

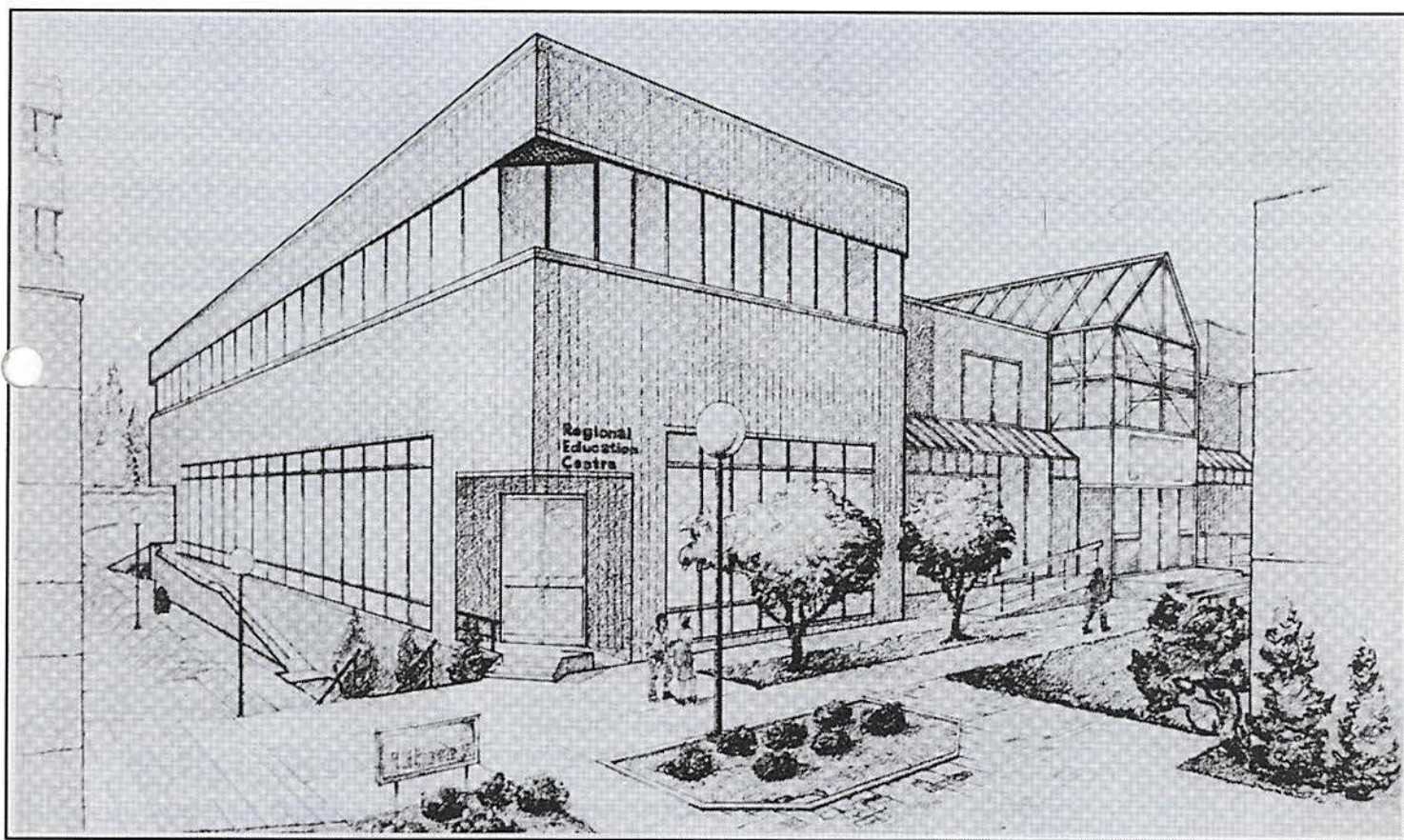
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Lakehead University Agora

THUNDER BAY, ONTARIO VOL. 6 NO. 5 MAY 1989

At Long Last! New building for Lakehead



Graphics manager, Ben Kaminski, produced this sketch of the Regional Education Centre. The multi-purpose building will be the first major construction project in 17 years. The building will share one wall with the recently approved Student Centre. Construction is expected to begin this fall with a completion date in late 1990.

Lyn McLeod announces funding for Regional Education Centre

A new \$5.2 million building will be going up at Lakehead University.

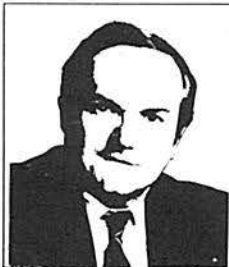
The building will open late next year and house the geography department, continuing and distance education, classrooms and services for students. Library services will be improved since geography is currently occupying part of the library. Classroom space, which has been concentrated in the Ryan Building, will expand into the new centre.

The announcement of a \$3.5 million grant towards the building was announced last month by Lyn McLeod, Minister of Colleges and Universities. The funding to Lakehead ends a

period of nearly 18 years without major building construction and coincides with the highest enrolment in the university's history.

President Rosehart said the \$1.7 million needed for the project was raised by private donors. About \$15 million in construction projects will take place over the next few years. Construction of the Northern Forest Biology Research building will be underway soon as the contract has been awarded to Sentinel Contracting Ltd. for just under \$3.5 million. It will be built in the area west of the library and across from the Regional Education Centre.

Report From The President



Dr. Bob Rosehart

Major Capital Funding

Obviously, I am very pleased with the government's recent approval of the Regional Education Centre project. This project is needed by Lakehead and has been under consideration by the government for some time. The Ontario Government funding, coupled with the Partners private funds, will allow the University to proceed immediately to the detailed design and tendering phases of this project in concert with the Campus Centre project. The classroom/office/specialized space facility will be the first major new academic building on campus in 18 years.

Teaching Thinking Skills

Last year, the Senate Committee sponsored a very successful workshop in May on Teaching Skills by Professor Brown of Forestry and, this year, the Committee is back with what seems to be a stimulating topic.

Anyone who teaches at Lakehead University is invited to attend a free two-day workshop in "Teaching Thinking Skills".

The workshop will be conducted by Dr. Charles E. Wales, Director of the Centre for Guided Design and a Professor in the College of Engineering and the College of Education at West Virginia University. His research on thinking skills and the development of methods to teach those skills have been expressed in twenty-six articles and nine books. He has conducted workshops in guided design and thinking skills to professionals in academia, business, and industry.

Dr. Wales has been invited to Lakehead University by the Senate Committee on Teaching as part of their commitment to providing instructional development opportunities on campus.

The workshop will be held on Wednesday and Thursday, May 24 and 25, 1989, in the Conference Centre at

Lakehead University. If you are interested in attending, please call Ken Brown at 8639.

Convocation '89 and Silver Jubilee Opening Ceremonies

May 27, 1989 promises to be a fitting Convocation for Lakehead University's 25th Anniversary. Honorary Degrees will be awarded to Mr. Peter Mansbridge, Ms. Adrienne Clarkson, Dr. Geraldine Kenney-Wallace and Mr. Bill West. A Lakehead University Fellowship will be awarded to Mr. Wallace Bryan. A "major" birthday party will be held at lunch between the morning and afternoon Convocations. There are rumours that we may participate in the consumption of the world's largest chocolate birthday cake. It's your institution. Come out and enjoy the party!

Whimies

Well, I have now attended the mandatory session on "The Workplace

Hazardous Materials Information System" (WHMIS) that was recently given for Lakehead University faculty. In spite of the fact that it is a legislated requirement (in a democratic society) to participate, I found the content to have interesting applications beyond the workplace. For example, I will now be somewhat more cautious with WD-40. Few of us really appreciate the indirect risks we face each and every day.

Research in Small Universities Conference

Late in April, Lakehead University was host to a national conference on Research in Small Universities. More than 120 participants from every region of Canada were registered, and both the Presidents at S.S.H.R.C. and N.S.E.R.C. were keynote speakers.

Lakehead University Float

Look for the Lakehead University Silver Jubilee Float in the Sunday, May 14, Shrine Parade. If I can get my car started, your President will be driving a vehicle appropriate to our Silver Jubilee.

Royal LePage Run for Women

Look also for the Silver Jubilee Team in the Royal LePage Run for Women on Saturday, May 6, at Boulevard Lake. Linda Phillips has put together a team consisting of 100 women including faculty, staff and faculty wives. The L.U. group should be a very visible one as they will be wearing Silver Jubilee T-Shirts and Silver Jubilee Visors.

Thunder Bay Magazine

I have heard a lot of favourable comments about the recent focus on our Silver Jubilee in the April/May issue of Thunder Bay Magazine, particularly the article by Arthur Black.

The cover of the magazine is somewhat striking. The first three callers to Mrs. Phillips to identify a unique feature of the cover will receive special "Silver Jubilee" souvenirs.

Lakehead University takes over 10-mile Road Race

Lakehead University has taken over the reins of a long-standing Thunder Bay tradition -- the 10-mile road race.

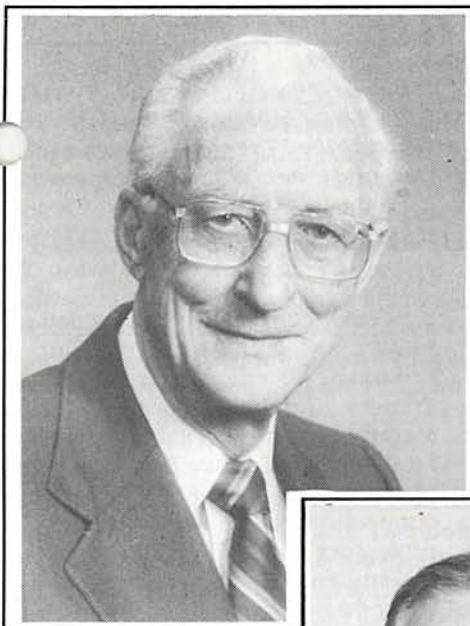
The race, which began in 1910, has been sponsored by the Royal Canadian Legion for 40 years. However, the Legion can no longer shoulder the financial obligations of the Victoria Day event. The Legion will continue to be involved by providing volunteers to assist with the race.

John Russell, Lakehead's Director of Community Relations, said the University wants to increase its involvement in the community.

Like father, like son . . .

Bill Rosehart, son of Lakehead President Bob Rosehart, has picked up a Youth Science Fair Award.

Bill received \$250 for the Best exhibit related to the pulp and paper industry at the Canada-Wide Science Fair. He has been developing projects related to the industry for many years and has won many prizes for his work.



From top left and clockwise, William West, Geraldine Kenney-Wallace, Peter Mansbridge, Adrienne Clarkson and Wallace Bryan. Clarkson and Mansbridge will receive the degree of Doctor of Humane Letters, *honoris causa*, at the morning ceremony, when Mansbridge will give the vocation address.

Opening Ceremonies for Silver Jubilee will be held at Lake Umbagog at 12 noon May 27, 1989 for both graduating classes. Dr. Kenney-Wallace will give the afternoon address when she will also receive her honorary degree with William West.

Five special Canadians Honoured at Convocation '89

Peter Mansbridge, Adrienne Clarkson, Dr. Geraldine Kenney-Wallace, and William A. West will receive honorary degrees and Wallace Edward Bryan will be made a Fellow of the University.

Peter Mansbridge will receive the degree of Doctor of Humane Letters, *honoris causa*, and will give the Convocation address at the 9:30 a.m. ceremony.

Mansbridge, anchor of The National and Sunday Report on CBC, began his broadcasting career in 1968 in Churchill, Manitoba. He helped develop the CBC news services to the North. In 1971 he moved to Winnipeg as a reporter for CBC Radio. The following year he joined CBC television news as a reporter.

Mansbridge became CBC TV's national reporter in Saskatchewan in 1975 and in 1976 he was assigned to the Parliamentary Bureau in Ottawa, where he remained for four years.

During his years as a CBC reporter, he has covered the Iran Contra scandal in the U.S., the exodus of boat people from southeast Asia, and the last days of Mao Tse Tung in China. He has anchored the 1984 federal election coverage, the leadership conventions which brought Brian Mul-

rooney and John Turner to power, Pope John Paul's two visits to Canada, the last two Royal Weddings.

The degree of Doctor of Humane Letters, *honoris causa*, will also be conferred upon Adrienne Clarkson during the morning ceremony.

Clarkson is the publisher of Adrienne Clarkson Books, inaugurated in 1988, for McClelland & Stewart. She is also the former president and publisher of McClelland & Stewart.

For 18 consecutive years, Clarkson was the star of the CBC public affairs programs Take Thirty, Adrienne Clarkson At Large, and The Fifth Estate. She became known for the treatment of political and economic subjects. She interviewed the Shah of Iran and has done numerous programs on human rights. She has won four ACTRA awards as best television journalist for her accounts of the drought in the Sahel, the cost over-runs at the Montreal Olympics, and for excellence and integrity in broadcasting as a whole.

Clarkson was also Ontario's Agent General in Paris for five years. She established an Ontario government office to promote business, culture and tourism.

Wallace Bryan will receive the title Fellow of the University during the morning ceremony. Bryan's career has taken him through the RCAF, merchandising for Bryan's Ltd and, from 1963 to 1989, a law partnership with Cheadle, Bryan, Johnson, Shanks. He served as an alderman for the City of Fort William and the City of Thunder Bay. He has been active on the Board of Directors of St. Joseph's Hospital, and the Thunder Bay Foundation, and the Board of Management of St. Joseph's Heritage. Bryan is a member of Scottish Rite and York Rite and Lakehead Shrine Club as well as the Fort William Gyro Club.

At the 2:30 p.m. ceremony, Geraldine Kenney-Wallace will give the convocation address. She will receive the degree of Doctor of Science, *honoris causa*.

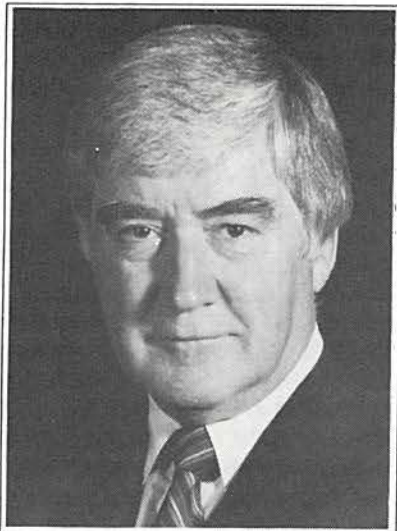
Kenney-Wallace has been Professor of Chemistry and Professor of Physics at the University of Toronto. In 1983 she was appointed to the Science Council of Canada, which advises the federal government on research policy and strategy, and was reappointed in 1986. She was appointed a Member of the Premier's Science and Technology Council in Ontario in

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 two latest presidents share some memories.

Dr. G.A. Harrower, 3rd President of Lakehead University 1978-1984

I remember with particular pleasure the task undertaken during my term as President of choosing the names for two major academic buildings, the University's



George Harrower

main library, two residence complexes, and even a beautiful body of water. Of course the job was given to a committee because universities believe in committees.

The names chosen recognized both people and places. The University library became the Chancellor Paterson Library honouring our first Chancellor, Senator Norman Paterson. The education building was named the Bora Laskin Building after Chief Justice Laskin, our second Chancellor and a native of Thunder Bay. The so-called Main building was named in honour of Dr. Harold Braun, one of our University's founders. One residence complex was called the Prettie Residences after Chancellor Robert Prettie whose many efforts on behalf of the University were greatly appreciated. The other was called the Bartley Residences, expressing our warm admiration for Professor Melville Bartley.

The twelve "houses" making up the residence complexes were named after places in Northwestern Ontario: Atikokan, Dryden, Ear Falls, Fort Frances, Geraldton, Kenora, Longlac, Marathon, Nipigon, Rainy River, Sioux Lookout, and Terrace Bay. These are all places where Lakehead University has connections which we value highly. Our professors travel to give courses there and students from these centres come to study on our campus.

Finally, there was the body of water that forms the delightful centrepiece of our campus plan. It was fittingly named after President William Tamblyn for whose vision and energy Lakehead University will always be grateful. It was called Lake Tamblyn.

All these names are now part of a proud tradition, a tradition that will grow and flourish in the years ahead.

Dr. Bob Rosehart, President of Lakehead University 1984-Present

In the summer of 1970, Rita and I made our way from Southern Ontario to Thunder Bay via the southern shore of Lake Superior to Duluth onwards to Lakehead by way of Mt. Josephine and the Pigeon River border crossing. The mode of transportation was a balky English Ford Cortina drawing a trailer with an old snowmobile - the perfect image of a young southern Ontario (engineer) academic heading off to his first teaching job. This was the heyday of student radicalism and the Pigeon River border crossing went okay until the immigration chap discovered that I was to be associated with Lakehead University.

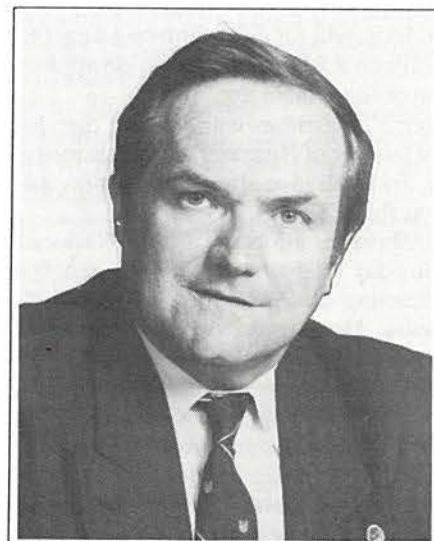
Although 20 years is not a long time in historical time, the past 20 and the preceding 5 have seen a tremendous experiment in post-secondary education be a success, Lakehead University is today truly a University in and for the region of Northwestern Ontario.

When I arrived at Lakehead, it was

an institution that had a multiplicity of focus; it was an institution trying to find its true mandate. The original professional diploma programs were starting to mature to degree status. The "instant university" arts and science programs had, even in the early days, quickly achieved academic respectability and our continuing education initiatives in the region were particularly important to the teachers throughout Northwestern Ontario.

Physically, the campus today is much the way it was in the early 70's. However, the landscaping and the many changes made in the past few years portray a much more mature image. This year, the new residence construction will mark the first major construction on the campus in 17 years. As well in 1988/89, Lakehead converted Cornwall School into its first satellite campus, a much needed home for our Visual Arts and Music Programs. Our aspirations in the immediate future include a new academic building and a Student Centre.

Thunder Bay and Lakehead University are growing and maturing together. Both have a great deal to offer the student and alumnus. This region of Canada is unequalled for its diversity of environmentally significant natu-



Dr. Bob Rosehart

ral resources.

Lakehead University will strive to continue to be a major contributor to social, cultural and economic development of Northwestern Ontario. The activities of our faculty and alumni will influence the future course of this nation.

■ Ontario universities launch "Alcohol on Campus" program

Ontario universities are determined to tackle the problem of campus drinking with the launch of a new program "Alcohol on Campus". Initiated by the Council of Ontario Universities in partnership with student leaders across the province and the Ontario Federation of Students, the program includes a range of components aimed at alcohol policy development and implementation: a legal policy and reference document, and a guide to policy development; an annual spring conference for incoming student leaders; training of servers and managers of licensed establishments; and education directed to students regarding acceptable alcohol-related behaviour on campus. Professor Robert Solomon of the University of Western Ontario, an expert in alcohol and liability, has been involved in the development of the program. For more information: Dr. Thomas Siess, AOC Chair, (519) 661-3651 or Prof. Robert Solomon, Faculty of Law, the University of Western Ontario, (519) 661-3603.

■ 2,500 new Canada scholarships to be awarded this year

Minister of State for Science and Technology William Winegard has announced that 2,500 new scholarships, worth \$2,000 each, will be awarded in the second year of the \$80 million Canada Scholarships Program. The program, which got underway last year with an initial 2,500 awards, is designed to encourage more top students, especially women, to study science and engineering. Scholarships can be renewed for three years for a maximum of \$8,000, provided that students maintain first class standing. A minimum of 50 per cent of the scholarships go to women. In the first year of the program women accounted for 52 per cent of the winners.

■ Government drops proposal to limit funding period

The federal government has dropped a controversial proposal that would have limited to 48 months the funding period for native students attending college or university. The proposal, which was part of an overhaul of the government's \$130 million postsecondary assistance program announced in March, had come under criticism from native groups and higher education organizations including AUCC (See Notes 89-03-28). The groups had protested that the 48-month limit would not permit students to complete studies at the masters and doctoral levels. The assistance program covers the tuition and living expenses of about 15,000 native students annually. The new rules, which came into effect April 1, put a cap on the funding available for 1989. Indian leaders say the move will result in thousands of native students being turned away from colleges and universities.

Pounds for Heart - How goes the battle?



Left to right, Clyde Tuyl, Norm LaVoie, Bob Rosehart and John Russell have all been weighing in and "doing very well" according to Jessie Sutherland, RN. Although the fund-raising campaign to raise money for the Heart and Stroke Foundation of

Ontario is near the half-way point, it is still possible to get involved. Jessie invites people to either sponsor a loser (of weight, that is) or become a participant. June 2, 1989 is the final weigh in and we send lettuce bouquets to encourage all participants.

Convocation

continued from page 3

1986. She is also a member of the National Advisory Council of the Canadian Advanced Technology Association (CATA). Kenney-Wallace was appointed Chairman of the Science Council of Canada and is a member of the National Advisory Board of Science and Technology, which is chaired by the Prime Minister.

As Chairman of the Science Council, she is actively concerned with all science and technology issues in public policy and the climate for R & D development in Canada.

The degree of Doctor of Education, honoris causa will be conferred upon William West during the afternoon ceremony.

His teaching career began in a two-room rural school. West was appointed the founding principal of the Lakehead Teachers' College in 1960. He was the assistant Dean of the Faculty of Education, at Lakehead University from 1969 until his retirement in 1976, at which time he was awarded the title of Professor Emeritus.

West was Editor-in-Chief of the Thomas A. Nelson Young Canada Readers for Grades 4, 5, and 6, along with the accompanying Reading Progress Books and the Teachers' Manuals for the series.

West has been involved with the Port Arthur Children's Aid Society, the Port Arthur Library Board and the Port Arthur Summer Playgrounds. He and his wife have been actively involved in the formation of the Local Roads Board, the Shebandowan Volunteer fire Group and the Shebandowan Local Services Board.

Thinking skills for teachers

By Joan Hoskinson

Anyone who teaches at Lakehead University is invited to attend a free two-day workshop this month on "Teaching Thinking Skills."

The workshop will be conducted by Dr. Charles E. Wales, Director of the Centre for Guided Design, and a professor in the College of Engineering and the College for Education at West Virginia University. His research on thinking skills and the development of methods to teach those skills has been expressed in 26 articles and nine books. He has conducted workshops in guided design and thinking skills to professionals in academia, business, and industry.

Dr. Wales has been invited to LU by the

Senate Committee on Teaching as part of their commitment to providing instructional development opportunities on campus. Last year, their first two-day workshop was a resounding success, and this year they've arranged for another internationally-acclaimed speaker to provide guidance in the pursuit of teaching excellence.

The workshop will be held on Wednesday and Thursday, May 24 and 25, 1989, in the Conference Centre at Lakehead University. If you're interested in attending, please call Ken Brown at 8639 no later than Wednesday, May 10. This will allow time to order materials and plan for the social events connected to the workshops.

Marg Page appointed visiting professor

Margaret R. Page, Professor Emeritus, has been appointed a visiting professor in the School of Nursing, Faculty of Health Sciences at McMaster University for the period of May 1, 1989 to August 31, 1989.

She will teach in the Baccalaureate Program in nursing at Aga Khan University, Karachi, and act as preceptor/tutor for nurses enrolled in the McMaster BScN program and work with study students in Pakistan.

BE A BETTER PROF!

Attend a Free Workshop
by
Dr. Charles E. Wales
on
Teaching Thinking Skills

Wednesday, May 24
to
Thursday, May 25

Conference Centre,
Lakehead University

Open to anyone teaching at LU
Call Ken Brown (8639)
to register

Native hunger strike

Federal policy provokes protests

Proposed changes to post-secondary funding for native students has led to a hunger strike and nation-wide protests.

Eight students, including students from Lakehead University, Confederation College and a high school, began their protest March 22 after Pierre Cadieux, Indian and Northern Affairs Minister, announced a \$130 million cap on funding for tuition and living costs for native college and university students. The fast has ended for the Thunder Bay students.

The three Lakehead students involved in the protest are Melinda Sault, 22, a second-year fine arts student; Louanne Bruyere, 26, a first-year bachelor of arts psychology stu-

dent; and Carol Buswa, 26, a second-year student in native teacher education.

The hunger strikers sought a one-year moratorium on any funding changes. They also wanted natives to have an equal say in negotiations about post-secondary education. Melinda Sault returned to Thunder Bay April 26. She said that, while she had not achieved her goals, there had been an increase in national awareness about the issues.

Cadieux has repeatedly defended Bill E-12, saying it would increase the number of students who graduate from the currently level of about 1,000 per year. In a press release, Cadieux said there is common ground between his department and native leaders and remaining problems could be worked out.

At one point Lakehead President Bob Rosehart appealed to the students to end their fast. He and Confederation College President Roy Murray offered to act as mediators in the dispute. Three students were from the College.

A group of Finnish students visited Lakehead University as part of an exchange agreement between Lakehead and Finland. The students toured the campus and made a few new friends. The group in the photo are, from left to right in the front row, Greg Beckford, LUSU President; Asa Pettersson; Sara Holmberg; and Roch Letourneau, former LUSU President. In the Back row are Thomas Nilsson; Derek Apple, Sea-to-Sea expedition assistant; and Per Wingqvist.



Papers/Publications & Special Projects



Dr. Alan Bowd, School of Education, presented a paper entitled "Companion animals in class: Facilitating social interaction and self-esteem in the mainstream" at the Annual Convention, Council of Exceptional Children, San Francisco, April 1989.

Dr. Bahram Dadgostar, Associate Professor of Business Administration has published the following in 1988:

"Integrated Approach to Demand Analysis for Food in Thailand" in *The Singapore Economic Review* - Vol. XXXIII No. 1 - April 1988;

"Role of exchange Rate Change on Export of Canadian Wheat" in *Economic Affairs* - Vol. 33, Qr. 3 - July/September 1988;

"Consumer Demand for Meat in Canada" in *The Journal of Economics* - Vol. XIII - 1988

Dr. Said M. Easa, Professor, Department of Civil Engineering, attended a meeting of the Transportation Planning Committee of the American Society of Civil Engineers (ASCE), held in Atlanta, Georgia, March 31 to April 1, 1989. The committee discussed aspects related to a specialty conference entitled "Implementing Urban Mobility Solutions" which will be held in

1991 in Meadowlands, New Jersey. The committee also discussed a paper being prepared by Dr. Easa entitled "Traffic Assignment in Practice: Overview and Guidelines for Users" which is part of a paper series sponsored by the Committee for the ASCE Journal of Transportation Engineering.

Dr. Allan Gilbert, Professor of Chemical Engineering, Lakehead University, and Mr. Garth Pattysen, Canadian Pacific Forest Products Ltd., received the 1988 John S. Bates Award for Best Paper presented at a Branch Meeting by a member of the Branch. They presented a paper entitled "Control of chlorine dioxide residual by spectrophotometry", which was later published in the *Pulp & Paper Canada* 90:3 (1989) pp. 85-89. The presentation took place at the Business Luncheon of the 75th Annual Meeting of the Technical Section, CPPA, held February 2, 1989 in Montreal. What adds to the uniqueness of this award is the fact that it was presented by Dr. John S. Bates himself who is "100 years old" and is the "permanent Honorary Chairman" of the Technical Section of the CPPA.

Call for papers - The Role of Circumpolar Universities in Northern Development November 24-26 - 1989

The conference on the role of circumpolar universities in northern development will consist of keynote lectures, plenary sessions and concurrent thematic sessions, panels and workshops. Social events will

include film presentations, historic site tours, receptions and a banquet.

Proposals for papers should be received by the Centre for Northern Studies, Lakehead University, no later than September 9, 1989. Earlier receipt of proposals will be appreciated. Proposals should be accompanied by a brief typed, double spaced abstract, and a one paragraph resume of the author. Proposals and supporting information can be sent through the Lakehead University FAX number, 807-343-8023. Please provide the FAX number of your institute with your submission. Final decisions on the papers to be selected for the conference will be announced by mid-September. The Centre for Northern Studies and Lakehead University may be able to subsidize a limited number of participants.

Universities in Finland, Norway, Sweden, U.S.A., Iceland, Canada, Greenland and the U.S.S.R. will be represented. The conference will also include representatives from both government and non-government agencies concerned with northern development.

Plenary sessions will concentrate on the past, present and future role of circumpolar universities in northern development.

Concurrent thematic sessions will cover such specific issues as: regional economic development, political and social empowerment, cultural development and integrity, post-secondary education and indigenous peoples, environmental issues, and distance education. Workshops will investigate methods and approaches for funding core programs in circumpolar universities, raising and utilizing seed funds to initiate new programs, funding and maximizing the benefit of university activities in remote communities, and mobilizing community resources through leadership development.

Papers will be reviewed and edited for publication in the conference proceedings.

Awards/Scholarships Deadlines

Northern Studies Graduate Awards application deadline is May 15, 1989;

Lakehead University Graduate Scholarships deadline is June 1, 1989;

Ontario Graduate Scholarships (OGS) Institutional Scholarships applications deadline is May 15, 1989.

For more information please contact Trish McGowan at 8223.



Dr. John S. Bates (left) Permanent Honorary Chairman of the Technical Section, CPPA, presents the 1988 John S. Bates Award for Best Paper presented at a Branch meeting by a member of the Branch to Dr. Allan Gilbert of Lakehead University (centre) and Mr. Garth Pattysen of Canadian Pacific Forest Products Ltd. (right). The presentation took place Feb. 2, 1989, in Montreal.

New Face at Lakehead

Bev Adams is the project assistant for Additional Basic Qualifications (ABQ) pro-



gram in Distance Education. She is very much involved in the design/modification of the program for certified teachers. A native of Thunder Bay, Bev attended Lakehead University in arts. She headed off to Toronto for 10 years of work in the field of human resources. She returned to Thunder Bay a few years ago. Bev comes to us from Confederation College where she worked in the student placement officer. Outside work she is kept very busy with two children and a PTA group.

Who?

Wasn't that math quiz fun last month? Eric Green, Maurice Benson, Bill Alloway and Clem Kent were good sports and have been sending us math puzzles in the mail.

Don't tax yourself studying the beautiful face and elegant coiffure of the lady featured below but there could be a payoff for the right answer.



Name Game

Who is C. J. Sanders anyway?

The C. J. Sanders Fieldhouse was named for Carl J. Sanders, former president of Gamble Robinson Ltd. in Sudbury, whose personal contributions toward fundraising helped in the development of Lakehead University.

City awards honour University people

Lakehead University was represented at the 13th annual awards for the official recognition of citizens of exceptional achievement.

In the area of cultural achievement Dr. Penny Petrone of the School of Education was recognized for her writing. *Northern Voice* is an anthology of Inuit literature and is a companion text to her earlier publication *First People, First Voices*.

Elinor Barr, who has been involved in the Lakehead University Archives, was recognized for *Silver Islet, Striking It Rich in Lakehead Superior*. The book is the dis-

cusses the Silver Islet Mine. Over the past two decades she has promoted the historical and literary works of Northwestern Ontario writers.

Ruby Slipperjack, a student in the native teacher education program published a novel entitled *Honor the Sun*. It is the story of a 10-year old native girl's life in a native village along the Canadian National Railway line in the 1950's.

The award winners were selected by a committee, including five citizen appointees. The committee was chaired by Alderman Lawrence Timko.



Heather Manty, centre, of Fort Francis, won an award for displaying academic performance and professional promise. The award was presented by Gina Rawson, left, President of the Ontario Association of Library Technicians. Margaret MacLean, Acting Chairman of Library and Information Studies, also congratulations Heather.

Ontario Council appointment

Dan Pakulak, Director of Continuing Education at Lakehead University, has been appointed to the executive of the Ontario Council for University Continuing Education. He will be a member at large for a one-year term, researching the demographics of part-time students in Ontario.



Engineering student gets Bell scholarship

David Howard, an electrical engineering student, has received a Bell Canada Engineering and Computer Science award.

Howard is one of 22 students in Ontario and Quebec to receive the award, which will pay full tuition for his academic year.

There is also an offer of summer employment with Bell Canada, but Howard said he has already made arrangements for a summer job.

The Award is given to students demonstrating academic distinction, an aptitude for leadership and strong potential for success as engineering and computer science professionals.

Research News

FROM THE
OFFICE OF
GRADUATE
STUDIES AND
RESEARCH

Research Officer:



**Trish
McGowan**

NSERC POSTGRADUATE SCHOLARSHIPS

The winners of the 1989/90 NSERC Postgraduate Scholarships were announced recently. The success rates for first year Masters students was 72.9%, for first year PhD students, 74.7%, and for 1967 Science and Engineering Scholarships, 36%. The total number of applications for new awards was 4,258.

The following Lakehead students were awarded scholarships:

Scott Clydesdale (Psychology), who plans to do a PhD in neuropsychology; **John McLaughlin (Forestry)**, who plans to do a Masters in Forestry at Lakehead; **Mark Puumula (Geology)**, who plans to do a Masters in Geology at Lakehead; **Gordon Saby (Mechanical Engineering)**, who plans to study Mechanical Engineering at the University of Calgary; and **Barbara Seemayer (Geology)**, who will be doing a Masters in Geology.

Robert Foster (Biology) is the first Lakehead student to win a prestigious NSERC 1967 Science and Engineering Scholarship. Rob plans to study Entomology at Oxford University.

1989/90 ONTARIO GRADUATE SCHOLARSHIPS

The following students were awarded Ontario Graduate Scholarships in the 1989/90 Open Competition:

Irene Bergeron (Psychology), **Patricia Christie (Biology)**, **Scott Clydesdale (Psychology)**, **Thomas Duralla (Outdoor Recreation)**, **Robert Foster (Biology)**, **David Maclean (Psychology)**, **Shelley Mahon (Psychology)**, **John McArthur (Geology)**, **John McLaughlin (Forestry)**, **Linda Ponting (Geography)**, **Mark Puumula (Geology)**, and **Barbara Seemayer (Geology)**.

We would like to congratulate these students on their academic achievement and success, and wish them every success in their future studies.

CENTRE FOR NORTHERN STUDIES ENTRANCE SCHOLARSHIPS

Dr. Paul Watts, Director of the Centre for Northern Studies, has announced the winners of the Centre's 1989/90 Graduate En-

trance Awards. The following projects have been selected:

"Effects of Past Deglaciation on the Present Distribution of Fish Within the Sibley Peninsula: Implications for the Tourism Development Proposals for Sleeping Giant Provincial Park, Northwestern Ontario", submitted by Dr. Walter Momot (Biology);

"A Study of the Relationship Between Adsorbable Organic Halide (AOX) and Acute Toxicity", submitted by Dr. George Ozburn (Biology);

"Deformation of Metamorphic Rocks in Northwestern Ontario", submitted by Dr. Graham Borradaile;

"The Relationship of Lamprophytes to Gold Deposits", submitted by Dr. Roger Mitchell (Geology);

"Determining the Optimal Transportation Patterns for the Movements of Canadian Export Grain", submitted by Professor Norman Bonsor; and

"The Lake Superior Scottish Regiment: The Role of the Militia in the Development of Northwestern Ontario, 1880 to the Present", submitted by Dr. Bruce Muirhead (History).

NEWS FROM NSERC

We recently received a memorandum from Dr. Arthur May, President of NSERC, regarding decisions which were made by Council at its last meeting. These decisions fall into the following categories:

Budget Allocations

Council's total budget for 1989/90 will be \$390 million, compared to \$365 million in 1988/89. The bulk of the increase is due to the Matching Fund Policy, which will contribute \$64 million to Council's budget, compared with \$40 million in 1988/89.

Despite this \$25 million increase, the situation remains difficult, as the demand on the largest program, Operating Grants, is increasing rapidly. This year again, over 800 new applicants requested operating grants, and only 110 grantees did not reapply. Council injected \$9 million into the program, which grew from \$169 to \$178 million.

This amount, however, barely covered funding for new applicants, merit supplements to the most deserving grantees and small special adjustments to the budgets of selected disciplines. It was necessary for grant selection committees to decrease the success rate for renewals to maintain the purchasing power of grants. The average operating grant is \$24,000.

The funding rate for the equipment competition was 28.5% (\$28.5 million committed against requests totalling \$100 million). The equipment budget represents 7% of Council's program budget and is the first stage of a three-year plan to raise the percentage devoted to equipment to 10%; approximately \$40 million will be available in the 1990 and 1991 competitions.

In the research personnel area, the number of new postgraduate scholarships offered remained constant at 1,850, but a substantial increase in stipends (from \$12,000 per year for the natural sciences and \$13,500 for engineering and computer science) was expected to help raise the acceptance rate. The maximum stipend payable to graduate students from operating grants has been raised to \$13,000 per year. The number of new postdoctoral fellowships offered was 185 compared with 155 last year.

Council increased the amount of funding available to the Targeted Research Programs by adding \$1 million to the Strategic Grants Program, to bring funding up to \$33 million. This will provide approximately \$15 million for new awards in the 1989/90 competition. The University-Industry Programs have been regrouped with the newly created University-Government Programs under the name Research Partnerships. The total amount budgeted for Research Partnerships in 1989-90 is \$31.3 million, compared with \$27.8 million this year.

Strategic Grants

Council adopted a new framework for the Strategic Grants Program. The eligible areas now are divided into three categories:

- 1) Advanced Technologies - includes information systems, biotechnology, energy, advanced materials and processes, manufacturing systems;
- 2) Resources - forestry, mining, fisheries/oceans, food/agriculture;
- 3) Environmental Quality.

The "Open" Area will be retained as well. The new program framework is intended to be more focussed and relevant to specific Canadian needs and opportunities.

Instead of the traditional "field description," Council will publish a "mission statement," which will be a description of Canadian knowledge needs and technological opportunities in the area. It will also include an analysis of the time frame and the specifically Canadian opportunities. The mission statement will not, however, suggest specific research responses. The research community will be invited to develop research proposals in support of the goals and objectives defined in the mission statement.

{Research News continued on page 10}

The next year will be one of transition for the Strategic Grants Program. For the 1989/90 competition, the new strategic areas will be in effect, but only one area, Information Systems, has had a mission statement developed which will be applied in this competition. The other new or expanded areas will continue to be defined in terms of their field descriptions for this competition. Mission statements will continue to be developed for the other areas during the course of the year and will be in place for the 1990-91 competition.

Matching Funds Reporting Incentive

The amount of contributions reported as eligible under the rules of the Matching Fund Policy for the fiscal year 1987/88 totalled \$80.1 million, compared to \$68.1 million for 1986/87. Since the total budget allocated by Council for incentive payments for the fiscal year 1988-89 totalled \$4,050,000, each university will receive an incentive of 5.05% of its reported eligible contributions. Of the total eligible private sector contributions reported by institutions, 51.6% were made to seven universities and 90% were made to 22 out of the 51 institutions which submitted reports.

Our NSERC Matching Fund Incentive payment for 1988-89 is \$10,109 on qualifying private sector research support, as compared with \$4,718 last year. These funds will be paid to Lakehead through a General Research Incentive Grant, and will be allocated by the Senate Research Committee through its established programs.

NSERC's target for eligible contributions for 1989/90 is \$64 million, which will be based on reports of eligible contributions received by institutions in the fiscal period April 1, 1988 to March 31, 1989. For 1990/91 the target for eligible contributions rises to \$90.4 million. There is some concern that this target may be more difficult to reach.

Council has decided to replace the incentive formula by a bonus of 30% on eligible cash contributions actually received during 1988/89 by each university under certain of its university-industry programs. In addition, Council will pay a separate reporting compensation to each university that submits a report of eligible contributions in 1989/90.

NSERC International Fellowships

NSERC has announced a new program of International Fellowships. These fellowships are intended for non-Canadians, with doctorates from foreign institutions, to enable them to spend up to two years conducting research at a Canadian university. It is NSERC's hope that these awards will be attractive to excellent young researchers in other countries, that Canadian universities'

research capabilities will be strengthened by the addition of highly qualified persons from abroad, and that this will be a means of enhancing links with foreign research institutions.

There will be a two-stage selection process for these awards. Each university will be given a quota of nominations. Applicants will be asked to apply directly to the university of their choice. The university will then select a number of candidates, up to the specified limit, for recommendation to NSERC.

The university quotas will be related in size to the NSERC General Research Grant and will be scaled such that the total of all quotas will be about twice the available number of awards, which will provide a success rate of approximately 50%. The quota will be at least one for all eligible universities. There will be no quotas for the number of awards tenable at each university.

For the first year of this new program, the following deadlines will apply:

- applications received by universities - Dec. 1/89
- nominations received by NSERC - Jan. 15/90
- decisions mailed to nominees - April 30/90
- awards to be taken up - from Oct. 1/90 to Jan. 15/91

NEWS FROM SSHRC

Dr. Paule Leduc, President of the Social Sciences and Humanities Research Council, recently released an information memorandum to update universities on decisions made by Council. Of these, the most important concern is the allocation of the budget for fiscal 1989/90.

The Budget

In 1989/90, Council will receive an additional \$5.8 million following an increase in the ceiling on matching funds, which now stands at \$13.1 million, and the increase in the base budget that was awarded last May (\$4 million for 1989/90). The Council's budget for the next year will be \$81.3 million.

The \$5.8 million represents a 7.7% increase in the Council's budget. As the demand for new grants in 1989-90 increased by 17.1% over the preceding year, however, Dr. Leduc anticipates a slight decrease in the success rate for this program. The Research Grants Program has been given the greatest share of the additional funds, 74.4%. This increase will permit a 36.4% dollar success rate, compared with 37.9% in 1988/89. The budget for General Research Grants will increase by 19.1%, so the block grants under the General Research Grants and Travel Grants for International Conference programs will remain at the same proportion of Research Grants as last year, 17.6%. The budget for Fellowships will also be

increased. The success rate in the Doctoral Fellowships Program will rise to 22% from 20%, while the rate in the Postdoctoral Fellowships Program will rise from 25% to 30%. The value of the fellowships in both programs will be increased by 4%.

Matching Funds Reporting Incentive

Reports received from universities on private sector contributions greatly exceeded both SSHRC's expectations and the ceiling of \$8.3 million set by the government. Private sector contributions received by the universities in 1987-88 reached \$37.5 million (an increase of 19% over last year). Of this amount, \$30.9 million was deemed eligible, an increase of 25%. The incentive payment totals \$1,075,000 million, which, again this year, will be prorated for distribution to universities on the basis of eligible amounts reported.

This year, Lakehead received \$2,839, as compared to \$1,560 last year. Council has revised its policy and adopted a new formula which will become effective in 1989-90. This formula is a sliding scale compensation payment similar to the one announced by NSERC. Universities will receive an administration fee which will be calculated according to a pre-established scale based upon eligible contributions reported by each institution. On the first \$100,000 reported, university will receive 5%; this should provide Lakehead with a higher incentive fee again next year.

Aid to Small Universities

For a number of years there has been a moratorium on the Aid to Small Universities Program with respect to new applications. The number of small universities supported under this program has been fixed at 21, each receiving grants of \$25,000. Council is presently reviewing this program, and decisions will be made in December 1989.

GRANTS AWARDED

I am very pleased to announce that Lakehead faculty have been very successful in the 1989/90 SSHRC Research Grants Program. Of the nine applications submitted, five were successful and two were placed on the reversionary list (projects that were considered to be worthy of funding but for which there were not enough funds). The following faculty are to be congratulated on their success:

Professor Norman Bonsor (Economics), "Transportation of Export Grain";

Dr. Brian O'Connor (Psychology), "Relationships Between Elderly People and Their Friends and Family";

{Research News continued on page 11}

... More Research News {continued from page 10}

Professor John O'Meara (Education), "Derivational Morphology of Northwestern Ontario Ojibwe";

Dr. Ken Rotenberg (Psychology), "Children's Responses to Inconsistent Emotion Cues";

Professor Geoffrey Weller (Vice-President Academic), "Inspectors General of Intelligence Agencies: A Comparative Analysis".

Professor Scott Hamilton (Anthropology) has been awarded a SSRC grant as a co-investigator with Dr. B.A. Nicolson, Department of Sociology/Anthropology at Brandon University, entitled Prehistoric/Historic Land Use in Southern Manitoba.

Professor Mary Lou Kelley (Social Work) has been awarded a grant from the Ministry of Community and Social Services Lottery Research Grants Program for a project entitled "A Study of Care Options for People Currently on Waiting Lists for Long-Term Institutional Care". Together with her collaborator, Mrs. Wendy Kirkpatrick, Administrator of the Thunder Bay District Placement Coordination Service, Professor Kelley will evaluate what resources, not currently available, would enable people on waiting lists for long-term care institutions to remain living in the community.

Centre for Entrepreneurship

Lakehead adds studies for entrepreneurs

Lakehead University is involved in developing the entrepreneurial spirit in Northwestern Ontario.

Lakehead, in conjunction with Confederation College, has established the Centre for Entrepreneurship for the Northwest. The Centre is one of six to be set up in colleges and universities across Ontario. The Centre for Entrepreneurship is in operation on the campuses of the University and Confederation College.

Entrepreneurial studies has three aims: to provide students with an in-depth understanding of the entrepreneurial process; to give students an opportunity to relate theory to practice, matching 'why' with 'how'; and to help students prepare for their own entrepreneurial ventures.

At Lakehead, six half-credit courses and one full-credit practicum have been designed and are ready for delivery. They

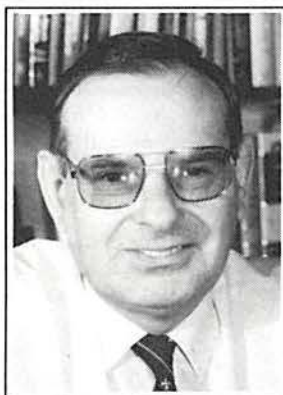
will be open to all university students.

Brad Rush is the program development officer at Lakehead. He has a wealth of experience as an entrepreneur. Rush's area of research is the development of growing, owner-managed firms. He has held managerial and administrative positions in seven countries.

The first course to be offered at Lakehead begins this month. Principles of Entrepreneurship is an introductory course into the entrepreneurial process. Other courses to be offered include Creativity and Technological Innovation, New Venture Feasibility, New Venture Start-Up, Consulting to Smaller Enterprises and Managing the Growing Enterprise.

"Lakehead University now has the largest concentration of entrepreneurship courses for undergraduates in Canada," Rush said.

Ask Dr. Weir



Dr. Neil Weir
Professor,
Department of Chemistry

Q I wear glasses which have lenses which darken in the sunlight. What causes the darkening, and why does it occur more rapidly outside? I also noticed that the lenses take longer to become clear again when they have been exposed to cold weather. Why is it?

A Your glasses have, what we call photochromic lenses. Photochromic materials change color when exposed to light, and revert to their original color when the

light source is removed. While many rather complex organic compounds exhibit photochromism, the materials used in lenses are relatively simple and have been known for a long time; i.e. the silver halides - silver chloride and bromide. These materials darken when exposed to light; as in the photographic process. However, the darkening can be made reversible if small crystals of the halide are very finely dispersed in an oxide glass, such as that used to make lenses. (If they are not finely dispersed, the darkening is permanent, and an image is formed.) The crystals are made up of ions - charged particles - the silver ion being positive and the chloride ion being negative. Exposure to sunlight results in an electron being removed from the chloride ion, and this then travels through the crystal and joins up with a silver ion to form a neutral silver atom. The process is repeated and a fine dispersion of silver atoms is formed; and since these absorb the incident light, the material appears darker. When the light source is removed, the reaction reverses, the silver atoms essentially

giving back their acquired electrons, and silver and chloride ions (and a clear material) are formed. There is, however, an important difference between the two reactions. The darkening is brought about by light, but the clearing is a thermal reaction; i.e. it depends on the absorption of heat from the "surroundings" - the crystals, the glass, the air, etc. Consequently the reverse reaction tends to be much slower, and we all have noticed how the lenses take some time to clear. This energy requirement also explains why the clearing takes even longer when the lenses have been cooled. The rate of clearing (approximately) doubles for each rise of 15 degrees Celsius in temperature.

The reason for the more rapid darkening outside is that the lenses are then exposed to a much higher intensity of ultra-violet radiation from the sun. (Fluorescent light provide only minute amounts of ultraviolet radiation.) The silver halides are more sensitive to such radiation; i.e. the photochemical process occur more rapidly.

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 June *Agora* is May 17, 1989.

May

MONDAY, 1

MEETING
Alumni Board
7:30 pm

THURSDAY, 4

Final date for registration and changes in Spring Session full courses and half courses which commenced May 1

Final date for Withdrawal Without academic penalty from Spring Session half-courses which commenced May 1

Final date for refunds on withdrawal from Spring Session full-courses and half-courses which commenced on May 1

SATURDAY, 6

Royal LePage Run for Women
10 a.m. start
Start: Algoma and Gibson Streets

WEDNESDAY, 10

Final date for withdrawal without academic penalty from Spring Session full-courses

FRIDAY, 12

Meeting - Senate, 2:30 pm
Approval of Graduands

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

Silver Jubilee Float to appear in the Shrine Parade

THURSDAY, 18

MEETING
Board of Governors
4:00 pm

MONDAY, 22

Commonwealth Day
UNIVERSITY CLOSED

WEDNESDAY, 24

Spring Session half-courses commence

Spring Session full-courses which commenced May 1 resume

SATURDAY, 27

CONVOCATION
Degrees and Diplomas
Thunder Bay Community Auditorium

DAILY FOREIGN TELEVISION NEWS

Mexico, Madrid, Warsaw, Tokyo,
London, Moscow, Rome,
Jerusalem, Teheran, Paris.
BB2011
9 AM - 5 PM
EVERYONE WELCOME

MONDAY, 29

Final date for refunds on withdrawals from Spring Session half-courses which commenced May 24

Final date for registration, changes and withdrawal without academic penalty in Spring Session half-courses which commenced May 24.

WEDNESDAY, 31

The Corporate Canoe Challenge
7 p.m. at Old Fort William

June

WEDNESDAY, 14

Spring term classes end

Final date for applications for the Summer Session

Agora

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Thunder Bay Chamber of Commerce

You are invited to visit the Lakehead University exhibit in the Ontario Building, booth 317.

Thursday, May 11 from Noon to 10 p.m.;
Friday, May 12 from Noon to 10 p.m.;
and Saturday, May 13 from Noon to 8 p.m.

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