

Inside:

- 4 Athletics wrap-up
- 5 Lakehead becomes 'Wonderstruck'
- 5 Juried art show - winners all!
- 11 Open houses for two services

Lakehead University Agora

THUNDER BAY, ONTARIO VOL. 6 NO. 4 APRIL 1989

Morgentaler visit brings controversy to Lakehead

Security checks and tension marked the visit of Dr. Henry Morgentaler to Lakehead University March 21.

People entering the lecture hall were searched and protesters outside voiced their feelings but there were no confrontations. About 400 people paid to hear Morgentaler's speech.

Referring to anti-abortionists as "religious fanatics" and a "quasi-fascist group" Morgentaler continued his crusade to legalize abortions. He told listeners about his fight against Canada's abortion law during the past 20 years. The law was struck down last year by the Supreme Court of Canada.

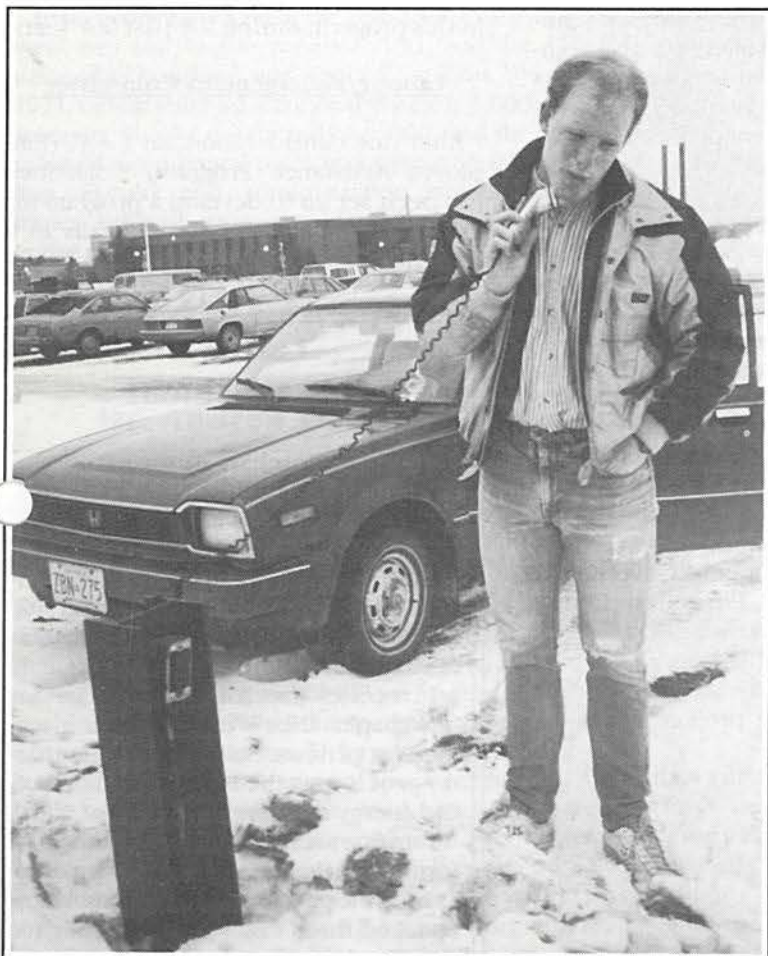
The plight of women who died or were maimed from crude "back alley" abortions is what prompted him to provide abortions. He said two basic principles have been upheld in his practice: that procedures be as safe as possible, and that no woman be turned away because of an inability to pay.

Morgentaler said his only quarrel with religious groups comes when they try to force their beliefs on others. He said the anti-abortion fanatics are dangerous. "They call themselves right-to-lifers, then they threaten to kill me," he said.

He said the decision to abort is usually made by a woman and her male partner. However, when the male wants the pregnancy and the woman does not, then it is a woman's right to make the decision alone, he said.

Morgentaler said the abortion debate should centre on how long into the pregnancy abortions should be allowed, rather than whether abortions should be permitted.

Morgentaler's lecture was sponsored by LUSU as part of an on-going speakers' program.



Park 'n' Shave: Peter Barnett, a 4th-year Physical Education student from Ottawa, took a few moments to shave in the parking lot before starting his day. He says mom's gift comes in very handy.

Elections

Hello new Student Centre, farewell to Roch

In last month's elections, students approved the building of a new student centre and elected a new LUSU president.

Roch Letourneau was defeated by Greg Beckford in the race for president. Beckford said he has been active on various LUSU committees and is ready for his term of office.

The LUSU executive for 1989-90 is as follows: Corinne Santa, Vice-President

Academics; Adam Miller, Vice-President Communications; Michael Miller, Vice-President External Affairs; and Rob Taniwa, is the Vice-President Finance.

Construction on the new Student Centre is expected to begin in the fall. To help pay for the centre, next year students will pay an additional \$5 per course, to a maximum of \$25, with another increase the following year.

English Immersion for Japanese Students

There is a very good chance that 30 - 40 post-secondary students from Japan will be living on the University Campus this summer for an intensive 30-day English Immersion program. Chairman of the Department of Languages, Emil Dolphin, and Director of Continuing Education, Dan Pakulak, are finalizing arrangements for a program which includes language development and the opportunity to experience Canadian culture - Northwestern Ontario style.

Report From The President



Dr. Bob Rosehart

Board Approves 1989/90 Operating Budget

After extensive consideration by the Financial Planning Committee, the Board of Governors approved, on March 23, 1989, the 1989/90 Operating Budget of \$40,611,000. This year's budget represents a significant increase over the 1988/89 operating budget of approximately \$37.7 million. We are targeting to end the 1988/89 fiscal year with a surplus of \$420,000, and the 1989/90 budget will reflect an operating deficit of slightly over \$500,000.

Overall, Lakehead's fiscal situation is good at this time due to the accessibility funding we are to receive as a result of enrolment increases in the fall of 1988. Expenditures this year will include increased numbers of faculty and support staff positions to deal with increased demands for service. Future year funding will be largely dependent upon the formula review currently underway by O.C.U.A.

Forest/Biology Building

After a false start last year and a tender price almost 50% over the approved budget, the Northern Forest/Biology Centre is close to the start of construction. The redesigned project has been successfully tendered and is within project cost. Construction is expected to start in May on this project.

Fate of Supplementals

By a close vote (25 to 24), the Senate voted to retain supplemental examinations for the time being until a complete "system" review can be undertaken by the Senate Academic Committee. It is expected that this review will consider all of the direct and indirect implications of either a partial or complete elimination of supplemental examinations at Lakehead University. Last year, only about 40% of those eligible to write supplemental exams did so and, of this

group, approximately 70% were successful (approximate 140 students).

Black Sturgeon Study Group

Response to my call for interest has been tremendous, and a meeting will be set up in late April to plan an orientation trip to Black Sturgeon for the Study Group.

Cornwall Campus

I think that we should congratulate our Cornwall Campus for the positive impact it has had in the local community. I have heard many positive comments about the music concert events and, as well, the visual arts initiatives targeted for the general public.

Student Campus Centre

Well, the student referendum was a strong endorsement for this exciting project, and the Board of Governors has now empowered the Campus

Development Committee to negotiate a formal agreement with L.U.S.U., a further step in making the Campus Centre a reality. An architect will be selected jointly with L.U.S.U. for both the Campus Centre project and the Regional Education Centre project. A decision by the Ontario Government on the Regional Education Centre project is expected by the end of April. Construction of the Student Campus Centre will be delayed if the Regional Education Centre project is not approved.

Lakehead University's share of the Regional Education Centre project, which contains classroom, office, and specialized space, is estimated to be approximately \$1.5 million, and this funding will come from the recently completed Partners Fund Drive.

The Student Centre will, I feel, have a major positive impact on "student life" at Lakehead University, particularly for the majority of students who live off campus.

Residence Construction Update

As I write this article, I can see roof trusses in the distance and some plywood sheeting. Progress, to date, has been excellent, and so has student interest in our new town house type residence.

City of Thunder Bay Scholarships



Jack Masters

After several years of reductions, the City of Thunder Bay has increased the Scholarship Program from 20 to 25 thousand for next year. This program is an important source of scholarship and bursary funds for our Thunder Bay students. The Mayor and Aldermen should be congratulated on the reversal of the negative trends in this program during the past few years.

Labour/Management Committee

After due consideration, an E.A.P. (Employee Assistance Program) Committee has been set up to develop a program for Lakehead University. More details in a future article.

Letter to the President

Hello Dr. Rosehart,

I hope you are enjoying your life. I received your letter sometime ago. It was very nice of you to answer my letter. I want to keep in touch with Lakehead University, beautiful Canada and its lovely people; I really miss you. I had a fantastic time there.

I receive the Alumni Association newspaper "Nor'Wester" which gives me a lot of news. So happy to hear that my prof is now the big boss and one of the energy minister consultants.

I am fine and still working on the platform with the off-shore oil company. During the past two years we have been attacked three times by Iraqi jet fighters. The last time, the American Navy attacked us. I was in charge of the platform and when I called the Navy to extend time for evacuation, they started shooting and I had to throw myself in the gulf. It took me one and a half hours to get rescued. I survived.

I love to hear news from Lakehead University, Thunder Bay. Please write when you have some free time. Give my best regards to your wife, my other profs in Chemical Engineering Department (Dr. Garred, Mr. Fels and Mr. Bruley.)

Your old student,
Gholam H. Yavary

The Lakehead University Act, 1965, was given Royal Assent by the Lieutenant Governor of Ontario on June 22, 1965, and came into force on July 1, 1965. May 1989 to July 1990 has been

designated the period for Silver Jubilee celebrations. Four Presidents have served during the 25 year history of Lakehead University. The first two presidents share some memories.

Dr. W. G. Tamblyn, 1st President of Lakehead University 1965-1972

The first 7 years in the history of Lakehead University were a time of chaos, confusion and excitement. It was a period of large increases in student enrolment, rapid proliferation of courses offered, rapid growth in the number of faculty, and a tremendous construction program to accommodate all of the above.

In the University's first year, 1964/65, enrolment was 466, faculty numbered 31, and the value of all buildings was under \$2 million. By 1971, enrolment had increased to nearly 3,000 students, faculty numbered over 200, and the value of the physical plant was over \$30 million. Faculty and administration operated under difficult circumstances. Planning of entire new degree and diploma programs was extensive and time consuming. Construction was continuous, but space requirements were



always increasing faster than the space available.

However, in times of expansion and growth, there is always excitement. Lakehead University certainly had some exciting times during this period - some pleasant and some not so pleasant. There was the "fake" professor of Psychology who created both a humorous and a sad situation in the early years of L.U. It was a period of the radical student movement with many protests occurring including a sit-in outside the President's Office. It was a time when an English Lord "broke the ground" for the Centennial Building by detonating dynamite. It was a time full of problems but also a time of promise for thousands of students. These promises were happily fulfilled.

Dr. Andrew D. Booth, 2nd President of Lakehead University 1972-1978

My first recollection of my time as President of Lakehead University is one of surprise. At the time of my appointment I was told that the Institution was in a healthy financial position, this illusion was rapidly dispelled when Grant Thompson, the then

Comptroller, came into my office on my first day to ask me what I proposed to do about the deficit! This proved to be a recurring theme during my whole tenure of office. A second problem was that of Graduate studies, an area of special interest to me. Here my efforts to start Ph.D. programs in areas of special excellence were frustrated by the dead hands of the Council of Ontario Universities and the older institutions. Their reasons were centred on the notion of "Critical Size", that is to say their belief that good Doctoral work was impossible unless the departmental size was greater than some minimum. This position was and is absurd, my own Ph.D. studies were done in the department of a Nobel Prize winner. The total faculty was 6 and the graduate student numbers 3! This was a common situation in good European Universities.

Despite these frustrations some academic progress was made and some graduate programs, albeit at the Masters level, were created. A final academic memory, of a more pleasant kind, was the rejection of a move to Unionize. I was saddened to see that my successor was not so fortunate. In a lighter vein there was the curious episode of the weighing of a Dean where the Arts faculty decided to evaluate the renewal of its then Dean by voting with 1 cent pieces which were then balanced against each other!

On the social side my thoughts are more positive. The friendship of many colleagues which continues to this day. The support of several Board of Governors Chairmen and of hard-working Board executive committees is pleasant to recollect.



Off-Campus visits to Dryden, Kenora and Red Lake to encourage students there were always memorable as were the numerous occasions when I had the opportunity of speaking to the business community and teachers of the area. The Symphony under two fine directors - Manuel Suarez and Dwight Bennett - was always a pleasure as were the festivities at LU. The Ice Carnival and a 'Casino' night organized by the students come to mind as exceptional events as do Carol singing in the Agora at Christmas. The annual dinner held by the Chinese staff and students was an event to which both my wife and I look back with pleasure. Both of my children graduated at LU and, although I had then retired, I still derive enjoyment from tapes made by my daughter of a splendid satirical review, composed by Evadne

Benson one of our Nursing Grads. Many of the Campus 'characters' were parodied and songs included 'The Merchant of Menace' (for the head of security) and witty items commemorating the doings of 'MacBooth' and 'Gorgeous George'. Finally I reflect on my last convocation speech in which I castigated M. Cretien for fiscal irresponsibility, plus a change...!

Coaches reflect on first year in new league

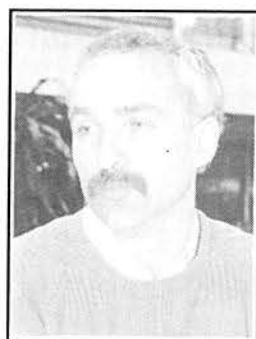
The athletic program has completed its first year in the new School of Physical Education and Athletics. The coaches agree that Lakehead University's athletes were moderately successful in competition.

This year marked Lakehead's first year in the Ontario University Athletic Association (OUAA) and the Ontario Women's Intercollegiate Athletic Association (OWIAA). Previously, varsity teams competed in the Great Plains Athletic Conference (GPAC).

Bruno Colavecchia, men's basketball coach, expressed some disappointment that the Nor'Westers finished out of the playoffs in their first year of OUAA competition. In spite of this, the team proved to be quite competitive and, given an additional year of experience, they will become a force to be reckoned with in the near future, he said. "This is a relatively young team and everyone is eligible to come back next year, so that bodes well for us," Colavecchia said.

The season ended on an upbeat note with the selection of John Laplante to the OUAA All-Star Team. The London, Ontario native, a former GPAC All-Star, averaged 16.5 points per game and an amazing 63 per cent three-point shooting accuracy over the course of the year.

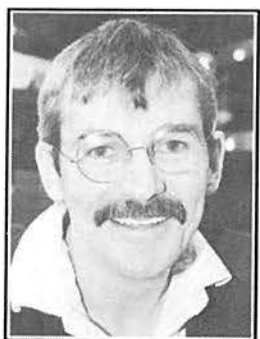
Stu Julius, women's basketball coach, announced that the Lady Nor'Westers finished the season in third place with a record of 8-6. If the exhibition games are included, the Lady Nor'Westers had a record of 14-13. Trish Hyland ended her career on a high note by being named to the OWIAA West All-Star Team.



Julius has already started recruiting for next year's team. He said recruiting is "difficult because of the distance from major areas." Locally, Jennifer Taddo, who is graduating from Churchill High School has been signed to the team. "She is a quality player," he said.

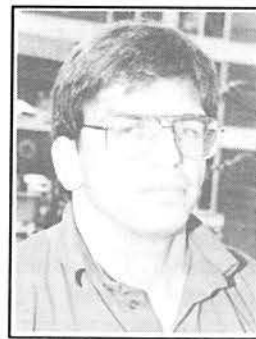
Women's volleyball coach Claude Lapre, who came to Lakehead from Carelton, had high hopes for the team. He said the Lady Nor'Westers Volleyball Team completed their season on a high note but fell just short of making the play-offs.

Lapre noted that "the team's constant improvement is clear evidence of their commitment to training." He said the team is young and if efforts continue in the 1989-



90 season, the Lady Nor'Westers should "get a taste of post-season play and get an opportunity to challenge the OWIAA's top teams."

Wrestling coach Francis Clayton announced the Lakehead University Wrestling Team ended their 1988-89 schedule by competing in the CIAU Wrestling Championships.



Clayton said Mike Kirlaw (95KG) and Allan Linhart (130Kg), both first-year wrestlers, were the only ones to qualify for the CIAU Championships. Kirlaw and Linhart finished second and third respectively at the OUAA's with Kirlaw being named an OUAA All-Star.

Indoor Track and Field went well during the year. Iain Galloway and Ian McIlwham represented Lakehead at the OUAA championships in Toronto. Galloway placed ninth out of 20 in the 1500m with a time of 4:02 and tenth in the 300m with a time of 8:48. McIlwham placed sixth out of 12 in the high jump with a jump of 1.90m.

Svend Paulsen, who spoke on behalf of track coach Ian Newhouse, noted that almost all of the track and field athletes plan to continue training throughout the summer. "Track and field is here to stay at Lakehead University," he said.

Lakehead University divers competed in the preliminary round of the OUAA championships in Toronto and did very well. Lakehead placed third with 73 points (2 divers). Trevor Palmatier was voted "diver of the meet."

In Alpine skiing, LU collected three individual medals and the women's team qualified for the regional finals at the divisional finals.

The 1988-89 season officially ended April 2, with the Annual Athletic and Awards Banquet at the Red Oak Inn.

Gordon Kyle (centre) and Mike Rapino (right) representing Labatt's Canada presented Chairman of the Partner's Campaign, Robert Paterson, of Lakehead University with \$5,000, the third annual installment of their generous pledge of \$25,000 over 5 years.



Innovation North assists local business with development of national franchise

It's a great little success story about two hard-working business people with a great product and the desire to turn their "sweat equity" into a marketable idea.

Ted and Bernice Cottingham are the owners/partners of Showerwall Industries, a sole proprietorship that has offered specialized renovations since 1987. Their Thunder Bay business was designing and installing seamless one-piece bathtub enclosures using a unique processing technique involving a laminate bender. The husband and wife team knew there was a big demand for their product *and* the knowledge they possessed about running the operation.

The Cottinghams took their idea to Innovation North, who quickly put them in touch with design engineers under the National Research Council's IRAP program. Next, the market-ready franchise package was developed with consultants from Innovation North and the Ministry of Industry, Trade and Technology.

Rainbow Refinishing is the model franchise. Showerwall Industries will centralize operations and provide support to franchisees from Thunder Bay, which presently



Richard Pobler, Development Officer with the Thunder Bay Economic Development Corporation, presented a plaque to Ted and Bernice Cottingham on March 3 at the official launch of their franchise operation. MPP Lyn McLeod (right) brought greetings from the Province and assisted with the ribbon-cutting.

includes the product test site and training centre. The goal of Showerwall Industries is to sell 21 franchises in the first three years. Consistent quality workman-

ship in franchise operations will be emphasized by offering a systematic training package.

Annual juried art show is crowd pleaser at TBAG

The Lakehead University Juried Student Exhibition got underway March 16 as awards were presented for selected works in the exhibition. The exhibit remained at the Thunder Bay Art Gallery until April 2.

All award-winning pieces, except two, were selected by a jury of four from outside the Lakehead University community. Jurors were Joanne Danford, Curator of the Art Gallery, Tim Alexander, a well-known local ceramist, Lori Gilbert of Definitely Superior and Lorna Shaffer, also a local artist. The winners of the two Painted Turtle Awards were selected by Ruth McKenzie, the owner of the Thunder Bay art supply shop.

The awards and winners:

Framing Experience Award (\$50) -- Judy Ward, *Who's that Girl*, print;

Painted Turtle Award (\$50) -- Kahru Latt, *Old Cutover*, painting;

Painted Turtle Award (\$50) -- Debra McEachern, *Incitement*, print;

Framing Post Award (\$50) -- E. Bond, *Flight*, print;

Dean's Award, Sculpture/Three-dimensional (\$75) -- Shelley Crawford, *Untitled*, clay sculpture;

Dean's Award, Ceramics (\$75) -- Mark Newman, *Spout of Gothic Teapot*, clay;

Dean's Award, Prints (\$75) -- Renate Grinfelds, *Declining Woman*, print;

Dean's Award, Drawing (\$75) -- *Seated Male Nude*, drawing;



Michael Kowbuz, shown above with Dean John Whitfield

Dean's Award, Painting (\$75) -- Michael Kowbuz, *Still Life with Hat and Teeth*, painting;

LUSU Award (\$150) -- Debra McEachern, *Untitled*, clay sculpture;

Henderson Associates Award (\$250) -- Vivian Michon, *Brian*, painting;

Munro Family Award (\$450) -- Nancy Bjorgo, *Yellow Sweater*, print;

Abitibi Price Purchase Award (\$500) -- Debra McEachern, *Interior Viewer*, painting.

McEachern's Abitibi Price winning painting is now part of the company's permanent collection.

Visitors on campus

Lakehead University becomes 'Wonderstruck' when CBC comes to town



Now you see us . . .

Bob McDonald, host of CBC Television's "Wonderstruck", spent a day at Lakehead University filming several science episodes. The morning was spent with Steve Goldstein and his friendly rats and somewhat less cooperative Archer fish. The filming crew spent the afternoon on the frozen banks of Lake Tamblyn preparing a segment on the insulative properties of snow.

It took four students from the School of Outdoor Recreation a few hours to build the quinzhee (an Athapaskan Indian word). McDonald will likely explain to his loyal science fans how the snow dome can provide shelter and protection during the coldest winter conditions.

Due to the CBC strike, it is not known when the segments will be shown. **Wonderstruck** is aired locally on Saturdays at 12:30 pm.



... Now you don't. The quinzhee finally caves in after Bob MacDonald (back, right in photo at left) and Outdoor Recreation students stand on the snow but's roof.

Lakehead artists around town

Aside from the Annual Juried Art Show at the Thunder Bay Art Gallery, the Visual Arts Department has been active off-campus in other ways.

On March 29, David Aurandt and Mark Nisenholt gave a talk and tour at the Art Gallery entitled "Breaking Down the Mystery in Contemporary Art." They addressed post-modern issues relating to *Ou Est Le Fragment*, an exhibition of contemporary Quebec art being displayed at the Thunder Bay Art Gallery.

Aurandt is an Assistant Professor of Visual Arts at Lakehead and Nisenholt is an Assistant Professor and Chairman of the Visual Arts Department.

On March 21 artist Regina Granne give a slide lecture at the Art Gallery on her work. Granne has been visiting LU to meet with and critique the work of senior art students.



Finnish friendships: Dr. David Kemp (left) of Lakehead's Geography Department, was host to Dr. Olavi Heikkinen (right) a geography professor from the University of Oulu in Finland. Heikkinen spent three weeks at Lakehead as part of an exchange agreement signed last year between LU and various universities in Finland.

Papers / Publications & Special Projects



Geoffrey R. Weller, Vice-President (Academic) has had the following manuscripts published: "Accountability in Canadian Intelligence Services," *International Journal of Intelligence and Counterintelligence*, Vol. 2, No. 3, (Fall 1988), pp 415-441; "Health Care Delivery in Northern Hinterlands: Canada, Scandinavia and the United States" in *Jorn Carlsen and Bengt Streijffert* (eds), *Canada and the Nordic Countries*, Lund: Lund University Press, 1988, pp 343-364; "The Role of Universities in the Development of the Canadian North" in T. Craig (ed.), *What Can We Do For Our Countires? The Contribution of*

Universities to National Development, London: Association of Commonwealth Universities, 1988, pp 59-61. (with Dr. R.G. Rosehart).

Dr. Frederick M. Holmes presented a paper titled "The Reader as Discoverer in David Lodge's *Small World*" at the Tenth Anniversary Conference of the International Association for the Fantastic in the Arts in Fort Lauderdale, Florida, on March 15, 1989.

Appointments

Dr. W.T. Melnyk has, by Order in Council 159/89, been appointed as a member of the Board of Examiners in Psychology for the period effective Jan. 12, 1989 to and including Jan. 11, 1992.

Board of Gov.'s reappointments

At the March 14, 1989 meeting of the Board of Governors' Executive Committee: the following reappointments were approved:

-- Dr. J.G. Locker as Director of the School of Engineering for a three-year period from July 1, 1989 to June 30, 1992;

-- Dr. J.E. Molto as Chairman of the Department of Anthropology for a two-year period from July 1, 1989 to June 30, 1991;

-- Dr. R. Ruiperez as Chairman of the Department of Sociology for a three-year period from July 1, 1989 to June 30, 1992.

Weighting around?

Just after their weigh-in, and prior to eating their pledge forms, the smiling men photographed below, vowed to lose 47 pounds (collectively, of course) by June 3, 1989. Lakehead University is participating in *Pounds for Heart*, a fund-raising campaign for the Heart and Stroke Foundation of Ontario. Anyone wishing to participate can drop by the Health Services office, weigh-in and pick up a sponsor sheet. Come on Lakehead, each pound we lose will raise funds for Heart and Stroke research and make us healthier. Follow the example of soon-to-be lightweights John Russell, Rob Rosehart, Norm LaVoie and Clyde Tuyl. Jessie Sutherland, RN, will be on hand to cheer you on and provide moral support - and the scales!

Science student seeks PhD at MIT

A 22-year-old Lakehead University student is on her way to M.I.T. and a PhD. Patti Christie, who is studying biology and chemistry for a double honours degree, is very excited about attending the Massachusetts Institute of Technology. Christie had to decide between M.I.T. and the University of Michigan. However, M.I.T. was chosen because it offered her a chance to go directly into a PhD program and work with Dr. William Orme-Johnson, whose work she has admired.



"If you've got a PhD from M.I.T. you written your ticket out," Christie said. She hopes to go on to teach and do research at the university level, "preferably in Canada or overseas."

To help fund her education, Christie has been granted a scholarship. Under the terms of the award she must do four hours of tutorial per week or six hours of laboratory work per week. The award is worth about \$25,000 US, which will cover basic needs.

While some people may feel nervous at the thought of leaving everything that is familiar to them, Christie confident that all will work out. This will be her second time living far from home. At the age of 17 she went to work in Switzerland for a year.



Varsity's Nor'Wester logo to Retire?

The rumor mill on campus has it that the Nor'Wester, long-time logo of our athletes, may be retired in favor of a new logo or image.

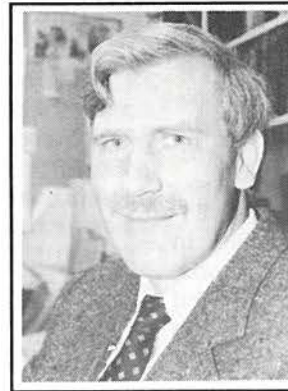
Any comments or suggestions would be most appreciated and can be passed on to Clyde Tuyl at 343-8601 before the end of April.

Selina Kakekagumick

Selina Kakekagumick is the new face in Native Student Support Services. She comes to us from the Native Employment Opportunities Program (NEOP) where she was a secretary/bookkeeper. Selina, who is originally from Sandy Lake, has been in Thunder Bay for five years. She took business courses at Confederation College and worked in Timmins as a secretary/bookkeeper before settling in Thunder Bay. Selina enjoys the more relaxed pace at Lakehead after the hectic pace at NEOP. She also enjoys working with computers. She plans to take courses to improve her computer skills. Although she considers her future to be full of possibilities, she hopes computers will play a major part in that future.



Brad Rush



Brad Rush comes to us from a five-year stay in Calgary. He holds two positions at the University: he is Program Development Officer at the Centre of Entrepreneurship and is an Assistant Professor of Entrepreneurial Studies in the School of Business Administration. Brad's area of research is the development of growing, owner-managed firms. He has held managerial and administrative positions in seven countries and received his MBA from Otago University in New Zealand. In fact, he has lived outside the country for a total of about 17 years. Brad admits that he does not have much free time at present. He is working to complete his PhD in Entrepreneurship from the University of Calgary.

Who's New?

Are you new to Lakehead University? We want to hear from you. Is there someone new in your department? Give us a call and let us know. We would like to introduce newcomers to the university community. We would also like to let people know when someone has changed departments. Don't be shy; give the Agora a call at 8300 or 8631 and tell everyone Who's New.



Want to advertise?

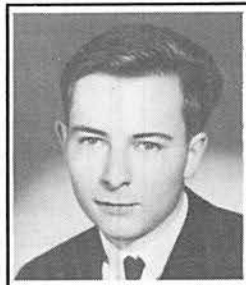
How do you get information on the video monitors or the signs outside? It's easy and it's free but two different departments are responsible for these university services. To advertise on the inside monitors or on the electronic bill board outside student services send a memo with your information to John Bonofiglio c/o Audio Visual (8020). John says give as much advance notice as possible. To get your information on the outside signs, send your request to Campus Development or call 8208.

Who?

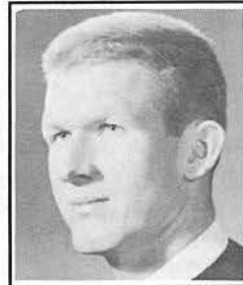
We managed to stump a few people last month with photographs of Marg Page and Dave Parsons. Can you figure out who is who in this puzzle? Look closely and see if you can equate these pictures



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Research News

FROM THE
OFFICE OF
GRADUATE
STUDIES AND
RESEARCH

Research Officer:



**Trish
McGowan**

NSERC RESEARCH AWARDS

The recipients of research grants from the Natural Sciences and Engineering Research Council of Canada for 1989/90 have been announced. Lakehead faculty continue their strong showing in obtaining operating grants despite increasing competition for limited federal funds. A total of \$691,738 was received by 40 faculty members. The value of the average award increased slightly over last year.

In addition to operating grants, Lakehead receives NSERC funding in other categories. The Forestry Transition Grant (\$80,680) held by six investigators (Knowles, Parker, Pulkki, Carmean, Tanz, Yang), supports research on the enhancement of jack pine resources in Northern Ontario. A University Development Research Grant (\$10,000) is held by Dr. D. Eigenbrod in the School of Engineering. An NSERC Strategic Grant (\$38,600) was awarded to Dr. I. Nirdosh (Chemical Engineering). Dr. D. Holah (Chemistry) currently holds a Senior Industrial Fellowship (\$11,520). Dr. B. Kronberg (Geology) continues her appointment as an NSERC University Research Fellow (\$17,156).

The successful candidates and research topics in this year's operating grants competition include:

Biology

Dr. R. Freitag - Systematics and evolutionary biology of tiger beetles.

Dr. P. Knowles - Genetic substructuring in black spruce and sugar maple stands.

Dr. M. Lankester - The biology of pathogenic helminths of game animals.

Dr. P. Lee - Life history strategies of wild rice.

Dr. A. Macdonald - Vegetative and reproductive development in the Betulaceae.

Dr. L. Malek - Protein degradation in seeds.

Dr. W. Momot - Effect of exploitation on the self-regulatory dynamics of a crayfish population.

Dr. J. Ryder - Breeding ecology and behaviour of Colonial nesting birds.

Chemistry

Dr. A. Hughes (with Dr. D. Holah) - Reactions of transition metal salts and complexes with hydroborate and other reducing agents.

Dr. N. Weir - Photochemistry of polymers.

Engineering



Dr. D. Barry

Dr. D. Barry - The reliability of present generation electronic components.

Dr. S. Easa - Traffic management in port terminals.

Dr. K.D. Eigenbrod - Arching in soil around large span steel culverts.

Dr. M. Khan -

Adaptive forward error control coding for land mobile radio system.

Dr. J. Kiszka - Expert systems technology for realtime process control: The pulp and paper industry, computers, and controls of the pulp and paper industry.

Dr. P. M. Li - Aerodynamic structure of swirl flow and its applications.

Dr. S. Mirza - Probability-based strength criteria for steel-concrete composite columns.

Dr. K. Natarajan - Aspects of discrete time periodic control systems.

Dr. I. Nirdosh - Removal of ²³⁰Th from process solutions of acid-leach uranium mills.

Dr. U. S. Panu - Applications of pattern recognition theory to a stochastic study of daily streamflow time series.

Dr. V. R. Puttagunta - Viscosity correlation for heavy oils and bitumens using simple characterization measurements.

Dr. H. Saliba - Simplified approach to the free vibration analysis of thin plates with straight edges; classical and discontinuous boundaries.

Dr. A. Sedov - Ultrasonic transducer and flaw modelling for NOE applications.

Dr. B. Singh - A numerical and experimental investigation of jet piercing of oil sands.

Forestry

Dr. W. Parker - Population differentiation and focal point seed zones of North American conifers.

Geography

Dr. H. Rasid - Morphologic instability of flood-control channels.

Geology

Dr. G. Borradaile - Rock deformation: field and laboratory studies.

Dr. P. Fralick - Paleogeographical interpretation of Archaean sedimentary sequences in Northwestern Ontario.

Dr. B. Kronberg - Geosphere interactions.

Dr. R. Mitchell - Petrology and geochemistry of alkaline rocks.

Dr. R. G. Platt - Petrogenetic studies of alkaline magmas.

Mathematics

Dr. W. Allaway - The umbral algebras and their application to orthogonal polynomials.

Dr. M. Benson - Parallel iterative methods.

Dr. R. A. Day - Pure and applied aspects of lattice theory.

Dr. C. Kent - Proof techniques in computer science.

Dr. S. Naimpally - Proximity approach to hypertopologies.

Dr. J. Whitfield - Geometry and non-linear analysis of Banach spaces.

Physics

Dr. M. Hawton - Dielectric studies of phospholipid phase transitions and semiconductor/metal contacts.



Dr. V. Paranjape

Dr. W. Keeler - Optical and impedance investigations of semiconductors, high T_c superconductors and lyotropic liquid crystals.

Dr. V. Paranjape - Research in solid state physics.

{Research News continued on page 10}

GRANTS AND CONTRACTS AWARDED

Dr. Witold Jankowski (Economics) was awarded a contract by Transport Canada to conduct a study of the economic impact of the Thunder Bay Airport on the city and the surrounding region. The study will provide a measure of the economic activity generated by the Thunder Bay Airport and will forecast anticipated changes over the next ten years.

Dr. Marcel Bouffard (Physical Education) has been awarded a research grant by the Ontario Mental Health Foundation for a project entitled "The Effect of General and Specific Strategies upon Printing Performance of Mentally Handicapped Children". Dr. Bouffard and his research associates, **Dr. Peter Crocker** and **Professor Janice Causgrove**, plan to teach mentally handicapped children general and specific problem-solving strategies that can be applied to motor tasks, in the hope that improved motor skills will improve their functioning in school and on the playground, where social acceptance and tolerance are frequently based on motor competence.

Work is progressing very well on **Dr. Gary Murchison's (Forestry)** Ontario Ministry of Natural Resources contract to develop alternative field sampling designs for growth and yield data collection using a TRIM system. Phases III and IV of the project recently have been approved. These phases involve the application of the TRIM plot data base developed in Phase I and II for mature jack pine stands to immature jack pine stands (Phase III), and to mature and immature black spruce stand (Phase IV).

Dr. Joe Stewart (Anthropology) has been awarded an Ontario Heritage Foundation grant for his research project entitled "Analysis of Terminal Woodland Materials, with emphasis on DdJm-3". Dr. Stewart will use the grant to analyze existing archaeological materials which have been recovered from the Patricia Kozak Site, near the eastern end of the Shebandowan Lakes.

CENTRE FOR NORTHERN STUDIES 1989 Faculty Research Grants

Dr. Paul Watts, Director of the Centre for Northern Studies, has announced the research grants which will be supported this year by the Centre. The 1989 Faculty Research Grants have been awarded to the following faculty for their research projects:

Dr. Will Carmean (Forestry), "Site Quality Evaluation for Jack Pine in Northern Ontario."

Dr. Anita Chen (Sociology), "Recruitment to Nursing Profession in Northwestern Ontario."

Dr. Harold Cumming (Forestry), "Effectiveness of Ontario Guidelines for Protecting Nest Sites of Bald Eagles."

Professors Liz Diem and Linda McKay (Nursing), "Identifying Health Promoting and Risk Taking Behaviour in Middle Adolescent Females in Northwestern Ontario".

Dr. Dieter Eigenbrod (Engineering), "Longterm Creep Movements of Embankments on Soft Sensitive Clays in North Western Ontario."

Dr. David Kemp (Geography), "The Climate of Northern Ontario."

Drs. Barbara Kronberg (Geology) and Lada Malek (Biology), "Tree Seedling Fertilization with Crushed Rock and Nutrient Enriched Rock Slags (A Greenhouse Study)."

Drs. Walter Momot (Biology), Brian Phillips (Geography), Phil Fralick (Geology) and Barbara Kronberg (Geology), "Zoogeography of Freshwater Fishes in the Sibley Peninsula, in Relation to the Events of Deglaciation Since the Marquette Readvance (10,000 B.P.), and the Potential Implications for Management of Aquatic Resources."

Drs. Connie Nelson (Social Work) and Bruce Minore (Sociology), "Some-day Country: Studies of Empowerment in Northern Communities."

Drs. Brian Phillips and Brian Lorch (Geography), "A Socio-Economic Atlas of North Western Ontario."

Dr. Harun Rasid (Geography), "Ef-



Dr. Jim Stafford

fects of Hydropower Operations on Streamflow Regime in North Western Ontario."

Dr. Jim Stafford (Sociology), "The History of the Lumber and Sawmill Workers Union."

Professor Patricia Vervoort (Visual

Arts), "C.D. Howe as Engineer for the Canadian Board of Grain Commissioners in Thunder Bay: 1913-1916."

1989-90 Northern Scientific Training Program Grants

The Northern Scientific Training Program provides travel, food and lodging expenses for students at the senior undergraduate and graduate level to obtain experience in northern research. Our Northern Studies Committee received an \$8000 grant from the Program, and has awarded it to the following student projects:

S.F. Clarke (Biology), "Staging Habitats of Migratory Birds in Northern Manitoba."

R. Foster (Biology), "Spring Ecology in Ring Seals in Manitoba's Coastal Waters."

H. Lavertu (Social Work), "Development of a Counselling Program in a Remote School."

B. Paleczny (Social Work), "Development of a Nutrition Program in an Isolated School."

FUNDING OPPORTUNITIES

The University Research Incentive Fund

The purpose of the University Research Incentive Fund (URIF) is to encourage universities and the private sector to enter into co-operative research ventures with each other. The program will match, dollar for dollar, eligible investment by the private sector in university-based contract research. Program funds will be given to the university and may be applied directly to the costs of the project or used to expand its scope. Eligible projects include basic or applied research and preliminary or feasibility studies in areas of potential economic benefit to the province.

There are three application deadlines per year; the next is:
May 31, 1989.

DAILY FOREIGN TELEVISION NEWS

Mexico, Madrid, Warsaw, Tokyo,
London, Moscow, Rome,
Jerusalem, Teheran, Paris.

BB2011

9 AM - 5 PM

EVERYONE WELCOME

Open Houses introduce services to University community



Two open houses were to mark the move of two services to larger quarters.

The Learning Assistance Centre and Native Students Support Services have taken up residence in the Tunnel, near the Matchbox.

The Learning Assistance Centre, which opened last September, offers tutoring services, mainly in the areas of mathematics and English. There is also a peer tutoring program in which students who are doing well in a subject work with those who need help. The Centre also helps students with special needs, such as hearing or visually impaired students.

The Native Students Support Services has been operating for about two years. The Centre fulfills many functions for the Native community at Lakehead University. The Centre acts as a meeting place where students can drop-in or attend scheduled workshops. Students receive social, academic, cultural and educational support and information from Native Students Support Services.



Top, from left to right, Coordinator of the Learning Assistance Centre: Geraldine White, Tutor Carey Mossop and Secretary/receptionist Dawn Kucher. Photo bottom, left to right: part of the team at Native Support Services: Beverly Sabourin, Coordinator, Walter Linklater, Cultural leader and head of the Sweet Grass Ceremony, Joy Lawson, Director of Student Services and Peggy Smith.

John Russell, Director of Community Relations, receives a cheque for \$1,000 from Dorothy Cattani, Sales Representative from Xerox Canada Inc. who re-instituted a scholarship program at Lakehead University. The 1989-90 scholarship recipient was Dennis G. Morson.

"Ask Dr. Weir" is unavailable this month, but will return next month.

You are invited to send your science questions to Dr. Weir in care of the Chemistry Department.



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 May Agora is April 19, 1989.**

April

MONDAY, 3

MEETING
Alumni Board
 7:30 pm
 Little Dining Room



TUESDAY, 4

CONCERT
Penny Clarke - Flute
Elizabeth Ganiatsos - Virginal
 Cornwall School Recital Hall - CS 1006
FREE ADMISSION

THURSDAY, 6

SEMINAR
Stress Control and Self Improvement
 Seminar Leader: **Mr. Walter Martin, MA**
 Psychology Department
 St. Joseph's Hospital
 Conference & Seminar Centre
 7:00 - 10:00 pm; \$30.00/person

WEDNESDAY, 13

"Child & Family Facing Death"
 Seminar Leader: **Ms Linda McKay, BScN., MN, RN.**
 Asst. Prof. School of Nursing, LU
 Clinic Nurse Specialist - Pediatric Oncology
 Conference and Seminar Centre
 7:00 - 8:30 pm
FREE ADMISSION

MONDAY, 17

CONCERT
 Lakehead University Vocal Ensemble
 Spring Concert: Music from Vienna
 St. Paul's United Church
 8:00 pm
 Advance \$5.00 - At Door \$7.00



FRIDAY, 21

Final date for late registration in Spring term Distance Education courses

MONDAY, 24

MEETING
Senate
 9:30 am
 Senate Chambers



TUESDAY, 25

SEMINAR: The Mystery of MIDI
 (Musical, Instrument, Digital, Interface)
 9:00 am
 Cornwall 2005
FREE ADMISSION

May

MONDAY, 1

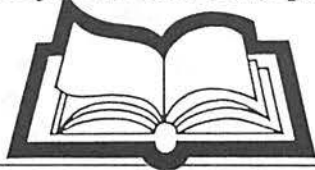
Final date for submission of all marks/grades for courses, projects, theses, and practica scheduled over the full year or in the second term - due 4:30 pm

LIBRARY HOURS

Effective:

March 13
 to
 April 24

Monday to Friday: 8:00 am - 11:30 pm
Saturday: 9:00 am - 11:30 pm
Sunday: 11:00am - 11:30 pm



FRIDAY, 12

CONCERT
Felicia Urbanski - Music for violin, clarinet & piano
 Cornwall School 1006
 7:30 pm
FREE ADMISSION



SUNDAY, 14

Thunder Bay Chamber Players
 Music for winds & piano
 7:30 pm - Cornwall 1006
 Adults \$10 Students \$5

THURSDAY, 18

MEETING
Board of Governors
 4:00 pm



Agora

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Director of Community Relations:
 John Russell,
 Editor: Katherine Shedden
 Assistant: Maureen Martin
 Calendar: Flo Sherren
 Photography: Peter Puna
 Graphics: Ben Kaminski, Debby Tew
 Printing: Rainbow

Address correspondence to:
 Editor/ Agora
 Information Office SN1002
 Lakehead University
 Oliver Road, Thunder Bay, Ontario, P7B 5E1
 (807) 343-8631 or 343-8300

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