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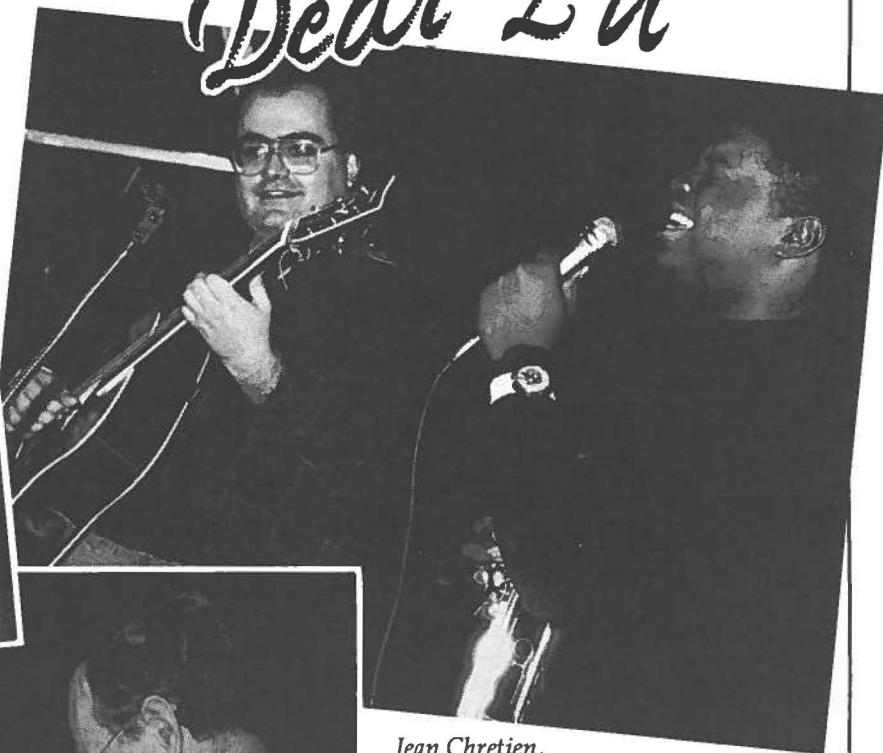
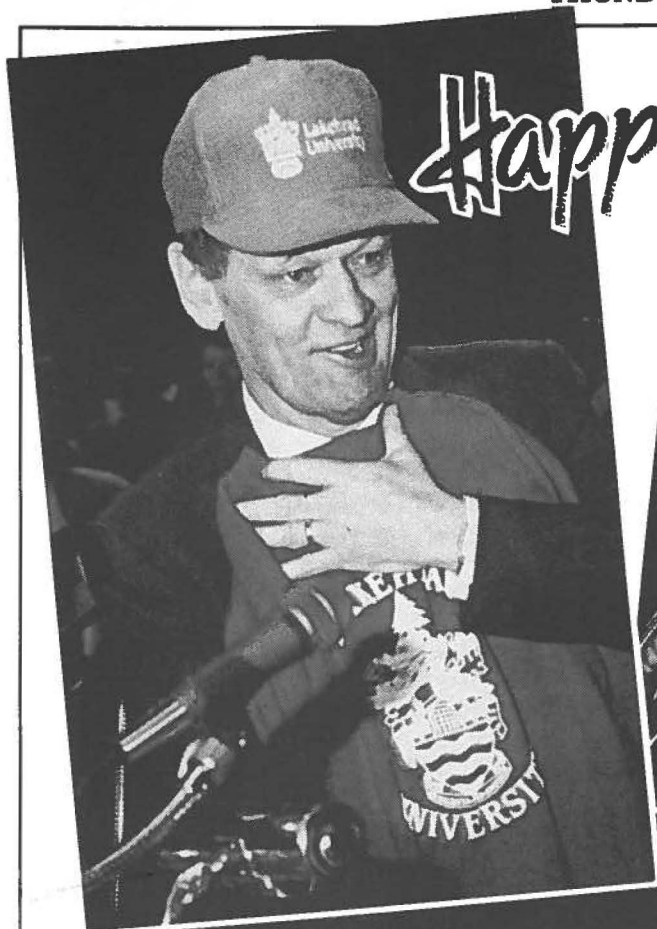
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Lakehead University Agora

THUNDER BAY, ONTARIO VOL. 7. NO. 4

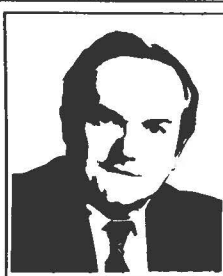
APRIL 1990

Happy Birthday Dear LU



Jean Chretien, our 1988 honorary degree recipient, dropped by the final Silver Jubilee Birthday Party on March 22 and was delighted with his "red" LU gifts. Greg "Louis Armstrong" Beckford belts out his rendition of "A Wonderful World" to a cheering crowd (guitarist Gus Pappas may leave his fourth year Outdoor Recreation studies to go on the road with him). Party organizer Lorraine Harris and Denise Bruley, Information Office, chat with Chretien prior to his speech on Canadian nationalism and the French-English language issues.

Report From the President



Dr. Bob Rosehart

Ontario University Funding Levels

Concern continues to be expressed around the system with respect to the level of funding to be provided to the Ontario university system for next year. It is felt that if the province is *reasonable* and truly interested in the future development of the youth of this province, additional considerations will be forthcoming in the spring provincial budget. I would encourage each and every one of you to use every opportunity to present the case of the needs of the university system.

Concern with Campus Safety

Over the past few years on this campus (as at almost all Ontario university campuses), concerns have been raised with respect to campus safety and possible crime and assaults. Over the years, a number of very deliberate and concrete steps have been taken to minimize the opportunity for such incidents. Special lighting and the Beverly-Balmoral entrance construction were projects significantly considered for safety considerations.

The current concerns with respect to campus safety are valid, and further progressive action needs to be taken in concert with L.U.S.U. to establish programs and policies to ensure maximum safety for our students on campus. I am particularly encouraged that serious consideration is being given to an escort-type model.

To place the issue of Lakehead campus safety in relative context, from what I know of incidents at several other Ontario university campuses, Lakehead is about as safe a campus as you can get in today's society. This does not mean that we should not continue to improve our position, and this is a position that I strongly support.

Regional Science Fair

In early April, Lakehead University held the Northwestern Ontario Regional Science Fair in the C. J. Sanders Field-house. Over the years, many of our faculty have participated as judges. This year's Chief Judge was Dr. Alastair Macdonald of the Department of Biology.

Chancellor Selection

I am pleased to announce that the Electoral Board has invited Chancellor B. Weiler to remain in his position for a further term of one year and that a Chancellor-elect has been designated. A public announcement on the Chancellor-elect will be made in mid-1990 to be effective in 1991. I

congratulate and thank Chancellor Weiler for agreeing to serve Lakehead University in this role for this year and I look forward to Convocation '90.



Building Projects Update

At long (and late) last, it appears as if the detailed design drawings for the Student Centre and the Regional Education Project are to be completed by April 15, 1990 at which time the project will be tendered. The tender price will be known three to four weeks after that date, and about all we can do at this stage is pray! Both projects look very promising, and we will have to wait and see what May brings.

Learned Societies' Meeting

Each year, over approximately a one-month period, the Learned Societies Conference is held in Canada. This conference brings to a community some 6,000 to 8,000 delegates in total and approximately 1,800 at any one time.

The local economic impact is estimated to be three to five million dollars. Some months ago, Lakehead University officially inquired of the Royal Society the possibility that Thunder Bay (and Lakehead University) might host a future conference. A positive response has been shown to that request and, on March 26 and 27, a two-person delegation inspected Thunder Bay as a possible contender for the 1993 conference. With the support from the City, the Chamber of Commerce, and Confederation College, Lakehead University was able to present a strong case for Thunder Bay. One negative factor raised by the visiting delegation was the recent City resolution.

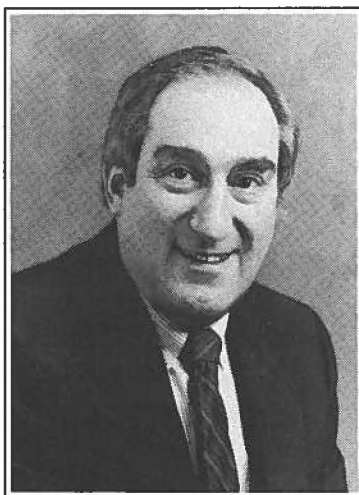
A decision on the 1993 site will be made by this fall, and I will keep you posted. Having Thunder Bay and Lakehead host this prestigious event would be a significant milestone in our future development as a major corridor post-secondary institution.

Silver Jubilee Ball

The Silver Jubilee Ball will be held on Friday, May 11 at the Airline Motor Hotel. Tickets may be reserved by contacting my Secretary, Linda Phillips, at 343-8200. Response to date has been good, and participants are encouraged to bring friends.

End of Classes

With the end of classes comes the annual examination ritual. I must cut this article short, as I am under threat to get my examination submitted!



Archie Colosimo Appointed Ombudsperson

Armand "Archie" Colosimo has been appointed Lakehead University's second Ombudsperson. Archie brings a wealth of experience to the position. For a number of years he was Attendance Counsellor at the Lakehead District Separate School Board and until recently, was the Executive Director working with young offenders at the Creighton Centre. Archie has been involved with community organizations such as the VON and Big Brothers as well as volunteer activities like little league baseball, hockey and youth employment. "I have always been involved with youth, their families and community based programs. The experience has given me a broad range in almost all areas of community service and wide experience in knowing how community programs operate". Archie looks forward to meeting and advising the members of the university community. For office hours and further information contact Archie at 343-8061.

Around Campus

The Horrors In El Salvador

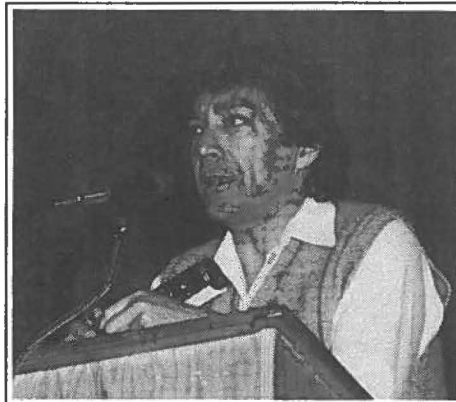
Lutheran missionary Brian Rude, spoke to an audience of students, staff and faculty about his experiences in El Salvador in the Agora on March 14. Rude served as a pastor at Fe y Esperanza (Faith and Hope) orphanage in San Salvador. According to Rude, threats to church workers by the El Salvadoran police were common. In November, following a rebel offensive in the capital, at great risk to themselves, orphanage workers went into the streets to help the injured. On November 17 soldiers entered the orphanage and arrested Rude along with 11 others - doctors, a nurse, pastor and lay workers. In a world where attending university and studying Marxist doctrines are considered subversive actions, Rude is lucky. He was not beaten or tortured during his night in prison - rather interrogated and deprived of sleep. "We were treated royally in comparison". According to Rude, torture at the government's hand is sophisticated. "They do not visibly injure or mark the body. They try to destroy internal organs which are not as obvious". A technique commonly used is called "la capucha" (the hood). A rubber hood filled with lime is placed over the head of the victim who eventually must inhale the lime until he loses consciousness. He is then revived and the process is repeated continuously.

Rude is travelling across Canada to make people aware of the terror El Salvadorans must face each day and he is asking for help. He hopes that Canada will strengthen its foreign policy regarding El Salvador. Food and monetary aid from Canada has been suspended since November and Rude is asking that new aid be rechannelled via non-political agencies like Oxfam and CUSO or churches.

The Native View of Temagami

On Wednesday, March 7, Gary Potts, Chief of the Teme-Augama Anishnabai, presented two lectures. His presentation drew attention to Native concerns about land use in the Temagami area. The lectures were part of the School of Forestry's seminar series. Greeting the audience in the languages of various native bands, Chief Potts mapped out the boundaries of his presentation. "I'm here to explain what clear cutting and roads being built have done to our lands. I'm not a forestry technician - you could explain a tree scientifically. I want to explain what that tree means to my people". Potts is angry about what he

calls "outrageous ignorance from forest rangers", referring to the Ministry of Natural Resources, and the systematic process of "land taken by design from us by an alien government". The Teme-Augama Anishnabai, according to Potts, has been struggling for 113 years to resolve the issue of ownership of the land with the government of Ontario. "We have to explain to an uninformed public that it's our land, when the government has no document to say it owns it either". The solution for Potts would be an offer of a treaty and a reserve in the Temagami area. Potts and the Teme-Augama Anishnabai have spent the past 16 years with their case in the courts. The band which has inhabited the area for 6000 years, lays claim to about 10,000 square kilometres of land. This land includes all disputed parklands and most of the forestry areas as well. Their case is now before the Supreme Court of Canada.



Chief Gary Potts

In December 1989 Gary Potts was one of 17 people arrested and charged with mischief for setting up a blockade of the Red Squirrel logging road. The new road accesses a stand of century-old White Pine, one of few of its kind in Ontario, and will connect with existing lumber roads. Although the Teme-Augama is not opposed to logging per se, Potts believes that the Ontario government has opened too many areas to logging companies, and in fact sustainable development is no longer feasible. "Major areas of land need to be left alone - to steady the soil, the elements of nature". Directing statements to forestry students Chief Potts asked them to be aware of the impact of clear cutting and to not see the tree merely in terms of dollars. "We need foresters and biologists to teach society that there is an interdependence of life and land". The opportunity for change lies with the youth, according to Potts and he hopes that some will take up the challenge.

LUSU Elections

On March 6 and 7 Lakehead University students went to the polls to vote for their Student Union executive. The election signified a new era of student politics at Lakehead. In previous years there were 5 executive positions. The current board of directors voted earlier this year to modify the number of executive positions to only three - President, Vice-President Finance and Vice-President Student Issues - and these positions will be full-time for the year. Congratulations to Ian Middleton LUSU's new President, Dwayne Hunking, the new VP Student Issues, and Tony LeBlanc, VP Finance.

The election of the Student Union's Board of Directors took place on March 20. 16 students were elected to the 1990/91 Board. They are: Paul Caccamo and George Pardalis for the Faculty of Science, Greg Beckford, Victor Brandonisio, Doug Plumb, Michael Miller, Lisa Sinnicks, Wendy Snelgrove and Robin Squires representing University Schools, and Liana Decorso, Cassandra Koenen, Roland Laybolt, Roch Letourneau, Dianne Mills, Paul Moniz and Tara Salavich for the Faculty of Arts. Fall by-elections will be held for student representation from the Faculty of Education and Graduate Studies.

Brian Walmark -Best Delegate

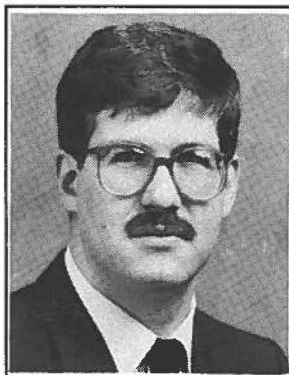
Lakehead University student Brian Walmark was chosen best delegate at the North American Model United Nations Assembly (NAMUN) held February 23 to 27 in Toronto. Approximately 450 students from North America and Europe participated in the event. Lakehead's participation has been growing each year and this year the team boasted a record number of delegation members. The team, representing Denmark, included head delegate Anne Fisher, Kyle Brink, Sean Penney, Brian Walmark, Bill Salminen, Nancy Ewachow and advisor Dr. Ernst Zimmerman. Brian says, "I look upon the award as a team award. We did a lot of research. The Danish embassy was really helpful. They sent us speeches and press releases and explained how they voted on particular issues".

Convocation Marshalls Needed

The Alumni Association needs 21 volunteers to act as Marshalls for Convocation on Saturday, May 26, 1990 at the Thunder Bay Community Auditorium. You must be an LU graduate to perform this task. For information contact the Office of Alumni Services at 343-8155.

John Petherick

John Petherick is an Industrial Hygienist and can be found at the new home of the Resource Centre for Occupational Health and Safety, the previous site of the Thunder Bay Symphony. Originally from London, Ontario, John received an honours degree in Human Biology from the University of Guelph in 1985. John is also a graduate (January 1990) of Sarnia's Lambton College in the Industrial Technology Program. Lakehead University is not new to John however. He spent his co-op placement here during the summer of '89. Part of the reason why he returned to Lakehead is because of special projects the centre is undertaking such as the development of health and safety training programs for Northern Ontario. John is presently working towards receiving professional accreditation as an Industrial Hygienist. Away from the workplace John keeps busy hunting, fishing and weight training.

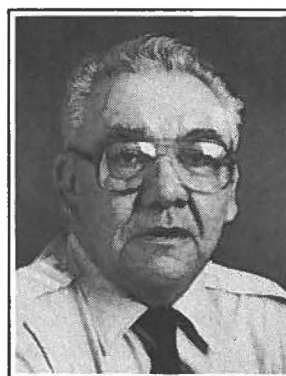


Linda Moffat



Linda Moffat, a new addition to the Security Office, moved with her husband and five children to Thunder Bay in July and hasn't stopped to catch her breath since. When she came to Thunder Bay Linda enrolled in the Law and Security course through Confederation College which she continues to study as a Distance Education program. She has lived in every region in Ontario and the provinces of Manitoba, Alberta and British Columbia. The reason for all the travel? Linda's husband works for the Canadian Coast Guard. His present post is the Samuel Risley where he is chief cook. "He cooks and I guard", she laughs. Linda's hobbies include writing "humorous pieces mostly" and playing broomball.

Edward Lyons



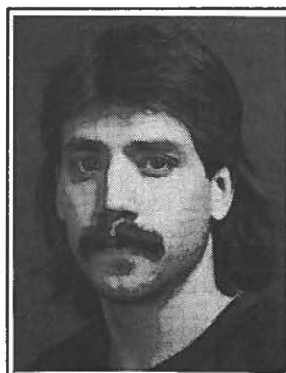
Edward Lyons, a new security attendant at the university, worked in security with the City of Thunder Bay for a number of years before taking a position here. He finds his present position slightly less unnerving. "Working in those huge grain elevators at night could sometimes be frightening". Edward has travelled across Canada and has been to many of the native reserves where he is treated with great respect. Edward is a traditional native healer and has helped people across Canada upon the request of native leaders and sometimes the clergy. "The Great Spirit directs me to herbs that are used to help people with sickness and disease". Edward's 12 year old son Mark has taken an interest in his father's heritage and is now training as an apprentice. When Edward retires, his goal is to travel to all the reserves across Canada.

Marlene Orr

Marlene Orr is the secretary in Native Support Services. Although working for a large organization was a big change for Marlene, she has found that she "enjoys meeting the students and they've accepted me quite well. They're what keeps me going". Besides the time she spends with her husband and daughter, Marlene has taken a few basic computer courses and continues to learn more about computers. "In the future I would like to be able to show and teach others instead of having people teach me". Marlene is very sports active. In the summer she can be found on the baseball diamond and in the colder months she plays ringette out at Stanley for the NorWest Women's League. Marlene takes part in the Royal LePage Run for Women every year and is especially looking forward to running with the Lakehead University women this year.



Bill Maki



Bill Maki is the new electrical technologist in the Engineering Department. Bill completed his electrical engineering degree in May 1989, Bill rejoined the department in January 1990. He says, "I would like to get a solid background in engineering and besides, it's good experience to work at LU". When Bill is not at work he likes to tinker with his own electronics projects and his home computer. Like a true northerner, Bill likes skiing and skidooing in the winter and camping and fishing in the summer.

SUMMER 1990

JAPANESE STUDENTS TO FOLLOW ENGLISH IMMERSION PROGRAM AT LAKEHEAD UNIVERSITY

Thirty students from Gifu, Japan will be on campus from July 25 to August 30, 1990. Weekend homestay with Thunder Bay families will be an essential part of their English Immersion Program.

Any faculty or staff member interested in hosting two Japanese students for one or more weekends this summer is asked to contact:

Jane Livingston,
Department of Continuing Education
at 8068 or 8133

LAKEHEAD UNIVERSITY NOR'WESTERS

Wrap-up

The varsity competitive season has concluded and by all standards the season was a successful and rewarding one. For the athletes, coaches and supporters of the Nor'Westers, the season of "The Climb to Excellence" will be one for the history books. The four major varsity programs, men's basketball, women's basketball, volleyball and wrestling, did well during the competitive season with the three team sports (basketball and volleyball) advancing to the playoffs. The wrestling team qualified two athletes for the national CIAU final. The men's basketball team finished the season with a record of 18 and 13 and hooked a berth in the OUAA West playoffs. In the quarter-finals they lost to the University of Brock. The team won tournaments in Winnipeg and Saskatoon and made the national rankings twice. The phenomenal guarding duo of Jeff Byerley and John Laplante were named to the OUAA All-Star team. Player for the month of February was starting centre Mike Lalonde. He averaged 12.5 points and 7.5 rebounds a game.

Women's basketball completed their outstanding season in top place in the OWIAA West Division with a record of 12-2. With the first place berth they hit the Ontario championships reaching the semi-finals where the team lost to Toronto. Sharon Knowles finished the season as the leader in scoring in the Ontario league and gained a place on the All Star team. Kathy Harrison led the league in assists and was named to the All Star team in the West. Ontario Coach of the Year honours went to Stu Julius. Player for the month of February was Kelly Fitzgerald who finished the season on a high note. She scored 15 points and made 10 rebounds against the University of Toronto.

The Lady Nor'wester Volleyball team's exciting season was capped by taking 5th place in Ontario at the OWIAA championships. The team had a record of 35 and 9. Player of the month

honours went to Kelly Breutigam who concluded her season with a dominating performance at the OWIAA championships (46% of team kills). Kelly's entire season had similar successes and resulted in well-deserved recognition. She received Ontario's Rookie of the Year honours and was the only player from the West Division to make the All Ontario team. The LU wrestling team also had a successful season. Mike Kirlew was 2nd at the OUAA's (All Star) and 4th in the CIAU's while freshman Tony Gallo placed 3rd at the OUAA's and 5th at the CIAU's. Overall the team placed 6th at the OUAA and 11th at the CIAU championships. Player of the month for wrestling is Tony Gallo. His finishes at the two championships were a direct reflection of his hard training and effort throughout the year. Lakehead University Athletes of the year were named at the athletic banquet held on March 25.

Men's basketball player Jeff Byerley and women's basketball player Sharon Knowles were selected the 1989-90 male and female athletes of the year. Both were instrumental factors in the success of their varsity teams and were selected to the league's all-star team. The following is a list of recipients of awards:

Varsity Teams

Men's basketball

MVP: Jeff Byerley

Best defensive player: Leslie Ragguette

Most improved: Ray Foster

Rookie of the year: Chris Grace

Women's basketball

MVP: Sharon Knowles

Defensive: Sharon Knowles

Rookie: Jenny Burgess

Most improved: Kelly Fitzgerald

Women's volleyball

MVP: Kelly Breutigam

Defensive: Deanne Geisler

Rookie: Kelly Breutigam

Corinne Kollman received a plaque for outstanding contribution to the team.

Wrestling

MVP: Mark Tarantini and Mike Kirlew

Rookie: Tony Gallo

Most Improved: Steve Roslinsky

CLUB TEAMS

ATHLETES OF THE YEAR

Indoor soccer: Colleen Deboer

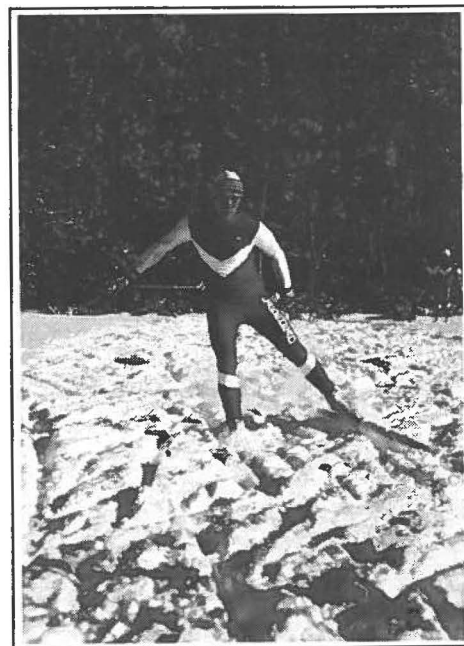
Indoor track: Steve McKague

Cross-country running: Manuel Salvati

Nordic skiing: Mark Puumala

Rugby: Kathryn Boyd

Alpine skiing: Jodi Powell



Mark Puumala

Sibley Ski Tour

The Sibley Ski Tour, held March 3, saw the birth of a new era in cross-country skiing - one with Lakehead University's name on it. Lakehead University skied away with the crown for the organization with the greatest number of kilometres collected during the tour, thus pushing the Lappe team into second for the first time in the history of the event. The category was open to ski clubs, corporations and schools. Top finishers for Lakehead University include 1st place winner in the men's 50K, Mark Puumala and 7th place winner Dennis Paradine. In the women's 40K the 1st place winner was Terri Gibbons and 2nd place winner, Moira McPherson. LU's Kevin Paradis placed 3rd in the men's 20K. Other successful finishers from Lakehead included Claude Liman, Fred McIntosh and John Whitfield.

Health Symposium Develops Network Between University Health Researchers And Community Agencies Who Provide Health Services

The recent Health Research symposium was considered useful and successful by the 60-70 people who attended. Organizer Anne Fiorenza said "there was an excellent response from faculty, community health providers and health policy makers". Dr. Connie Nelson, Director of Research and Graduate Studies, described highlights: "Participants felt they had a much better understanding of the capacity of the university to undertake health research projects. It also provided them with the opportunity to learn about interdisciplinary health research. They could see from the presentations we're not just about individual research projects. We all benefit from partnership research". Nelson felt that the opportunity for delegates to make contacts was another important purpose for the symposium.

The Department of Research and Graduate Studies has been asked to organize an extensive workshop highlighting university health research on an annual basis.

Faculty presenters: A. Bowd and C. Loos (Alzheimers); J. Jamieson and N. Lavoie (Type A Personality and Fitness); J. Crossman and R. Kirk-Gardner (Mortality Rates in TB due to Heart Disease); B. Minore and M. Katt (Nishnawbe-Aski Nation Health Director) (Native Suicide Prevention).

3-Year Commitment from MNDM To School Of Science And Technology

The School of Science and Technology for Northern Ontario secondary school students will continue for another three years at Lakehead and Laurentian Universities, Taras Kozyra, Port Arthur MPP and Parliamentary Assistant to Minister of Northern Development Rene Fontaine announced at a media conference at Lakehead University.

Over the past three years, the school has proven popular with students, parents and educators", Kozyra said. "It has helped students become aware of career opportunities in science and technology that exist in Northern Ontario." This year, the program will be expanded by 50 percent to accommodate 270 students. The school will also be changed to a four-week format. The Ministry of Northern Development and Mines will provide approximately \$1 million to fund the school at the two Northern Ontario universities. Each student who completes the four-week course of study will receive a \$1,000 stipend."

The summer studies provide enriched learning for secondary school students from across the North who show special aptitude in science and technology," noted Fort William MPP and Minister of Natural Resources Lyn McLeod. "The classroom activity is combined with field trips designed to demonstrate industrial applications of science in the northern economy. Lakehead University will accept 90 students for this innovative program

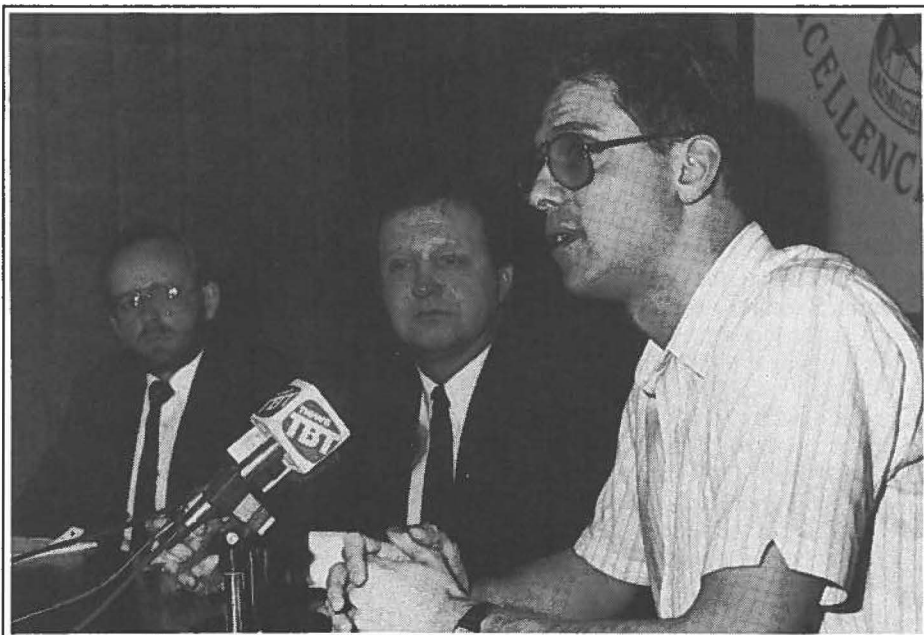
which helps stimulate our young people's desire to enhance skills which will be in great demand in the 21st century," Kozyra added.

Sudbury's Laurentian University will run two programs of 90 students each, one in English and the other in French.

Application forms will be forwarded from the universities to all secondary schools in Northern Ontario. To be eligible, students must intend to enroll in grades 12 or 13 in September, 1990,

have parental consent, and be recommended by their principal as having demonstrated ability and aptitude in science. Room and board will be provided for students participating in the program.

For further information contact: Doug Melville, MNDM Thunder Bay, (807) 475-1585; or Dr. John Whitfield Dean of Arts and Science Lakehead University



Roger Zavagnin, an engineering student at LU, said that his experiences with the 1987 Science and Technology Program had helped him look at science in a new way, "to see how everything was interdependent". MPP Taras Kozyras, centre, and Dr. Alisatara MacDonald, biology professor, fielded other questions about the program.

R.A.P.

Making A Great Lake Superior

(Complete conference proceedings will be available through the Centre for Northern Studies which hosted and co-sponsored the conference. With the assistance of conference journalist Larry Saunders and Dr. Harunur Rasid, who provided the Conference Summary, a few conference highlights are noted.)

When a university is situated on the largest fresh water lake in the world, there appears to be an inherent responsibility to be part of the decision-making process about its future. An international conference called "MAKING A GREAT LAKE SUPERIOR brought together more than 150 delegates representing government, business, environmental groups and university researchers providing the opportunity to share ideas and strategies on solving international water pollution problems. One journalist commented that the delegate mixture could have been volatile and divisive, but cooperation and consensus prevailed.

The focus of the gathering was on the seven so-called "pollution hot spots" around Lake Superior which were identified by the International Joint Commission (IJC) five years ago. Four of the seven are on the north shore of the Lake, including Thunder Bay harbour. Jake Vander Wal, with the Ontario Ministry of the Environment, and one of the conference organizers, says that the IJC has identified 42 "hot spots" known as Areas of Concern, around the Great Lake Lakes and public advisory committees have been established to draw up what are called Remedial Action Plans (RAPs). These public advisory committees include representatives from municipalities, industry and the general public.

The conference heard distressing news about how difficult it will be to clean up Lake Superior. Even if all seven hot spots were cleaned up, there would still be a big pollution problem - one that is well beyond the scope of local clean-up plans. William Strachan, a research scientist with Environment Canada, told the conference about a computer model he's developing with other scientists about air pollution. Although under development, their model indicates that up to 90% of toxic chemicals like PCB's come from the atmosphere - falling into Lake Superior in the form of toxic rain and snow.

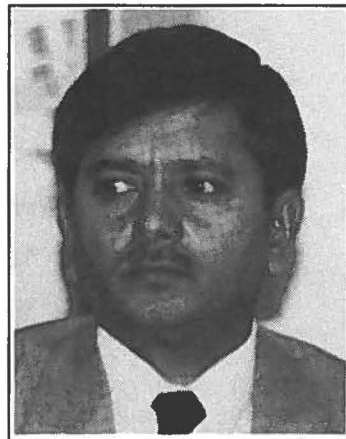
The Great Lakes Water Quality Agreement, signed by Canada and the United States, calls for "zero discharges" of toxic substances into the Great Lakes. The concept of zero discharge, however, has always been tempered by economic realities, as governments at all levels have set limits which allow pulp and paper mills, mines, or municipalities to continue sending toxic substances into the lake. Gordon Durnhill, the American Co-Chairman of the IJC announced that the Commission will soon know about the fate of their recommendation to designate Lake Superior as "pollution free" - a model for the rest of the Great Lakes. Bruce Hyer, an environmental activist from Thunder Bay, first suggested the idea to the IJC last October. "Lake Superior, as an entity, should become a model for seeing whether we can achieve zero discharge". Hyer says it won't be cheap to implement the recommendation even though Lake Superior is the cleanest of the Great Lakes but he believes it will be money well spent. "It's the top of the watershed, and we send water downstream, so its a good test study as well as philosophically being a good place to do it. Also, the retention time in Lake Superior is a couple of hundred years - meaning that if we pollute Lake Superior heavily, it will not clean itself up in a decade ... if we mess it up, it's messed up relatively permanently".

Joan Skelton, a Thunder Bay author, is a member of the Thunder Bay Public Advisory Committee, which is helping the Ontario government prepare a Remedial Action Plan (RAP) to clean up Thunder Bay harbour. In an interview after the conference, Skelton pointed out that as far as she is concerned there is no great polarity between industry and the public demanding a clean up. Everyone on the committee wants to find solutions, through consensus, because of the urgent need for environmental action. "The nuclear bomb [of environmental destruction] is hanging over the heads of everybody, industry and public. And if industry polluter doesn't realize this, and if we the public don't change our lifestyle and demand less, then we might as well forget it. I'm optimistic. The industry people are human too, and want their genes to survive, their families to survive."

The conference was the first of its kind for RAPs on Lake Superior. Say organizers, "This year we talked about what we're going to do. Next year, we'll talk about what we've done."



Jake Vander Wal



Harunur Rasid



Bruce Hyer



Joan Skelton

People, Papers/Publications & Special Projects



Alain Nabarra, Associate Professor, Languages Department, contributed a chapter to the book "La Revolution du journal", 1788-1794, edited by Pierre Retat, Professor at the University of Lyon, France, and published by the CNRS (France National Council for Scientific Research). Entitled "La Presse coloniale devant la Revolution", it deals with the nature and the role of the press in the French Colonial Territories during the Revolution of 1789. Prof. Nabarra also presented a paper entitled "Un enseignant de francais aux Etats-Unis en 1789: Joseph Nancrede", to the annual meeting of the American Association of Teachers of French which was held in Paris in conjunction with the celebration of the bicentenary of the French Revolution.

The research for both projects was funded in part by grants from the SSHRC fund through the Senate Research Committee.

Dr. I. Nirdosh, Professor of Chemical Engineering, has published a paper entitled "Free Convection Mass Transfer in Hemispherical Cavities", in the journal of Chemical Engineering Research and Design. Dr. G. H. Sedahmed of the University of Alexandria, Egypt, is the co-author of this paper.

Professor de Cangas has been elected chairperson of a committee to incorporate consumers in the board of the Canadian Mental Health Association, Thunder Bay. This is the first time that such a step is being taken by a Mental Health Association. Prof. de Cangas published "Exploring Expressed Emotion: Does It Contribute To Chronic Mental Illness?" in the referee journal: Journal Of Psychosocial Nursing 2nd Mental Health Services, 28 (2) 31-34, 1990.

Ken Hartviksen delivered a paper, March 29 at the Heritage & Tourism - ICOMOS European Conference Canterbury - University of Kent (United Kingdom) entitled, "Tourism Development of Heritage Sites through Cooperating Associations".

Dr. V. V. Paranjape, Department of Physics, announced that Solid state physicists from the North American continent meet every year in the month

of March to discuss their work. The meeting, arranged by the American Physical Society, took place this year in Anaheim, California and was attended by approximately 5000 physicists.

Four members of the Department of Physics presented papers at this meeting. The titles of the papers and their authorships were as follows:

Dr. M. W. Hawton, Dr. W. J. Keeler and Mr. X. Le, "Fractal Models of Charge Transport on Low-dimensional Water Layers in Phospholipids and Proteins"; **Dr. W. J. Keeler**, Dr. M. Hawton and Dr. J. J. Dubowski (NRC, Ottawa), "Resonant Raman Scattering in Epitaxial Cd 1-x MnxTe Films"; **Dr. V. V. Paranjape**, "Quantum Bound States in a Classically Unbound System of Wires"; **Dr. W. Sears**, "Fractal Formation of Silver Aggregates on Tin Oxide Surfaces. Dr. Sears was also elected to chair one session at the conference.

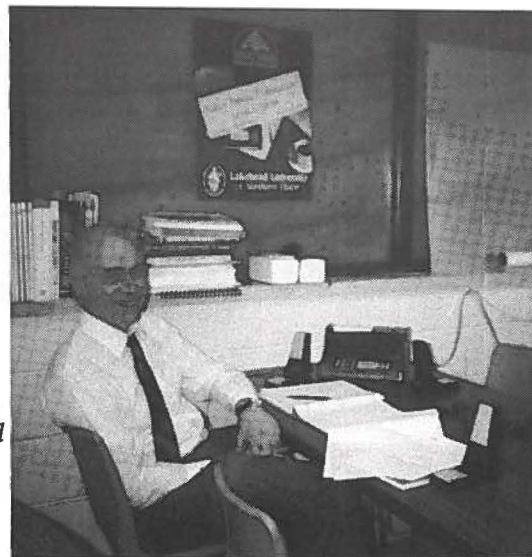
Donation

The Map Library in the Department of Geography is pleased to announce a donation of thirty-nine topographic maps of this region to its collection from former student and now private environmental consultant, Mr. Terry Noble, of Thunder Bay, whom we would like to thank publicly.



Distance Education Program Co-ordinator, Susan Cole, hosted Silver Jubilee Birthday parties with a difference. In February and March, members of the "Distance Education Road Team" travelled to Nipigon, Marathon, Fort Frances, Dryden and Ignace. Cole said it was "great to get out into the region and talk to people, to listen to what they have to say about our programs and services and how we can help them meet their educational goals". Team members talked about what it's like to take university classes in a school without walls, and the type of commitment necessary to succeed. In Marathon, team members are ready to share cake and information. One new piece of information is that the term Signal North will be dropped and replaced by Distance Education. From left to right, Vonnie Cheng, Susan Burton, Phyllis Bosnick, Susan Cole and Eva Couchie, Marathon Site Co-ordinator.

In the photo below, Doug Bruce from Marathon gets ready for a teleconference for his Environmental Assessment course.



Research News

FROM THE OFFICE OF GRADUATE STUDIES AND RESEARCH

Research Officer: Anne Fiorenza

RESEARCH OPPORTUNITIES

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

NSERC RESEARCH AWARDS

The recipients of the 1990 Natural Sciences and Engineering Research Council of Canada Operating and Equipment Research Grants Competition have been announced. In total Lakehead University's 1990 NSERC awards amounted to \$816,897, as compared to \$705,093 in 1989 (excludes strategic grants). This is an increase of 16% over last year. In spite of this increase, due to the increasing competition for limited federal research dollars, many deserving research proposals were not funded. I would like to take this opportunity to commend all researchers for their efforts in this year's competition.

In the operating grants competition, 31% of all NSERC eligible faculty applied with a success rate of 36%. Several of Lakehead University's new researchers were successful in obtaining operating grants. They are: Dr. C.C. Graham (Mathematics), Dr. C.A.G. Hayman (Psychology) and Dr. S.D. Kinrade (Chemistry).

As a result of NSERC's decision to increase the allocation for equipment and the high calibre of proposals, several of Lakehead University faculty were successful in receiving equipment grants. The average equipment grant was \$21,193 with a success rate of 25%.

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

BIOLOGY

Dr. P.H. Knowles - "Effects of Environmental Stress as a Selective Force on Genetic Structure of Forest Trees"

Dr. L. Malek - Superspeed Refrigerated Centrifuge with Rotors (Equipment)

CHEMISTRY

Dr. S.D. Kinrade - "Nuclear Magnetic Resonance Study of the Chemistry of Aluminosilicate Solutions"

ENGINEERING

Dr. L.J. Garred (Chemical) - "Hardware and Software Development and Simulation Studies to Exploit Spent Dialysate for Urea Kinetic Modelling in Hemodialysis"

Dr. M.H. Khan (Electrical) - "Hand-off control for Microcellular Communication System"

Dr. M.H. Khan (Electrical) - Workstation (Equipment)

Dr. J.B. Kiszka (Electrical) - "Fuzzy Logic Knowledge-Based Systems. The Pulp and Paper Industry, Computers and Controls of the Pulp and Paper Industry"

Dr. U.S. Panu (Civil) - "Development of Pattern Recognition Based Procedures for Streamflow Data Augmentation and Streamflow Forecasting"

Dr. H.T. Saliba (Mechanical) - "Experimental and Theoretical Free Vibration Analysis of Thin Plates with Various Shapes,

Boundary Conditions and Complicating Factors"

GEOLOGY

Dr. P.W. Fralick - "Paleogeographical Interpretation of Archean Sedimentary Sequences in Northwestern Ontario"

Dr. R.G. Platt - "Petrogenesis of Alkaline and Carbonatitic Magmas"

Dr. G.J. Borradaile - Demagnetiser (Equipment)

MATHEMATICS

Dr. C.C. Graham - "Topics in Harmonic and Functional Analysis"

Dr. C.C. Graham - Computer (Equipment)

Dr. M.W. Benson - "Parallel Iterative Methods"

PHYSICS

Dr. M.H. Hawton - "Physics of Membranes and Absorbed Water"

PSYCHOLOGY

Dr. C.A.G. Hayman - "Modality Effects in Human Performance"

INTERNATIONAL DEVELOPMENT GRANTS

Dr. Fentey Scott (School of Education) has been awarded a Micro-Fund (Planning Mission) by the Association of Universities and Colleges Canada (AUCC) to determine the feasibility of an institutional linkage between Lakehead University and the University of the West Indies, Barbados. The proposed project is entitled, "School Management and Supervision for Head Teachers and Senior Personnel in the Eastern Caribbean States."

RESEARCH OPPORTUNITIES

SOCIAL SCIENCES AND HUMANITIES RESEARCH COUNCIL OF CANADA

Travel Grants for International Representation

Grants under this program are to assist Canadian scholars who hold office in international scholarly organizations in the social sciences and humanities to attend business meetings of these organizations. (Please note: The presentation of papers at international meetings held abroad falls under the General Research Grants (GRG) Program administered by the Senate Research Committee).

Deadlines: June 30, and October 30.

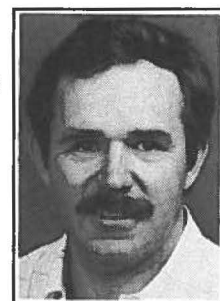
Aid to Occasional Scholarly Conferences in Canada

Conference grants are awarded to encourage and facilitate the communication of research results among Canadian scholars, through scholarly conferences, workshops, symposia and colloquia held in Canada. The SSHRC offers limited support to conference organizers to help defray travel and subsistence costs of presenters and formal respondents at a conference, as well as some administrative expenses.

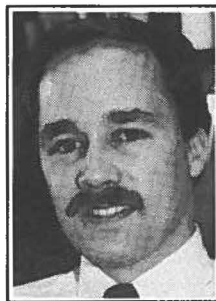
Deadlines: June 30 and October 30.

JAMES MCKEEN CATTELL FUND Sabbatical Awards for Psychologists

The James McKeen Cattell Fund is offering one or more supplemental sabbatical awards in psychology. These awards designed to supplement sabbatical allowances provided by universities, so that each awardee may be able to take enough time to complete the objectives of the sabbatical period (1 year). The objective of the awards is to encourage research and scholarly endeavour on the part of psychologists at universities. The maximum value of the award is \$22,000. **Deadline: December 1, prior to the September in which sabbatical is to commence.**



Dr. G.J. Borradaile



Dr. S.D. Kinrade

L.S.B. LEAKEY FOUNDATION

The foundation was formed to further research into human origins, behaviour, and survival. Recent priorities have included research into the environments, archaeology, and human paleontology of the Miocene, Pliocene and Pleistocene; into the behaviour of the Great Apes and other Old World primate species; and into the ecology and adaptation of living hunter-gatherer peoples. The foundation is offering the following two fellowships: The Fellowship for Great Ape Research and Conservation (\$20,000) and the Fellowship for the Study of Foraging Peoples (\$20,000).
Deadline: May 1, 1990.

UPCOMING DEADLINE DATES

Social Sciences and Humanities Research Council of Canada - Strategic Grants (April 17, 1990).

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

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

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

Natural Sciences and Engineering Research Council of Canada - Strategic Grants (May 1, 1990).

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

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

Social Science Federation of Canada - Aid to Scholarly Publications Program (Open).

The American Foundation for Aids Research - Research Grants Program and Small Grants Program (April 10, 1990).

Department of Energy, Mines and Resources - Environmental Studies Revolving Funds (Anytime).

Canadian Department of Communications - International Cooperation Assistance Fund on New Information Technologies (Open).

National Geographic Society - Research Grants (Open).

North Atlantic Treaty Organization (NATO) - Advanced Research Workshops (Open).

FOR INFORMATION ABOUT FOUNDATIONS PLEASE
CONTACT JO-ANNE SILVERMAN, FOUNDATIONS
OFFICER, AT 343-8910 OR DROP BY ALUMNI HOUSE.

FIRST CONFERENCE

The Department of Research and Graduate Studies and the Graduate Students of Lakehead University jointly presented their first annual conference on March 16. Approximately 75 people attended.

A main focus of the conference was regional development and northern research. Graduate students were invited to present papers at the conference and 11 submissions were received. Topic areas included Psychology, Biology, Physical Education and Athletics, Forestry, Sociology and History.

A major purpose of the conference according to Vice-President Internal of the Graduate Student Association, Gary Warwick, was "to raise the profile of the Graduate Student Association at the university and within the community. It was a fantastic success for our first year and we hope it will continue as a grad student tradition".



Forum

Dr. Bob Day
School of Forestry

*"If all the world
were apple pie"*

Dr. Bob Day, School of Forestry, presented his paper Old Growth Forests Toronto in January, 1990. In the paper's conclusion, he borrows from a previously published article which he wrote in 1971 and is shared now with a more general audience.

"What balance has there been since glaciation? Ten thousand years ago the ice rolled back a curtain on unparalleled re-invasion and ecological change. Catastrophe of fire, flood and windstorms on every hand induced and maintained forests of quasi-even-age and fitted them into a mosaic of time and space and species. Against this backdrop stone age man, a creature of 200 millenia gone by, struggled from aboriginal to civilized stage. First firing forest to drive his game, he found his quarry multiplied in the clearings so created. Finding edible plants he burned again, and later planted in crude shifting cultivation until at last he balanced nature and brought order, patterning the landscape with his chequered fields. Copse and hedgerow, field and farm testified to his harmonious order. Here, Charles Elton says, is found true balance between man and life enabling him, the master of his modern world, to live free from the fear of invasion, epidemic plagues and pests like those that forced Pharaoh's hand and freed the Israelites from bondage.

What balance is there now with phosphate, pesticide and pollution's pall? Must we return to harder days of supposed natural balance? I think not, for Homo has always been as much a gambler as a sapient sage more likely to stake his fortune on the wheel of chance and trust that he will strive for better balance still, than

grunt and cringe and club
as did his skin clad
forebears. We shall go on,
we must with faith, hope,
skill and reason,
challenging the mass media
doom seers as others did
before us. If man, as Malthus
said, will overcrowd the
earth... If man filthies all the
water fit to drink... If...

If all the world were apple
pie,
And all the sea was ink,
And all the trees were
bread and cheese,
What should we do for
drink?

(from Witt's Recreations
1641)



A FINAL POEM - FOOD FOR ARGUMENT AND THOUGHT

Verses 1 and 2 of this epic poem were written by Boulding in 'Man's role in changing the face of the earth' (Thomas *et al.* 1955,) Verse 3 was written by the author, with sincere apologies to Boulding.

A Conservationist's Lament

The world is finite, resources are scarce,
Things are bad and will be worse.
Coal is burned and gas exploded,
Forests are cut and soil eroded.
Wells are dry and air's polluted,
Dust is blowing, trees uprooted.
Oil is going, ores depleted,
Drains receive what is excreted.
Land is sinking, seas are rising,
Man is far too enterprising.
Fire will rage with Man to fan it,
Soon we'll have a plundered planet.
People breed like fertile rabbits,
People have disgusting habits.
Moral: The evolutionary plan,
Went astray by evolving Man.

The Technologist's Reply

Man's potential is quite terrific,
You can't go back to the Neolithic.
The cream is there for us to skim it,
Knowledge is power and the sky's the limit.
Every mouth has hands to feed it,
Food is found when people need it.
All we need is found in granite,
Once we have the men to plan it.
Yeast and algae give us meat,
Soil is almost obsolete.
Man can grow to pastures greener,
Till all the earth is Pasadena.
Moral: Man's a nuisance, Man's a crackpot,
But only man can hit the jack pot.

A Foresters Plea for Silviculture

Forests are composed of trees;
That grow then burn and shed their seeds.
Fires are started by lightning and men,
And burn large patches now and again.
Ecologists write poems and wax prosaic
On the diversity of this fire 'mosaic'.
Thus 'young' and 'old-growth' are mixed
With many-aged stands in betwixt.
Tottering 'old-growth' is diverse, so its said,
A 'mosaic' is more so, and the trees aren't dead.
Fire protection since 1910.
Has completely stopped the new regen.'
Moral: Silvicultural work is now urgently needed,
So future forests get planted and seeded.

Professor Day was quoted on the topic of Temagami in an excellent article entitled "Loggerheads" by David Lees in the December '89 issue of Toronto Life (copies available in the Information Office)

Last Writes

Katherine Shedden, Editor

"Did I ever tell you my Theory of Universities? Like most institutions, each one is similar to a vat of molasses - slow and sluggish. If something goes wrong in one part, it spreads out and covers it up; if you try to make a dent in it, it oozes into the mark you think you've made. If you try to wade through it too quickly, you collapse from exhaustion; and if you try to beat it by plunging in and flailing away, you drown. But if you heat molasses it gets thin and moves quickly."

That wonderful description was written by Judith Krantz in her book *Deceptions*. It felt like an appropriate lead in to this month's column about two vitally important parts of this institution - Senate and the Board of Governors.

Slow and sluggish? Well, we often hear the comment that something "is before Senate" or "at a Senate sub-committee". But is it not the Senate committee where the real trench work, the careful and methodical investigations and scrutinies are carried out? Is it not Senate who bears the responsibility for ensuring that our institution maintains quality programs and ultimately offers a post-secondary education with high standards?

Do not be slighted with the molasses reference dear members of senate. Your work is critical and appreciated and you always have the option to turn up the heat in the Senate Chambers.

Hi-Lites from the last Senate meeting:

Dwayne Hunking, Bill Salminen and Katja Huitikka were approved as student senators from April 1, '90 - March 31, '91

The Masters of Social Work program and MA (Political Studies) were approved by Senate to be sent on to OCGS for appraisal. The **Graduate Diploma in Business Administration** was suspended for study. (Full report next month)

The Nominations Committee is looking for tenured faculty interested in serving on the Judicial Panel for 1990-91 (3 positions). The panel is the appeal body for students sanctioned under the Code of Student Behavior of Disciplinary Procedures. If interested call Dr. Brian Lorch at 8514.

Hi-Lites from The Board of Governors' Meeting

The Board accepted in principle the recommendation of the Labour Management Committee that an **Employee Assistance Program** be established at Lakehead University.

In recognition of long and outstanding service to the University, Mr. David Jones, Technician in the Department of Chemistry, is to be honoured by having one of the Board of Governors Silver Jubilee Scholarships renamed the **David Jones Scholarship**.

The Board accepted revised By-Laws which designate a seat on the Board of Governors for a member of the non-teaching staff. Elections will be conducted within the next few months.

As a result of the resignation of Ron Nelson as the Director of Business Administration there were two new appointments to the Board. On March 1, 90 Margaret Boone was appointed to the Board Executive Committee and Duncan Bradley was appointed to the Financial Planning Committee.

The great news in the fund-raising area is the announcement that with the sponsorship of Confederation College we now have 49 Silver Jubilee Scholarships! The Chairman of the Board thanked the City of Thunder Bay for their \$25,000 donation to scholarships and bursaries.

How's that for hot molasses?

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 15, 1990.

APRIL

LIBRARY EXTENDED HOURS

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

LIBRARY HOURS FOR EASTER WEEKEND

GOOD FRIDAY, 13 - CLOSED
SATURDAY, 14 - 9 am - 11:30 pm
EASTER SUNDAY, 15 - 11 am - 11:30 pm
EASTER MONDAY, 16 - 9 am - 11:30 pm

INTERNATIONAL FILMS

Braun Bldg. 1021-8 pm
For information call 343-8260
Free - Everyone Welcome



THURSDAY, 5

THUNDER BAY ART GALLERY and the VISUAL ARTS DEPARTMENT cordially invite you to attend the opening of the LAKEHEAD UNIVERSITY JURIED STUDENT EXHIBITION 8 - 10 PM Thunder Bay Art Gallery Exhibition continues through April 25

Final Examinations Begin

FRIDAY, 6

Final date to register for Spring Term Distance Education courses without late fee

Final Examinations Begin

Final date for applications for the Spring Session

MONDAY, 9

RUDOLF NUREYEV and Friends
Thunder Bay Community Auditorium
\$100, \$45, \$37.50 - 8 PM

Lakehead University Vocal Ensemble
St. Paul's United Church 8 PM \$5.00/
\$7.00

TUESDAY, 10

Silver Jubilee Symphony Series
Community Auditorium Stars of the Future

Howard Cable, Conductor
Diane Garrett, T.B.S.Y.O. Conductor
Selected winners of the Lakehead Music Festival perform, along with the T.B.S.O. Youth Orchestra, with the T.B.S.O.

FRIDAY, 13 & MONDAY, 16
EASTER WEEKEND
LAKEHEAD UNIVERSITY CLOSED

FRIDAY, 20

Final date for late registration in Spring term Distance Education course

SATURDAY, 21

Final Examinations end

THURSDAY, 26

SENATE
9:30 A.M.

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

FRIDAY, 27

February Session classes end

SATURDAY, 28 & MONDAY 30
February Session Examinations

MAY

TUESDAY, 1

Spring Session full-courses and half-courses commence

FRIDAY, 4

Silver Jubilee Computer Contest
N.W.O. High Schools
Agora

Silver Jubilee Math Awards Presentation
1 - 3 PM

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, except Distance Education

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

SATURDAY, 5
ROYAL LePAGE RUN FOR WOMEN
Boulevard Lake

Lakehead University
Silver Jubilee Speaker Series

THE SOVIET UNION: THE NEW REALITIES

Lakehead University Student Services
presents:

IGOR LOBANOV

Counsellor of the USSR Embassy
for Press and Information
In the Upper Lecture Theatre
University Centre

Tuesday, April 10, 1990
7:30 PM

Free Admission

Agora

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N F LAVOIE

PHYS EDUCATION

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219