities. There is still a lot of work to be completed that would benefit natives, she says, but an understanding of native issues has to exist. ▽



Donna Morris, a Master student in the Atlantic Canada Studies program talks about the challenges she faced studying anthropology as a Mi'kmaq.

**dalhousie
co-operative school
5846 south street, halifax**

- pre-school (age 4) to grade six
- theme based curriculum
- accent on art
- emphasis on child's active participation in learning

423-9777



Bundled in winter gear is (l-r) Faisal Al-Hajri, Khalid Al-Farsi, Sultan Al-Wahaibi, Salim Al-Mawali and Mohammed Al-Farsi, the five Omani students who are studying English at the TESL Centre.

continued from page 1

From Deserts to Blizzards...

"It was my choice to come here. I like computers and management, especially administration systems. You can't get that at home," says Faisal Al-Hajri, who plans to brave five more Canadian winters for a Saint Mary's Commerce degree.

The desire for an education is strong in these young men, whose maturity seems well above their years. Living abroad with

host families, they are quick to note the differences in Canadian family life.

"Here everyone has separate rooms. All too quiet in the house," says Sultan Al-Wahaibi, in a quiet voice. The average number of children in an Omani household is eight compared with about 1.5 children per household in Canada. For Sultan, from a family of eight, noise, activity and commotion are part of his daily life.

"One of the big differences is the relationship within the family and the children of the family. I can't imagine shouting at my father," he says. Having respect for elders is very much a part of their culture. The host families help bridge the cultural gap that

many foreigners experience while abroad. Besides the difference in food, watching men cook is a new experience for these young Omanis. While a few students know how to cook eggs, learning rudimentary cooking skills is not part of their culture.

The students miss the food from home, and living so far from any relatives, when you are used to growing up in a neighborhood where everyone knows each other is a difficult transition.

"There is a saying in Arabic, 'Choose the neighborhood before the house,'" says Sultan. The other students are quick to nod their heads, "Yes that means a lot. The relationship between neighbors is closer in Oman. They know everyone. Here you don't know your neighbors," says Salim, quickly.

Before arriving at Saint Mary's, a three day orientation program was scheduled in Ottawa at the beginning of September, by the Canadian Bureau of International Education (CBIE). The CBIE worked directly with the Oman government to bring the students to Canada. The hope is that more Omani students will follow their colleagues in the years to come.

By the time these five Omani students return to their country they will be 23 years-old with at least one degree, have the ability to converse and write fluently in English, and most importantly they will have gained a different perspective on a previously unknown culture. These young men are dedicated to Oman. They are quick to point out the changes that have occurred, such as vast new highways being developed, women entering professional positions as nurses and doctors and the growing technical industry.

Obtaining a degree for them is a stepping stone which will allow them to return to Oman, with its oasis of deserts, lush tropics to the south and its mix of traditional and modern life. They are anxious to play an active part in a country that is beginning to be noticed by the rest of the world. ▽

Wondering what that bright object is in the morning sky?

It's Comet Hale-Bopp

The Astronomy and Physics Department is planning a public lecture and observing sessions for the bright Comet Hale-Bopp.

Dates: Tuesday, March 25, 1997 at 7 p.m. and

Tuesday, April 1, 1997 at 7 p.m.

Place: Theatre Auditorium, McNally Building, Saint Mary's University

Full details are available at the Observatory's Information Line (496-8257) or web site (<http://apwww.stmarys.ca/bgo>).

Amsterdam Is Waiting For You

London, Munich, Hamburg and Glasgow are waiting too.

Senate Travel recommends direct flights from Halifax on Canada 3000, Canada's leading charter airline. All Canada 3000 flights are available through Conquest Tours, a preferred supplier of Senate Travel.

Return air from Halifax to Amsterdam or London from only **\$399**

Pricing accurate at time of ad submission, taxes not included and subject to availability.

Book your trip to Europe with Senate Travel before April 5, 1997 for a chance to win a free three day car rental (valid anywhere in Europe) compliments of Auto Europe. Plus, receive a free long distance phone card with every Europe booking!

Senate Travel provides exclusive travel services to university faculty and staff across Canada. Our many years of experience have made us specialists in arranging travel for:

- *guest lectures* • *conferences & meetings* • *research abroad* • *vacations* • *sabbaticals*
- *group & adventure tours, etc.* In fact, we handle more travel services for more faculty and staff than any other agency in Canada.

Contact one of our professional travel consultants today. Amsterdam, and the rest of Europe, awaits!

CANADA 3000
★ Reliable ★ Affordable ★ Air Travel

ST SENATE TRAVEL
UNIVERSITY TRAVEL SERVICES



CONQUEST

Senate Travel • Halifax Professional Centre • 5991 Spring Garden Road, Suite 410 • Halifax, NS • B3H 1Y6
Phone: (902) 422-1234 • Fax: (902) 422-6168 • E-Mail: halifax@senatetravel.ca

Huskies Volley Over the Top



Sports Schedule

Men's Basketball

March 8 Acadia at SMU 7:00 pm
 March 15-17 AUAA Playoffs @ Metro Centre
 March 22-24 CIAU Playoffs @ Metro Centre

Women's Basketball

March 7-9 AUAA Playoffs @ UNB
 March 14-16 CIAU Playoffs @ Lakehead

Track & Field

March 1 AUAA Championships at
 Université de Moncton
 March 7-8 CIAU Championships
 at Windsor

Students head to Queen's Competition

Four Saint Mary's Commerce students have been selected to compete in the annual Queen's Entrepreneurs Competition.

Team members include Collin Gillis, Chris MacDonald, Scott Bentley and Neil Dixon, and they will present their business plan, "On the Rocks," at Queen's University, March 13-15, 1997.

Their business plan is based on the start-up of a Halifax-based, wall and rock-climbing facility. The business plan combines all initial components such as securing a site, facility renovations, venture capital, and five year revenue projections, including membership and rental fee structures.

The judges consist of a panel of private sector, university and government officials. The panel looks for innovative proposals that are financially sound and realistic. This is the second time that The Frank H. Sobe Faculty of Commerce at Saint Mary's University has been represented at the Queen's competition.

The students were encouraged to submit their business plans by Professor Ellen Farrell, Management Department. "Forty business plans across the country are submitted and every year seven or eight groups are picked as finalists. I'm really excited about this and it means a lot to be selected for the final presentations," she says. This is Prof. Farrell's third year to send students to the competition.

A winner will be declared from the final eight based solely on the presentation of the business plan to the judges and the group will receive \$5,000. ▽



Nadine Sinclair, number 8, prepares to spike the ball.

Clean Sweep for the Volleyball Huskies

by Virginia Jackson

The Volleyball Huskies soundly claimed their first Atlantic University Athletic Association (AUAA) volleyball title in straight sets on February 23, 1997 as they destroyed the Dalhousie Tigers 15-2, 15-7 and 15-12. Undefeated during the regular season, the Huskies entered the AUAA playoffs (held at the Université du Moncton) with an unprecedented 18-0 record.

The Huskies ran up the score quickly in the first game and the Tigers had difficulty breaking their momentum. The second game was back and forth for a while but once the Huskies reached 10 points it was all over. The third game saw several long rallies and many good saves by both teams. The Huskies dominated the net, out-blocking Dalhousie 22-4.

The most valuable player for both games was Karen Sloan who had eight blocks, seven kills, and one dig in the final game. Huskies teammates Dana Olsen had six kills, four blocks and four digs; Ruth Wilkins had five kills and Dayna MacLean picked up four blocks. In the semifinal round the Huskies were victorious over St. Francis Xavier 15-11, 9-15, 15-2, and 15-1.

"The strength of this year's team is that we have depth," says Lori Welsh-Hawley, Head Coach, Volleyball Huskies. "If our starters aren't sharp, we can use our bench. Any one of our players can come off of the bench and contribute." Jamie Moore, Assistant Coach, Volleyball Huskies, prepares the team physically and mentally. The team practices imagery, visualization and Moore concentrates on getting the players focused before each game.

Team unity and harmony are much easier to encourage when egos do not get in

the way. Each player does their best to support and encourage other team members to perform to the best of their ability on the floor. The players are the first to say that the coaching staff has made a big difference in the program.

Dana Olsen, a fourth year Art student, is a consistent performer and credits Coach Welsh-Hawley for their wins to date. "She is always calm and never lets us panic. Even when we have been down in games. She brings us together and makes us focus on forgetting about the game and going out there and having some fun. It seems easy after that."

Ruth Wilkins, a third year Art student, believes that their success can be attributed to their belief in each other as players and people. "Everyone feeds off of each other, and the rookies — they are scary they're so good."

This will be Dayna MacLean's fourth national championship in four different sports. MacLean, a fourth year Art student, has attended nationals in softball, hockey, ringette and now volleyball. She believes that the Huskies success this season is due to the fact that the team and coaches believe in each other and have mutual respect for one another. "We all wanted this AUAA title a lot this year but Lori and Jamie kept us focused on each game. We couldn't afford to think too far down the road."

The Huskies hope to continue their winning streak (20-0) as they head to Edmonton for the Canadian Inter-university Athletic Union championships, March 6-8, 1997. They are scheduled to meet the number one ranked University of Alberta on March 6, 1997, and the finals will be held on March 8, 1997. ▽



Dayna MacLean, has played in four national championships. She is pictured getting ready to receive the ball with Dawn Tingley.

Men's Basketball team heads to AUAA playoffs

The Men's Huskies Basketball team made the AUAA playoffs, which are scheduled for March 15 -17, 1997 at the Halifax Metro Centre.

ADVERTISE
 IN **the TIMES**

contact Renee Field at
 (902) 420-5514,
 Fax: (902) 420-5511 or
 E-mail: R.Field@stmarys.ca

Coach of the Year

Lori Welsh-Hawley, Head Coach, Volleyball Huskies, was named Coach of the Year for 1997 during the AUAA Championships. She has won this award two out of the past three years. "I joined the team the same year as our five graduating players," says Welsh-Hawley who joined the Huskies as Assistant Coach in 1993, then Head Coach in 1994. "We've worked hard together to win the AUAA's. Being selected Coach of the Year just makes the win that much sweeter."

Awards for 1996-97

Dana Olsen — most valuable player (of the Conference)

Nadine Sinclair — second team all-star



The Daily News