

Share

OUR NORTHERN VISION

Inside:

CTV's Dian Cohen	3
Prof's African Adventure ..	4
Forum -	
Future Considerations ..	7

Lakehead University



Agora

THUNDER BAY, ONTARIO VOL. 8. NO. 3

MARCH 1991

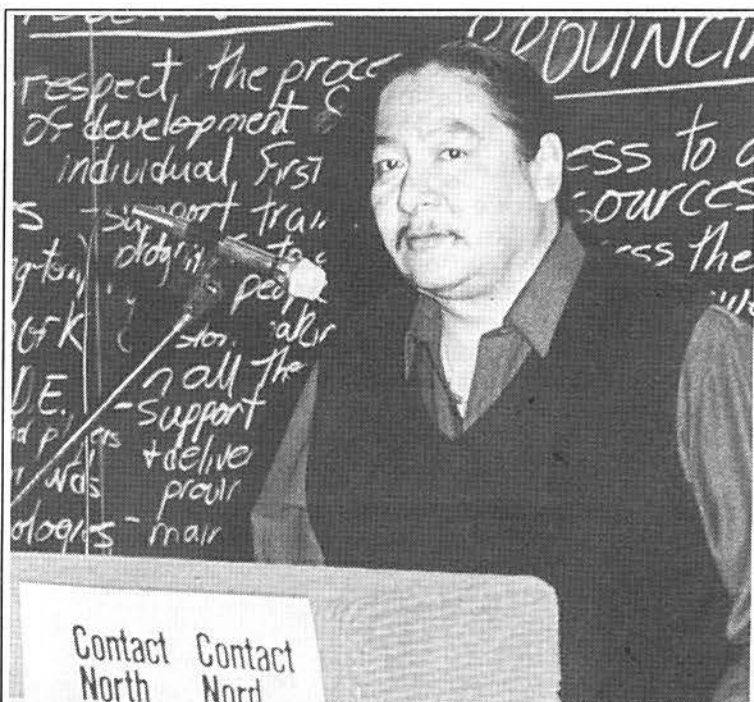
Good News for LU, the College - and Thunder Bay

Ontario colleges and universities are getting a piece of the province's \$700 million anti-recession pie. A total of 65 short-term labour intensive projects in 27 municipalities have been approved totalling \$94 million. According to MCU Minister Richard Allen, the projects are expected to create a total of 42,515 person-weeks of employment which includes \$54 million for specific major projects and \$40 million for maintenance and renovation projects. "Colleges and universities play a significant role in the economic well-being of their communities. This funding will make a difference in the lives of many workers and the communities they live in, while providing long-term benefits to our postsecondary system."

LU had two projects approved including a \$1.6 million renovation to Cornwall Campus and deferred maintenance projects totalling \$550,000. In the case of Cornwall, renovations for the 84-year old structure include: upgrading to meet code deficiencies, handicap accessibility and reconditioning the outside of the building. The approved deferred maintenance grant will help but falls far short of the University's original proposal which included a 5-year maintenance plan totalling \$4 million. According to Peter Kerr, Coordinator of Construction Projects on Campus, "we'll need to prioritize the shopping list". Confederation College received \$4,830,000 for major renovations to the Shuniah Building.



Perhaps President Bob Rosehart was planting subliminal messages with MCU Minister Richard Allen when they toured the campus in "Maintenance Choice", a vehicle which may come in handy for the upcoming maintenance projects.



Harper Addresses Conference

Manitoba MLA Elijah Harper was at Lakehead University on Thursday, February 21 to speak at Contact North's conference on Distance Education for Natives. "I've been very busy in the last while" -an understatement by the 41-year old Cree Indian who gained instant fame and a busy schedule last summer when he blocked the Meech Lake Accord in the Manitoba legislature. Without a doubt the history books will show that it was Harper's action that led to the defeat of the Constitutional amendment.

Receiving a standing ovation, Harper addressed a crowd of about 100 people, at the closing lecture of the conference. He called for natives to have the right to govern themselves. "It is important that we educate and teach our young people. It is important too that we take charge of our lives through self-government. Self-government lies within the people themselves. The real power is at the community level with the young people. (Through education) you have capability and confidence and then you have self-government." Harper talked about the need for governments to allow natives to determine their own educational programs and to use transfer payments the way people will benefit most. Pouring government money on to the reserves is not the answer, says Harper. "Some control must be given back to the Indian people and a system developed where transfer payments can be given directly to Indian governments. The aboriginal people have to become accountable for their actions."

Report From the President



Dr. Bob Rosehart

PASSING OF A LEGEND

The recent passing of Mickey Hennessy closes yet another chapter on the political legends of Northwestern Ontario. Mickey was a character at times, but you always knew that

his heart and soul were with the interests of the people of Thunder Bay and the North. On another front, Mickey was extremely proud and dedicated to his family. I knew Mickey during most of my time here in Thunder Bay, but it was during his term as MPP for Fort William that his interactions with LU were the greatest. He often interjected on our behalf. I remember one difficult situation where we could not seem to attract the attention of the appropriate Minister through the regular channels and Mickey showed up in front of the Minister's legislature desk with the correspondence and refused to leave until he read the material. The matter was resolved. One of his expressions towards LU in that era was that the only way to keep us happy was "a cheque a day".

COUNTER CYCLICAL MONIES

LU was pleased to receive over \$2.1M from the Ministry of Colleges and Universities as part of the Province's \$700M anti-recession fund. This money will be put to good use in job creation initiatives. On behalf of the University Community, I extend thanks to MPP Shelley Wark-Martyn for her efforts on our behalf.

Thanks

The 1990-91 Alumni Annual Fund is charging towards its goal of \$125,000 for scholarships, library books, the Nor'Wester Magazine and other worthy projects on campus. The Fund stands at over \$100,000 pledged with over a month to go before the campaign ends on April 30, 1991. So, if you haven't sent in your tax-deductible donation that will assist in the provision of quality academic programming at Lakehead University, now is the time! This year students and alumni volunteers, faculty and staff made 14,000 calls over the course of 33 days. Alumni participation was high. Out of 4,604 completed calls, 1,298 pledges were received which amounts to a participation rate of 28 percent. Way to go, LU! Many of the donations received were from alumni who work for companies that participate in the Matching Gift Program including: Boise Cascade, IBM, Northern Telecom, C-I-L, MacMillan Bloedel, James River Corp., Inco Limited, Dow Chemical, Alcan Aluminum, Falconbridge and Bell Canada. My sincere thanks to all.

Larry Hebert, Coordinator
Alumni Annual Fund
BA'69, BusDip'70, HBComm'78

APPLICATIONS FOR FALL 1991

Although over the years I have learned to be somewhat conservative with application data, an increasing number of students continue to opt for Lakehead University from all parts of Ontario and Canada. Our program and faculty's reputation continues to grow and this, even in the difficult years forecasted for the future, should give us a firm foundation. Coupled with the application statistics optimism are the mounting cuts in federal transfer payments to Ontario. To date, the Ontario NDP government is showing leadership for the long-term investments needed in public sector education and we obviously encourage these policies to be continued.

SHARE OUR NORTHERN VISION CAMPAIGN

The internal campaign is going very well and I wish to thank all of you who have participated to date. If any of you would like to privately discuss the campaign with me, please do not be bashful. I started the first corporate calls this past week in Toronto and memories of the "partners" campaign resurfaced. I was ably assisted in the current Toronto calls by ex-LU's Bill McDermott, a partner at Price Waterhouse, and Norene MacLeod of the Royal Bank of Canada.

GEORGE DAWOSYR

We note with sadness the death of George Ilarian Dawosyr, age 76, who retired from Lakehead University in 1981. Born and educated in Austria, Mr. Dawosyr came to Canada in 1948 moving to Port Arthur in 1959, where he began work at the Library of Lakehead College. He was known and admired for his humanity, sense of humour and expert knowledge about Slavic languages. The George I. Dawosyr Memorial Scholarship has been established by colleagues and family.

ACADEMIC VICE PRESIDENT

I would like to congratulate Dr. John Whitfield on his newest appointment at LU. John has served LU well in many varied capacities over the years and his new position will provide additional opportunities and challenges. John is a born Northern Ontarian and you can be assured that the "northern vision" is alive and well.



In true Northern style, the Vice-President is shown with his victorious curling team at the recent Alumni Bonspiel. From left to right: Skip Whitfield, his wife Diane, Fred and Karen McIntosh. A full interview with Vice-President Whitfield will appear in the April Agora.

Around Campus

PAPER TREASURES DISPLAY

A "Paper Treasures" display was mounted by the North-western Ontario Archivists Association at Intercity Mall on Saturday, February 16, 1991. The "treasures", consisting of archival and museum items depicting the history and development of Northwestern Ontario, were on view from 9:30 a.m. until 6:00 p.m. Groups represented in the display were the Thunder Bay Historical Museum Society, City of Thunder Bay Archives, Paipoonge Museum, Thunder Bay Branch of the Ontario Genealogical Society and Lakehead University's Chancellor Paterson Library. Representatives from Lakehead University were Louise Wuorinen from the Northern Studies Resource Centre, and Vivian Sharp from the Library's Archives. A wide variety of unique archival and museum holdings were featured, from old Finnish Christmas cards to an antique printing press. A large and appreciative crowd of shoppers stopped briefly and examined mementoes of Thunder Bay's rich heritage.

WORLD PREMIERE - A GIANT'S DREAM

Empty piers
Winding frozen streams
Grain elevators
Images of prehistoric mammals
Monuments sculptured in the path of time
Forgotten survivors of a relentless latitude
Remote land
In shades of white, green and blue,
Silent, unpretentious, yet so elusive..."

The World Premiere of Dr. Aris Carastathis' new work "A GIANT'S DREAM (Northern Landscape)" was presented by the Thunder Bay Symphony Orchestra and Chorus Wednesday, March 13 at the Thunder Bay Community Auditorium.

Dr. Carastathis, an Assistant Professor with the Department of Music at Lakehead University, was commissioned to create this work by his Department and the Centre for Northern Studies in 1989. The piece is approximately 20 minutes long and employs the full orchestra and chorus. The text elaborates on the unique northern landscape surrounding Thunder Bay. Dr. Carastathis says, "the lyrics personify the Sleeping Giant dreaming of this land of his."

Dr. Carastathis has extensive background in composition and instruction with the Saskatoon Conservatory of Music, Louisiana State University, the University of Northern Iowa and Wartburg College. He lists nearly 40 compositions to his credit.

SALVATION ARMY FOOD DRIVE

The Salvation Army of Thunder Bay has once again asked Lakehead University students for their help. Before Christmas break residence students, led by Residence Council organizers, knocked on doors around the city, collecting non-perishable items for the Salvation Army Food Bank. The amount collected filled the Norwester's team van to brimming with food items for the needy. Unfortunately, the Food Bank is now empty and the Salvation Army needs help. The students have organized another food drive for Saturday, March 23 and are asking university departments for help as well. Next week boxes will be dropped off in offices across the campus and the students are asking faculty and staff to contribute non-perishables. The boxes will be picked up on March 25. One student organizer says "this is a perfect way for students to help out people that are in desperate need and to give something back to the community."

CTV'S Dian Cohen Speaks

CTV's financial wizard, Dian Cohen, spoke to a capacity audience in the Senate Chambers on March 7. Students, faculty and staff came to listen to Cohen speak on present government policy and its effect on the business climate.

"Canada has been on an agenda for change all of my professional life," says Cohen. "The question that we must deal with is how is this country going to get back on track. Canada was designed on short production runs and exploitation of resources. This doesn't work anymore because its too easy to ship the goods in." Cohen told the audience that Canada began as an country based mostly on agriculture but after World War II was the country the world looked to for the resources to rebuild. This period was the biggest boom-time in history for the country. Institutions were created - the way health care is delivered for example - that don't work well anymore. "Of course they don't," says Cohen, "the whole economy has changed. Don't wait for the grain to come back to Thunder Bay because it won't happen. The world has shifted away from the resource base toward computerization of communication, services, information. That's progress."

Cohen calls for Canadians to be "daring" in terms of helping communities out of marginal industries instead of prolonging the inevitability of the loss of the resource base. "We must get people out of the substandard jobs and get them into ones where they can make a living. The trick is to make Canada an attractive place for capital. Is it a new building that we need or a new idea? I believe that ideas are the key to a successful new Canada".



Dr. Dianne Common, Dean of Professional Studies and Prof. Jerry Phillips, Director of the School of Business, introduce Dian Cohen to a capacity crowd in the Senate Chambers.

Business Students Rate Top Five

Lakehead University's School of Business placed in the top five universities during the preliminary round of the national business school competition, the Queen's Intercollegiate Business Competition. Nine students travelled to Kingston in January 1991 to compete in the final round of competition. Only the first and second place finalists were announced after the finals were completed. Lakehead did not place first or second, but we are sure we came a close third! Our students competed superbly; something everyone at Lakehead can be proud of. The students who competed in the finals are:

Greg Brockman - Debating
Rene Cadene - Computer Simulation Game
Joel Feldman - Accounting
Don Galloway - Marketing
Andrew Hotchkies - Debating
Brian Ktytor - Marketing
Todd LaHaye - Computer Simulation Game
Kerri Law - Accounting
Leigh Mork - Computer Simulation Game

The School and competitors owe a special thanks to outside donors who helped make the trip to Kingston possible; Dunwoody Chartered Accountants, Mayor and Mrs. Jack Masters, Peat Marwick Thorne Chartered Accountants and Jan Thatcher. -submitted by 1991 ICBC Faculty Coordinator, Gabriella Sacchetti

What's Happening in the Library...

TOURS

Throughout the year, The Chancellor Paterson Library offers tours and sessions in searching the Online Catalogue for individuals. Contact the Orientation/Off-Campus Services Librarian at 343-8147 to make arrangements.

THE 1986 CANADA CENSUS ON THE UNIVERSITY VAX SYSTEM

The Chancellor Paterson Library has purchased the 1986 Census on computer-readable data tapes. Access is available through the Academic Microvax (VMS) system in Computer Services with a special Census account. Users should be familiar with SPSSx (Statistical Package for the Social Sciences).

The Census data consists of Summary Tables (Prepackaged Cross-Tabulations) which can be narrowed down to enumeration area and Microdata (raw data from long questionnaires) from which users can generate their own cross-tabulations of desired variables.

To find out more, contact the Search Services Librarian at 343-8129.

NEW CD-ROMS

Our newest CD-ROMS (Compact Disc - Read Only Memory) make searching the periodical literature in the sciences much faster and easier. BIOLOGICAL & AGRICULTURAL INDEX covers forestry, biology, environmental sciences, zoology and more. For engineering, chemistry, physics, energy resources and mathematics, we have APPLIED SCIENCE & TECHNOLOGY INDEX. Contact the Computerized Search Services Office for more information.

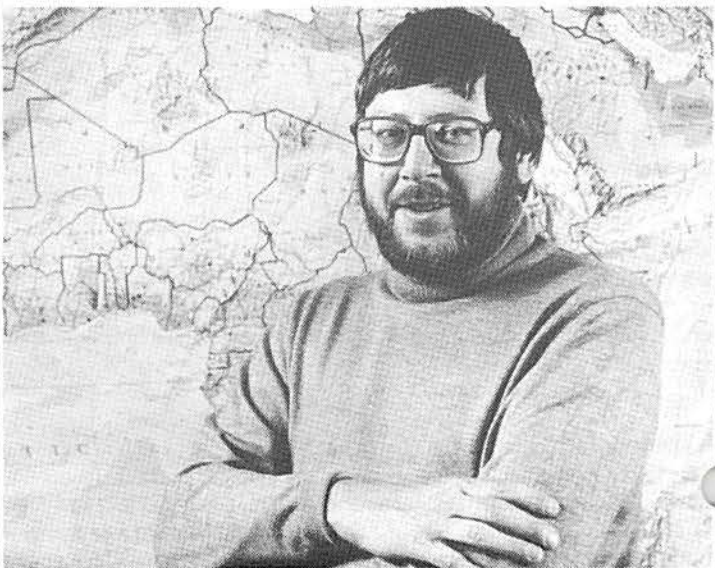
OUT OF AFRICA



The story could be titled "Val versus the Volcano" or "Geology Prof Loses Field Assistant in Volcano". Intriguing titles aside, the true story of Roger Mitchell's February field trip to South Africa has enough adventure for a full-length movie. Dr. Mitchell and his intrepid assistant, Val Denison, began their 3-week field trip to Namibia (formerly South-west Africa) to further study the evolution of an extinct volcano of unknown origin. The volcano is 1500 feet high and filled with box canyons and extremely dangerous terrain. Daytime temperature highs were over 100 degrees, with overnight temperatures in the 40's. Separate the 3-person geology team, throw in a thunderstorm, a search party complete with helicopters, Nama goat herders and you have a field trip leader's worst nightmare come true. Val Denison was lost in a volcano, in a thunderstorm at night, without food or shelter.

"I stayed on the mountain overnight in order to begin the search at first light", Mitchell recounted. The search party now included most of the 100 or so people living in the nearby village and the helicopter and police. They searched, echoes resounded off every rock, but they found nothing. Perhaps because the "white woman" had walked out on the farside of the volcano and been spotted by a goat herder who loaded the bruised and dehydrated woman on his donkey cart and took her to his hut. This was cause for a great celebration; the family washed their feet, put on their best clothes and hosted her prior to taking her back to the road which lead to the volcano. Val managed to hitch a ride part way up the mountain and actually walked up to a group of searchers. There was a trip to the hospital where she was kept over night, but basically, it was back to work soon after.

With a wry grin, Roger Mitchell said, "Yes, earth scientists get around a lot. Last year diamond mines in Siberia and this year I lost my field assistant, who also happens to be my wife, in a volcano in South Africa."

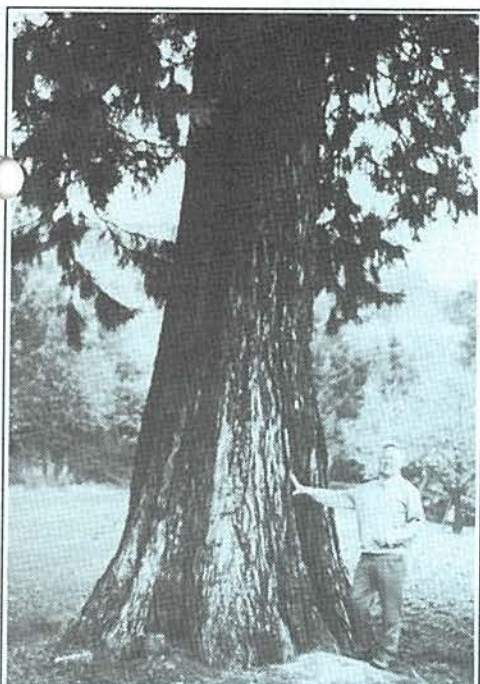


A more relaxed Roger Mitchell home from Africa.

RESEARCH NEWS

INTERNATIONAL PROFILE Forestry in Czechoslovakia

By
Willard H. Carmean, Professor Emeritus,
School of Forestry, Lakehead University



Dr. Carmean beside Sequioa planted 100 years ago in Brno, Czechoslovakia.

The first stirrings were expressed in the 1968 "Prague Spring" led by Alexander Dubcek, and in 1989 the Civic Forum movement replaced the Socialist government with the democratic government of President Vaclav Havel. Czechoslovakia, as well as the other countries of eastern Europe, is now confronted by a host of political and economic problems as they struggle through the transition from communism to a democratic government.

I visited southern Moravia, located in central Czechoslovakia, in October and November 1990 to give a 4-week series of invited lectures at the Brno Faculty of Forestry. The Brno faculty members were outstanding hosts and escorted me on field trips to observe forest conditions throughout Moravia. These trips included a 4-day visit to the Faculty of Forestry in Zvolen. Thus, I also had an opportunity to observe some of the forestry conditions of Slovakia, the eastern part of Czechoslovakia.

Czechoslovakia is about 36% forested; about 63% of these forests are conifers (Norway spruce and Scots pine), with hardwoods (beech and oak) forming the remaining 37% of the forest area. Extensive areas of productive forests produce wood volume surplus for internal needs. Thus, Czechoslovakia is one of the few wood exporting countries of Europe.

While Czechoslovakia's size is somewhat smaller than the State of New York, they intensively manage their forests through a large staff of foresters and three forestry schools. The Brno Faculty of Forestry has about 750 to 800 forestry students and a faculty of about 100. The Zvolen Faculty of Forestry is larger in size with about 600 forestry students, and about 800 to 900 students in wood processing. A Third Faculty of Forestry located in Prague just opened in 1990.

Czechoslovakia has a vast infrastructure for supporting this intense management of their forests. I visited forest research stations, intensively managed production forests, forest nature reserves. Production forests of Norway spruce and beech are intensively managed with frequent thinning; conifer plantations and natural beech regeneration must be protected to avoid destruction by very numerous red deer, roe deer, and wild boar. Czechoslovakia still has a few carefully protected old growth forests that apparently were never disturbed by cutting. These are generally in mountainous areas where 200 to 300 year old large silver fir and Norway spruce can be seen.

Well managed production forests and beautiful forest nature reserves are in striking contrast to areas where forests have been heavily damaged by air pollution. These destroyed forests are usually in northern Czechoslovakia downwind from heavily industrialized cities. The damaged area I observed was the Beskydy Mountains of northern Moravia that is located downwind from the city of Ostrava. I was told that damage was even greater in the Orr Mountains on the northwestern border of Bohemia. Forests in this area are damaged by air pollution from factories in Chemnitz and Dresden located in eastern Germany.

Many of these industrial plants have high concentrations of sulphur dioxide emissions resulting from burning soft coal for energy. These large emissions of sulphur dioxide then combine with atmospheric moisture to form sulphuric acid; acid bearing clouds then blow southward into low mountain passes where tree crowns screen acid rain as well as dry acidic particles. Acid deposition first of all results in slow growth and sparse foliage, then complete tree mortality occurs. Presently foresters can only salvage the killed trees and then replant with tree species that are less susceptible to pollution damage.

Solutions to this pollution damage are difficult for economically depressed countries that are suffering from decades of political mismanagement. Obsolete factories need to be modernized using pollution control measures, and alternative energy sources need to be found as a replacement for sulphur bearing soft coal and petroleum. Economic recovery in Czechoslovakia means further industrial expansion and nuclear energy is being suggested as an alternative energy source.

Many observations and impressions were gained from my brief visit to Czechoslovakia. First of all we in Canada might learn from the intensive forest management and the conservation ethics practised in this small country. Secondly, Czechoslovakia has serious air pollution problems that require western economic and scientific assistance. And finally the people of Czechoslovakia are struggling to recover from decades of communist repression and mismanagement, and they are reaching out to the west for scientific and economic assistance as well as for understanding during this difficult transition period. The Lakehead University School of Forestry Faculty Council recently voted to support student and faculty exchanges with the Brno and Zvolen Faculties of Forestry. Thus, we hope that these exchanges will aid forestry education in this valiant country during their difficult transition period leading to economic and political recovery.

NSERC NEWS

A summary of the contents of a letter written by NSERC's new President, Peter Morand, informing the university community of decisions taken by NSERC at a recent meeting.

Although NSERC has not yet received formal approval from the government, they are confident that Council's budget for its programs and administration will be at least \$436 million for 1991-92, compared with \$423 million in 1990-91. This means that the \$90 million available through the Matching Fund Policy in 1990-91 will continue to be available. No decision has yet been made regarding whether or not the \$90 million will be rolled into the Council's base research budget.

Despite the budget increase the situation will continue to be somewhat difficult, as the demand on the largest program, Operating Grants, continues to grow. This year again, over 800 new applicants requested grants. Council decided to inject an additional \$10 million into the program, which will grow from \$184 million to \$194 million. This funding will mainly cover funding for new applicants and small special adjustments to the budgets of selected disciplines.

The funding rate for the upcoming equipment competition will be 32% (\$38.3 million of 1990-91 and 1991-92 funds available to respond to requests totalling \$119.3 million). The equipment budget will represent 8% of Council's 1991-92 program budget although Council still feels strongly that this must be increased to 10%.

The total amount budgeted for Research Partnerships in 1991-92 is \$41.6 million, compared with \$36.3 million this year.

In the research personnel area, the number of new Undergraduate Student Research Awards, Postgraduate Scholarships, and Fellowships will remain constant. Please note that for 1991-92, the maximum stipends payable from research grants will be \$14,500 for graduate students and \$27,500 for postdoctoral fellows.

Last year, NSERC appointed a Program Policy Committee to recommend a plan of action that would result in improved grants programs. The Committee members have begun their study of Council's funding system by taking a hard look at the Operating Grants Program. Council was briefed on the preliminary findings of the Committee and endorsed its conclusions in principle. The input of the university community will be sought later this year.

Council also approved the creation of a new element within the Research Partnerships program that will support the recruitment and the establishment of new faculty members into junior level positions. The program will be restricted to persons coming from outside the Canadian university system and who are active in research areas of strategic interest to industry. Financial participation of the private sector will be mandatory. The Office of Research and Graduate Studies will provide further information on this new program as we receive the final details from NSERC.

SSHRC Releases New Five Year Strategic Plan

Paule Leduc, President of the Social Sciences and Humanities Research Council, recently released a new five-year strategic plan to focus Council's activities and to strengthen Canada's research capacity in the social sciences and humanities.

"A Vision for the Future", recognizes that there are a number of complex problems and opportunities facing Canada and the Canadian research community in the next decade. The plan sets out the Council's priorities for ensuring that researchers in the social sciences and humanities can continue to play a strong and effective role in helping Canada meet these challenges in the 1990's and beyond.

Dr. Leduc states, "Our world is experiencing profound change on many fronts and we find ourselves struggling to cope with a whole host of political, economic, technological, social and environmental developments that are taking place at almost breakneck speed. To deal with them wisely, we desperately need a better understanding of our own social and economic structures, of our decision-making processes and of how to approach underlying problems in new ways."

"At the same time, researchers in the social sciences and humanities - the very people whose work is vital to developing solutions and policies for dealing with these issues - are caught between increasing research costs on the one hand and decreasing resources on the other."

As set out in the strategic plan, the Council's three priorities over the next five years are: to increase investment in the training of the next generation of researchers; develop and promote research structures to enhance quality, productivity and relevance; and ensure that research results are more widely disseminated so that they may be used to maximum benefit within all sectors of Canadian society.

Concerning the first priority, the plan stresses that demand for advanced skills in the social sciences and humanities is expected to rise dramatically in Canada in the next ten years.

To keep pace in today's increasingly knowledge-intensive economy, Canada must be able to count on a highly trained workforce. Expertise from a wide range of the human sciences will be needed to chart new paths and will be a key ingredient for improving national productivity and competitiveness.

Under the second priority, the plan stresses a renewed focus on excellence and an emphasis on collaboration as keys to enhancing research quality, productivity and relevance. Complex, contemporary issues often do not fit within the boundaries of a single discipline, thus the Council will encourage multidisciplinary research to devise new approaches to specific problems of national concern.

The third priority addresses the need to ensure that research results are communicated more effectively - both within and beyond the academic community. Proposed measures include placing greater stress on dissemination activities to be carried out by researchers; expanding the communications activities carried out by the Council itself; and providing support for research into new communications technologies.

As "A Vision for the Future" notes, however, the Council's ability to put the full range of proposed measures into effect will depend directly on funding. As Paule Leduc points out, "we are now in a critical situation with regard to resources. Since 1979, the total yearly demand for our grants has increased approximately 339 per cent. Council's budget allocation for 1990, in real terms, barely exceeds the level it received in 1979. Unless we can turn this situation around, several of the plans and initiatives we have outlined in our strategy will have to stay on the drawing board".

A copy of "A Vision for the Future" can be obtained by calling the Office of Research and Graduate Studies at 343-8223.

RESEARCH OPPORTUNITIES

NSERC Strategic Grants

For all NSERC eligible Faculty who are interested in submitting an application to the Strategic Grants Program, the guidelines and application forms have arrived! They can be picked up at the office of Research and Graduate Studies. The deadline this year for submitting applications is **May 1, 1991**.

The objective of the Strategic Grants Program is to promote and accelerate targeted research in selected fields of national importance. The program enables university researchers to increase their contributions towards the understanding and solution of problems in these fields and to train highly qualified personnel.

The identification of areas of national importance has been accomplished with the assistance of advisors from the university, industry and government research sectors, and through a study conducted by the Science Council of Canada. Areas of research were identified that emphasize the particular importance of Canada's natural resources, intellectual strength, and socio-economic needs and opportunities, and which have potential to enhance Canada's economic prosperity, industrial competitiveness and environmental quality.

Major areas targeted for support include: Advanced Technologies (information systems; biotechnology; industrial materials, products and processes; manufacturing systems; energy), Natural Resources (food, agriculture and aquaculture; forestry; mineral resources; oceans and inland waters), Environmental Quality and New Directions. Detailed mission statements for each of these areas can be found in the 1991 Strategic Grants Guidelines.

As multidisciplinary research and cooperation with industry and/or government is encouraged through the Strategic Grants Program, the Office of Research and Graduate Studies would be pleased to facilitate this interaction by sponsoring university-industry luncheons. Contact Anne Fiorenza, Research Officer (ext. 8223).

GRADUATE THESES RECENTLY COMPLETED

The Senate Graduate Studies Committee has asked that acknowledgement be given to a student and supervisor when a thesis is completed. The following graduate students are to be commended for their outstanding scholarly efforts:

DOUGLAS, Robert (M.A. Sociology)

Supervisor: Dr. Jim Stafford

Thesis Title: The History of the Lumber and Sawmill Workers Union.

MCCUAIG, Marilyn Gail (M.Ed.)

Supervisor: Dr. M.C. Courtland

Thesis Title: The Language Learning Environment of the Senior Kindergarten Child.

STRAW, Geoffrey (M.A. Psychology)

Supervisor: Dr. Marg Sellick

Thesis Title: Relaxation and Guided Imagery for the Quality of Life of Cancer Patients Undergoing Chemotherapy.

GRADUATE STUDIES SCHOLARSHIPS

Ministry of Community and Social Services Northern Bursary Program

Applications available in the Office of Research and Graduate Studies.

The Northern Bursary Program with the Ontario Government offers financial assistance to post-secondary students pursuing careers in specialized social services. The program is designed to help students in psychology, social work, speech pathology, and persons of native ancestry interested in working in Northern Ontario. **Deadline: 7 June 1991**

Canada Mortgage and Housing Corporation CMHC University Scholarship for Graduate Studies

The Government of Canada provides funds to CMHC to conduct research in the social, legal, administrative, physical, economic and technical aspects of housing, and to award graduate scholarships for the study of housing and community planning issues. Students in psychology, engineering, economics, sociology, social work, and business are eligible. Scholarship entitlement is up to \$13,200 per year.

Deadline: 5 April 1991

1991-92 Lakehead University Internal Graduate Scholarships

Deadline: 30 March 1991

Applications are now available in the Office of Research and Graduate Studies for three categories of internal scholarships:

- Abitibi-Price Inc. Graduate Fellowship/C.J. Sanders Graduate Scholarship

(Entering Students Only): One award of \$1800 is made to a student entering the first year of a full-time master's degree program at Lakehead University who has the highest standing of those admitted in that particular year as determined by the Senate Graduate Scholarships and Bursaries Committee.

-Lakehead University Graduate Scholarships (Entering Students Only) - Eight graduate scholarships valued at \$1200 each are available to students entering the first year of a full-time graduate degree program at Lakehead University. The scholarships are primarily intended for students with first class standing.

-Ontario Graduate Scholarship Program "Institutional" Competition (Entering and Continuing Students)

Ten graduate awards tenable only at Lakehead University provides \$3766 per term (\$11,298 per year). Candidates must have at least a B+ average or the equivalent during each of their last two years of study.

Planned Parenthood Federation of Canada Norman Barwin Scholarship: 1991-92

This scholarship is open to Canadian citizens or landed immigrants who are graduates of any recognized university, possess an Honours degree or equivalent and intend to work for a higher degree in the field of reproductive health. This could include disciplines such as: biology; Canadian studies; education; history; medicine; political science; psychology; social work, sociology; and women's studies. The value of the award is \$2,500 and applications must be submitted no later than **May 1, 1991**.

Upcoming Deadline Dates

Quick Reference

Research Opportunities

American Foundation for AIDS Research (AmFAR): Letter of Intent - May 1, 1991.

Canadian Cancer Society's Stephen Fonyo Fellowship Award - anytime, but 2 months prior to when training begins.

Canadian Department of Communications; International Cooperation Assistance fund on New Information Technologies - Open

CIDA International Development Research Centre (IDRC) - Open, allow 3 months for a full response.

Easter Seal Research Institute of Ontario: Research Grants (April 15 and October 15).

Educational Centre for Aging and Health; Fellowships/Bursaries - January 1, April 1, July 1, October 1

Energy, Mines and Resources; Environmental Studies Revolving Funds - Open

Health and Welfare Canada; National Health Research and Development Program (NHRDP) - deadline postponed to June 1, 1991

Health and Welfare Canada (NHRDP); Aids Research Program - March 15 and September 15, 1991

Heritage Canada Foundation Awards Program - June 1, 1991

Japanese Science and Technology Agency Fellowships - STA/NSERC - Open, but allow 6 months for processing

Japan Science and Technology Fund - EAITC/ISTC/NSERC - Open, but allow 3 months for processing.

Killam Program of the Canada Council; Research Fellowships - June 30, 1991.

Laidlaw Scholar Program - Open

Lakehead University Senate Research Funds; NSERC and SSHRC General Research Grants Competition - March 10, 1991

National Geographic Society; Research Grants - Open

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

National Science Foundation (NSF) - Open, but must allow 6 months for review and processing.

Northern Ontario Heritage Fund - Open

NSERC Forestry Postdoctoral Assistantships - January 15, April 15, July 15, October 15

NSERC Scientific Publications - April 15, 1991

NSERC Strategic Program - May 1, 1991

NSERC Workshops and Seminars - Open

Ontario Ministry of Health; Research Projects Program, Health Care Systems Research - May 1, 1991, Feasibility/Formulation Studies - Open, Information - May 1, 1991, Workshop/Conferences - Open

Ontario Ministry of Health - Ontario Nursing Innovation Fund, Group projects - January 1, May 1, and September 1; Professional Development for RNs and RNAs - Open

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

SSHRC Special Awards: The Queen's Fellowships, Canadian Law Scholarship Foundation, SSHRC Legal Research Scholarship, Doctoral Fellowships in Management Studies - Open

University Research Incentive Fund (URIF) - January 31, May 31, October 15

World Health Organization; Fellowships - June 30, 1991.

World Wildlife Toxicology Fund - Open

World Wildlife Endangered Species Recovery Fund - January 1, April 1, July 1, October 1

GRADUATE SCHOLARSHIPS AND RESEARCH OPPORTUNITIES

CMHC University Scholarship for Graduate Studies 1991-92 - March 18, 1991.

1991-92 Lakehead University Internal Graduate Scholarships (see this issue) - March 30, 1991.

Ontario Ministry of Community and Social Services: Northern Bursary Program - June 7, 1991.

Planned Parenthood Federation of Canada: Norman Barwin Scholarship - May 1, 1991.

UPCOMING CONFERENCES

Call for Papers: Association for Canadian Studies Conference - September 24 - 27, 1992. The purpose of this conference is to provide an account of the state of theoretical discourse in Canada circa 1992, the intent being to examine the cognitive structures of our scientific and disciplinary practice. Scholars are invited to address key components of the knowledge they produce and disseminate. Major fields of interest include social space, ethics (empirical/normative/critical theory), social differences, personality/individuation, institutions/institutionalisation. Deadline to submit papers is **May 15, 1991**.

Asian Development Business Seminar Society - April 21 to 22, 1991. Vancouver, British Columbia is hosting two important events for people interested in Asian Development: The Asian Development Bank Annual Meeting of the Board of Governors, hosted by the Government of Canada, and the Asian Development Business Seminar. The seminar will focus on financing development and evolving development strategies through a series of plenary sessions, concurrent workshops and discussion groups.

Fostering Scientific Integrity in Biomedical Research - April 25 to 26, 1991, St. Louis, Missouri. This seminar will provide a forum to develop guidelines on the issue of scientific integrity in biomedical research.

The Office of Research and Graduate Studies, in conjunction with the Office of Information Services, is asking all faculty to share with us interesting research stories to feature in the RESEARCH NEWS. We would like to hear from you if you are currently involved in innovative research, have attended an interesting conference, are collaborating with industry or the community or if you would just like to profile your research expertise. RESEARCH NEWS enjoys an audience of approximately 2000 and can be a valuable vehicle for communicating your research endeavours to the community at large.

For information and application forms on any of the above research programs, please call Anne Fiorenza at ext. 8223 or drop by the Office of Research and Graduate Studies.

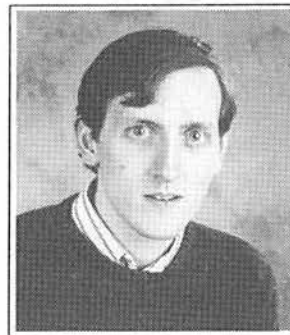
For information about Foundations, please call Jo-Anne Silverman, Foundations Officer at ext. 8910 or drop by the Alumni House.

Ti King

Professor Ti King has joined the School of Nursing. King's specialty area is Nursing Education and Administration. She presently teaches first year courses. Originally from Thunder Bay, King left the area for ten years, working as a Registered Nurse in Montreal and Toronto. She returned to Thunder Bay and attended Lakehead University for two years in the streamline nursing program, receiving her HBSc in 1986. Following that she worked as a Nursing Supervisor in Homes for the Aged. King decided to pursue a Masters degree in Nursing and received it from the University of British Columbia in 1990. Now that she is settled at Lakehead University "I look forward to getting on board with research again". King is presently conducting research into informal care-giving with regards to family care. She is involved with the Council for Positive Aging, the Alzheimer Family Support Committee and the Gerontology Studies Group. In her spare time, King enjoys travelling - she has been to Mexico, the Bahamas and Europe - and reading. Her authors of choice are Alastair MacLean, Ellen McInnis and "nursing texts, of course".



Julian West

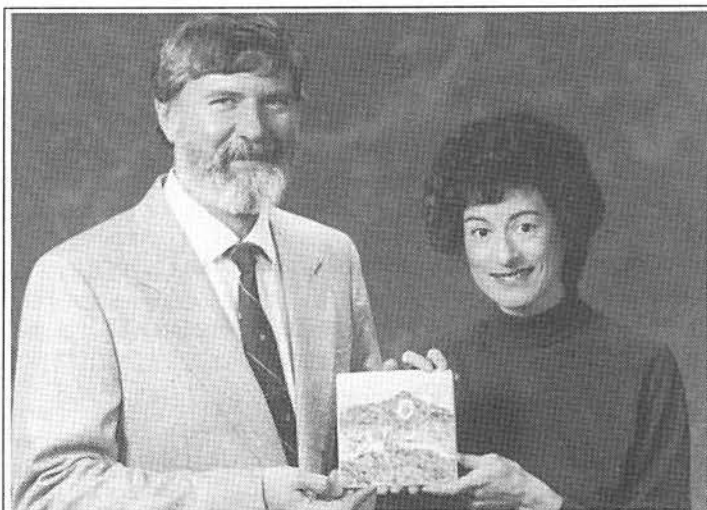
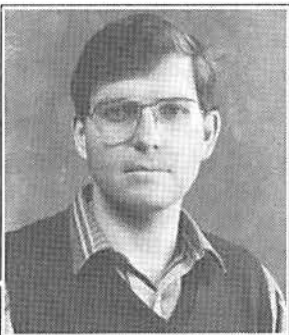


Dr. Julian West teaches in the Department of Mathematics. He received his Bachelor of Science degree in Mathematics from the California Institute of Technology (CALTECH) in 1984 and recently received his PhD from MIT. At CALTECH he pursued a double major in math and literature but had to give up the latter when he had the opportunity to spend two semesters at Budapest University in Hungary. Following his graduation from MIT, West taught courses at Dartmouth College in New Hampshire, settling at Lakehead University in July. Although he was born in England and his post-secondary schooling was in the U.S., West grew up in Vancouver and became a Canadian citizen in 1982. West's main research interest is Enumerative Combinatorics "which means I like to count things." During his time away from work West's main hobbies are solving as well as creating cryptic crossword puzzles. These are not your garden variety puzzles. Completing one often takes 10 hours, with many trips to the library. West enjoys creating them even more than solving them. "I just finished creating one on a Mozart theme and hope it will be published soon."

Robert Omeljaniuk

Dr. Robert Omeljaniuk is an assistant professor in the Department of Biology. He received his Bachelor's and Master's of Science degrees in Zoology from the University of Manitoba and his PhD from the University of Alberta. Omeljaniuk did post-doctoral research at the National Institute of Health in Washington, D.C. where he still maintains collaborative research ties.

Omeljaniuk is an endocrinologist. "I am looking into the interaction of the brain and the pituitary gland and how the brain regulates the gland." Omeljaniuk and wife Catherine enjoy general mountaineering activities, a hobby discovered while living in Alberta. "We got used to living in the Rockies so we try to get back at least once a year to do some climbing." Omeljaniuk's interest in climbing may lead him to Nepal next year. Other leisure pursuits include canoeing and woodworking.



Dr. Douglas Thom and Professor Marta Blenkarn, School of Education, display the soapstone carving "Images of the North" by Siku which was presented to them by the Canadian Society For the Study of Education (CSSE) in appreciation of their scholarly editorship of the CSSE News over the past three years. Professor Blenkarn was French editor of this SSHRC-funded publication which serves educator professionals across Canada. Dr. D. Klassen, School of Education, also contributed. Currently Professors Thom and Blenkarn are conducting funded research and publishing in educational administration and second language teacher education, respectively.

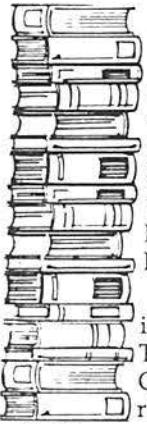
The Office of the Registrar has a New Look

A new Information/Reception area has been established that serves the Office of the Registrar. The central information phone number is 343-8500. All inquiries for the office should be directed to that line. (Of course you can still call senior staff directly if you have a specific question for them).

The purpose for the change is to better provide service to

students, faculty and staff in one central location. Included in the space is a processing centre where staff can work in a quieter environment to ensure timely processing of applications and registrations. The Office of the Registrar would like to invite the university community to an Open House Monday, March 25, between 3:00 and 4:30 pm.

People, Papers/Publications Special Projects/Awards



Dr. S.Y. Mansour, Associate Professor of Electrical Engineering, published a paper entitled "Large Power Systems Economic Dispatch by Network Loss Modelling", in IASTED International Journal of Energy Systems, Vol. 11, No. 1, 1991. The paper was co-authored by Drs. D.H. Kelly and D.O. Koval of the Department of Electrical Engineering, University of Alberta.

Dr. I. Nirdosh, Professor of Chemical Engineering, has published the paper, "Calculation of Mass Transfer Coefficients in the System Sulphate in Chloride Solution/Anion Exchanger in the Chloride Form", in the Journal *Chimic Ingenieur Technik*. The paper is co-authored by Mr. S. Lakhani of Environment Canada (Toronto) and Dr. M.H.I. Baird of McMaster University (Hamilton). Mr. Lakhani is an L.U. Engineering graduate.

Dr. Frederick Holmes, Department of English, presented a paper titled, "History, Fiction and the Dialogic Imagination: John Fowles's *A Maggot*", at the University of Louisville's annual Twentieth Century Literature Conference. The paper will be published in the spring in "Contemporary Literature" 32:2.

Professor Pat Jasen, Department of History, has published her article "Imagining Fort William: Romanticism, Tourism and the Old Fort, 1821 to 1971", in the *Thunder Bay Historical Museum Society Papers and Records*, Vol. XVIII (1990).

Professor B.W. Muirhead, Department of History, published an article entitled, "Harry Bryan, A Man of Fanatical Conviction", in the *Thunder Bay Historical Museum Society Papers and Records*, Vol. XVII (1989).

Dr. Thorold J. Tronrud, Department of History, sessional lecturer, has published "Buying Prosperity. The Bonusing of Factories at the Lakehead, 1885-1914", in *Urban History Review*, June 1990.

Professor Sun Ling-Kun, from Nanjing Forestry Univer-

sity, China is here on a six-month appointment from October 28, 1990 to April 30, 1991. His specification is lumber drying - checking, splitting problems of lumber and how to minimize the problems. He is working with Dr. K.C. Yang of the School of Forestry.

Dr. J. E. Molto, Chairman and Professor of Anthropology, published "Differential Diagnosis of Rib Lesion: A Case Study from Middle Woodland Southern Ontario Circa 230 A.D. in the *American Journal of Physical Anthropology*, 83:439-447. December 1990. He also made a joint-presentation with B. V. Kennedy entitled "The Reconstruction of the Dietary Habits of the 'Las Palmas Culture' of the Cape Region of Baja, California", at the 18th Annual meeting of the Canadian Association for Physical Anthropology in Banff, Alberta.

Professor Patricia Vervoort, Chair of the Department of Visual Arts, presented a paper at the annual Brock University "Two Days of Canada Interdisciplinary Conference" in February. With the theme of "Water, Water, Everywhere", Professor Vervoort's presentation on "The Awesome Saguenay" explored 19th century tourism as expressed in art and literature. The paper will be published in the proceedings.

APPOINTMENTS

Dr. Seimer H. L. Tsang, Chairman of the Department of Mechanical Engineering has been appointed by the Lieutenant-Governor of Ontario to serve on the Ontario Fire Code Commission for a two-year term.

Dr. V. V. Paranjape was appointed Chairman of the Department of Physics for a two and one-half year term effective January 1, 1991.

Professor J. David Bates will continue as Chairman of the Pre-service Teacher Education Program in the School of Education effective July 1, 1991 to June 30, 1994.

Professor Patricia Vervoort has been appointed the representative for Central Canada to the editorial board of the *Society for the Study of Architecture in Canada*.

CONGRATULATIONS

To Dr. Kung-Chi Yang who completed his PH.D program from the University of British Columbia and was granted his doctorate at the Fall 1990 Convocation.

Lakehead University Recognizes Scholars' Achievements and Generosity of Donors

On Friday, March 1, approximately 400 guests attended a dinner to honour the University's 1990/91 scholars, as well as pay tribute to the donors who fund many of the scholarships and bursaries. Dr. Jim Colquhoun, Past Chair of the Board of Governors, gave the toast to the donors and Miss Evelyn Halliday, a long-time friend of the University, replied. Dr. John Whitfield, Vice-President (Academic) of Lakehead University toasted the Scholars with the student reply given by Geoff Hill, Lloyd Mack and Karen Molly. Both Geoff and Lloyd are recipients of the prestigious LU Presidential Scholarships, as well as the LU Entrance Awards of Academic Excellence. Karen Molly is a graduate student, and is the recipient of a Natural Science and Engineering Research Council of Canada Scholarship. 460 undergraduate students were awarded approximately \$500,000 in scholarships and awards this year. As well, more than 60 graduate students have received approximately \$520,000. An additional 120 students benefit from more than \$52,000 in bursary funds. The City of Thunder Bay again contributed \$25,000 in scholarships to 90 local students. The Honourable Shelley Wark-Martyn, MPP and Minister of Revenue, was the guest speaker.



The Minister of Revenue, Shelley Wark-Martyn, shares a moment with her high school mathematics teacher Pete Musselman, a long-time university supporter.

Forum

Future Considerations¹

John K. Naysmith, Director, School of Forestry

A decade from now we will be ushering in a new millennium -- something a little special in that we get to do it only once every forty generations or so.

If you recall, around the time we last closed out a millennium, Eric the Red was busy regaling the folks at home with descriptions of a newly found land of fish and forests that he had discovered a three-month sail away. It would be another 200 years or so before King John would reluctantly sign the Magna Carta and Marco Polo would discover on his eastern travels the art of making and using paper money. North America's original inhabitants were still several centuries away from being bothered by European settlers moving in on their best fishing holes, hunting spots and forest domain.

One does not have to go back a thousand years, however, to be struck by the extent to which changes have occurred. Children who, at the turn of the 20th Century, watched to see if the Wright brothers could get a little daylight under the wheels of their flying machine later, as grandparent, watched in awe as astronauts safely landed on their return from the moon.

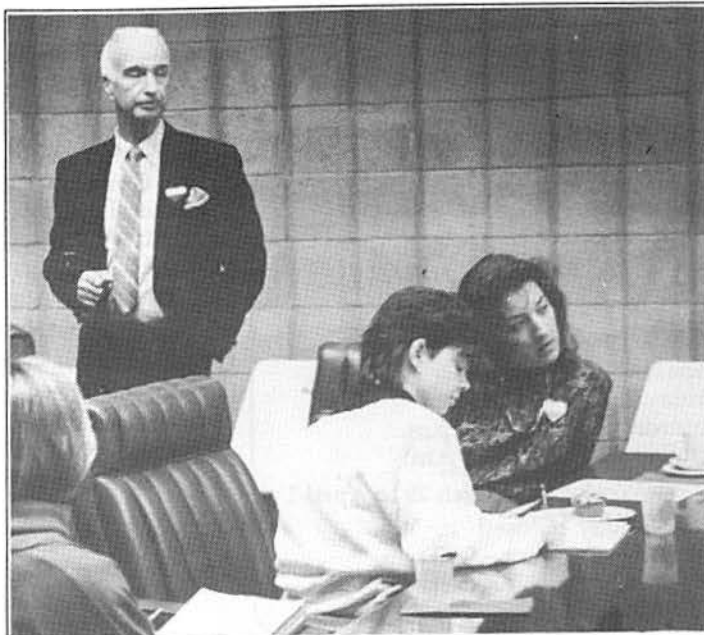
When, in ten years, we exit the current decade, century and millennium you, 1990's graduating foresters, will have become seasoned professionals, in many cases participants in decisions having significant implications for your community and society as a whole.

Adding to the exciting challenges that lie before you will be the need to practise forestry and make decisions in the context of society's enlightened concern regarding the relationship between the world's human population and the earth's life-support systems of air, water and land. The connectedness of the diverse components comprising these natural systems is a fundamental element of this relationship.

In the process of being educated as a forester you have gained some understanding of the concepts of connectedness and interdependency -- that is the need to depend on each other. You have learned that forestry which is an art as well as a science, recognizes and takes into account a wide spectrum of economic, social, cultural and ecological values. These values include, for example, the forest's capacity to cycle water, oxygen and nitrogen, stabilize hydrological systems and soil, maintain water quality and act as a carbon sink. At the same time, forests provide timber, wildlife habitat, livestock fodder, minor forest products such as medicinal plants, recreational amenities and intangible aesthetic qualities. You have also learned the importance of considering this wide array of inherent values and qualities from the perspective of the whole forest ecosystem and of maintaining the biological diversity of the entire forest community.

Connectedness and interdependency are just as relevant in social, economic and political as they are in the natural environment. Your professional training should help you to appreciate the importance of these principles in the larger context and from the local to the global level.

Garry B. Trudeau, the syndicated cartoonist and Pulitzer Prize winner, said: "Our understanding of the interdependencies of the human experience is the only force which keeps a society from fragmenting". In a similar vein, a president of Yale University once put it this way: "The whole purpose of our education has been to urge you to see and feel the connectedness among things and how that connectedness must be fostered so that civilization is sustained".



Dr. John Naysmith discusses the new forestry program at a recent Counsellor's Seminar.

To Sissela Bok, the daughter of two Nobel Prize winners, who teaches ethics at Harvard University, the underlying needs of the next century are developing trust among individuals and nations and then creating the actual institutions for resolving problems and negotiating difficulties. To Bok, trust is something built up among individuals and nations by repeated actions -- a basis for relations that are deep enough to permit negotiated settlements of outstanding difficulties. She states, "there are a great many problems in our society and we absolutely have to work together at them so long as there is distrust". Implicit in this approach is the need to systematically think through "what kind of actions increase trust and what kind of actions decrease it".

You as future practising foresters will have the opportunity, on an individual basis, to help build that trust by cultivating a capacity for objective dialogue with non-foresters concerning the management and use of forests and by being prepared to give your employer, client or the general public the benefit of your best possible professional knowledge and opinions. In doing so it is important to remember that as decision makers or advisors our body of knowledge will always be imperfect -- there is always something we as individuals do not know.

As individual forestry practitioners you can also help engender the concept of connectedness by developing a sensitivity for the values, and an understanding for the goals, of the other participants in the decision-making process and striving to make the process of public involvement more effective.

By the time you usher in the 21st Century, the vast majority of the world's then six billion inhabitants will not have had, nor expect to have, your opportunities. You will be among those who will be helping to lead the way in achieving a global balance between human needs and nature's capacity to meet them. The degree to which you successfully meet this exciting challenge will, in part, depend upon how well you sense the connectedness among things and understand the interdependencies of the human experience.

¹ Excerpts from an address to the 1990 graduating class of Foresters, Lakehead University.

Campus Calendar

To include your Department's event or activity in the Campus Calendar, please call Patricia Trainor at 8300 or mail your information to SN1002. Deadline for the April Agora is March 15, 1991.

THE CHANCELLOR PATERSON LIBRARY EXTENDED HOURS

March 8 to April 22

Monday - Friday: 8 a.m. - 11:30 p.m.

Friday: 8 a.m. - 9 p.m.

Saturday: 9 a.m. - 11:30 p.m.

Sunday: 11 a.m. - 11:30 p.m.

Easter Weekend - March 29 to April 1

Good Friday - Closed

Saturday - 9:00 a.m. - 9:00 p.m.

Easter Sunday - 11:00 a.m. - 9:00 p.m.

Easter Monday - 9:00 a.m. - 9:00 p.m.

SPRING MUSIC CONCERTS

Cornwall Recital Hall

210 S. Algoma Street

MARCH 26

Peter Shackelton, clarinet

Heather Morrison, piano

12:30 pm FREE

APRIL 4

Instrumental Ensembles Class Recital

12:30 pm FREE

LU Wind Ensemble

Bora Laskin Auditorium - 8 pm \$2

LU Vocal Ensemble

St. Andrew's Roman Catholic

Church - 8 pm \$5/\$7

March 4 - 12

Department of Visual Arts

An Exhibition of Drawings

At DEFINITELY SUPERIOR

12A S. Court Street

3:00 - 5:00 p.m.

March 27 to April 24

The Annual Juried

Student Art Exhibition

at the Thunder Bay Art Gallery

Awards Reception

Wednesday, March 27

8 pm

Everyone welcome

MARCH

Thursday, 14

Native Land Claims in
Northern Canada

Speaker: Frank Duerden

Department of Geography, Ryerson

Polytechnical Institute

Library, Room 5005 - 2:30 pm

Canadian Institute of International Affairs Public Lecture:

Spy Wars: Espionage and Canada

From Gouzenko to Glasnost

Speaker: Dr. David Stafford,

Executive Director, CIIA

UC 0050 - 8:00 pm

Friday, 15

Applied Sport Science and Coaching Seminar Series

Speaker: Dr. Doug Clement, University
of British Columbia

11:30 am: Overuse Running Injuries

8:00 pm: Drugs in Sport

UC 2011

Monday, 18

Ice in the Environment

Speaker: Dr. Peter Adams, Dept. of
Geography, Trent University

Library 5005, 2:30 pm

Wednesday, 20

Senate Meeting - 2:30 p.m.

Monday 25 - Thursday 28

Environmental Awareness Week

Activities include: information booths,
guest speakers, workshops and an
open forum. For further information
contact Echo at ext. 8259.

Friday, 29

Closing date for entrants in Royal/
LePage Run for Women

UNIVERSITY CLOSED

Good Friday, March 29

Easter Sunday, March 31

Easter Monday, April 1

APRIL

Friday, April 5

Classes End

Saturday 6 to Tuesday 9

Study Period



A CARING LADY

Miss Evelyn Halliday (centre) with her
scholarship recipients, John Kornichuk,
HBA English, and Fernanda Mira, HBSc
(Biology) who received the Evelyn
Halliday Silver Jubilee Scholarship, an
entrance award to a high-ranking student
from Northwestern Ontario on the basis of
humanitarian services performed for the
disadvantaged.

Agora

The AGORA is produced by the Information
Office, Department of External Relations,
Lakehead University, Thunder Bay, Ontario.
It is published monthly (except August),
and is distributed free of charge to the
University's faculty and staff, local govern-
ment, media, business and friends of the
University. Credit is appreciated when
material is reproduced or quoted.

Director of External Relations:

John Russell,

Editor: Katherine Shedden

Assistant: Denise Bruley

Calendar: Patricia Trainor

Photography: Peter Puna

Graphics: Ben Kaminski, Linda Siczkar

Assistant: Ian Ritchie

Printing: Rainbow

Address correspondence to:

Editor/Agora

Information Office SN1002

Lakehead University

Oliver Road, Thunder Bay, Ontario, P7B 5E1

(807) 343-8631 or 343-8300

FAX 807-343-8192

Share
OUR NORTHERN VISION

Canada
Post
Postage Paid
Post Office

First
Class
Premiere
class

219