

The TIMES

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Atlantic Centre of Support for Disabled Students Faces Funding Cuts



by Renee Field

"We have to realize that an investment in people with disabilities is an investment in society," Rick Hansen, told a crowd of university and government officials, and students and alumni from Saint Mary's University's Atlantic Centre of Support for Disabled Students, on April 8, 1997.

Hansen, who is on a national tour to celebrate the 10th anniversary of his Man in Motion campaign was quick to point out the benefits of having a centre on campus which supports disabled students. "Education is key. The Atlantic Centre is key," he says.

That key to success has always had a precarious future. Like many centres that rely on government funding the Atlantic Centre has been hit deeply by federal government grant cutbacks to the provinces. In its 12 year history, the Atlantic Centre, which is nationally recognized as a leader in providing support and services to qualified university students with disabilities, has always had to negotiate with different provincial departments, like Community Services, for an allotment of the province's Canada Assistance Plan.

"Funding is a struggle every year. This year is no different. At this fiscal year, to operate absolute basic services of the Centre we need

\$255,000. For the extra's, like the Ferguson Tape Library (for the visually impaired), essential projects, and maintenance of equipment we need \$305,000. We're trying to do our job without enough fiscal support," says Dr. David Leitch, Director, Atlantic Centre of Support for Disabled Students.

Last year, funding of \$140,000 from Community Services dropped to \$70,000 because of federal cutbacks. At the same time, enrolment at the Atlantic Centre since its opening has increased by 1,200 per cent. With current enrolment at 123 students, and while 90 per cent of them are at Saint Mary's, services still have to be arranged for 10 per cent of students at other Nova Scotian universities. Those services include providing sign and language interpreters, counselling, note taking services, help with exams, special equipment, such as large-print books and computer monitors for the visually impaired, TDD's and FM speaker systems for the hearing impaired, and advice for employment, which includes how to put together a resume and job interview skills. In 1990, the Atlantic Centre also added to its list of functions by hiring a counsellor for students with learning disabilities and provides a learning laboratory designed to meet these students' needs.

While enrolment has increased the number on staff (six) has remained constant because of the delicate funding balance the Atlantic Centre has to manage each year.

Since 1993, the Nova Scotia Council on Higher Education (NSCHE) has annually donated about \$50,000 to the Atlantic Centre. This year, to help offset provincial cuts, they have allotted \$100,000. While the funding increase will help, there is also talk of having the NSCHE provide all funding for the Atlantic Centre including the Ferguson Library. "Over the next years, they (the NSCHE) will look at a funding formula that looks at the costs of disabled students, for 1998-1999," says Dr. Leitch.

Having a special designation in the funding formula which looks at the real cost of providing university education for disabled students is something Saint Mary's is encouraging the NSCHE to implement.

Currently, the Atlantic Centre is working with a \$100,000 short-fall. "This is the period of time that funding is negotiated and the University has always historically contributed \$40,000," says Dr. Leitch. But with provincial cutbacks to Saint Mary's University and the continued inequities in the present funding formula, the University is counting every

penny. Although students from other universities throughout Nova Scotia use the facilities at the Atlantic Centre, Saint Mary's is the only post-secondary institution that contributes financially.

There is real fear that with provincial government cutbacks the Atlantic Centre's future could be placed in jeopardy. What is needed is guaranteed annual funding in the amount of \$400,000 to adequately support the Atlantic Centre and students with disabilities. Guaranteed funding, would allow staff more time to work with students instead of having to solicit funds from external sources.

The Atlantic Centre is constantly challenged to provide more support to disabled students. "The Atlantic Centre is unbelievable for all the work being done here. Let's all support the Centre," says Hansen. ▽

(photo above) Geoff Woodworth (Bachelor of Commerce, 1994), Personal Banking Officer, Royal Bank of Canada and Marie-Josée Nault, 25, a hearing impaired student who is graduating this spring with a Arts degree, are pictured with Rick Hansen, who is on a national tour to celebrate the 10th anniversary of the Man in Motion campaign which has raised over \$40 million for disabled people.

Proposed Funding Changes are Bad Deal for Saint Mary's

After years of proposals from Saint Mary's, public meetings and debates, the Nova Scotia Council on Higher Education (NSCHE) has proposed a new funding formula for Nova Scotia universities. The proposal seems to penalize the most underfunded university in the province — Saint Mary's University.

The proposal is a divisive one which may have an impact on the highly successful consortium of Metro universities — in that each university, if it is implemented, would be required to compete for a smaller pot of government funding.

To discuss these changes the Editor of *The Times* met with Dr. Kenneth Ozmon, President, Saint Mary's University for a frank discussion concerning the implications.

Q. The NSCHE released its proposed funding formula changes last month. What did you think of the proposed changes?

A. I was dismayed because under the old funding formula we felt we were owed about \$7 million dollars, and universities our size across the country are funded at a much higher rate than we are in Nova Scotia.

Q. How much higher?

A. Well let's put it this way, Saint Mary's now derives about 49 per cent of its total operating funding from the government of Nova Scotia. The average in Canada would be somewhere between 70 and 80 per cent, which would also be the average for NS. We believe that we should be funded at least at the average.

Q. What's our justification that we are saying we have always been underfunded?

A. The justification is that we have so many more students than other universities receiving comparable funding, and that the number of students does have a profound

financial impact on the operating resources of a university.

Q. So our enrolment has increased but our funding hasn't?

A. Exactly. The funding hasn't kept up with the enrolment increases. On the same note we recognize that different programs cost different amounts and therefore the funding has to be adjusted somewhat to account for the differences. But we think in Saint Mary's case we are still being seriously underfunded compared to others.

Q. Would it be fair to say that the NSCHE unfairly places the cost of educating Nova Scotians on the backs of undergraduate students?

A. Well, what they are proposing is that for the high cost programs is that the province subsidizes them at a much higher rate than they subsidize the lower cost pro-

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Bad Deal for Saint Mary's

grams. For example, the amount of funding for an Arts program, where we have a considerable amount of students, would be about half of the total cost to the program, whereas the funding for the high cost programs like medicine and dentistry would be closer to 80 per cent of the total cost to the program. We think that in light of the earning potential of people in the higher cost programs, and just in the interest of fairness the high cost programs shouldn't be subsidized by the lower cost programs.

Q. How do they justify that it needs that much more funding?

A. I think their logic is that a student taking Medicine should not have to bear any more of the cost of that program than a student taking anthropology. There is some logic to that. Our response to that, however, is that if you want to subsidize students that take medicine, subsidize them directly by giving them the money and let the universities raise the tuition to account for the higher costs of the program. So charge a medical student more, but give the students themselves the grant to cover as much of a proportion of that as the province wishes.

Q. Would tuition increase under these proposed changes?

A. What will happen is that tuition as a percentage of our operating revenue will get greater and greater as the percentage of our total expenditures. So the government's contribution to Saint Mary's will be down to 45 per cent in short order and probably below 40 per cent in the longer term. Whereas the percentage of revenue other universities will derive from the government will remain at the same or increase from above the current levels.

Q. Would tuition have to go up to compensate?

A. Exactly. Tuition would definitely have to make up the slack. So what we are looking at is a scenario which we consider to be unfair — that our students bear a disproportionate share of the cost of their programs, while the province subsidizes the programs at universities with high cost programs at a much higher rate.

Q. One of the factors the NSCHE looked at is providing special funding for universities outside of Metro. Do you think they should seriously consider providing extra funding for these institutions?

A. We're not totally opposed to the principle of providing additional funding where it can be justified in terms of additional costs associated with programs at some universities, or additional costs associated with the operations of some universities. For example, we recognize that universities that are extremely small in enrolments still have to maintain a certain infrastructure if they are going to be a university, so the costs of these universities may be disproportionately higher. We also recognize that there may be additional costs with communication or travel costs that some universities incur because they're not centrally located. However, in both instances what we're asking for is justification for the costs.



Dr. Kenneth Ozmon, President, Saint Mary's.

First, I'm not sure that it is less expensive to operate outside of Metro and evidence from other jurisdictions indicates that it maybe higher to operate a university in a Metro area. Second, if there are higher costs I think evidence should be presented, through some sort of independent assessment. I'm not willing to accept the principle if the evidence doesn't support it.

Q. The NSCHE is also proposing a cap on international students. I'm wondering what you think of that?

A. Well Saint Mary's has been making a real effort, with the encouragement of the government, I should add, to market our programs internationally. Now, the Council on Higher Education is suggesting that there should be a cap on the number of international students, at 10 per cent of present levels, which is below what our percentage is at the present time. This seems to contradict the province's encouragement of recruitment of international students as a revenue generating and job creating scheme for Nova Scotia.

Q. Now, the Council's argument is that Nova Scotia taxpayers are paying for the bulk of international students' tuition. What would your argument be as to why there shouldn't be a cap?

A. Well, if that's true than Nova Scotia taxpayers are paying an even higher proportion of the cost of students who are in high cost programs, and yet the Council are putting the cap on numbers there at 30 per cent, and suggesting they should recover the same amount from the universities' operating grant as for students in low cost programs. It doesn't have a compelling logic.

Q. How are we addressing these proposals?

A. We have established a task force to develop a response to the document given to us by the Council and we will be sending in suggested changes and requesting evidence for some of the assumptions contained in the Council's paper. After we have an opportunity to share a draft with our Board and Senate, we will be submitting the response around the end of April to the Council on Higher Education.

Q. Where does it go from there?

A. The Council will receive responses from all interested parties and then my understanding is that in May or June they will be meeting with universities to discuss with them any reservations the universities may have about some of the funding formula elements, or assumptions which they presented us, and will take these into account in revising the proposed formula. Following that their aim is to present recommendations to government in early fall, I think in September, and government will then make a decision on a funding formula which will take effect for the next budget year, 1998-99.

Q. Are you hopeful that finally Saint Mary's will get the funding it needs?

A. Yes. I'm certainly hoping they'll listen to our arguments and provide us with some feedback to our arguments and give us an opportunity to make our points to them in person.

Q. What would you like to see in the funding formula?

A. Well I'd certainly like to see a recognition of first and foremost that we are teaching students. That numbers of students should figure prominently in any kind of funding formula, since that's the business we're in. After that, certainly some recognition of elements of special interest to some universities, but only after convincing evidence has been submitted that these additional costs are valid.

Q. Were you really surprised by the fact that the report deviated so much from what you were hoping for?

A. Yes. I was very dismayed because what they've done is basically they've introduced five new elements, to which there was no

money attached in the past and these new elements take off the top of the grant about \$13 million altogether. So this is \$13 million that was never allocated to these things in the past and Saint Mary's has a very small call on the new elements, because we're not, in their terms 'isolated', we don't teach in French and we're not a small university, so we don't have a call on these sources of funds to the extent some other universities do.

Right now as this proposal stands we would receive about \$500,000 above what we presently receive. But our estimate of what we would receive under the old formula, had it been applied, was about an additional \$7 million. Currently the University gets about \$18 million. There are universities getting more money from the government now that enrol half as many students as we do.

In Memory of Luis Soto-Rubio

On March 16, 1997, the Saint Mary's community was saddened to hear of the death of Luis Rodrigo Soto-Rubio, 35, who was a student and employee at the University for the past six years. Surrounded by friends and family, he died suddenly of complications from a brain tumor.

Born in Chile, he received an architecture degree from the University of Chile in Santiago. In 1990, he moved to Canada to pursue graduate studies in International Development. He played an active role in the local Latin American community and various social justice groups. On campus, he worked at the International Education Centre and the Patrick Power Library, as well as helping in the International Student Advisor's office.

People were always dear to Luis' heart, especially the impoverished. In Chile he worked for a foundation that helped to establish housing for abandoned children. In Canada, he got involved with the 1995 People's Summit to address issues of community development. As part of the International Education Centre's Speakers Bureau he visited fishing communities in southern Nova Scotia and saw first hand the effects of the fishing crisis.

Saint Mary's held a memorial service on March 21, 1997 to honor his dedication, commitment and spirit to the international community on campus. The International Centre has established a memorial fund in Luis' memory which will be dedicated to a worthy cause.

Comet Hale-Bopp Lights up Night Sky

Count yourself lucky if you were able to see the bright object in the northwest part of the sky that had people star gazing with binoculars and telescopes throughout the months of March and April. Easily distinguishable to the naked eye, the object was Comet Hale-Bopp, which enters our outer Solar System once every 4,000 years.

Discovered on July 23, 1995 by two amateur astronomers, Alan Hale of New Mexico and Thomas Bopp of Arizona, it subsequently was named Comet Hale-Bopp. Hale, who is an expert on comets, having observed over 200 different ones, quickly realized that by early spring of this year the comet would be spectacular.

Between March 23 and April 1st, the comet was the closest it would get to Earth, some 190 million kilometres from the planet.

As interesting and exciting as it is to actually view a comet, it is essentially a dirty iceberg in orbit around the Sun. It is composed of a mixture of ices, both water and frozen gasses, and dust. A comet has a nucleus, a coma and a tail, and while most comets have a nucleus of about a few kilometres across, Comet Hale-Bopp is believed to have one as large as 40km. When a comet nears the Sun, the heat warms the nucleus which causes the ice to steam off the nucleus causing dust grains

to escape. The venting outwards from the nucleus is what creates both the coma and the tail. The tail, usually the most distinguishable feature of a comet, consist of material caught in the solar winds which trails behind the object.

Comet Hale-Bopp could very well be the brightest comet seen in Nova Scotia for at least 20 years and easily rivaled last year's comet, Comet Hyakutake.

The Saint Mary's Astronomy and Physics Department organized a public information and observing session at the University, and over 250 people attended the session on March 25, 1997. ▽

Saint Mary's University, Halifax, Nova Scotia

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AROUND *Campus*



Patrick Power Donation

The Patrick Power Estate has extended their support of the University for another five years. To date over \$1.3 million has been contributed, dating back to 1972. On April 8, 1997, Terry Donahoe, MLA, Halifax-Citadel, donated \$375,000 on behalf of the Estate to Saint Mary's University's Chaplaincy Service and Library. He is pictured with Dr. Kenneth Ozmon, President, Saint Mary's and Father John Gahan, University Chaplain.



President for a day

Relaxing after a tiring day being President of Saint Mary's University is Patricia Tuttle, fourth year Bachelor of Commerce student, enjoying a good round of green Irish beer in the Gorsebrook Lounge with friends and former president, Dr. Kenneth Ozmon. Tuttle is pictured far right.



MP visits campus

Ron MacDonald, MP, Dartmouth and Parliamentary Secretary to the Minister of International Trade is pictured with Barbara Giacomini, Senior Trade Commissioner, Government of Canada and Dr. Kenneth Ozmon, President, Saint Mary's University. MacDonald was on campus to get a briefing concerning the internationalization of the University's activities.



Irish studies lecture series

Looking over the book of Kells with Dr. Cyril Bryne, Co-ordinator, D'Arcy McGee Chair of Irish Studies, is Marilyn Richtarik, Department of English, Georgia State University. She was the fourth speaker in the 10th anniversary lecture series organized by the Chair for the months of February and March. She talked on "Stewart Parker, The Northern Joyce."

TV/VCR Donation to St. Patrick's High School

Saint Mary's University, Q104 and Wacky Wheatly's recently donated a TV/VCR to St. Patrick's High School for use by the Guidance Office in viewing university recruiting tapes. This program was initiated in the fall of 1996 when Q104 and Wacky Wheatly joined with Saint Mary's in offering TV/VCR's to local high schools, which did not have a dedicated unit for students to view various university campuses from around the world. (left to right): Harv Stewart, BJ Wilson, and Lisa Blackburn, from the Q104 Morning Show; Colin MacGillivray a St. Patrick's student, Anna Spanik, Vice Principal, St. Patrick's High School, and Michelle Brunet, also a St. Patrick's student.



Bill Chisholm, Mark Deptuck, Barbara Holler, Andrew Lannon (front): Sarah Morris, Co-ordinator, Student Peers, Hélène LeBlanc, Office Manager, Mojgan Rahbari, Office Manager, Cari Duggan, Shelley Reid, Dr. Kenneth Ozmon, President, Saint Mary's. Missing from photo are Jody Oickle, Cynthia Pace and Helen Beaver.

Recognizing Student Peer Volunteers

The University always has a committed bunch of student peer volunteers who help counsel fellow students or who are simply there to listen. This year was no exception, with 11 students being recognized on March 17, 1997 by the Saint Mary's Students' Association. Back (left to right): Patricia Tuttle, President of the Day,

Drowning of the Shamrock

Keeping with tradition, the D'Arcy McGee Chair of Irish Studies hosted the University's Saint Patrick's day celebrations on March 17, 1997. A crowd, of well over 60 people trekked

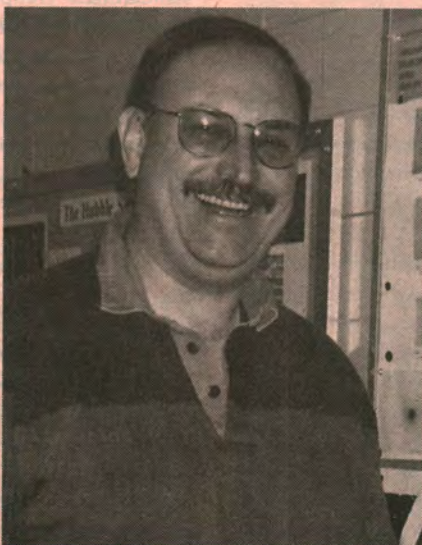


through the small offices to toast the Irish. Pictured with a glass in hand is Dr. Pdraig O Siadhail, Chair of the program.



Students compete to design a better computer

This year, Dr. Larry Hughes, Mathematics and Computing Science Department, organized his class to present team projects from his distributed system course. Pictured explaining her project is Jillian Hockey, 22, a final year co-op student in the department, who won a \$15,000 scholarship from the School of Computer Science at Carleton University, Ottawa, to continue with her studies to the Master level. The competition ended with a tie, between Hockey's team and one other team.



Commerce Undergraduates Win Case Competition

For the first time, Saint Mary's Commerce undergraduates won the Canadian business magazine for most entrepreneurial spirit award at the Queen's Cup in Ontario. They were the only Atlantic Canada team to compete. They won for their marketing plan called "On the Rocks." Pictured (left to right) is Chris MacDonald, 21, a third year BComm student, Scott Bentley, 22, fourth year BComm, Neil Dixon, 26, fourth year BComm, Colin Gillis, 22, fourth year BComm and Professor Ellen Farrell, Management Department. The team received \$500 for their award.

Observing space from the south pole

Dr. Tom Bania, Boston University, gave a talk concerning astronomy from the South Pole, as part of the Astronomy and Physics colloquium series on March 11, 1997. Using the Antarctic Submillimeter Telescope and Remote Observatory, he talked about being able to study atoms and molecules in the gas between the stars of our Milky Way Galaxy, and looking at trace gases like ozone, in the Earth's stratosphere. "My goal is to share the experience of living and operating a state-of-the-art observatory at -100C at an altitude of 3,500 meters," he wrote.

MBA Students Sell Nova Scotia Products to US Markets

by Renee Field



Part one of the Academic Pairing Program involved getting all the players who are involved with the project to meet and introduce themselves to the students. (left to right): Charles MacArthur, Trade Commissioner, Industry Canada, Dr. Paul Dixon, Dean of Commerce, Dr. Harold Odgen, Marketing Department, who co-ordinated the project, Maureen Woodhouse, Project Manager, International Activities, Jim Simpson, Project Manager, Investment and Trade, Economic Development and Tourism (formerly Nova Scotia Economic Renewal Agency), and Jeffrey Mullen, Account Manager, Atlantic Canada Opportunities Agency.

For the past five months, nine Master of Business Administration students have been up to their elbows trying to find ways to break into United States markets for Nova Scotia companies looking to export.

The students are paired with Nova Scotia companies as part of the Academic Partnering Pairing program, which has been a success at Saint Mary's for the past five years. In the past, the students have helped to

establish a Nova Scotia niche in Hong Kong, Japan, Taiwan and Mexico. This year the program is staying closer to home and the goal is to establish a strong Nova Scotia presence throughout the US.

In order to accomplish that task the students work directly with their Nova Scotia company. To help ease the process, they have access to specific people like Jim Simpson, Project Manager, Investment and Trade,

Economic Development and Tourism (formerly Nova Scotia Economic Renewal Agency), Jeffrey Mullen, Account Manager, Atlantic Canada Opportunities Agency (ACOA), and Charles MacArthur, Trade Commissioner, Industry Canada.

"Export development as an opportunity is a great opportunity. Our role is as a co-ordinator ... A market strategy has to be developed and do this not in isolation.

I encourage you to get in touch with me," says Mullen, who attended the launch of

this year's project, back in December 1996. "This is as real as it gets," says MacArthur. The goal for all of the companies and the agencies is to make a sale. That puts a lot of pressure on the students, but it also provides them with real life experience.

"I'm very interested in the international markets," says Nancy Cowper, 41, who was paired with Dymaxion Research Limited, a company which produces scheduling software for media centres. Her goal is to find a US niche for their product Medianet. "This client is excellent to work for. The communication is very good. They gave me an office tour and orientation to the company and invited me back for a two-and-a-half hour demo that they give to clients," she says. Cowper, like many of the students, could go on all day about how great her company is and how much she enjoys the project, but all that joy is equalled with hard work.

On average the students put in about 130 hours or more for this half-credit course. They also attend Friday afternoon sessions and meet weekly with company representatives and attend special guest lectures, plus carry a full university work load. The project has three main goals, the development of the student education experience, to assist NS businesses, and finally to build business and academic contacts. "We are all interested in bridging this academic gap," says Dr. Harold Odgen, Marketing Department, who co-ordinates the project.

"Good quality, good people, good technology, but lousy follow-up," says Ross Stinson, Managing Partner, Federation Consulting, who met with the students in early February. His business helps companies break into international markets. A lawyer by training, Stinson, was quick to point out

the province's positive points and negative ones, such as distance. "US businesses will hold to the tight line of a contract. They are the work hard, play hard types," he says. The key pointers he stressed was to make sure business cards have Canada written on them, get the product to potential US companies immediately, be prepared with what you are going to say, keep all prices in US dollars and most importantly do a follow-up. Those pointers helped Cowper establish a to-do list before her big trip to California with Peter Mason, President, Dymaxion Research Limited.

"The challenge for me was knowing that the client already was so active I wondered about how successful I could be for them," she says. Understanding that success does not happen overnight, Cowper was pleased to discover a potential client in San Francisco, California. Dymaxion has a staff of 40 people and a marketing department which has already made in-roads in a number of US states, including Texas, Washington, Ohio and even Australia.

"This is a long selling cycle and the goal is to build relationships," she says. With Medianet costing \$400,000 for the equipment it's no wonder the first target is aimed at building relationships. Many companies are wary of heavily investing in a small, far away business and they worry about the costs to service equipment and calls for help. Dymaxion is no stranger to this and that's why they established a 1-800 number for clients and schedule regular follow-up trips as part of their approach.

While students don't always see the end result to their hard work, they get a better perspective of what has to happen behind the scenes to sell Nova Scotia products. ▽



At the end of the project, Nancy Cowper who was paired with Dymaxion Research Limited in Halifax, Nova Scotia, found two clients that were interested in Medianet. Nancy (left) is pictured with Angela Digout, Medianet Marketing Co-ordinator.



There were a number of special lecturers that made themselves available to the students including Ross Stinson, Managing Partner, Federation Consulting, who met with the students in early February.

Standardizing University Computer Platform

Saint Mary's University is in the process of creating a common computer platform which will administer all computer needs on campus. Part of that process involves standardizing administrative personal computer systems.

Moving to a common suite of office products begins the transition to standardize computer systems, a goal which has been strongly endorsed by both Academic and Administrative Advisory Committees on Computing.

Funds of \$85,000 have been approved for all non-academic departments which need to upgrade software and hardware. "This is an exciting project," says Guy Noël, Vice

President, Administration. A team of five people and Valerie Walters, an outside training consultant are co-ordinating the project. The project has two phases.

Part One:

With over 80 per cent of computer users familiar with PC, and with more people moving to the common suite of Microsoft Office products, the decision was reached to provide administrative funds that will allow the University to move to a common PC platform.

Upgrading systems is well underway and Microsoft Office software provides applications in word processing, spreadsheet, database, and the presentation applications

using Windows. The system will be equipped to access the internet. Moving to a standardized computer system will save money for the University, provide more efficient use of limited funds for training of resources, enable staff to upgrade and acquire more computer skills to enhance personal development and make it easier for information to be exchanged between administrative departments.

Part Two:

To minimize staff anxiety the University will implement staff training and computer upgrading skills. All of this is to help ease anxiety for people who might be unfamiliar with using Microsoft Office products and Windows with e-mail. A questionnaire has been developed to determine the training levels of individuals on campus and will be sent out soon. To ensure the success of this project, the task force would like on-going feedback to assess individual needs, and in

the future to evaluate the project. A box has been set up outside the Personnel Office for questions and remarks concerning the project. The bulk of computer training courses is scheduled between May and June. Academic departmental secretaries whose existing systems are equipped to run Windows and Microsoft Office software will be able to take advantage of training that will be offered.

Departments that will be upgraded include the Business Office, Registrar, Admissions, Book Store, Library, Vice President Administration, President's Office, Physical Plant, Residence, Administration Services, and Institutional Research. The computer upgrade is expected to be finished by the end of June.

While there are a few necessary exceptions to the rule, Computer Services will mainly support PC's. ▽

University Receives Over \$600,000

Continued funding from the Natural Sciences and Engineering Research Council of Canada (NSERC) and the Social Sciences and Humanities Research Council of Canada (SSHRC) will enable professors to be at the forefront of scientific research and innovative scholarly publications.

Twenty-eight out of 30 professors who applied for NSERC received either continued funding or new research money, providing the University with a total of over \$600,000.

Five professors will receive first year funding on either two or four year projects, for a total of \$105,900. Three professors in the Biology Department will receive first year funding; Drs. Thomas Rand, Doug Strongman and Liette Vasseur.

The Astronomy and Physics department was the big winner receiving a total of \$143,000, and Dr. George Mitchell, in the department, received the largest grant of \$47,000 as the third installment on a four year research project. Also in the department, Dr. Malcolm Butler received

the final installment of \$22,000 from NSERC's subatomic physics committee.

From the frontiers of space to the microscopic world of fungi, fish and insects, Biology professors are working on a number of projects that have the potential to benefit humankind. The Biology Department received \$120,000 from NSERC and a fairly new professor in the department, Dr. Liette Vasseur received two NSERC grants. The first is an equipment grant which will be used to purchase an Environmental Growth Chamber for her research, and the work of Drs. David Cone, Doug Strongman and Marc Lamoureux, Chemistry Department. Also in the department, Dr. Michael White received the final installment of \$30,000 on his four year project, which studies the gene expression using ultraviolet (UVB) light in pea plants. Moving from vegetables to fruit, Dr. Strongman received further NSERC funding of \$20,000 per year for four years to continue with his research into fungal diseases of insects in low bush blueberry plants.

"Last year we received major equip-

ment funding to bring state-of-the-art equipment to our Regional Geochemistry Centre. This year through continued support via NSERC operating grants, professors will be able to make good use of this and other major scientific equipment in the faculty and employ student assistants over the summer. The resulting research data will, without doubt, lead to fundamental and applied discoveries across a wide range of scientific disciplines at Saint Mary's," says Dr. David Richardson, Dean of Science.

Chemistry received over \$100,000 for continued research. Dr. Michael Zaworotko, Chair, Chemistry Department, received over \$40,000 as the second installment on a four year project, while three recently appointed professors each received second year funding — Drs. Gregory Corey, Marc Lamoureux, and Rob Singer.

Fisheries research continues to be funded by NSERC through the University's Finance and Management Sciences Department, which received \$48,000 in funding. Other departments which

received funding include the Mathematics and Computing Science Department, which received \$42,000, the Geology Department for a total of \$90,600 and the Division of Engineering, \$25,400.

Four social humanities professors received SSHRC funding. Three professors are in the Sociology Department; Drs. Richard Hadden, who received \$39,000, Henry Veltmeyer who received continued funding and Kiran Mirchandani, who received a postdoctoral fellowship. Dr. Mirchandani received her Sociology degree at Saint Mary's and is currently doing research at Concordia University, Quebec. She will be back at Saint Mary's in the Sociology Department in September 1997. Dr. Ashwin Joshi, Marketing Department, received over \$39,000 for his research (see story page 9).

Not only does NSERC provide research money for professors but they also provide funds for post graduate scholarships (PGS) and undergraduate student research awards. This year four students received PGS's and six students received research awards. ▽



Holding a piece of 18th century porcelain is Dr. Victor Owen, Geology Department, who has been analysing porcelain for a number of years. His work is providing collectors with another valuable tool to correctly identify specific types of porcelain.

by Renee Field

One person's garbage is another's treasure, and that is exactly how one geologist at Saint Mary's views the thousands of little porcelain pieces that were thrown into garbage heaps in England in the late 18th century.

"There are many specialists better qualified than me to do this type of research, but only a handful of people have analysed British archeological ceramics and the amount of data is very small," says Dr. Victor Owen, Geology Department.

A petrologist by trade, Dr. Owen's principal area of research is with pre-Cambrian rocks found in the Canadian Shield. Working with porcelain might seem like a big jump from billion year-old rocks, but because ceramics are synthetic rocks, the same techniques can be applied to analyse

conditions.

In all he's been able to get his hands on fragments from seven different major 18th and 19th century British manufactories: Worcester, Bow, Lowestoft, Derby, Swansea, Nantgarw, and Longton Hall.

"Bow and Lowestoft porcelain both used bone fragments in their recipes, and have similar compositions, but Lowestoft used a bit of gypsum and Bow didn't," he says. This difference is reflected in their sulphur content. Just uncovering that chemical tidbit has appraisers and collectors thrilled. With Lowestoft more collectable, it is also more expensive and sometimes even collectors have a hard time making a positive identification based on aesthetic criteria. During firing, sulphur from the gypsum finds its way into the bone ash in the Lowestoft porcelain.

Geologists Scratches the Field of Porcelain Making

both types of materials.

The first porcelain pieces he analysed were shards from the Bow factory, in England, which operated in the mid-1700's. That was all it took to lead him to seek out more samples from other factories. What makes one piece of porcelain better or different than a piece made from a different factory, he wondered. Dr. Owen is also interested in the technical aspect of the production, such as the different firing

All that Dr. Owen needs to make a positive identification is a bit of powder from a sample. Usually he scrapes off the bottom of a sample. While collectors are not thrilled with the idea of someone scraping a piece off their highly prized porcelain, or worse an heirloom, a little scratch could place a lot of money in their pocket. Once Dr. Owen has the sample, he mounts it using glue and sets out to analyse the bone ash to determine if sulfate is present. The entire process can cost as little as \$50, a small price to pay to confirm that the piece is a genuine Lowestoft article, which can be worth thousands of dollars.

The second problem he's interested in is how the product was produced. "I'm interested to see how they struggled over time to reduce the kiln wastage by varying their recipes, because they couldn't control the kilns very well," he says.

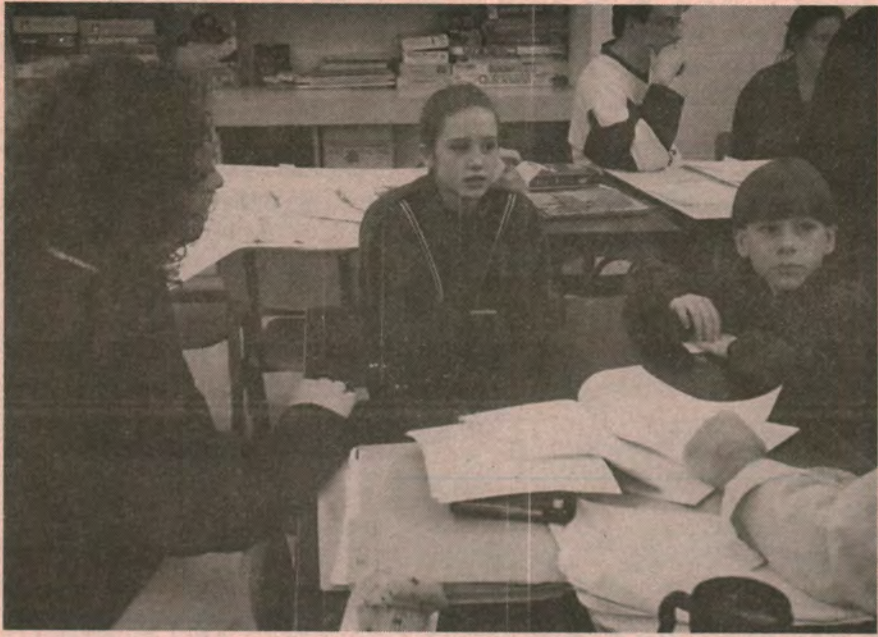
Many factories had a hard time creating the right recipe and some lost over half of their product. Looking at samples from Nantgarw, which had up to 90 per cent kiln wastage, he was able to analyse the fragments and determined that the liquid could not support the weight of an object, which is why they were only able to produce plates. While a leading expert earlier in this century concluded that they should add more clay to the recipe, Dr. Owen's results showed the reverse was the case. "They should have used a little less clay to reduce kiln wastage. This advice comes 180 years to late," he says. While Nantgarw only produced 10 per cent of their product, the end result was the finest porcelain ever produced in Britain. This fact, coupled with its rarity due to kiln losses, ensures the high price that Nantgarw wares fetch at auctions.

Dr. Owen is collaborating with a potter in Wales who is assisting with the final part of the project. The potter will mix up the ingredients, fire them and send the samples to Dr. Owen. With the assistance of an honors student, Dr. Owen will run a parallel series of kiln firings using equipment in the geochemical centre. These experimental firings will be interrupted at particular timed intervals by removing samples from the kiln and plunging them in ice water. "The goal is to get a snap shot of what happens in the kiln, temperature by temperature and to monitor the progress of clay reaction and the melting reaction," he says.

Dr. Owen's research is breaking new grounds in a frontier that not many scientists have examined. The outcome of his research is extremely useful for archeologists. However, because his research falls between the cracks of "pure science" and the field of archeology, he has had a hard time getting funding, and currently relies on funding from the University's Senate Research grants. "This field is virtually untapped. Only recently a few people in Britain have started to analyse these materials, but it's wide-open," he says. The problem is that it's so wide-open, funding agencies have yet to see the value of this research. In the meantime, Dr. Owen will spend two weeks this spring talking about his research findings throughout parts of the United Kingdom.

Note:

Recently Dr. Owen published "Compositional Characteristics of 18th Century Derby Porcelains: Recipe Changes, Phase Transformations, and Melt Fertility," in the *Journal of Archeological Science*, Volume 24. He also has four other papers on archeological ceramics in press, in peer-



Grade six students Lauren O'Connor, 11, and Amos Sarrouy, 12, listen intently to two Saint Mary's university students explain about the wetland around the school.

by Renee Field

The first thing you notice when you walk in the classroom is the flurry of activity and secondly, the intensity of the children as they work on their projects, answer quizzes or simply color a map that details the make-up of the forest, all which is part of the Bedford Basin Watershed Stewardship Project.

The small group, six in total, are committed grade six children who are knowledge-thirsty to learn everything about how the environment affects their community and their school - Rockingham Elementary School, which is part of the Rockingham/Birch Cove/Clayton Park West areas, in Halifax, Nova Scotia.

"We are creating an artificial wetland around the school because when they built the school they plowed all the trees down, which would have kept the water from flowing into the area," says Amos Sarrouy, 12, whose cheeks are still rosy from the morning outing with the Wetland research group. Meanwhile, grade six students Jacqueline Prevost and Alex Carr are learning about the composition of the local forest from the Forest research group, and at another table 11-year-old Chris Stevens, the unofficial 'artist-in-residence' at the school, is busily finishing a sketch of Princess Lodge he has completed for the project. The children have been divided into three different groups: Marine, Wetland and Forestry.

"With each system we look at not only the ecological side but the human impact. We are trying to help them (the children) use the local environment, so they can understand the issues," says Dr. Gene Barrett,

Hard at work, the Forestry group finishes colouring a detailed forest map of the area.



Rockingham S links with S

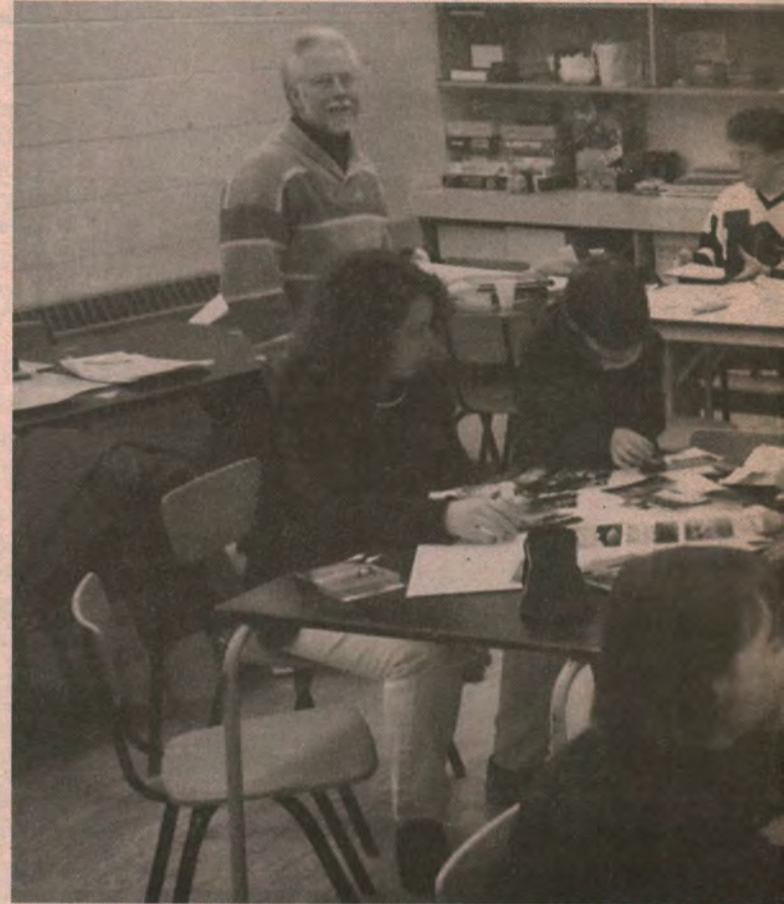
Sociology Department, Saint Mary's University, who initiated this pilot project with the school.

Dr. Barrett saw the opportunity for a project of this nature through his children's involvement with the school and his own interaction as a member of the community-school planning team. He immediately recognized the potential and positive spin offs for both elementary school children and university students interested in hands-on field experience in sociology.

Nine Saint Mary's students enrolled in his fourth year Sociology of the Environment course are participating in the project. The Saint Mary's students complete independent research for a group project on one of the three themes in the course. From this they create curriculum material such as interactive projects/games for the school, and they are establishing an environmental resource centre at the school.

Amos, like many of the children, already knew about a number of environmental issues, but he didn't know that those issues can often be close to home. "We just learned about it all," he says, and "They didn't think about what would happen, and whenever people are going to build something they should. Now, in a few years, our school might not be here and the land won't be able to hold up the fence or the basketball," he says, passionately. Saint Mary's students Sarah Bell and Lynne Carey, who co-ordinate the Wetland group are quick to praise Amos' points and fast to jump in with a spot quiz from last week's work.

At the front of the class, John Thorne and Lindsey MacDonald are waving their arms wildly, barely able to contain their answers to the jeopardy-like quiz which the Marine group organized. A definite hit with the children, team members Jason Norman, Kevin Greene,



Grade six students at Rockingham Elementary School and Saint Mary's University Sociology



Barely able to contain their answers to the Jeopardy-like quiz, organized Lindsey MacDonald quickly raises her arm

School project Saint Mary's



...y students work on group projects.



...ardy-like quiz the Marine group has orga-
m to answer as John Thorne looks on.

Phil Latter and Scott Sangster say they are constantly amazed at how much the children know.

"I wish they'd had a program like this when I went to school," says Greene, who initially was skeptical about how interested the children would be in the material. "The kids that came in actually surprised me about what they knew. I don't think, personally, at that age, if it would sink into me." Sangster's philosophy echoes that of instructor Dr. Barrett's.

"Start young with the kids and then they might get interested in it. This is a good way to get the parents involved."

For many of the university students this is their first field work in sociology and their enthusiasm hasn't gone unnoticed. In fact, Principal Robert Little, an alumnus from Saint Mary's, can't believe their commitment to the project. "That's not the norm," he says, referring to the fact that during both school breaks the university students came to the classroom to work on the project. "They must get a sense of fulfillment. It's a team up there," he says.

Little was thrilled to see Dr. Barrett set up this project and more importantly pleased with the level of community involvement. "My intent is to open the school up as a more community-based school and more accessible. From a knowledge base, both Saint Mary's students and our students are learning more about the area of Bedford and the links with the past. This area is just mushrooming... this project will offer to new families coming in and the transient group, a better awareness of the area and the issues," he says.

A sub-committee consisting of Dr. Barrett and Laura Loucks, a lecturer in Saint Mary's Atlantic Canada Studies program, teacher Lorna Bennett-Sangster and



Back (l-r) Robert Little, Principal, Audrey MacPhee, Saint Mary's student, Laura Loucks, Lecturer, Atlantic Canada Studies, and Scott Sangster, Ron Stewart, Jason Norman, Kevin Greene, Sarah Bell, from Saint Mary's (middle) Jacqueline Prevost, Alex Carr, Laurenn O'Connor, Lindsay MacDonald, Phil Latter, Saint Mary's, (front), Dr. Gene Barrett, John Thorne, Chris Stevens, Amos Sarrouy, Tracy Munden and Lynne Carey, both Saint Mary's students. Missing from photo is grade six student Keli Gillis, teacher Lorna Bennett-Sangster and parent Cathie MacDonald.

parent Cathie MacDonald, are part of the planning committee working to create teaching modules which will enable the project to continue in the future.

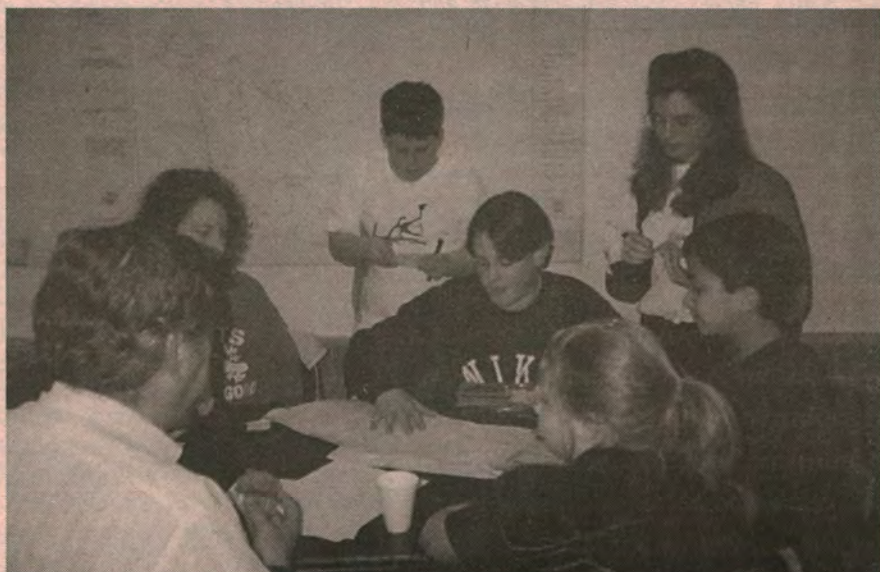
Loucks, 28, is also planning to establish an Environmental Day Camp, as a continuation of the project. "This area feels like my neighborhood," she says. Having grown up in the Clayton Park area, she is keen to see the project continue. Already a public lecture series has been organized for May and June which will address the issues discussed by the children.

As part of the project over 90 grade six children had the opportunity to visit Hemlock Ravine Park where they learned the issues affecting the area. Also, a number of guest speakers have presented lectures on the history of the area, forestry and marine issues to the group. Immediate plans are for the Saint Mary's students to help Bennett-Sangster's class of 26 students build a series of four large models of the local watershed, basin and harbor.

The Saint Mary's Senate Research Committee recently granted the project \$3,000 towards this summer's activities, and the Dean of Arts is helping to support the lecture series.

With time running out before lunch, the children eagerly finish gluing pictures to the bristol board, making a story board, which details the effects of pollution on the basin. Another group finishes coloring the forest map, while children post marine maps on the wall. The children are oblivious to the time, happily working on something that is now close to their hearts. ▽

Teacher, Lorna Bennett-Sangster (middle standing up) looks on as her grade six students work on a map of the area.



Scholarly & Professional Development

ASTRONOMY AND PHYSICS DEPARTMENT

Dr. David Clarke, Astronomy and Physics Department, was recently asked to publish an article in the News and Views section of *Nature*, an international weekly journal of science. His article "Jet Propulsion is Essential for Young Stars," appeared in January 30, 1997's issue of *Nature*, Volume 385, pg. 387.

Dr. Michael West also recently contributed the cover article for January 1997's issue of *Sky and Telescope*, the astronomy publication with the largest circulation worldwide. As a result of his article "Galaxy Clusters: Urbanization of the Cosmos," he has received messages from around the world.

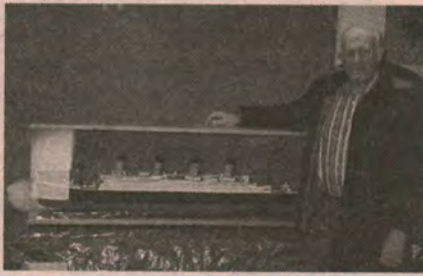
BIOLOGY DEPARTMENT

Dr. Henritta Mann, Biology Department, is researching long icicle-like rust formations, called 'rusticles', on the Royal Mail Steamship Titanic, which sank off Newfoundland. Dr. Mann and three biology students are researching how these 'rusticles' are formed. It's been discovered that they form with the help of microorganisms.

"This discovery has a significant impact on what we know about the nature of metals, bacteria, and how they interact. Ferrous materials from the Titanic are unnatural to the deep ocean and provide a rich, but unusual, "food source" for chemolithotrophic bacteria," she says. These bacteria usually found in low concentrations are rapidly covering the surface of the ship and very quickly enhancing the process of degradation which is affecting the vessel.

At the beginning of this year, Dr. Mann presented her findings in the United

Kingdom, and visited a number of schools and libraries in March to talk about this process. Presently, she is working with the Maritime Museum of the Atlantic to establish a permanent display concerning the Titanic.



Dr. Henritta Mann, Biology Department, is working with the Maritime Museum of the Atlantic to establish a permanent display based on Titanic research. An exact replica of the famous boat, which sank off Newfoundland, was made by Ross Goody. It took him eight months, but it was well worth it, he says.

CHEMISTRY DEPARTMENT

Recently, **Dr. Michael Zaworotko**, Chair, Chemistry Department, contributed to the News and Views section of *Nature*. His article on crystal engineering called "Cooperative Bonding Affords a Holesome Story," was published March 20, 1997, Volume 386, pg.220.

ENGLISH DEPARTMENT

Shao-Pin Luo, English Department, recently finished translating a Chinese novel by Jia Pingwa, called *The Castle*. Pingwa is the author of many novels and is a leading figure in contemporary Chinese literature. The English version was published by York Press Ltd, 1997.

FINANCE AND MANAGEMENT SCIENCES

Dr. Tony Charles, Finance and Management Sciences, co-ordinated a one day symposium held at Saint Mary's called Fisheries That Work: New Directions in the North Atlantic, on March 7, 1997. Over 200 people attended the conference.

GEOLOGY DEPARTMENT

Dr. Georgia Pe-Piper, Geology Department, is the first professor, and first woman from Saint Mary's University, to be appointed to the Council for the Natural Sciences and Engineering Research Council of Canada (NSERC).

The Council is the governing board for NSERC, which provides grants of over \$4 million annually to universities across the country. There are 21 members on the council, two are selected from Atlantic Canada and seven are women.

Dr. Pe-Piper's commitment to the Sciences and her encouragement of women to pursue this field has earned her respect from her peers and fellow scientists around the world. She has been with the University for the past 15 years, and during that time she has actively promoted young women to pursue geology and other science related venues.

Dr. Victor Owen, Geology Department, published "Compositional Constraints on the Identification of Eighteenth Century Porcelain Sherds from Fort Beauséjour, New Brunswick, and Grassy Island, Nova Scotia, Canada, in *Historical Archaeology*, Volume 30, pp. 88-100, 1996. He also recently published "Compositional Characteristics of 18th Century Derby Porcelains: Recipe Changes, Phase Transformations, and Melt Fertility," in the *Journal of Archaeological Science*, Volume 24, pp. 127-140, 1997.

SOCIOLOGY DEPARTMENT

Dr. David Perrier, Sociology Department, participated at the Canadian Association for Civilian Oversight of Law Enforcement conference, Halifax, in September, 1996.

Dr. Helen Ralston, presented "Temple is the Last Place I would Go for Help: The Ambiguous Role of Religious Ideology in Family Life," at the annual meeting of the Association for Sociology of Religion, New York City, in August, 1996. ▽

English Students Launch Literary Journal



Displaying the latest English Journal is (left to right): Ben Harnish, Elizabeth Barrett and Jeff Keizer.

For the sixth year in a row, the English Society has published a literary journal highlighting talented young poets and short story writers at Saint Mary's University.

Beachglass II: Poems, Short Stories and Critical Essays, was launched on March 14, 1997 in the University's Art Gallery. More than 30 people submitted work, and 21 were published. A lot of hard work was done behind the scenes by a limited number of people who poured their heart and soul into this project. Elizabeth Barrett, 21, the only English major involved in this project, who will be graduating this year, played a key role in seeing this journal produced. Ben Harnish, 20, a second year Bachelor of Arts student, was also instrumental in this project, as was Jeff Keizer, 18, a first year Bachelor of Commerce student and president of the Association College of Entrepreneurs.

Barrett's hard work did not go unnoticed and she recently received the literary M award from the student association, which is the highest award for literacy. "I can recognize good poetry but haven't written any," she says. Along with Barrett's award, the English Department handed out three poetry awards at the launching, recognizing contributing authors Lindsay Kyte, who published "The Dance" and Bob Ashley's "I useless stone."

Joy Baker, Brent Smith and Stan O Smith published three short stories and Michael Taboski wrote "Visa Gold: World Champion," as a critical essay. The book costs \$3 and over 150 copies were printed. A limited number are still available, and copies can be picked up at the English Society's office, located on the fifth floor of the Student Centre. ▽

MAKING THE NEWS

St. Patrick's Day was celebrated in style at Saint Mary's University. Known for their celebration on the day, called the "drowning of the Shamrock," Drs. Cyril Byrne, Co-ordinator, D'Arcy McGee Chair of Irish Studies and Pdraig O'Siadhail, Chair of the program were busy all day with interviews on CBC-TV, ATV's Breakfast Television show, Live At 5, CBC Radio's show Maritime Noon, and *The Halifax Chronicle Herald*, on March 17, 1997.

Dr. Margaret Harry, English Department, gave an interview on the meaning and history of the word "honeymoon" for CBC Radio, Saint John, on February 21, 1997.

Dr. Edna Keeble, Political Science Department, presented her research on the sex trade in the Philippines on CBC Radio's Morningside show on April 4, 1997.

David Lane, Technician, Astronomy and Physics Department, talked about Comet Hale-Bopp on CJCH and CBC Radio during his regular "Star Gazing"

feature on March 10, 1997. On March 17, 1997, Lane did his weekly section focusing on the comet on CBC's Information Morning show. The day before on March 16, 1997, Lane spoke with CKBW about the comet. Later on March 19, 1997, he talked with reporters from ATV and ATV's Headline News concerning the comet Hale-Bopp. On March 24, 1997, Lane appeared on ASN's Breakfast TV show to talk about the Moon and comet.

Professor Howard Nemiroff, Finance and Management Science Department, discussed "insider trading" with a reporter from CBC TV's First Edition show on April 4, 1997.

Dr. Leonard Preyra, Political Science Department, did a commentary for CBC Radio on Women in Politics, on February 25, 1997. Dr. Preyra also wrote an editorial piece in the *Globe and Mail* about Prime Minister Chretien's decision to guarantee that 75 out of 301 Liberal candidates will be women in the upcoming federal election on March 14, 1997. On March 20, 1997, Dr. Preyra was busy answering media requests from ATV, CBC Radio, CBC Calgary, MITV and CBC TV regarding the resignation of Nova Scotia Premier John Savage. Later on March 26, 1997, he appeared on CBC TV to talk about the visit to Nova Scotia by John Manning and Jean Charest and their party platforms. On April 3, 1997 Dr. Preyra spoke with a reporter from the

Canadian Press about the Nova Scotia Government's priorities in the aftermath of Savage's resignation.

Dr. Hermann Schwind, Management Department, spoke with a reporter from the *Globe and Mail* for an article on future trends in personnel and human resources on March 11, 1997.

Dr. Ramesh Venkat, Marketing Department, talked with a reporter from ATV about the tickle me Elmo craze which hit Metro last December on March 14, 1997.

Dr. John C. O'C Young, Professor Emeritus, Chemistry Department, gave an interview to a reporter with *The Daily Observer*, in The Gambia which talked about the fully computerized chemistry laboratory that Dr. Young has set up as part of Saint Mary's Extension Program in Banjul, The Gambia, on February 12, 1997. On April 3, 1997, Dr. Young spoke with Philip Fine of the *Higher Education Chronicle* about his participation in The Gambia project and his recent trip there to set up a lab.

Editors Note:

It was incorrectly reported in the last feature of this column that Dr. Victor Catano did an interview with ATV concerning psychology. It should have read that Dr. Brent Vulcano, Psychology Department, did the interview with a reporter from ATV. ▽

Habla Usted Ingles?

by Renee Field

Each year, more foreigners travel to Canada to upgrade their English language skills. Now, more government agencies and foreign companies are starting to send their employees abroad to improve their English language training.

Saint Mary's University's Teaching English as a Second Language (TESL) Centre is leading the way by developing specialized short-term Intensive English programs such as English for Personal and Professional Communication (EPPC) and English for Academic Purposes (EAP). Recognizing that many employees can't afford a year's leave of absence from their company, or their own work, the TESL Centre has developed seven and eight week programs targeted for people who are already familiar with the English language.

"I have problem with listening. I want to improve my English skills," says Antonio Ortega Contreras, 40, who is attending an EAP course at Saint Mary's. Contreras, and co-worker Sergio Garza Vives, 33, were sponsored by their employer, Agroindustrias Moderna, a Mexican company which specializes in producing a wide variety of agriculture products.

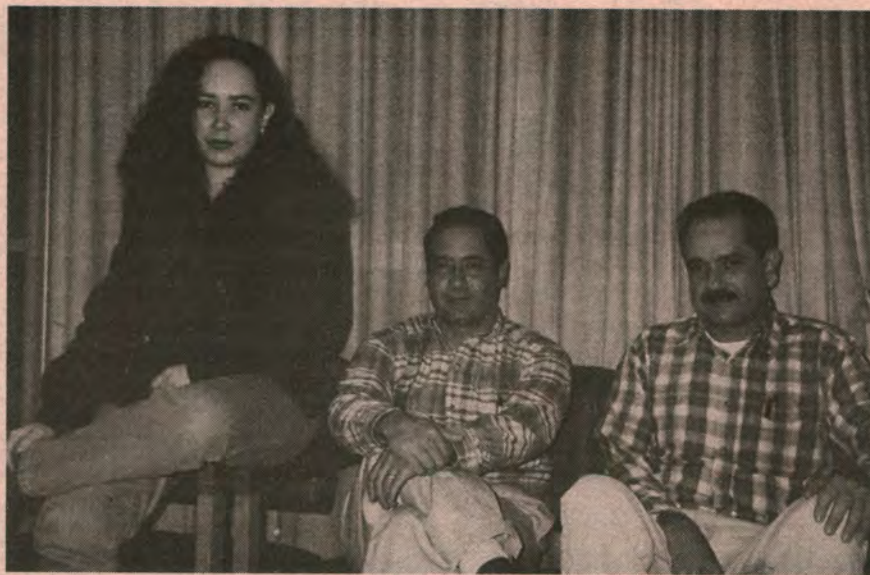
"Business English skills are essential, because when businessmen visit we have to be able to explain things. English is very important," says Vives.

Both engineers by training, their employer recognizes the potential of having two employees, who work in different departments, fluent in English. With each term costing about \$1,500, the two Mexicans were able to stay for two terms. A small price to pay for two employees who will be able to converse with potential English buyers to sell Agroindustrias products.

When Contreras found out that he would be given the opportunity to improve his English language skills, he jumped at the chance. After consulting with a number of people and his employer, he chose Saint Mary's for two reasons. Without a large Spanish speaking community around the university he would be forced to learn English and secondly, his employer joked that the weather would force him to stay inside and study, because it would be too cold outside.

"The first week was very hard," says Contreras. "It's all very different — the manner of living, the people, food and weather. This is the first time in my life separated from family for long time."

Most people who upgrade their English take the EPPC program. While the EAP program is designed for people who wish to continue with university, both Vives and Contreras liked the rigorous research and academic training the program provided.



Maria Reynoso, 24, is taking an EAP program at Saint Mary's. She already has a public accounting degree from ITAM University in Mexico, and wants to improve her English language skills. Next to Maria is Sergio Vives and Antonio Contreras, both have been sponsored by their company to upgrade their English language skills at Saint Mary's University.

"We like to provide opportunities throughout the year for students to enter into the program. We have five official start dates and other fairly continuous intake times," says Maureen Sargent, English as a Second Language Co-ordinator. The TESL Centre also offers courses geared for specific disciplines, and in the past has provided courses on English for Science and Technology and the English of Economics for visiting scholars.

The majority of students come from Korea, Japan, and the Middle East, how-

ever more are coming from Latin American countries each term. Enrolment has tripled from last year, with now over 400 students taking these programs.

Contreras' time at Saint Mary's finishes at the end of April and two months later Vives will return to Mexico. They both realize how lucky they were to be sponsored by their employer, and are eager to show off their new English language skills to potential clients. ▽

What Factors Create Cheating Relationships

Cheating, lying and taking advantage of the situation are topics close to one Saint Mary's professor's heart.

While Dr. Ashwin Joshi, Marketing Department, is interested in opportunistic relationships, it's not the human heart wrenching ones he is researching, but the relationship between buyers and suppliers.

Recently, Dr. Joshi was awarded a three year Social Sciences and Humanities Research Council of Canada grant valued at about \$39,000 for three years to continue with his unusual line of research.

"This is a new, exciting area. It really does appeal to me. My original idea was to do a dissertation on lying. I'm fascinated with dark behavior," says Dr. Joshi, 28, who's been with the University for one year. For the past six years he has been trying to determine what factors predetermine this type of behavior in exchange relationships.

This research braves new ground and reaches out to the social humanities by touching on the sociological and psychological issues which work in a relationship. Those factors don't worry Dr. Joshi, who has a liberal arts background mainly in sociology, along with a PhD in Management from Queen's University.

As part of his research Dr. Joshi conducted an experiment with a sample of purchasing managers in Canada, where they were asked to play the role in a given scenario describing a relationship with a particular supplier. They were then

informed that the supplier was experiencing a temporary crisis, to see how they would act. "One surprising result from this study was that purchasing managers who were highly dependent on the supplier acted more — not less, as originally expected— opportunistically against the supplier," says Dr. Joshi.

Understanding why people cheat is difficult and Dr. Joshi believes that "Dependent buyers did in fact behave more opportunistically. Follow-up investigations revealed, however, that this was only true when the dependent buyers had a poor prior relationship with the supplier. When the prior relationship with the supplier was healthy, buyers came through for the supplier in the supplier's time of need."

The marketplace has changed dramatically in the last decade. Today, long-term contracts are becoming the norm, replacing traditional short-term arrangements. "Opportunism was okay in short-term relationships, but it is the death-knell of the new, emerging long-term relationship model," he says. For long-term relationships to succeed, trust and open communication are essential.

So the moral of the story is to keep the lines of communication open, be honest and maintain friendly relationships with all clients, businesses, and people, because these are the foundations from which effective and efficient relationships develop. ▽

Two Students will Attend WUSC Seminar in Peru

Two Saint Mary's students will be making their way to Peru, as part of the 50th World University Services Canada (WUSC) International seminar, held in May 1997.

Natasha Sacouman, 23, a Master's International Development Studies (IDS) student and Maria Yax, 31, an honors IDS student, applied in November 1996 to WUSC for the seminar. They were thrilled to discover that their applications were successful. Only two other universities across Canada have two students selected to attend the seminar.

"This is a great opportunity to give Canadian students first hand experience in a developing country and we're going to be doing our own research projects," says Yax.

Since 1948, WUSC has hosted an international seminar. Originally the seminar began as an international student conference. The first one was held in post-war Germany. Many of the young men who fought in the war had a chance to go back to Germany as part of an international effort. Every year, since then, WUSC has met the challenge of bringing students together from across Canada for an educational cross-cultural experience.

This will be an entirely new experience for both students. "This is an international cross-cultural seminar experience," says Lisa Pitre, Atlantic Liaison Officer, WUSC, who is co-ordinating the seminar. Thirty students across Canada were selected to attend the six week seminar. A total of seven students were selected from Atlantic Canada.

The students will be divided into three groups of 10, each with a professor who will act as their advisor. An orientation in Canada for three days will provide the stu-

dents with more information, along with a week long stay in Lima, the capital of Peru. After Lima the groups will go to a specific town for three weeks, either Trujillo, the second largest city in Peru, Puno or Cuzco, a tourist area known for its ancient Mayan ruins. Host families will provide accommodations.

A major part of the seminar is the research proposals which the students will undertake while staying with their host families. Yax plans to conduct research on women's groups and how they use popular education as a tool for development. She belongs to the Latin American Popular Education Group, which is a small group that recently established itself in the Metro area.

Sacouman is researching community based development projects in rural areas and hopes to discover linkages among the workers. She is wondering how they receive support and resources from each other.

"Research is a tool for their inter-cultural exchange," stresses Pitre. During the final week of the seminar the students will have a debriefing and submit a final report, which will be published by WUSC.

The students have to raise \$2,700 each to attend the conference. They are planning a number of fundraising activities and are hoping to receive donations from other organizations and groups. Organizations interested in helping the students are encouraged to contact the WUSC office at (902) 496-8725. ▽

First US Deaf President of a University Receives Honorary Degree

"We will no longer accept limits on what we can achieve," said I. King Jordan, President, Gallaudet University, Maryland, to a cheering crowd of university students following his appointment as the first deaf president of the United States' only four year degree granting institution for hearing impaired students.

The statement also applies directly to Jordan, who assumed the position of president after a week long student protest at the institution where his education began. The drive for success never left Jordan who, following a motorcycle accident at the age of 21, became deaf. Instead, the accident forced him to "notice life" and to pursue his academic interests in psychology. He received his Bachelor degree in psychology from Gallaudet University and later a Master's and doctoral degree from the University of Tennessee.

Tackling the challenge as a deaf president, his day is filled with not only administrative tasks that need to be fulfilled for the university, but he has become an international spokesperson for the hearing impaired. He is constantly encouraging deaf people to break new grounds to become lawyers, doctors, CEO's or anything else they desire. Along with this drive, is relentless energy which enables him to run more than 12 marathons and ultramarathons (a marathon that consists of 50 to 100-mile runs through rough terrain).

Saint Mary's University, which is a proud sponsor of the Atlantic Centre of support for Disabled Students on Campus, recognizes the need to honor an individual who has helped change the view of deaf people worldwide. At spring convocation, Jordan will receive a Doctor of Civil Law. ▽



TD Vice Chairman Receives Honorary Degree

Robert (Bob) Kelly, 43, has a long-standing relationship with Saint Mary's University. Twenty-two years ago he graduated from the University with a Bachelor of Commerce degree, which helped him launch his finance career.

Since graduating in 1975, he has never looked back. Only three years later, in 1978, he received his Chartered Accountancy designation and in 1986 he received a Master of Business Administration degree from The City University, London, England.

While many people move from company to company to acquire new diverse skills, not so for Kelly. He started at the Toronto Dominion Bank, the fifth largest domestic bank in Canada in 1981, and has quietly and quickly moved up the ladder of success. Previously the Executive Vice President Finance, he became Vice Chairman in August 1996.

Throughout his banking career he has held a number of positions with growing power including head of Capital Markets and Fixed Income business and closer to home, head of the Bank's Atlantic Division in Halifax, Nova Scotia.

"From my perspective, Saint Mary's, delivered a solid foundation in business theory, taught by some truly outstanding professionals, and in the process they helped me establish some lifelong friends," says Kelly, about his continued involvement with the University. He actively supports varsity football at Saint Mary's and is a past member of the Board of Governors, and trustee, Art Gallery of Ontario.

This year to acknowledge his commitment to both the University and the world of finance, Saint Mary's University will confer on him a Doctor of Commerce at spring convocation. ▽



Recognizing One of Canada's Great Writers

Poet, writer, editor, independent scholar and artist are key words to describe one of Canada's leading contributors to the humanities.

Douglas Fetherling, 48, a self-taught writer and journalist, has played an instrumental role in the development of literary works in Canada and the continued role of journalism in society through the publication of a number books. He is probably best known for his literary column with the *Kingston Whig-Standard*, in Ontario and his recent publications, *Travels By Night: A Memoir of the Sixties* and *Year of the Horse: A Journey through Russia and China*.

The former consulting editor of *Books in Canada*, a highly prized literary tool for avid readers, he is also the former literary editor of the *Toronto Star*, and instructor in the journalism and urban planning departments at Ryerson Polytechnical University, Ontario. Fetherling is also a contributing editor to *Saturday Night*, *Canadian Art* and *The New Brunswick Reader*; editor of the journal *Canadian Notes and Queries* and general editor of the monograph series "New Views on Canadian Artists."

Besides literary endeavors, he is actively involved in the arts community and is a frequent juror on the Ontario Arts Council, Canada Council, including the Governor-General's Award panel and former trustee of the Arts Foundation of Greater Toronto. He has also worked with the Writers Union of Canada and the League of Canadian Poets. Fetherling, won the 1995 Harbourfront Festival Prize "for a substantial contribution to Canadian letters."

His work has earned him praise from peers and colleagues throughout the nation, and he has been written about in most major Canadian newspapers. Fetherling is currently working on a number of projects including two books called, *Defending the Undefendable*, and *The "Saturday Night" Companion: Eleven Decades of Canada's Oldest Magazine*, as well as a number of poetry publications. He is always juggling literary endeavors and his work will continue to place Canadian literary publications in the forefront. ▽



Honoring a Religious and Ecological Guru

A world renowned leader in the areas of religion and ecology will receive an honorary degree at Saint Mary's University during spring convocation.

Dr. Thomas Berry, 82, is well known for his publications which delve into the many diverse religious areas. His published writings include *Buddhism*, *The Religions of India*, *The New Story*, *The Dream of the Earth*, *The Universe Story* (co-authored with Brian Swimme) and *Befriending the Earth* (co-authored with Thomas Clarke).

Born in North Carolina, he entered the Monastery of the Passionist Community, New England Province, in 1934 and was professed August 15, 1935. He was ordained to the priesthood in 1942 and one year later pursued graduate studies in history at The Catholic University of America, Washington, DC. His professional roles include professor of world religions, Department of Theology, Fordham University; president, American Teilhard Association and he established the Riverdale Centre for Religious Studies, Riverdale, New York in 1970. He remained as director of the centre until 1995.

As a cultural historian, Berry understood the ecological crisis as it relates to modern culture. He associated the intensity of the human instrumentalization of nature in the West with the breakdown of a unifying story out of which former generations of Christians had lived. Berry received notoriety for *The Universe Story*, which he wrote using contemporary scientific cosmology as a basis for a story in which evolution of the physical universe could be related to the history of nature.

Berry will receive a Doctor of Letter this May and will also give a public lecture following Convocation. ▽

Ethical Issue Discussion Groups

Dealing with difficult ethical issues can be made easier through group discussions. That is the premise of a pilot project of the Institute of Human Values at Saint Mary's University.

Starting this September, the Institute plans to organize groups of about 12 people who are concerned with a particular ethical issue. Each group would comprise a diversity of experience, such as that of parents, teachers, clergy, academics, students, business people, social service providers and law enforcement personnel. Examples of issues are: euthanasia, sexual freedom/responsibility, animal rights, and fairness in income distribution.

Groups would meet three to four times, to share perspectives on the issue, to formulate questions, and to pool information gathered by group members. The hoped-for outcome for each participant would be greater clarity and commitment regarding what stance or action to take. Mutual consideration among participants is intended to be a hallmark of the process.

Inquiries and expressions of interest are invited at this time. Contact Donald Weeren, Institute of Human Values, Saint Mary's University, Halifax, N.S. B3H 3C3, tel: (902) 420-5753, fax: (902) 420-5181, or e-mail: Donald.Weeren@stmarys.ca.

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ARC Sends Students Up North

Two Anthropology students will be basking in the sunlight high up in the Arctic this summer conducting field work as part of a research grant they received from the Northern Scientific Training Program.

"I've never been on the other side of New Brunswick," says Jason Doherty, 22, about the chance to travel to Whitehorse to conduct field work. Jason, along with Sharain Jones, 22, are both third year Anthropology students. They were the only Saint Mary's students to apply for funding of this nature and were quite surprised to discover they both received grants.

Jason's research is a cross-cultural comparative analysis of harpoon head-types between Eastern Canada and the Yukon territory, and Sharain plans to compare male and female tool-kits. Jason is interested in Arctic pre-history, and how the people lived, survived and used the harpoons.

"The main reason to harpoon them (animals) isn't to kill them but to slow them down," he says. The people who lived in the Arctic thousands of years ago used harpoons to kill seals and caribou, and today that tradition continues. Jason will be working at an archeological site and his task will be to analyse any harpoons they discover. He hopes to find differences between the technology of har-

poons found in the Arctic and ones found in Newfoundland, where another site exists. "I want to look at how they've adapted and changed, and what the differences were and why they were changed," he says.

Asked how he got interested in this field and he quickly recalls being a 12

people and how they interact as the two sexes," she says. Looking at tool-kits that are over 80,000 years old, she hopes to determine what they were used for and if men and women had created specialized tools that were gender specific.

Both students face the unknown; working in a strange environment with people

that speak another language and have a unique culture, but most importantly, the students will have a six week adventure. Their main base is Yukon College and Doug Rutherford, an alumnus from Saint Mary's who graduated with a Bachelor of Arts degree in 1986, is their contact person. He also happens to be the Director of Anthropology for the college.

Throughout the year the students received guidance from the

University's Arctic Research Committee, which encouraged the students to apply for funding. To qualify for funding the students had to show that they were committed to Arctic research and anthropology. Not a problem for these two — both plan to continue their studies to the PhD level ▽



Jason Doherty, 22, and Sharain Jones, 22, are both third year Anthropology students, who will be travelling to Whitehorse thanks to funding by the Northern Scientific Training Program.

year-old looking at a *National Geographic* magazine story detailing archeology. He still has that issue today, to help guide him in the pursuit of history and archeology.

For Sharain, this will provide her with field experience, giving her an edge when she applies for her Master's in Anthropology. "I'm always interested in

Double Standard Practices in Africa



Dr. Owen Wiwa, brother of Ken Saro-Wiwa, who was hanged by Nigerian police on November 10, 1995, spoke about Shell's deplorable practices in Nigeria.

People in Nigeria who care about the environment, their way of life and who speak out against the deplorable practices of the oil producing companies in their country are being tortured, hanged, jailed indefinitely, forced into hiding or exiled. But still, the fight continues.

Dr. Owen Wiwa, brother of Ken Saro-Wiwa, who was hanged by Nigerian police on November 10, 1995, spoke about what is happening in his country to about 300 people at a public talk at Saint Mary's University, April 3, 1997.

Shell is the largest oil producing company in Nigeria and has over 100 oil wells operating on Ogoni tribal land which is about 12 miles long. With net profits of \$9 billion worldwide, the company has never compensated the Ogoni people for use of their land, for the environmental devastation which has occurred because of broken pipes lines and for the continued health risks the people face daily, such as contaminated water and malnutrition. Today, the Ogoni are one of the poorest people in Nigeria, says Dr. Wiwa.

"Roads were built between oil well and oil well, not villages," says Dr. Wiwa, summing up Shell's commitment to the people of Nigeria. Dr. Wiwa asked Nova Scotians to seriously consider if they want to do business with a company which did business with an Apartheid government in South Africa and which continues today to back a brutal dictatorship in Nigeria.

"The issue is of double standards. The one reason is the color of the people. They (Shell) will clean up here (in the West), but not there," says Dr. Wiwa. "You have to ask yourself, why would a company prefer to deal with a dictatorship than a democratic country?"

Echoing his questions was Howard Epstein, Municipal Councillor, District 14 and Chair, Ecology Action Centre-Sable

Offshore Energy Project (SOEP) Committee. Today in Nova Scotia, Shell and Mobil are two contenders for the Sable Offshore Energy Project. "We think it's very relevant to look at the international record of companies. This is our resource. To my mind, all these factors, the trustworthiness and history of these companies comes into play. This is a non-renewable resource, once it's gone it's gone. Will we be in an advantageous situation 25 years from now?" asks Epstein. Urging people to consider the records of these two oil companies he also questioned the health risks associated with the use of natural gas and the fact that only 240 jobs will be created with the huge mega project. "Our government has lots of opportunity to not go ahead at this time. I think this is not a good deal for Nova Scotia," he says.

Editor's Note:

Currently, environmental hearings concerning SOEP are taking place throughout Nova Scotia and New Brunswick. On April 7, 1997 the first hearing took place in Halifax. The next, April 28, is scheduled for Fredericton, and on May 26 the final one will take place in Halifax. For more information concerning SOEP call (902) 496-0950/website: www.soep.com. ▽

Labrador Project To Investigate Different Kings of Environment Knowledge

The Gorsebrook Research Institute, Saint Mary's University and Environment Canada have teamed up to facilitate the development of a research program which will incorporate aboriginal philosophy and culture as it relates to the environment.

The Northern Environmental Assessment Process — Developing the Capacity to Recognize the Intrinsic Values of Northern Landscapes and People, states that "Aboriginal people in Northern Canada have relied on the environment for sustenance for thousands of years and have over time amassed an intimate, experience based knowledge of the environment in which they live. This knowledge is so interwoven with Aboriginal philosophy and culture that it is often precluded from or at best poorly represented in decision-making processes such as Environment Assessment."

That sentiment is echoed by Professor Chris Fletcher, Anthropology Department, who is overseeing this project. "We are looking at ways to incorporate the cultural perspective... the traditional ecological knowledge of the aboriginal population of Labrador."

Environment Canada has agreed to fund \$18,000 over the next year for the development and incorporation of traditional ecological knowledge on the biophysical environment of Labrador.

"The goal at this point is to develop collaborative partnerships with Aboriginal communities so that data gathered will reflect local priorities as well as scientific interests. This way the research will be more likely to benefit everyone," says Prof. Fletcher. ▽



A ceremonial signing of the Letter of Agreement between the Gorsebrook Research Institute and Environment Canada took place on March 24, 1997. Pictured (back, left to right) is Professor Chris Fletcher, Anthropology Department, Saint Mary's University and Geoff Howell, Head, Interpretation and Integration Section, Environment Canada (front) Dr. Kenneth Ozmon, President, Saint Mary's and Garth Bangay, Director General, Atlantic Region, Environment Canada.



Shown with their hard earned awards are (left to right): Jonah Taussig, Male Rookie of the Year, Dana Olsen, Female Athlete of the Year and Kristi Jo Robinson, Female Rookie of the Year.

Celebrating a Year in Sports

Another athletic season was celebrated by the varsity Huskies at the Annual Athletics Banquet. Top honors of the night belonged to the Volleyball Huskies who won their first Atlantic Universities Athletic Association title this year.

Team MVP's

Men's Basketball - **Jason Medford**
 Women's Basketball - **Jadranka Crynogorac**
 Women's Volleyball - **Nadine Sinclair**
 Women's Soccer - **Signa Butler**
 Men's Soccer - **Kevin O'Carroll**
 Hockey - **Mike Weatherbie**
 Football - **James MacPherson**
 Track and Field - **Joanne Doucet and Drew Higgins**

Annual Individual Awards

- John Jones Memorial "The Unsung Hero," went to **Derek Hurdle, Men's Basketball.**
- Vern Creighton "Manager of the Year" award went to **Paul Mason, Football.**
- The Robert G. Hayes Award for outstanding contribution went to **Carol MacLean, mother of Richard and Ted MacLean, former Football Huskies.**

Major Awards

- President's Award for Academic and Athletic Excellence went to **Bonnie MacLean, Women's Basketball and Neil Morley, Football.**
- Female Rookie of the Year went to **Kristi Jo Robinson, Women's Basketball.**
- Male Rookie of the Year went to **Jonah Taussig, Men's Basketball.**
- Female Athlete of the Year went to **Dana Olsen, Women's Volleyball.**
- Male Athlete of the Year went to **James MacPherson, Football.** ▽

Milk Energy All-Stars

Five Saint Mary's basketball Huskies were selected as all-stars in the Milk Energy AUAA All-Star Basketball Game held at the University of Prince Edward Island, in February, 1997.

Chosen from the Women's Basketball Huskies were Jad Crnogorac and Toni MacAfee. The Men's Basketball Huskies were represented by Jason Medford, Bobby Hurdle, and rookie Jonah Taussig. ▽

Off to the World Cup in Japan

by Virginia Jackson

Most students look forward to sitting back, relaxing, and catching their breath after exams in April. The same could be said for second year Art student Tami Jones. The only difference with Tami is that she will be catching her breath in British Columbia, Australia and Japan, all within a three week time frame.

Jones, 21, a psychology major at Saint Mary's, has earned a spot on the Senior National Field Lacrosse team and will be heading to the World Cup at the end of April in Edogawa, Japan. As one of the youngest members of the team (ages range from 17-33), she'll play defence.

In her five years of playing lacrosse, Jones has earned two provincial championships and played on the 1995 National Junior team. Her original position on the field was offence but she switched early in 1995 when her coach needed a defence player during a league game. She was such a natural at the position that the coach made it a permanent change. "I'm glad that I tried the position," she says.

When Jones came to Saint Mary's she wanted to play varsity sports and since the University doesn't offer a lacrosse team, her next choice was field hockey. Sharon Rajaraman, Head Coach, Field Hockey Huskies, is glad she did. In lacrosse the dominant hand is left and right handed stick skills, which is a real advantage in field hockey.

"There are a lot of similarities between the two sports," says Rajaraman. "Tami had already mastered the reverse stick when she came to us which is one of the hardest skills to teach. Her ability to stop/start separates her from other players. To be able to stop, change directions and catch the opponent is one of her great qualities as an athlete."

Jones is looking forward to the crowds that have been promised for the championship. "We've been told that there could be upwards of 15,000 fans at each of the games. That will be a big change for us. At the Junior World Cup there were only a couple of hundred spectators but the athletes can really feed off of their excitement."

For some athletes, the pressure of competing in a World Cup is distracting. Jones has the exposure of competing at this level and has been able to raise her level of play for the situation. "When we played against England in the final bronze medal at the Junior World Cup, we were down 8-5 with 1:47 minutes left in regulation play. The first overtime, they were up two with eight seconds left. We tied it up and were the first to score in the second overtime sudden death."

Ontario and British Columbia have historically been the powerhouses of lacrosse players and even though Jones is originally from Ontario, she's pleased to be representing Atlantic Canada at the World Cup. Jones heads off to British Columbia to

meet the rest of the team the third week in April. The team will then travel to Melbourne, Australia for a week of practice before flying to Edogawa, Japan. Canada will open up the World Cup against England, ranked number two, on April 27, 1997. ▽



Tami Jones heads to Japan.

Learning How to Slam Dunk

The noise is overwhelming, as over 100 children, ages eight to 16, practice dribbling, hoop shots and skillful passes with each other in the field house of The Tower, all part of this year's March break basketball camp.

For the eighth year in a row, Ross Quackenbush, Head Basketball Coach, organized the camp for children. While it might seem chaotic at times, in truth it's organized fun for the children as they learn how to maneuver a basketball, hone their passing skills, and most importantly learn how to slam dunk.

"We get a lot of positive feedback from campers and parents. We try to improve the camp every year," says Quackenbush. "By and large everyone is pretty happy." With a

70 per cent return rate, it would be hard to argue otherwise. Just ask Alex McPherson, a nine-year-old from Tower Road School in Halifax who has attended basketball camps four times at the University.



Taking time-out from March Break basketball camp are (left to right) Hawthorne Elementary School students Mike Bridges, Al Halavrezos and Alex McPherson, from Tower Road Elementary School.

As part of the camp a small prize is given out to the "camper of the day" and "camper of the week," and Alex's team once received recognition as the "best team for relay," something to quickly boast about to the other campers.

"We give little prizes to get them pumped up," says Quackenbush, and it certainly seemed to work, as fellow campers quickly informed Alex that his team wouldn't remain the best for long.

"I want to work on my left hand dribbling," says Mike Bridges, a nine-year-old from Hawthorne Elementary School in Dartmouth. "I could improve on the right hand, but I want to learn to dribble with both," he says, grinning. Ask why and he quickly answers that it would give him a competitive edge.

The camp is split into a morning and afternoon session and some children attend both sessions, but on average the three instructors, Jill Healy, Scott Munro and Quackenbush handle about 80 children. Typically another eight to 10 men and women basketball athletes are also at the sessions to help out and offer friendly advice. The cost of the camp was \$115 for all day

and \$60 for half day sessions. Currently, Quackenbush is gearing up for this year's summer basketball camp.

Note:
 Basketball, Hockey, Soccer, Girls Volleyball, Multi-Sport, and Mini University camps are being held this summer. Call (902) 420-5429 for more information. ▽

New Marketing Co-ordinator

Larry Uteck, Acting Director, Athletics and Recreation, is pleased to announce the appointment of Dana Clements as Co-ordinator, Marketing and Sales for the Tower.

Clements will be familiar to many on campus as she was the Co-ordinator, Conferences and Special Events from 1983-93. Among her new challenges, Clements will tackle boosting varsity club memberships, promoting a fall general membership drive and marketing corporate sponsorships. ▽



Dana Clements, Co-ordinator, Marketing and Sales, The Tower.