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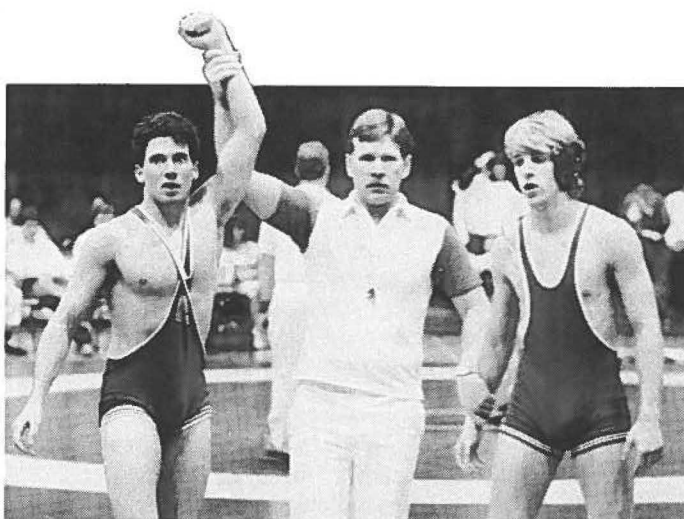
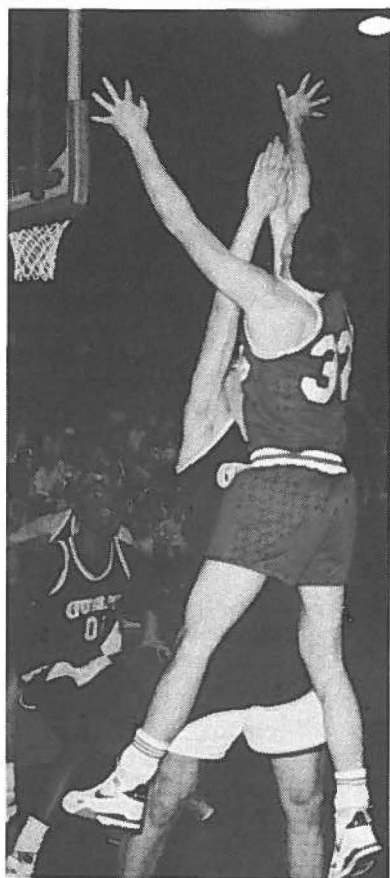
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# Lakehead University Agora

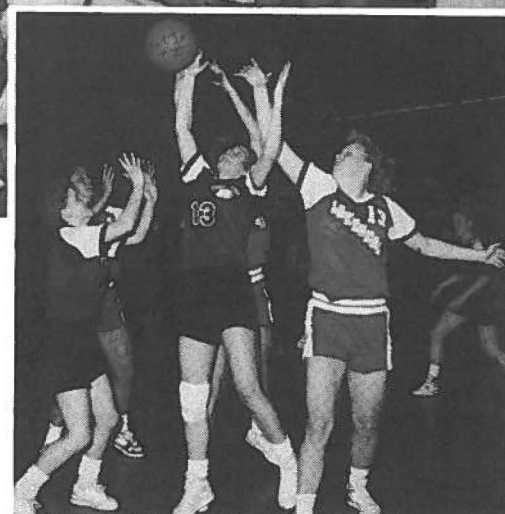


THUNDER BAY, ONTARIO VOL. 7. NO. 3

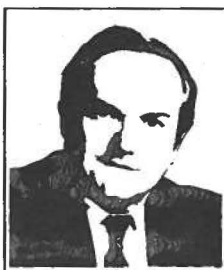
MARCH 1990



*The  
Climb  
To  
Excellence*



## Report From the President



**Dr. Bob Rosehart**

### FEDERAL BUDGET

The recent federal budget of Mr. Wilson is just a further reflection of the desperate financial shape of Canada. For years, governments have lived beyond their means, and now Canadians must face the music. What is more disturbing than this bad planning by previous governments are the "targets" of the Mulroney machine. Health care and post-secondary education are very significant programs that will feel the brunt of the transfer payment cuts. It has been estimated by Treasurer Nixon that, for next year, this represents about \$500 million for Ontario alone. Approximately 70% of the transfers are directed at health care, and it is clear that the public will not tolerate reduced access. On the college and university fronts, any reductions here would seriously cripple the future of the country in the coming decade when we are going to see fewer and fewer people enter our work force. The budget has financial vision, but it is sadly lacking in an overall long-term strategy for the nation.

Initial comments from the Ontario government seem to indicate that they will maintain their commitments and support to post-secondary education and its importance to the future development of this Province. It is clear, once again, that accessibility will become an issue. It may be in the future that university entrance is limited and more students will involuntarily be directed to a renewed college system. As well, the university system will have to deal collectively with significant tuition fee increases.

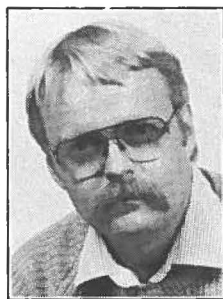
Obviously, the fallout from the transfer payments reduction will have some impacts on Lakehead University. It is far too early to predict what specific impacts these will be, but the approval of the 1990/91 Operating Budget is being delayed until May so that we will know the impact of the Ontario budget expected in early May. In the interim the Vice-President will be reviewing all planned budgeting expenditures for the 1990/91 year.

### APPLICATIONS FOR 1990/91

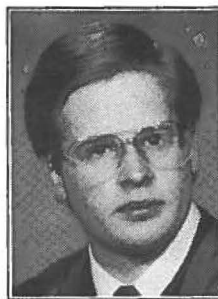
In whatever type of future funding scenarios that Lakehead University may face, student enrolment and student retention will be critical parameters. It looks as if, provincially, the system is close to peaking next year with only a modest 0.6% increase in high school applicants for the Fall of 1990. However, Lakehead is, at this stage, showing a 10.7% increase in applications, the highest of any provincial university. Several of our programs are continuing to show very significant increases in student interest. Particularly encouraging are Arts, Co-op Computer Science, Education, Physical Education, Engineering and Nursing. A recent study of the Lakehead Board of Education has shown that 63% of their graduates who pursue a university degree do so at Lakehead University.

### LAKEHEAD GRAD HIRED BY NASA

I just heard about how a professor's interest in keeping track of his students paid big dividends. Ulf Runesson, School of Forestry, went to a conference in Georgia last year and got on a mailing list for the Stennis Space Centre in Mississippi. When he discovered they were looking for a forester with remote sensing background he immediately thought of Robert Zakulak an '89 grad from Winnipeg. Ulf contacted the parents, put the parties in touch with each other and the result was a successful match. Robert's background in forestry with CARIS experience was unique and perfect for the position of developing the forestry application side of the operation. Stennis is an affiliate of NASA mandated to commercialize space and maintain the major software package for remote sensing. Looks like we are now an established contact with NASA thanks to Ulf's efforts.



*Ulf Runesson*



*Robert Zakulak*

### SILVER JUBILEE ACTIVITIES

A special celebration was held in Atikokan on Friday, February 23, to recognize the contributions made to Atikokan by Lakehead University

during the first 25 years of L.U.'s existence. Presentations were made to Lakehead University on behalf of the local member of government, the school boards, and the Township of Atikokan. A display of Visual Arts was complemented by a series of selections by the Music Program's vocal ensemble. A good time was had by the approximately 150 participants including a special guest of the Atikokan students, Dr. E. Zimmermann of the History Department. Other guests included home-town faculty member, Professor Margaret Boone.

### NOR'WESTERS WIND-UP

As the season ends, I must congratulate our student athletes, coaches, and programs for their excellent showing in the Ontario Leagues. Without wanting to single out particular students, special attention is deserved by John Laplante, Sharon Knowles and Kelly Breutigam as well as the first place finish by our Ladies' Nor'Wester Basketball Team. I have been very impressed by the sportsmanship demonstrated by our teams often under very difficult circumstances. Students, faculty and community participation at the C. J. Sanders building is on the increase, and L.U. crowds are becoming notorious in the rest of the leagues. On recent weekends, the Field House has hosted approximately 1,000 participants per game.

### L.U./CONFEDERATION COLLEGE FITNESS EXPERIMENT

Have you taken advantage of the experimental access to the College's facilities yet? If not, you still have time. At the end of the project, I would be interested in your input as to what your experiences were.

### SHARON MCKAY APPOINTED DEAN AT U. OF REGINA

I would like to congratulate Professor Sharon McKay who has accepted the position of Dean of the Faculty of Social Work at the University of Regina beginning July 1990. This speaks well of Sharon personally and professionally and the experience she has gained during her 15 years at Lakehead University.



## Around Campus

### DR. BOB ROSEHART RE-APPOINTED FOR 5-YEAR TERM

The recommendation of the Presidential Review Committee to re-appoint Dr. Rosehart was unanimously approved by the Board of Governors. Chairman of the Board, Dr. James Colquhoun, said, "the Presidential Review revealed overwhelming support of Dr. Rosehart's administration". Rosehart has been on faculty at LU since 1970.

### DISTINGUISHED INSTRUCTOR - DR. MANFRED KEHLENBECK

Dr. Manfred Kehlenbeck, Professor of Geology, has been awarded the prestigious Distinguished Instructor Award for 1989-90. Professor Kehlenbeck has been teaching at LU since 1971.



### DEPARTMENT OF MUSIC ON TOUR

Student and faculty ensembles from the Department of Music recently completed a four-day tour of North-western Ontario. Funding for the tour was provided by the Centre for Northern Studies and the co-ordinator was Jeff Gibson, a sessional lecturer in the Department of Music. The tour, which took place February 15 to 18, consisted of six concerts - two each in Fort Frances, Dryden and Kenora.

Daytime performances by student and faculty instrumental ensembles took place at Fort Frances and Dryden High Schools and at Beaverbrae High School in Kenora. A total of 1500 high school students attended the performances. On Thursday, Friday and Saturday evenings (Feb. 16 to 18) the Lakehead University Vocal Ensemble, Faculty Woodwind Quintet and Student Ensembles gave evening concerts at Fort Frances High School, Knox United Church (Kenora) and Dryden High School. Repertoire ranged from works by Bach, Mendelssohn and Vaughn-Williams to jazz standards by Duke Ellington and George Gershwin. Media coverage of several of these events was

extensive and the Department of Music wishes to thank the Dryden High School Drama Club and the Lake of the Woods Concert Group for their assistance in organizing the tour. A run-out to Marathon by faculty and student instrumental ensembles is planned for the end of March.

### ADRIENNE CLARKSON'S PLEA TO CITY COUNCIL

In May 1989 I accepted an honorary doctorate from Lakehead University. Part of the pleasure of my acceptance was the knowledge that the Lakehead was a historic community with links to the opening of the west and with its key position in the centre of our beloved country.

I am now deeply distressed to learn of the motion before your city council, giving vent to ignorance, mean-mindedness and lack of understanding of the historic deal which forged our country and which has made it unique.

I strongly urge you as a Canadian whom your community has honoured to embrace the spirit of moderation and decency upon which this country was built and reject this motion.

### EVERY DOLLAR COUNTS

#### Alumni Annual Fund close to reaching \$100,000 Goal

Opening the mail at Alumni House is one of the more pleasant tasks because every cheque received puts the staff a little closer to reaching its goal. By March 1 the Alumni Association had raised \$92,652 from 1578 donors and saw the average gift increase to \$58.

Money is used to fund scholarships and bursaries, to purchase books and journals for the library, and to fund a variety of department and faculty projects. The need for more endowed scholarships is particularly acute because Lakehead University is a comparatively young University. We need to attract students to our northern campus and scholarships are a major incentive. During the past year alone, the Alumni Association established three endowed scholarships valued at \$10,000 each - all from money raised through its Alumni Annual Fund.

Designating money to library acquisitions is another popular choice among the alumni. Last year the Alumni Association directed over \$3,000 to the Chancellor Paterson Library which was used in the purchase of two new subscriptions to CD ROM data bases that the Library would not otherwise have been able to afford. Chief Librarian Fred McIntosh estimates that the average cost of a book for the University collection is \$46 and says that the support provided by the Annual Fund is important in helping the library purchase the materials needed to meet the many demands of its users. This year, close to \$8,000 has already been designated to the Library and is sure to be a welcome addition to the Library's budget.

None of these projects could be possible without the generosity of our 14,000 alumni living in all parts of Canada, the United States and overseas. Last fall, over 90 alumni volunteers participated in a

Phonathon that raised \$30,000 toward the Association's six-figure goal. In February the Alumni Association will have tried something new - using paid student callers to telephone alumni living in Northwestern Ontario. The efforts of six energetic students (most of whom live in LU residence) will very likely push the Association over the top. If you have not already contributed to the Alumni Annual Fund, why not take a moment now to do so? Your generosity will benefit everyone connected with LU - especially its future students.



Anne Deighton, Jo Baratta and Fred McIntosh look on as Leila Wallenius demonstrates the CD ROM data base in the Chancellor Paterson Library.



#### NEW CAMERA INSTALLED

Graphics manager Ben Kaminiski oversees the operation of the new graphics camera with operator Debbie Tew. "The computerized programming component will reduce operator time but the big advantage is the elimination of many steps for the high volume, repetitive jobs" says the manager. The old camera was donated to the Visual Arts Department. Approximately 900 requests for graphic support are received annually (including camera work for half-tones, PMT's and negatives). Categories of work include research, teaching aids, student promotion, administration, and off-campus requests.

#### POWER OUTAGE

The entire university campus was without power for an extended period when the main feeder line shut down. According to the Director of Campus Development Jim Podd, "It took 6 hours to isolate the problem and we were able to restore power to the residence area first. The crew worked from 4 pm on Sunday, February 25 until nearly noon on Monday when the Bora Laskin building was finally brought on line".

#### TWO GREAT CONCERTS

RUDOLF NUREYEV and Friends will dance at the Thunder Bay Community Auditorium on Monday, April 9 at 8 pm. Tickets are \$100, \$45, \$37.50. Call the Box Office.

The Lakehead University Vocal Ensemble will perform Choral Music of the 20th Century under Director Allan Beavan on Monday, April 9. The concert will be at St. Paul's United Church at 8 p.m. Tickets are available at the door (\$5.00/\$7.00).

## IS SMALL FINALLY BIG?

### LAKEHEAD TOPS THE CHARTS!!

Application figures recently received from the Ontario Universities. Application Centre in Guelph suggest an increase of .6% in applications for admission to Ontario universities from Ontario high school students for 1990-1991. Applications to Lakehead University have increased by a 10.7% percentage, well above the provincial average. Lakehead University has experienced the largest increase in applications of the provinces 17 universities. The increase may reflect a trend wherein larger numbers of students are applying to the province's smaller universities. According to Registrar Pentti Paularinne, "students say they want to attend a smaller university-a place where they can experience that personal touch. To date, Lakehead University has received a total of 2,319 applications compared to 2,094 at this time last year. Lakehead has in fact already received 100 more applications than were received to the end of the admission cycle last year and the University will continue to accept applications until September for the 1990/91 fall term. The 2,319 applications is the largest number of applications which Lakehead University has received from high school applicants in the past five years. Here are some highlights and trends concerning applications from the high school sector:

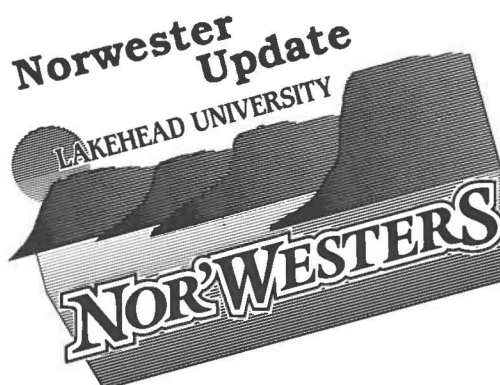
- Applications to Arts programs have increased by over 20% (563 this year and 466 last year).
- Applications to Science Programs have increased 2.8% largely due to the introduction of a new computer science co-op program.
- Applications to the concurrent 4-year Education degree program have increased by 41% (564 this year and 399 last).
- Applications to the Physical Education degree program are also up by 19% (231 this year and 193 last year).
- Engineering applications are up by 21% (117 this year and 96 last year).
- Nursing experienced a 6% increase, significant because nursing applications were down 20% last year over the previous year.

The only areas which have experienced declines in application are Business, Forestry and Outdoor Recreation. The decline in business and forestry applications parallels a provincial trend wherein applications to business programs are down -5% and to forestry by -23%. This is despite the fact that employers indicate there is a big demand for graduates of both business and forestry. Lakehead continues to attract more students from north-western Ontario (55% in the current year). This is reflected in the recent survey 'Where do They Go' conducted by the Lakehead Board of Education indicating that 63% of the students pursuing university studies are enrolled at Lakehead University. We have no reason to believe statistics would not be similar for the Lakehead Catholic Board.



## Northern Studies A Pre-feasibility Investigation of the Quetico Research Centre

In early December, a contract between the Ministry of Northern Development and Mines and the Centre for Northern Studies was signed awarding the Centre \$12,000 to conduct a pre-feasibility study on the viability of a research centre associated with Quetico Park. Quetico Provincial Park is a rich storehouse of archaeological, historical, and biological resources. It already has a reputation as a world-class wilderness resource. The objectives of the study are to determine the most likely fields of research that would occur; to make a preliminary determination of market demands for research support; to prepare a general outline of the facilities that could be included in the research centre; to discuss management options for the facility; and ultimately, to make recommendations on the optimal approach and future considerations for a feasibility study. The goal of the study is to determine if the concept of a wilderness research centre has enough merit to be pursued at this time. This service contract is important to the Centre because it has direct application to the development of the community of Atikokan and because it has an interdisciplinary focus. The Centre's linkages with the Ministry of Northern Development and Mines are an integral function of the Centre's mandate. It is expected that the study will be completed in early May.



The Lakehead University Nor-westers are victorious in more ways than one. All varsity teams have done well so far this season and they are expected to do even better as they move into the crunch for top spot.

The Lady Norwester Basketball squad has earned a trip to Ottawa for the Ontario Women's Intercollegiate Athletic Association championship, March 3 and 4. The Lady Norwesters clinched top spot to win the West Division of the OWIAA after defeating the University of Waterloo 61-46. The team finished the season with an unbeatable 12-2 record and are currently ranked 8th nationwide.

The Lakehead Norwesters Men's Basketball team locked in a playoff spot after a 86-74 victory over the McMaster Marauders. The win earned the team

sixth place in the Ontario Universities Athletic rankings and a berth in the Ontario Universities Athletic Association playoffs. The Norwesters headed to St. Catharines to play Brock in one of two sudden death games. There they lost to Brock 78-66. The winner there will play in the final four at Western.

The Lakehead University Women's Volleyball team defeated Waterloo to sweep their final regular-season OWIAA series and advance to the provincial championship. The Norwesters finished the season with a 10-4 record and third place in the West Division of the Ontario Women's Intercollegiate Athletic Association. The championship tournament was held February 23 to 25 in Waterloo and Lakehead University defeated Windsor for the consolation title and fifth place overall.

Lakehead University wrestlers Mike Kirlew and Tony Gallo finished in the top three at the Ontario Universities Athletic Association championship. Kirlew, competing in the heavyweight division, finished second in his category and Gallo won a bronze in the 61 kg. class. They compete at the national championship held March 2 - 3 at Mount Allison University in Sackville, New Brunswick.

## MAKING A GREAT LAKE SUPERIOR:

Remedial Action Plans In The Basin  
March 22-24 1990

Lakehead Centre for Northern Studies at Lakehead University and The Canada and United States Lake Superior RAP teams are hosts for this conference to be held at Valhalla Inn, Thunder Bay. Remedial Action Plans, or RAPs, are part of a joint U.S./Canada initiative to clean up water pollution in the Great Lakes. The task can only be accomplished through co-operation at many community levels. This conference is our opportunity to work together to make a Great Lake Superior! Be an active contributor to the discussion. Meet others in government, business and environmental groups who are interested in solving international water pollution problems. For more information, please contact Betty Salo, Conference Coordinator, Centre for Northern Studies, Lakehead University at 343-8377.

## Spotlight On Cross -Country Skier Mark Puumala

Mark Puumala, a Geology graduate student, is not only a scholar but a successful athlete. Mark graduated in May 1989 with a BSc. from LU and received a NSERC scholarship to come back and do his Masters degree.

This is Mark's third season as a member of the Lakehead University ski team and his most successful. "The season has been going well. I've been improving all the way through. I skied in Sudbury a few weekends ago and made 11th place with 80 skiers in the race".

He has been training especially hard this year because this is his next to last season skiing for the university and he wants to do the best he can for the team. "I've been racing since I was 8 years old. It's my 15th or 16th year of racing."

Mark recently returned from Ottawa and the Ontario University Championships where he came 15th in the race. "I hoped to finish in the top 10 in this race but I skied my best. I was very pleased with my performance". Mark has set goals for himself. "This year I want to finish in the top 10 in Ontario. It's within reach. This summer I'll devote myself to training as well as working on my thesis at the university. I hope to be in the top 5 or even top 3 next season because it will be my last year with the university".

# Northern Insights

by Larry Sanders

At spring training camp for the New York Mets, a reporter once asked Casey Stengel what the prospects were for two twenty year old try-outs. "In ten years, one guy has a chance of being a star. In ten years the other guy has a chance to be thirty."

The laconic Stengel was well placed to make his prediction come true. Academics, on the other hand, usually lack Stengel's ability to pull strings, yet they often gaze into a crystal ball. Making predictions is now one of the academic's everyday responsibilities as an intellectual resource for society.

At an economic developer's conference held recently in Thunder Bay, forecasts by academics took centre stage, even though crystal balls were long ago cut out of academic budgets. Instead, the academics relied on analyzing the past and present, then projected those trends into the future.

The conference, called "Preparing for the 90's," presented the academics with a rare opportunity to influence the future direction of northern Ontario. The academics did not have Casey Stengel's authority to choose future players, but the academics did have the opportunity to inspire the thinking of other managers.

The conference was organized by the "Northwestern Ontario Economic Development Association" - a loosely-woven coalition of municipal economic development officers, industrial training specialists, economists, and civil servants.

The Association has spent years breaking down "my town first" parochialism in the field of economic development. Ideas and business opportunities are shared, except where commercial confidentiality may be violated. Scarce resources, both human and financial, are pooled rather than jealously guarded. The Association also recognized the need to break down the parochialism of being only "the northwest", and extended invitations to the conference to their counterparts in the northeast. The combined effect of all these initiatives brought nearly 200 delegates to the Airline Hotel January 10-12, and created a framework to make the conference an annual event.

The academics given centre stage included Dr. William Fyfe, the Dean of Science at the University of Western Ontario, Dr. David Foot, a demographer from the economics department at the University of Toronto, and economics

Professor Norman Bonsor from Lakehead. They were each asked to apply their expertise to paint their own portrait of the 90's, to equip the economic development workers with ammunition to "make it" in the turbulent times ahead.

Dr. Fyfe, an internationally respected environmental expert, frightened and challenged delegates with his graphic pictures of global pollution and overpopulation. He said the combined effects of soil depletion and global warming would transform northern Ontario into a "semi-arctic desert" within 20 to 30 years. He bluntly told the delegates, "Canada has no moral right to talk to anyone about the environment. We are now the biggest energy users in the world, and also hold the record for per capita methane gas

**"Demographics is the fundamental basis on which you must build your economic development strategies. Yes, you have to worry about lots of other things. But if you get the demographics wrong, you've got a very, very cracked foundation on which everything else is to be built".**

production. We are, per capita, the dirtiest people in the world." He encouraged the economic developers to recognize the new "green" context for their work. "There is a new word in the vocabulary of world management. It's that word 'sustainable'. Is what we are doing sustainable, even if we are making occasionally some money?"

Dr. Foot added demography to the economic developers' toolbox. "Demographics is the fundamental basis on which you must build your economic development strategies. Yes, you have to worry about lots of other things. But if you get the demographics wrong, you've got a very, very cracked foundation on which everything else is to be built." Like Casey Stengel, he based his analysis on the assumption "every year, we all get one year older," and showed how Canada's population is expected to peak within the next two to three decades, then start to decline, unless

Ottawa changes the nation's immigration policies, or there's an unexpected reversal in the declining fertility rate of Canadian women.

Northern Ontario, according to Foot, will have an even greater concentration of older people, and a further decline in the 16-25 age group. "The percentage of younger people is declining dramatically. That's why schools have had to be closed." For those planning economic development, that's distressing news, because "if you're looking for young, inexperienced workers, or young cheap workers to plan your economic development patterns around, they simply are not going to be there."

Professor Bonsor spoke the morning after Fyfe and Foot. Bonsor upset many delegates with his statement "When you look at development and diversification, I think anybody who believes that that is easy, or that every community represented in this room is going to do it, has been eating funny mushrooms. Not all small, or even some of the larger communities, will succeed in attracting new ventures to replace existing declining employment bases. We have spent, as a society, a lot of money, and a lot of time, attempting to attract ventures, firms, to northwestern Ontario. The success of that over the years has been very limited. And I don't think this is at all surprising."

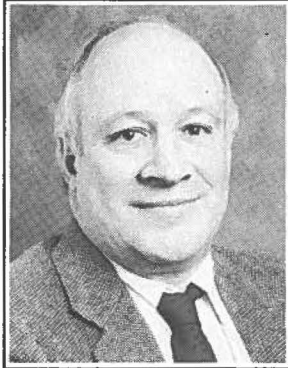
Delegates such as the executive director of Thunder Bay's Economic Development Corporation, Dick Charbonneau, challenged Bonsor. Charbonneau said that communities could diversify, if they took advantage of the Free Trade Agreement with the United States, and redefined their market as the North American midwest. Reluctantly, Bonsor agreed.

If the predictions of Fyfe, Foot and Bonsor are accurate, northern Ontario's future is one where the integrity of the environment is supreme, the market orientations are north-south rather than east-west, the labour force is smaller, older, and highly specialized, and only some communities now on the map will be there in 30 years. On top of that, the north, like the rest of Canada, will be under pressure from an overpopulated globe to fill in some of our "wide open spaces" with new immigrants.

That may not be a team that can win the World Series, but at least we'll all be ten years older, and we might have a good shot at making the playoffs.

## Doug Stone

Doug Stone has been appointed industrial technology advisor at Innovation North. He has a BSc and is a registered professional mechanical engineer. Doug brings to the university 18 years experience with the Saskatchewan Wheat Pool. "I hope to bring a good connection between the university and industry". Doug seems to enjoy wearing many hats at once. He is a lecturer in the first year technology program in the school of engineering which he refers to as "lots of work and a lot of fun". He also manages to continue work on his Graduate Business Diploma Program, hack away on his computer and fit in the odd camping, canoeing or skiing excursions with his family. You can meet this buzy man in his office on the fourth floor of the Centennial Building or by calling 343-8124.



## Tracy O'Neill



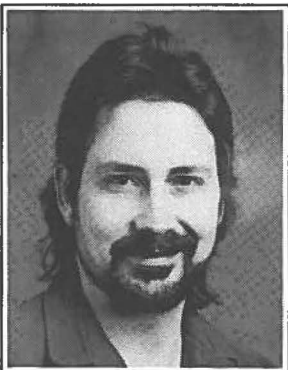
Tracy O'Neill works in Photocopy Services in the Library. Most of her work experience has been in the hotel industry but finds her job in the Library "totally different, definitely enjoyable". Tracy likes the pace on the second floor. "It's always busy. I like working with lots of people. Everyone is really friendly and I like the environment". Born and raised in Thunder Bay, Tracy spends some of her spare time doing crossstitch and various crafts. With the spirit of a true Northerner often she can be found "roughing it" in the great outdoors. Tracy's favourite fishing hole is Kab Lake where she and fellow outdoorspersons pitch their tents in the most isolated spot they can find.

## Dan Weeks

Meeting Dr. Dan Weeks in his office is a memorable experience. While the newly-appointed assistant professor in the School of Physical Education discusses cognitive psychology and how that relates to athletics one cannot help but notice the drums, weight lifting poster, an album with Charlie Watts and a kilt.

Originally from Sault Ste. Marie, Dan began his education at Humber College in music but quickly decided that the life of a musician was not for him. He earned a BA from the University of Windsor and his MSc from McMaster in 1985. A PhD at Auburn followed and a post-doctoral fellowship with the United States Air Force. Dan was at Purdue University in Wisconsin for over a year doing research and some teaching and looks forward to his future at Lakehead. "The potential is great. This university seems to be on the upswing compared to other Canadian universities. That was one of the reasons why I came here".

Music is still a big part of Dan's life and he's already joined the Thunder Bay Police Pipe Band. "I started in a pipe band at the age of 10 but at that time I wanted to be a rock star - maybe I'm just returning to my roots" he laughed.



## Emily Scott



The minute Emily Scott speaks, sparkle and enthusiasm are evident. Mrs. Scott was hired as the Special needs assistant in the Learning Centre. She is currently going department by department talking about the Centre's services. She feels strongly that it is critical to work together to ensure a unified approach to meeting the needs of students. She discusses problems in the classrooms and resources available to faculty and students. Another component of her job is to be a

liaison for the students and outside agencies that may be required. Emily describes herself as "one of the unfortunates who lives and sleeps her job. I admit the job becomes quite consuming." It's her passion for justice and equality, combined with her teaching background and a 12-year interest in reading and reading disorders that gives her insight into the special problems that some students face. "It surprises many people to discover that there are so many students who know that they have a learning problem and don't know where to turn for help." Scott believes that we always face the unknown factor but really the sky's the limit for all learners. "We cannot foresee what we are capable of. I believe that in the past, people just dropped out. That's why I'm so concerned that people come forward and seek help. It behoves the university to take a leadership role, and use our creativity to make it more possible for people with special needs to succeed."

## People, Papers/Publications & Special Projects



**Dr. Doug Thom**, School of Education, is currently researching aspects of public education financing in Ontario. He will be presenting a major paper on his research findings at the Learned Societies Canadian Association for the Study of Educational Administration (CASEA) Conference in June in Victoria.

**Dr. A. H. Mamoojee**, Department of Languages, presented a paper entitled "The Asian proconsulship of Q. Cicero: an appraisal" at the annual meeting of the Classical Association of the Canadian West, held at the University of Winnipeg on the 16th and 17th of February 1990.

### CALL FOR NOMINATIONS

Students, Faculty, and Alumni are encouraged to respond to the call for nominations for the Distinguished Instructor Award for 1990-91. The \$3,500 award is to be used to further the academic development of the faculty member. The award was given last year for the first time to Dr. Penny Petrone, School of Education. Nominations may be made by faculty members, Department Heads or Chairs, Deans, groups of at least five students or Alumni, with each group submitting a supporting letter. The nominating letter must be submitted to the Senate Committee on Teaching and Learning by May 30, 1990. A list of supporting documentation and the criteria for selection will be published by April 30, 1990. Candidates are expected to submit a full dossier by September 30, 1990. A faculty member may receive only one award every ten years.

### TBSO IMPLEMENTS RUSH SEATING FOR STUDENTS

In order to make concerts more accessible to students, the Thunder Bay Symphony Orchestra has implemented Rush Seats for its Auditorium concerts. The rush seating policy takes effect immediately and will continue into next season.

At any Symphony concert held at the Thunder Bay Community Auditorium, students can purchase rush seats at a cost of \$9.00 each. The tickets must be bought in person between 6:30 and 7 pm on the evening of the concert.

## Awards

In recognition of scholarly activity, research and publications, or service and outstanding contribution to their university and Department /School, the Deans of Arts and Science and Professional Studies announce the

### 1989/90 MERIT AWARDS

#### PROFESSIONAL STUDIES

Dr. K. Brown, Forestry;  
Dr. M. C. Courtland, Education;  
Dr. T. Song, Physical Education;  
Professor C. Loos, Nursing;  
Dr. S. A. Mirza, Engineering;  
Dr. V. R. Puttagunta, Engineering;  
Prof. R. Nelson, Business;  
Prof. M. Boone, Nursing;  
Dr. R. Lappage, Physical Education.

### 1989/90 MERIT AWARDS ARTS AND SCIENCE

Dr. J. E. Molto, Anthropology;  
Dr. M. Knowles, Biology;  
Dr. N. Weir, Chemistry;  
Dr. S. R. MacGillivray, English;  
Dr. J. M. Richardson, English;  
Dr. H. Rasid, Geography;  
Dr. G. Borradaile, Geology;  
Dr. R. Mitchell, Geology;  
Dr. J. D. Rabb, Philosophy;  
Dr. R. Delaney, Social Work;  
Dr. D. Nock, Sociology.

### CONTRIBUTIONS TO TEACHING AWARDS

The Senate Committee on Teaching and Learning is pleased to announce that the following have been voted recipients of the Contributions to Teaching Awards for 1989-90:

#### Faculty of Arts and Science

- Dr. B. O'Connor  
- Dr. M. Sellick  
- Mrs. P. Warywoda

#### Faculty of Professional Studies

- Mr. D. H. Alexander  
- Dr. M. H. Khan  
- Mr. M. Zettek

Three Faculty members, Dr. S. R. Goldstein, from the Arts and Sciences, and Mrs. M. MacLean and Dr. D. Klassen from Professional Studies were nominated but since they received the award two years ago were ineligible for this competition (the award can only be given to a Faculty member once in three years). Nominations were also received for Mrs. D. Wawia and Mr. S. Chase from Professional Studies. All are to be congratulated for the fine support they received from their students. The time and effort given by the students to write the letters and obtain signatures is very much appreciated by the Committee.



*John Russell, Director of External Relations, happily receives the last installment of a five year \$20,000 pledge from Labatt's Ontario Breweries. District Manager Gord Kyle presents the cheque.*

## Research News

### FROM THE OFFICE OF GRADUATE STUDIES AND RESEARCH

Research Officer: Anne Fiorenza

#### RESEARCH OPPORTUNITIES

For further information on any of these Research Programs, please contact Anne Fiorenza, Research Officer, at ext. 8223

#### GRANTS AWARDED

**Dr. Alan Gilbert (Chemical Engineering)** in conjunction with Canadian Pacific Forest Products Ltd., has been awarded a research grant through the Ministry of Colleges and Universities' University Research Incentive Fund (URIF). This research will use a new high consistency mixer/reactor to bleach kraft pulp with chlorine dioxide in a search for conditions which minimize the formation of chlorate. The URIF program encourages university-industry research partnerships by matching dollar for dollar, eligible investments by the private sector in university-based contract research.

**Dr. Moira McPherson (Physical Education)** in collaboration with Digi-Laser Inc. has been awarded a URIF research grant to study the "Feasibility of a Customized Approach to Computer Assisted Learning." The proposed feasibility study is designed to evaluate the user acceptability and costs associated with the implementation of a dynamic interactive course medium using a combination of hypertext, graphics, animation and artificial intelligence software techniques.

**Dr. Muzibul H. Khan (Electrical Engineering)** has been awarded a Science and Technology Agency Fellowship by NSERC and the Japan International Science and Technology Exchange Center (JISTEC). Dr. Khan will spend 6 months in Japan working with the Communications Research Laboratory on a research project entitled, "Hand-off Control for Microcellular Communication Systems."

#### NEWS FROM SSHRC

##### 1990 Strategic Grants

Many changes have occurred in the SSHRC Strategic Grants program this year. These changes were made in accordance with recommendations made by the Paquet Task Force. The principal conclusions from this review were that greater attention be given to promoting interdisciplinary and intersectoral approaches to pressing research issues. Therefore, support will be given in the following areas: (a) Strategic Research Grants (\$100,000 per year up to \$250,000 over three years); (b) Research Networks (\$40,000 maximum per year); (c) Research Workshops (\$15,000 maximum per year); and (d) Partnership Development Grants (up to \$5,000). The new themes introduced by SSHRC will provide Lakehead University researchers the opportunity of participating in exciting areas of research of national importance. The new themes for 1990 are: Women and Work; Education and Work in a Changing Society; Managing for Global Competitiveness; Science and Technology Policy in Canada; and Applied Ethics.

**Deadlines: April 17, 1990 and October 15, 1990.**

##### Canadian Studies Research Tools (CSRT) Program

The purpose of the CSRT program is to further the develop-

ment of Canadian studies by making accessible primary and secondary print and non-print, documentary materials of importance for advanced research in Canadian studies areas. The program supports bibliographic projects and archival projects, with awards reaching a maximum of \$75,000. This program particularly encourages the preparation and dissemination of research tools which will ensure broadly based intellectual access to materials in areas inadequately covered by existing research tools.

**Deadline: April 1, 1990.**

#### Learned Society Conference

For all SSHRC Eligible faculty attending the Learned Societies Conference, SSHRC invites all researchers to attend information sessions concerning changes in the Council's research grants and strategic grants resulting from the report of the second task force on priorities (Paquet Report) and the report of the research grants review committee (Courtney Report). For dates and times please refer to the Conference Agenda.

#### SOCIAL SCIENCE FEDERATION OF CANADA

##### Aid to Scholarly Publications Programme

The program is designed to assist the publication of works of advanced scholarship which make an important contribution to the advancement of knowledge, but which are unlikely to be self-supporting. The programme helps defray the publisher's deficit on the production and marketing of the book.

**Deadline: Open.**

#### NEWS FROM NSERC

##### 1990 Strategic Grants

For the past few years, the Strategic Grants Program has been subject to evaluation, review and analysis by NSERC. The result has been the establishment of mission statements for each of the following ten strategic themes: (a) **Advanced Technologies** (Information Systems; Biotechnology; Industrial Materials, Products, and Processes; Manufacturing Systems; Energy), (b) **Natural Resources** (Food, Agriculture and Aquaculture; Forestry; Mineral Resources; Oceans and Inland Waters), (c) **Environmental Quality**, and (d) **Open**.

NSERC Strategic Grant Representatives will be on campus on March 29, 1990 to discuss the strategic themes and changes.

**Deadline: May 1, 1990.**

#### THE AMERICAN FOUNDATION FOR AIDS RESEARCH

##### Request for Proposals

The American Foundation for AIDS Research (AmFAR) invites researchers to submit a pre-application Letter of Intent for projects in biomedical, humanistic, and social sciences research relevant to AIDS. This RFP is issued for their Research Grants Program (\$50,000 per year) and Small Grants Program (\$5,000 for travel). **Deadline: April 10, 1990**

#### DEPARTMENT OF ENERGY MINES AND RESOURCES

##### Environmental Studies Revolving Funds

The Environmental Studies Revolving Funds are intended to address only issues directly related to oil and gas exploration and development needs. Issues associated with offshore activities in southern Canada are funded by the EMR. Issues associated with offshore activities in Canada's north are funded by Indian and Northern Affairs In Northern Development. **Deadline: Open.**

#### CANADA: DEPARTMENT OF COMMUNICATIONS

International Cooperation Assistance Fund on New Information Technologies

The International Cooperation Assistance Fund's purpose is to encourage the private and public sectors to acquire from abroad the know-how necessary to strengthen the development of competitive Canadian Industry in new information technologies. The fund is intended to increase participation by Canadian organizations in cooperative international research projects. The maximum value of the award is \$200,000 per year. **Deadline: Open.**

#### NATIONAL GEOGRAPHIC SOCIETY

##### Research Grants

The purpose of the National Geographic Society Research Grants is to support research projects relevant to the field of geography as interpreted broadly. Grants normally are made only for field research. The areas of study supported are Anthropology, Archaeology, Astronomy, Biology, Botany, Ecology, Geography, Geology, Oceanography, Paleontology and Zoology. **Deadline: Open.**

#### NORTH ATLANTIC TREATY ORGANIZATION (NATO)

##### Advanced Research Workshops

The purpose of the Advanced Research Workshops programme is to contribute to the critical assessment of existing knowledge on new, important topics, to identify directions for future research and to promote close working relations between scientists from different countries and different professional experiences. The areas of study supported are Applied Sciences, Social Sciences, Chemistry, Geosciences, Life Sciences, Physical Sciences, and Mathematics.

**Deadline: Open.**

#### RESEARCH CORPORATION

##### Cottrell Grants

Cottrell Research Grants are given to assist scientists to conduct basic research in the natural sciences. Research Corporation seeks to place Cottrell Research Grants in situations of genuine opportunity where well-timed support can lead to significant contributions to scientific knowledge and to the development of the investigator, his students and institution. **Deadline: Open.**

#### UPCOMING DEADLINE DATES

**World Wildlife Fund - Endangered Species Recovery Fund** (April 1, July 1, October 1, January 1), **Wildlife Toxicology Fund** (anytime).

**Laidlaw Foundation Program - Children and Families at Risk Program** (May 1, September 1, November 1), **Laidlaw Scholar Program** (anytime), **Laidlaw Conservation Program** (July 1).

**Canadian Institute of Ukrainian Studies - Research Grants** (April 1), **Doctoral Thesis Fellowship in Ukrainian History** (May 1, 1990).

**Ontario Ministry of Health - Research Program** (April 1, 1990)

**The G. Alan Roeher Institute - Research programs** (April 30, 1990)

**University Research Incentive Fund (URIF) - May 31, 1990**  
**Association of Universities and Colleges (AUCC) - Micro-funds** (May 1, 1990)

## Wawatay News



We've been cut!!!

Michael Wilson's budget has created a crisis for Native communications societies. Rumours of impending slashes and, in some cases, total cuts to these government-funded programs in the February 20 budget have become a reality.

No longer will Native newspapers be supported through the federal government. All money flowing to the Native Communications Program (NCP) has been cut as of April 1. The Northern Native Broadcast Access Program (NNBAP) has been cut by 16 per cent.

Twenty-one Native communication societies are in trouble!

Budget cuts to these programs will create severe financial problems for most of these societies, which will ultimately reflect in the programming and delivery of communication services to Native people. Using Wawatay as an example, a total cut of the NCP may mean no more community radio maintenance, higher rental fees for trail radios and no translation in Wawatay News.

Cuts to NNBAP will result in lower quality Native-language television and radio programming, as well as fewer on-air hours for both media.

As many as 20 jobs held mostly by Native people may be cut in Wawatay's Sioux Lookout and Moose Factory offices.

Our readers and listeners in the North will suffer great losses, including a major thrust in language retention, literacy, cultural preservation and the right to be informed through Native-language media.

So what can be done to fight these cuts? First of all, we need as many supporters of Native communications programs as possible to make lots of noise. Supporters have to yell loud enough for the Secretary of State to hear a united chorus of "no cuts" to these programs. It is important that people write letters to their members of parliament, the Secretary of State, and anyone else who will listen. If we don't start shouting now, we may be too late. We must prevent the presses from being stopped, the airways from being silenced, and a valuable tool in preserving and retaining Native language and culture from being lost.

Native communication services are too important to be thrown away so wantonly. We must fight, and fight hard, to survive. We need your help, now. Please write the Secretary of State and your member of parliament today.

#### Native communication programs affected



**16% cut to the Northern Native Broadcast Access Program**

which funds:

- Native radio and television programming



**100% cut to the Native Communications Program**

which funds:

- Native newspapers
- Translation services
- Community radio maintenance
- HF and trail radio maintenance and rental

Reprinted with permission from Megan Williams, Editor Wawatay

## DESPITE GAINS, WOMEN STILL UNDER-REPRESENTED IN ENGINEERING AND APPLIED SCIENCES - AUCC

Women still account for only one in eight full-time students in engineering and applied sciences in Canada, according to statistics published today by the Association of Universities and Colleges of Canada (AUCC). "Obviously, there are serious barriers to equitable representation of women in engineering," said AUCC President Claude Lajeunesse.

In fields like education and the humanities, our figures show that half or more of the students at both the undergraduate and graduate levels are women. A rate of only one in eight in engineering raises questions that need to be answered. "The AUCC is among five participants in an 18-month study, announced today by federal Science and Technology Minister William Winegard, to propose ways of attracting and keeping women in engineering. Other participants are the Canadian Council of Professional Engineers, the Congress of Canadian Engineering Students, Employment and Immigration Canada, and Industry, Science and Technology Canada.

**"A Shipwrecked Miami Couple Owe Their Lives To A Clever Gadget That Makes Seawater Drinkable"** says a catchy title. According to shipwreck survivors who endured 66 days adrift in the Pacific Ocean, they would have died where it not for a seven pound device with an appropriate name *Survivor*. The couple subsisted for more than two months on raw fish and the precious three litres of potable water squeezed out of the *Survivor* each day. The inventor is Dick Hembree an LU Engineering graduate. He is a design engineer at Recovery Engineering in Minneapolis. Lets hope he brings his amazing invention to Homecoming '90.

### ANOTHER SALTY STORY

Lisa Riseling, a member of the Mackenzie expedition and 1989 Honours Bachelor of Outdoor Recreation graduate, will spend the next six months sailing around the world. Riseling was hired as a midshipman aboard the *Pogoria*, a 47-metre tall ship from Poland that will serve as a floating classroom for about 20 students from West Island College in Pointe Claire Quebec. Her journey will include travelling up the Amazon River, up the western coast of Africa and into Poland's Gdansk. Dream come true? Call Jim Smithers who made the trip himself and recommended Riseling.

## Last Writes

Katherine Shedden, Editor

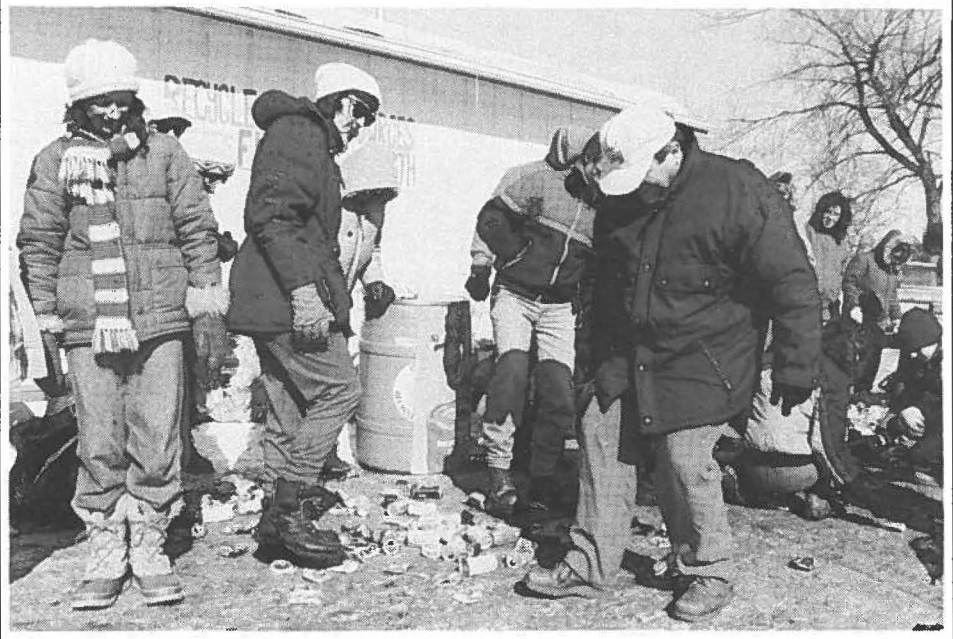
Ingolf Richter, my fellow editor at the Chronicle Journal, pressed a nerve when he recently made comments about sexism, university students and our student newspaper. It is paternalistic and condescending to dismiss the engineering students' efforts to investigate the appropriateness of their Godiva logo as "silly". I believe strongly that university students are full members of the "thinking adult community" and just as adults must take responsibility for their actions, so must students, whether 18, 28 or 48. His statement that university students think with their crotches is totally offensive.

I am constantly impressed with the calibre of student at Lakehead, whether it's the one who turned in a reporter's lost lens, the grad student who devotes countless (unpaid) hours to environmental concerns (see photo below), the head of a student club who organizes events for the community or one of the many who hold down part-time jobs in addition to full-time studies. We have 3,500 full-time students and another 2,500 part-time: does he really believe his comments apply to the majority. I do not.

I am informed that the *Argus* is the only weekly student newspaper published by a university the size of Lakehead. The staff does not deserve the whitewashing Richter offered. They cope well with limited resources, both human and financial. They turn out a weekly product that informs, challenges, educates and supports students. I'm trying to imagine the campus without this communication tool. Mistakes and weaknesses? Sure. I also see them in my publication and in the local newspapers.

Come on, Ingolf. What if your cynicism rubs off on the next generation of journalists or environmentalists?

Projects like this tin-can recycling project and the plastic mug program exist because of caring and dedicated students like ECHO President Lucie Lavoie. There are more 50 clubs on campus that serve to improve the quality of student life on campus and have a positive impact on the greater Thunder Bay community.



## Campus Calendar

To include your Department's event or activity in the Campus Calendar, please call Flo Sherren at 8300 or mail your information to SN1002. **Deadline for the April Agora is March 15, 1990.**

### MARCH

#### FREE CORNWALL CONCERTS

Recital Hall - 12:30 pm

Mar. 20 - Denis Brott, Cello (Toronto)  
Heather Morrison, piano - \$3.00

Mar. 25 - Lakehead University Wind  
Ensemble, Bora Laskin Auditorium  
- 8 p.m. \$3.50

April 9 - Lakehead University Vocal  
Ensemble - St. Paul's United Church  
8 p.m. - \$5.00/\$7.00

#### INTERNATIONAL FILMS

Braun Bldg. 1021- 8 pm

For information call 343-8260

Free - Everyone Welcome

March 9 - Three Men And a Cradle

March 11 - The Assault

### FRIDAY, 9

#### FREE PUBLIC LECTURE

Speaker: MIKE KAULBARS

Founder of "Friends of the Rainforest"  
(Canadian Chapter)

Topic: TROPICAL RAINFOREST  
SUSTAINABLE USE AND TOURISM

Hosted by the Outdoor Recreation

Student's Society and ECHO

SN-1015 - 7 PM

### SATURDAY, 10

#### Ninth Annual Women's Celebration

Potluck Supper and Entertainment

Jennifer Garrett, the Women's Choir

The Raging Grannies & International

Dances - Strathcona Golf Course

BRING A DISH 6:30 PM - 1 AM

### MONDAY, 12

#### FREE PUBLIC LECTURE

Speaker: DR. JOHN PERCIVAL

Geological Survey of Canada

Topic: ARCHEAN EVOLUTION FROM

THREE-DIMENSIONAL CRUSTAL

EXPOSURES OF THE SUPERIOR

PROVINCE

CB-3031 - 4 PM

### TUESDAY, 13

#### VISUAL ARTS IN THE NORTH

Speaker: Roger H. Boulet

Topic: Walter J. Phillips at Lake-of-the-  
Woods

Cornwall School - 7:30 p.m.

FREE ADMISSION

#### CAMBRIAN PLAYERS PRESENTS

**SAILING ON THE AGE WAVE"**

**Life Doesn't Stop - till you let it"**

University Centre Theatre - 8 PM

### TUESDAY, 13 & THURSDAY, 15

#### SILVER JUBILEE

#### SLIDE PRESENTATION"

The Beauty and Magnificence of the

Mediaeval Churches in Europe

Dr. Walter Crowe, Bus. Administration

Ryan Building 20247 - 9 PM

FREE ADMISSION

### FRIDAY, 16

#### FREE PUBLIC LECTURE

Speaker: DR. ROB KERRICH

University of Saskatchewan

Topic: THE GEODYNAMIC SETTING

OF GOLD DEPOSITS

CB - 3031 - 4 PM

Hosted by the Geology Department

#### ST. PATRICK'S DAY SOCIAL

MAIN CAFETERIA

### SATURDAY, 17 & SUNDAY 18

#### LU Spring Invitational Ski Series

Place: Big Thunder

Event: Slalom and Giant Slalom Races

10 am - 4 pm

Everyone Welcome!!

### TUESDAY, 20

#### CORNWALL CONCERT SERIES

Denis Brott, cello (Toronto)

Heather Morrison, piano - \$3.00

### WEDNESDAY, 21

#### CONFERENCE AND SEMINAR CENTRE

Speaker: FRANK SCARCELLO

Royal Trust

Topic: MUTUAL FUND INVESTING

7 - 9 pm

FREE OF CHARGE

### THURSDAY, 22

#### SILVER JUBILEE

#### BIRTHDAY PARTY #6

AGORA - 11:30 - 1:30 PM

### SUNDAY, 25

Lakehead University Wind Ensemble

Bora Laskin Auditorium 8 p.m. \$3.50

### TUESDAY, 27

#### FREE PUBLIC LECTURE

Speaker: DR. MATTI RAUDSEPP

University of Manitoba

Topic: DETERMINATION OF CATION

ORDER IN ROCK-FORMING MINER-

ALS BY RIETVELDT ANALYSIS

CB-3031 - 4 PM

### FRIDAY, 30

#### End of Classes Social

Main Cafeteria - 3:30 - 6:30 pm

### APRIL

### TUESDAY, 3

#### CONFERENCE AND SEMINAR CENTRE

Speaker: GINO L. ARNONE, Lawyer

When developing a Business concept,

this seminar will assist in your decisions

on how to approach the ideas of

whether to incorporate, develop a

Partnership, or decide on Sole Propie-

torship - 7 - 9 PM - \$10 per person

# Agora

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N F LAVOIE

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