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Lakehead University

Agora



THUNDER BAY, ONTARIO VOL. 7. NO. 5

MAY 1990



The year was 1971. Smiling in the back row from left to right are Allan Smith, Peter Dick, Jack Lavender, Doug Meyers and Dave Weldon, members of the first graduating class in chemical engineering technology. Reliable sources have identified faculty in the front row as Peter Levis, Albert Bruley and Bob Rosehart. If it's true that Dr. Gary Locker has invited every LU engineering grad to come to Homecoming '90, you can be certain that many more wonderful photographs will surface as alumni return to campus and start "remembering when".

A most prestigious group of Canadians will receive honorary degrees from Lakehead University on Saturday, May 26, 1990. The group is comprised of a learned mathematician listed in the Who's Who of American Women, a foreign service officer who became Ambassador to the United States, the man referred to as "Canada's greatest design talent", the first North American Indian to become a symphonic conductor and composer and a geology professor, currently the Dean of

Arts and Science at Western, but primarily renowned for his passionate concern for environmental issues. Especially noteworthy is the fact that three of the five honorary recipients and both nominees for Fellow of the University were born and raised in Thunder Bay! To learn a little more about this year's distinguished Convocation guests turn to pages 8 and 9.



Report From the President



Dr. Bob Rosehart

OPERATING BUDGET

With so much good news emanating from the Provincial Government these days, it is hard to believe why so many colleges and universities continue to struggle with budgets. It boils down to arithmetic. We still can't seem to make real grant increases of 2-3% deal with a real world inflationary economy.

However, the University's budget is now nearly completed, and it will be a balanced budget. Necessary budget savings will be secured mainly by leaving open or deferring several approved positions. Until the Province tells the universities where we are going with respect to the corridor adjustment process, this seems the most prudent course of action. All areas will feel the pinch, and I have been impressed, to date, with the co-operative approach taken by the various budget centres.

BUILDING UPDATE

After some delays, the Regional Education/Student Centre project has been publicly tendered, and the project cost will be known on May 29, 1990 (fingers crossed!).

CHINA 1990

Last year a six-person delegation from Lakehead University embarked on a visit to China. The re-scheduled trip (now down to four members) has just been successfully completed. The group included myself, Dr. R. Sweet, Education, Dr. D. Kemp, Geography, and Dr. G. Kondor of Economics. As we were being hosted and accommodated by our Chinese university counterparts, we got a very good look at what life in China today is all about, the good and the bad, and I think that all of the Lakehead University group found the experience to be fascinating. We spent two in

Beijing. If you every get a chance to visit Beijing, you will find it very interesting and worthwhile, but it is not particularly representative of China. It is, I would suggest, a very extensive showcase to the world.

I will start my diary

with a one-day stop in Hong Kong where I visited with the Government of Ontario office. It was this office last year that provided us with a lot of logistical support. While there, I had an opportunity to talk with Benny Ng who is the Manager of China for Ontario. Benny had some interesting insights into the current situation in China which I found to be very accurate. The Government of Ontario office in Hong Kong has volunteered to let Lakehead University use their conference room to host a Lakehead University Alumni Reception during the coming year. While in Hong Kong, I visited the office of the Thunder Bay Economic Development Corporation. Hong Kong has become a focal point for local economic development initiatives. Unfortunately, in listening to some of the discussions dealing with investment, education, and immigration policies, Australia seems to be far more aggressive than Canada. Although I would not say that our image is as negative as England's with respect to immigration policy, it seems to be moving in that direction very quickly. Hong Kong, in spite of 1997, seems to continue to boom. It has to be the most extreme example of the free market competitive system anywhere in the world.

After meeting Dr. Kemp and Dr. Sweet at the Hong Kong Airport, we proceeded to travel to Shanghai. Well, almost! They gave away our tickets. After much noise, Robert Sweet got on standby and the airline put Dave Kemp and I up for the night at the Airport Hotel. Twenty four hours later, we made it to Shanghai. We were greeted by our hosts from Nanjing, taken to a local hotel, slept for one hour, taken to the train station, slept for a further one hour on a bench, then departed at 2:00 a.m. for a five and one-half hour multi-stop train ride to Nanjing.

This was an experience that I could write more about but, suffice it to say, upon arrival in Nanjing, I had already succumbed to the Shanghai "bug". After a one and one-half hour rest, we formally started our two-day visit to Nanjing, a city of two million people with over a million bicycles - not many cars, but those that do exist seem to be constantly blowing their horns at bicycles. All during our ten days in China, we constantly expected to be involved in an accident.

We visited Nanjing Forestry University, Nanjing Normal University, and Southeast University. Our Lakehead University promotional video dubbed in Chinese made our presentation easy.

The Chinese were very impressed with Bob Angell's effort. All of these institutions are comprehensive universities (of sorts) and were quite impressive. Lakehead University has an exchange agreement with Nanjing Forestry University, and they have had several Lakehead University professors visit. In fact, later this month, Rick Rollins from Outdoor Recreation is to visit to give guest lectures. Nanjing Normal University was very interesting and an institution that would be open to developing ties with Lakehead University. Dr. Sweet could hardly believe that they have some 5,000 education students (at 2 BIU's, this would be considered a university president's utopia in Ontario). The Province of Ontario is formally twinned with Jiangsu Province of China (which includes Nanjing), and the Ontario/Jiangsu Educational program has offered Lakehead University the possibility of a three-year block funding program to further encourage our interactions with Nanjing universities.

While in Nanjing, we also visited the Jiangsu/Ontario Science and Technology Centre. This group of about 15 staff is jointly funded by Ontario and the Province of Jiangsu to promote links between the provinces. The Director, Ms. Yang Rui, suggested that future Lakehead University visitors to Nanjing might make use of their (fine) office facilities. Well, we have been here two days (of ten), it is Friday night, more good Chinese food on the University campus, and my cold is getting worse. Saturday morning we are up at some ridiculous hour to go back to the train station to travel back to Shanghai where, on Sunday morning early, we catch a non-stop (at least we prayed that would be the case) China Air flight to Harbin. Harbin is 1,300 km. north of Beijing and might be considered the Thunder Bay of China, although it has about four million people.

Up to this point, as well as having a fairly open and unrestricted look at Chinese life (Shanghai, for example, has 12 million people - half of the population of Canada), we also had the opportunity to observe the very extensive (and impressive) farming in the rural area. Although it was very much labour and water buffalo orientated, it was very well managed. As well, the countryside seems to be the favoured location for some of the new factories setting up in China. It is very clear that China is a world of two cultures, the city and the rural. Housing in the cities and population control in the rural areas are two of the country's most pressing problems. As well, in the cooling of investment

Continued on page 15



Around Campus

Civil Engineering Theses Win National Awards

The Canadian Society of Civil Engineers has recognized the efforts of two Civil Engineering students of Lakehead University by awarding them prizes in a Canada wide Undergraduate Research Award. The undergraduate engineering project report entitled: "A Hexagon Grid Method Determining Runoff Hydrographs" prepared by Perry Peterson under the faculty supervision of Dr. U. Panu was awarded first prize in the Computer Applications Division of the CSCE. Another engineering project report entitled: "Black River Project Proposal for Water Power Rights" prepared by Louie Reed under the faculty supervision of Dr. M. Oosterveld was awarded third prize in the Hydrotechnical Division of the CSCE.

This is the first time that two Lakehead Engineering students have been honoured in the National Competition. The ability of Lakehead Engineering students to attract National recognition and acclaim reflect on the quality of teaching and research at the school of engineering at Lakehead University.

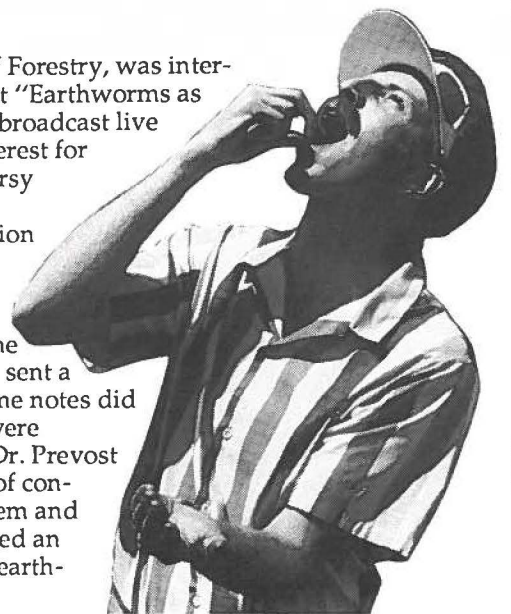
THE ONTARIO HISTORICAL SOCIETY HERITAGE GROUPS AND LACAC MEETING AND WORKSHOP

On Saturday, April 7, 1990, The Ontario Historical Society and the Thunder Bay LACAC presented a workshop for heritage groups and Local Architectural Conservation Advisory Committees (LACACs) in the district of Thunder Bay. At Cornwall Campus, the one-day workshop included sessions on "Built Heritage: Architecture in Northern Ontario", "Laying a Good Foundation: Researching Fundamentals", "Getting Council on Your Side", "An Overview of Ministry of Culture and Communications Heritage Grants", and a session on "Everything You Wanted to Know But Were Afraid To Ask!". The workshop, supported by the Ministry of Culture and Communications, (the Honourable Christine E. Hart, Minister), is one of a series of more than 20 programs taking place throughout the province designed to provide an opportunity for interaction between heritage organizations and LACACs, and to bring together experts in the field of preservation.

HEART TO HEART

The Heart to Heart program has ended its fall and spring sessions thanks

Professor Yves Prevost, School of Forestry, was interviewed by Canada AM on the subject "Earthworms as a source of human food" which was broadcast live on Wednesday April 4, 1990. The interest for this subject was sparked by controversy around Ottawa region kindergarten where students learning about nutrition were fed earthworms. The first some parents heard about this project was through a "certificate of congratulations for eating worms" given to some accomplished children. Parents were sent a note by the school, but obviously some notes did not make it home and parents who were unaware of the activity were upset. Dr. Prevost was asked to comment on the value of consuming earthworms, where to get them and how to prepare them. (Yes, I consumed an earthworm for the nation to see that earthworms are OK to eat," he confessed.



to volunteers from the University. Heart to Heart is an educational and support program for individuals and their families who are recovering from heart disease. Professors R. Kirk-Gardner (Nursing), N. Lavoie (Physical Education), K. Allen (Psychology), and L. Kennelly (Nursing) volunteered their time and expertise to fill this need in the community.

HOW ABOUT SIBERIA?

Tyumen University in the USSR has agreed to accept two Lakehead students at the undergraduate or graduate level for the fall term 1990 (September to December).

The students participating in the exchange will pay their regular tuition at Lakehead. No tuition fees will be required by Tyumen. Tyumen will provide ground transportation from the point of entry, a room in a student residence or other suitable accommodation, meals and a modest living allowance.

Students could be in virtually any area of study. The precise details of the area and nature of study will be arranged between Tyumen and the students' Department and Dean. A knowledge of Russian would not be necessary for some areas but would be for others. Tyumen University has about 5000 students and a wide range of disciplines. The Rector of the University has spent a few years in the United States and has visited Lakehead. A large number of the faculty members and students speak English.

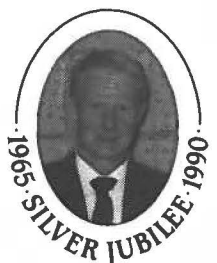
Tyumen is located in western Siberia about 300 km east of Sverdlovsk and the

Ural mountains. It has a population of over 350,000. It was the first Russian city in Siberia and was founded in 1586 on the location of the Tartar city of Chingi-Tur. It was the centre of the early Russian colonization of Siberia. Tyumen's climate is very similar to that of Thunder Bay. The region has a significant oil industry and there are wood processing plants, chemical plants, engineering works and food and other light industries in Tyumen.

Any student who is interested should contact Dr. Paul Watts, Director of the Centre for Northern Studies, as soon as possible. Each student should be prepared to provide a brief resume and statement of area of interest for transmittal to Tyumen. Mr. Dan Pakulak, Director of Continuing Education has recently visited Tyumen and would be happy to speak with any interested student about the university and the city.

OFF TO CHINA

David Epp, a graduate student in Forestry, will be the first student to participate in the exchange between Lakehead University and China. He will attend North East University in Harbin for six months. Epp will continue his research on young conifer plantations at China's third largest university, which is devoted entirely to the study of forestry.



HIGHER EDUCATION FUNDING ACROSS CANADA

Chairs of Boards of Canadian Universities strongly urged that Federal and Provincial Governments live up to their obligations to provide proper financial support to higher education. Political rhetoric from first ministers and ministers of finance across Canada does not satisfy the needs of universities as they attempt to offer qualified students in Canada the best possible higher education.

This statement was endorsed at the annual meeting of board chairs and secretaries from all ten provinces held in Victoria from April 8 to 10.

Canadian university chairs agreed that in response to government underfunding, universities will have to continue tough expense control measures which jeopardize the quality of higher education in Canada. There was consensus that boards should consider such revenue generating measures as enhanced fund raising efforts, auxiliary fees within individual institutions and tuition fee increases.

However, provincial government funding and federal governments, through transfer payments, must not be allowed to shrink the budgets of Canadian universities. The consequences will

include our more promising students leaving Canada for their education and, more dangerously, our institutions of higher education will fail to recruit and keep the most talented teachers, scholars and researchers. This is most critical at a time of faculty renewal programs that will occur across Canada during the 1990s. For all Canadians, higher education leads to a higher standard of living and is of direct benefit to Canada's economic competitiveness.

Higher education is extremely competitive. In order for Canada to attract and graduate the best intellectual talents available in the world to ensure a prosperous future, our universities require greater financial support. Board chairs and their boards accept their obligation to develop public appreciation of the significance of higher education and will endeavour to make this communication activity a greater priority. Chief executives of Canada's universities need and deserve this support from their boards. All Canadians, including students, must meet the increasing challenge of properly financing post-secondary education. Governments of the day must face up to the political reality of the consequence of not investing in higher education.

AUCC

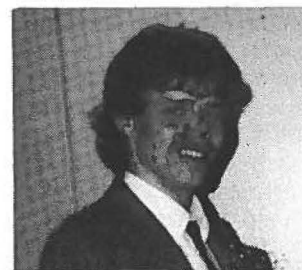
NRC links Canadian researchers The National Research Council of Canada (NRC) has accepted a joint offer by the University of Toronto, IBM Canada and Integrated Network Services Inc. (INSINC) to develop a nation-wide computer communications network for Canadian researchers (NRNet). The high-speed data transmission network will incorporate the provincial research networks of British Columbia, Ontario, Quebec and Nova Scotia. The national network is expected to incorporate other provincial networks as they are formed. NRNet will also be linked with research projects in the United States. The NRC, which initiated the project, will provide \$2 million in venture capital over the next three years; over the same period, the regional networks are to contribute \$1.5 million. The University of Toronto will supply staff time worth \$300,000 and INSINC will give discounts on communications lines. Finally, IBM will provide \$230,000 in hardware and operating system software. NRNet should start service in 1990.

Forestry Students and Professors Recognized

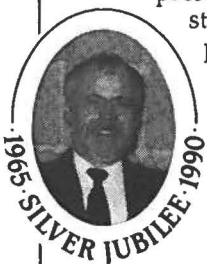
The Canadian Institute of Forestry presented 28 graduating degree students with silver rings on Saturday, March 10, 1990 at the Landmark Inn. The dinner/dance was organized by LUFA and was attended by 130 people, including parents and friends of the graduates, faculty and staff of the school and CIF members. Mr. Ray Riley, Assistant Deputy Minister of Natural Resources for Northern Ontario gave an encouraging after dinner talk to the graduates. On March 17, 1990 nine Diploma graduates were presented with CIF lapel pins and the book entitled 'A Vast and Magnificent Land'. Professor Donald Richardson was made honorary member of the 1990 graduating diploma class Brian Moore presented him with a copy of the book 'A Vast and Magnificent Land'.

Dr. Yves Prevost made a special presentation to George Krupa for achieving the highest mark in Forest Entomology.

The Northwestern Ontario section of the CIF annually presents a leadership award to a graduating student from both the diploma and degree programs. It is awarded to the student who has been voted by his/her peers as having contributed the most to promoting the school, the university and the profession during undergraduate years by active participation and leadership in extra curricular activities and social events.



Donna Myketa from the degree program and Brian Gauthier from the diploma program were the 1990 leadership recipients. The awards were presented to the students by Sarah Gooding, section treasurer of the CIF.



Native Nurses Entry Program Receives Boost

The Native Nurses Entry Program has received a grant of \$70,000 from the new Nursing Innovation Fund through the Ministry of Health in Ontario. Health and Welfare Canada matched the grant with an additional \$70,000.

The program was initiated four years ago and since then has helped prepare Native students for the four-year nursing degree program at Lakehead. The program was set up to help Native people make the transition into a university setting. Out of the 36 students that have enrolled during the program's first three years, 27 have entered the four-year Bachelor of Nursing program. Since its inception the program has been funded by Health and Welfare Canada but for some time additional funding for the Native Nurses Entry Program had been in jeopardy.



Mark Wigmore, left, Medical Services Branch of Health and Welfare Canada, Naomi Abotossaway, first-year nursing student (who says she aspires to be the future Minister of Health), and MPP Taras Kozyra, discuss the benefits of the Native Nurses Entry Program at the media conference.

250 geologists meet in Thunder Bay

The 36th annual meeting of the Institute on Lake Superior Geology I.L.S.G. will be held in Thunder Bay on May 9 -12.

The inaugural meeting was held in 1955 in Minneapolis, MN. The Institutes are exemplary in their continuing objectives of dealing with those aspects of geology that are related geographically to Lake Superior. The Institutes encourage the discussion of research subjects and sponsor field trips bringing together geologists from the academic sector, government surveys, and industry.

Thunder Bay was the site for the meeting in 1961, 1970 and 1977. About 250 geologists from Canada and the United States are expected to attend the 1990 meeting. More than 60 papers will be presented, some by graduate students.

Field excursions include:

- 1) Lac des Illes area led by Richard Sutcliffe of the Ontario Geological Survey, Toronto.
- 2) Shebandowan area led by Maurice Lavigne and John Scott of the Ministry of Northern Development and Mines T.B.
- 3) Atikokan and vicinity led by Graham Borradaile, Department of Geology, Lakehead University.
- 4) Nipigon region led by Steve Kissin, Department of Geology, Lakehead University.

UMD Announces Canadian Studies Chair

The University of Minnesota, Duluth (UMD), has received a \$50,000 grant from the Canadian government, the first step toward the establishment of a \$2 million endowed professorship in Canadian Studies.

The announcement was made jointly by Douglas Nord, director of UMD's Royal D. Alworth, Jr. Institute for International Studies, and Brian Buckley, Canadian consul general."

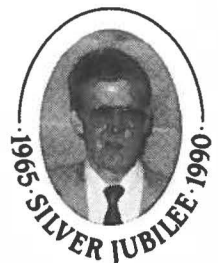
The Canadian professorship will focus on contemporary issues concerning U.S.-Canadian relations," Nord said. "These will deal with problems of the environment, economic development in the regions of Northern Minnesota and Northwest Ontario, and issues related to the Great Lakes, along with collaborative work between institutions of higher education--primarily UMD and Lakehead University in Thunder Bay," he added. Iain Angus, MP for Thunder Bay-Atikokan, and Geoffrey Weller, the Vice-President (Academic) at Lakehead University, were present at the ceremony at which the announcement of Canadian government support was made. Previously they had given their support to UMD's efforts and spoken of the value of the chair to Canada, to northwestern Ontario and to Lakehead University. They both stated that the chair will significantly enhance the links between the two

universities (Lakehead and UMD) the two regions (northwestern Ontario and northern Minnesota) and the two cities of Thunder Bay and Duluth.

The professorship, scheduled to be filled in the 1991 academic year, will be in the Institute for International Studies, and work in cooperation with the existing visiting professorship in Northern Circle Studies.

Nord said the Canadian grant was an important first step, and is in part recognition for UMD's long-time commitment in promoting Canadian studies.

The initial commitment toward the \$2 million chair in Canadian studies will be followed by private donations, Nord said, and will be matched by \$1 million from the University's annual fund.



Lakehead University Juried Student Exhibition

61 pieces in a variety of media selected

Clint Kraft won the Munro Family Award for best in show during the Lakehead University Juried Student Exhibition currently on display at the Thunder Bay Art Gallery. His painting is entitled, *Flight of the Mannequin*. The award is valued at \$450.

Fifty-eight students submitted 169 works for the three-member jury to consider. The exhibition is organized jointly by the LU visual arts department and the gallery. Sixty-one of the best pieces in a variety of media, produced in 1989-90 by 41 visual arts students were selected for viewing. Jurors included Henry Hajdinjak, Alison Kendal and Tatiana, all from outside the LU community.

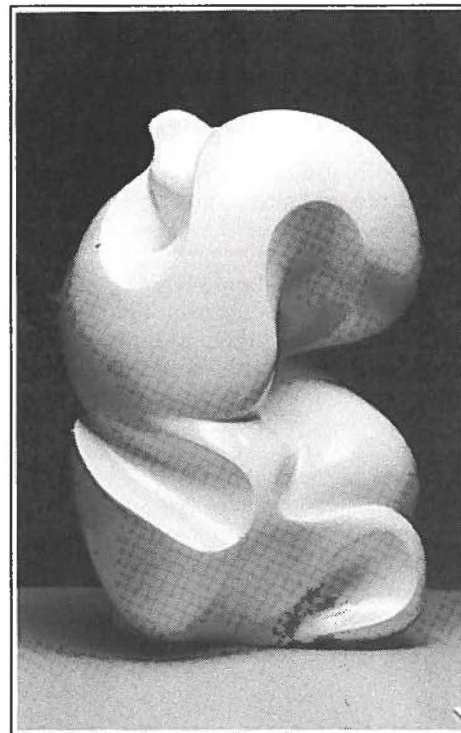


Other award winners selected by the jurors included:

- Thunder Bay Society of Architects Awards (\$200 each) - Isabelle Guillet (Pendant Pour Degas) and Rick Tihonen (unsculpture).
- Ontario Crafts Council Award (\$150) - Barbara Baird (Wash Day)
- LU Student Union Award (\$150) - Margaret Bilbrough (Edible Book).
- LU Visual Arts Association Award (\$100 each) - Michael Kowbuz (Attic Interior), Eric Berkan (Laena), Nancy Bjorgo (Yellow Sofa) and Barbara Kushak (Still Life).
- Pert's Framing Award (\$100) - Erin M. May (Transparency).
- Framing Post Award (\$50) - Jennifer Chicoine (Figure Collage #4).
- Dean's Award, Drawing (\$75) - Barbara Baird (Mary and Olga).
- Dean's Award Painting (\$75) - Stacey Saukko (Geology #6).
- Dean's Award, Printmaking (\$75) - Pat Eisenback (Flight).
- Dean's Award, Sculpture (\$75) - Linda Santa (The Encounter).
- Dean's Award, Ceramics (\$75) - Sharon R. Reid (Hangover).
- Fusion Award (one year membership) - Shirley Dolph (Black Rose).

Winners selected by representatives of local businesses included:

- The Framing Experience Award (\$100 gift certificate) - Carol Kirkpatrick (Breath of Spring).
- Gallery of Fine Arts Award (\$100 gift certificate) - Frances Friesen (Palm II).
- Atwood, Shaw, Labine Award (\$100) - Frances Friesen (Jamaican Sunrise).
- Painted Turtle Art Shop Award (\$100 and book) - Maureen Doyle (Eggscape-Eggsistential).
- Henderson and Associates Marketing and Advertising Award (\$250) - Jennifer Chicoine (Figure Collage #4).
- Winner of People's Choice Award - Frances Friesen (Jamaican Sunrise)



Jane Eames presents
Shirley Dolph with the
Fusion Award



Clint Kraft receiving the Munro Family
Award



Margaret Bilbrough accepts LU Student
Union Award from LUSU President Greg
Beckford

Patrick Cholin

Patrick Cholin is a new Computer Programmer/Analyst in the Computer Service Department. Patrick graduated in 1988 from Lakehead University with a Bachelor of Science Degree (4 year program) majoring in Computer Science. A soccer enthusiast, Patrick is presently looking to join a new team playing in the local league and is about to take a refresher course in soccer refereeing. After work he says, "the only computer I'll touch is Nintendo". His favorite game? "Dragon Warrior". Patrick hopes to take a class or two in the near future and looks forward to meeting the people of the university community.



Ling Liu

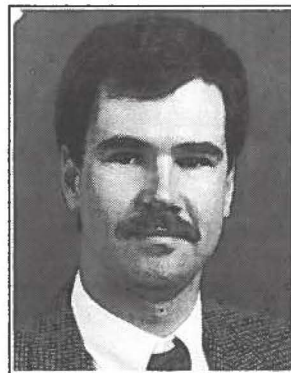


Ling Liu has joined Printing Services as a clerk. Originally from the ancient city of Nanjing in China, Ling, her husband Xining Li (a Mathematical Sciences professor here), and her young son Ming-Fei moved to Canada 5 years ago. They settled in Calgary, relocating when Xining had a job offer at Lakehead University. "I like the environment here and dealing with people face to face". Ling holds a Computer Science degree from the University of Njing. She enjoys

swimming and an occasional bout of table tennis. To adapt to Canadian life, Ling would "someday like to learn how to ski and go fishing". Presently she is trying her hand at the art of Canadian cuisine - muffins and cakes. She is an expert chef and talents lie with old-style authentic Chinese food.

Hugh Briggs

Hugh Briggs has joined Campus Development as the Construction Supervisor. He will be supervising the new construction on campus as well as any renovations. Before moving to Lakehead University, Hugh was an estimator with Bay-Walsh General Contractors. Hugh attended Ryerson Polytechnical Institute in the Mechanical Engineering Technology Program. He says, "most of my jobs have been in the civil engineering field though". Hugh, his wife Karen and their three children, live in Kakabeka. They have 11 acres of rolling hills and room enough to plant their own apple orchard. In his spare time, Hugh coaches little league baseball and enjoys snowmobiling and cross-country skiing on his property in the winter.



Denise Bruley



Denise Bruley has survived the "orientation phase" in the Information Office and just recently her colleagues discovered her secret. If her quick transition to reporter, public relations officer, special events coordinator, computer whiz, queen of fax and files is not due to her recent degree in political studies from LU, nor her experience at Parks and Rec, nor her travels in Europe, nor her extra curricular activities singing at weddings, or working on her French, then, what?

Well, it's simple. Although born in Thunder Bay and a graduate of Hammarskjold, Denise has been able to stay afloat in the often busy and always crazy Information Office because of her 6 year stint in Newfoundland! That is undoubtedly where she developed stamina, humour, a love of jigs and a flare for tall tales.

Non-Teaching Staff To The Board Of Governors

Pursuant to the Provision of the Revised By-Laws adopted by the Board of Governors on March 29, 1990, elections will be held in May 1990 to elect to the Board Member of the NON-TEACHING STAFF serve from the Annual Meeting in September 1990 to the Annual Meeting in 1993.

Who is Eligible? Any full-time employee of Lakehead University who has been on staff for at least three years, not holding a faculty appointment, and not senior management reporting directly to a Vice-President or the President.

Who may Nominate and Vote? Any full-time employee of Lakehead University, not holding a faculty appointment.

The Nomination period will be from May 14, 1990, to May 28, 1990.

Ballots will be mailed to NON-TEACHING STAFF on May 31, 1990, and the deadline for receipt by secret ballot process is 4 p.m., Thursday, June 14, 1990, in the office of the Secretary of the Board of Governors (UC 2007) who will be the Chief Electoral Officer. Requests for further information can be directed to the Chief Electoral Officer, Mrs. Beverley Stefureak, 8614.

Appointment

Norma Jean Newbold, formerly of the Registrar's Office has been appointed the new Residence Life/Conference Officer. The new position replaces the marketing co-ordinator position and adds the duties of residence supervision. Norma Jean worked in the York University residence for four years as a Residence Assistant and in the office. "Basically", says Norma Jean, "under my portfolio I am responsible for residence operations, under the supervision of the Director of Residence". Included with her new job is a new place to live. Norma Jean has taken up "residence" (pun intended!) in the Gordon G. MacLeod house. Norma Jean can be reached at 8622 and looks forward to meeting the students and staff.



Special Canadians Hono



JOHN KIM BELL is the first North American Indian to become a symphonic composer and conductor. He is a Mohawk Indian who was born on the Kahnawake Reserve near Montreal. He began piano lessons at the age of eight and violin at the age of ten and was soon appearing on local television in Columbus, Ohio, where the family had moved. At the age of eighteen, Bell was the youngest professional conductor in the United States. He continued to study piano after receiving his Bachelor of Music from Ohio State and conducted more than thirty national tours and Broadway musicals.

Other career highlights: founder and president of the Canadian Native Arts Foundation, a national organization which provides educational and professional development opportunities for Native youth in the arts; production of the first full scale Native contemporary ballet entitled, *In the Land of Spirits*, and writing original musical scores for film.

John Kim Bell, 36, will receive his first Canadian honorary degree, Doctor of Music, at the morning convocation ceremony.



JEANNE LECAINE AGNEW was born in Port Arthur and educated at Central School, Port Arthur Collegiate Institute and the Port Arthur Technical and Commercial High School. A graduate of Queen's University (B.A. '37, M.A. '38) and Harvard (Ph.D. 1941), Dr. Agnew says her professional goal "was always to be an educator". Three years during World War II, as part of the Canadian branch of the atomic research effort, gave her good experience in the practical application of mathematics and thus began her distinguished career. From 1956-1984 she was a professor at Oklahoma State University. Her work with graduate students in number theory led to the publication of *Explorations in Number Theory* (Brooks/Cole, 1972). Ouimet Canyon is on the book cover which Dr. Agnew says "is symbolic of unsolved problems". Dr. Agnew co-authored another book in 1978 and is currently working on nine learning modules intended for use in high schools in Canada and the United States.

Dr. Agnew will return to her birthplace to be honoured at the morning Convocation with a Doctor of Laws. Perhaps she will also have the opportunity to visit her summer home on Lake Superior which she refers to as "a small piece of Canadian land to which I can return for revitalization".



DEREK BURNEY was born in Fort William, Ontario. He attended Queen's University in Kingston where he received an Honours B.A. and M.A. in Political Science. He joined External Affairs as a Foreign Service Officer in 1963.

After holding posts at Embassies in New Zealand and Tokyo from 1965 to 1972, Burney returned to headquarters where in 1978 he was accredited as Ambassador to the Republic of Korea.

In 1985, Burney was appointed Associate Under Secretary of State for External Affairs until 1987 when he served as Chief of Staff to the Prime Minister.

In 1989, Mr. Burney became Canada's fifteenth Ambassador to the United States.

Recently Ambassador Burney has assumed additional responsibility as the Prime Minister's personal representative for the Economic Summit which will be held in the United States this year.

Derek Burney will receive the honorary degree of Doctor of Laws and will address the graduating class of 1990 at the morning ceremonies.



FRASER DOUGALL, JR. will be made a Fellow of the University for his long and distinguished service to the University and community. Born in Port Arthur in 1942, he attended elementary schools here before moving to Manitoba. Mr. Dougall received his Bachelor of Arts degree from St. John's College of the University of Manitoba.

He has subsequently taken special courses at the University of Western Ontario, York University, and Harvard University. A broadcaster by profession, Mr. Dougall has had a successful media career extending over thirty years. In addition to many radio and television holdings, he has been a successful entrepreneur in restaurant operations as well.

Mr. Dougall has served as a member of the Board of Governors of Lakehead University from 1967 through 1983 and as Chairman of the Board from 1981 through 1983. His volunteer associations are numerous and include active participation in the Salvation Army Red Shield Appeal, the Ontario Economic Council, the Board of Minaki Lodge, the Port Arthur Rotary Club, the Gyro Club, the Lakehead University Health, as well as others. He has been the winner of many local, provincial and national awards including being named as one of five Outstanding Young Canadians Awards in 1972.

ured at Convocation 1990



WILLIAM S. FYFE will address the afternoon graduands and receive an honorary degree in Doctor of Laws in recognition of his international contributions to research on global environmental problems.

He began his education and career in New Zealand and has been professor of Earth Sciences at the University of California (Berkeley), University of Manchester and is currently Dean of Sciences at the University of Western Ontario.

At the forefront of earth sciences for more than 40 years, Dr. Fyfe has been the recipient of numerous awards including membership as a Fellow of the Royal Society of London (UK) and twice receiving a Guggenheim Fellowship.

In the 1980's Dr. Fyfe was an initiator of the International Global Change Program designed to explore the unique conditions for life on our planet as well as the human influence on the interactions maintaining these conditions. In 1989 he was awarded the Companion of the Order of Canada for his efforts on behalf of this international environmental program. He is noted for his style and enthusiasm in communicating scientific knowledge and his legacy is evident in the scores of international scientists who are former graduate students.



ARTHUR ERICKSON will receive an honorary Doctor of Laws during the afternoon Convocation on Saturday, May 26, 1990. Perhaps the citation for the 1986 Gold Medal from the American Institute of Architects best summarizes this phenomenal Canadian: "Global architect, passionate advocate of cultural awareness, and fervent explorer of human and natural environments, whose buildings, though remarkably diverse, share deep respect for context, incomparable freshness and grace, and the dramatic use of space and light." Arthur Erickson was born in 1924 in Vancouver and was educated at the University of British Columbia and McGill. He first became enthralled with architecture after reading an article in *FORTUNE* magazine on Frank Lloyd Wright's Taliesin West.

Erickson has designed many outstanding projects including the Courthouse and Provincial Offices in Vancouver, the Canadian Pavilion at Expo 70 in Osaka, Simon Fraser University, University of Lethbridge, the Canadian Embassy in Washington and to our utter amazement, the Ministry of Colleges and Universities building under construction in Thunder Bay!



G. SYDNEY HALTER will be honoured as a Fellow for his outstanding contribution to university and community. Born and educated in Thunder Bay, he received his Electrical Engineering degree from the University of Manitoba in 1946.

Mr. Halter joined the C. D. Howe Company as design engineer and eventually became President and Chief Engineer and Senior Vice-President and Director of all of the C. D. Howe Group of Companies including its overseas branches. His main fields of expertise involve dock and harbour installations and bulk material handling in virtually every port in Canada as well as some overseas.

Mr. Halter was Past-Chairman of the Board of Governors of Lakehead University where he served for fifteen years; Past-President of the Board of Governors of McKellar General Hospital; Past President of the Consulting Engineers of Ontario; and Past-Director of the Thunder Bay Chamber of Commerce and also Past-Director of the Ontario Chamber of Commerce.

Mr. Halter has been twice honoured by the Association of Professional Engineers of Ontario for outstanding service to his profession. He received the distinction of Fellow of the Engineering Institute of Canada in 1987 in recognition of his excellence in engineering and for services rendered to his profession and society.



JOAN (Dusty) MILLER will be honoured with the 1989 Lakehead University Alumni Award. Mrs. Miller graduated from Lakehead University in 1969, with a Bachelor of Arts degree (Philosophy) and was the recipient of the Chancellor's Medal. She is a dedicated patron of the arts, particularly theatre - gifted as a Director, actress and member of the Ontario Arts Council. Always concerned with the well being of the individual and the community, the name Dusty Miller has become synonymous with social justice, whether at the helm as Mayor of the City of Thunder Bay (1978-1980) or active Alderwoman from 1974-78, and 1984-present or concerned citizen through her many memberships.

Mrs. Miller provided much of the leadership and energy to develop the Alumni Association into an active and productive organization. She currently represents the City on the Lakehead University Board of Governors.

Dusty Miller, described as a woman "radiating warmth and understanding of people" is a most worthy alumna for this award.





Ludwig Van Beethoven returned from the dead to perform with the Thunder Bay Symphony Orchestra at the Community Auditorium on May 1. The abrasive Beethoven, looking very much like our own

Psychology professor Ken Allan, delighted school children from St. Pius with his performance. From left to right, Dolores Sanchez, Lisa Frigeri, Shannon Bonazzo, Andy Lee, Kevin Kelner, and Tyler Wilen.

Lakehead University and The TBSO - - Making beautiful music together

Lakehead University and the Thunder Bay Symphony Orchestra continue their tradition of working together by presenting a composition by Dr. Aris Carastathis for the 1990-91 Symphony season. The piece, based on northern themes, is slated for its premiere in March of 1991 and has been co-commissioned by Lakehead University's Centre for Northern Studies and the TBSO.

Dr. Carastathis, Assistant Professor of Music, has an 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. In addition, Dr. Carastathis has had conducting engagements with several orchestras, including the Waterloo Symphony Chamber Orchestra, the University of Northern Iowa Orchestra, the Nova Symphonica Ensemble and the Louisiana State University New Music Ensemble. Dr. Carastathis is only one of many links Lakehead University has with the Thunder Bay Symphony Orchestra. The TBSO kicked off its 30th Anniversary Season in April as "A Season to Celebrate". Music Director and Conductor, Glenn Mossop, referred to those ties as "close" and "beneficial to both" Sessional lecturers in

Lakehead University's Music Department often wear two hats, teaching courses by day and performing with the symphony at night. These include Penelope Clarke, flute; Doris Dungan, flute and piccolo; Joy Fahrenbruck, symphony chorus; Jeff Gibson, french horn; Colleen Gibson, oboe; Nancy Gildner, trumpet; Wilf Kauffman, clarinet; Heather Morrison, piano; Andrew Proctor, percussion; Gayle Raulston, Violin; and Harold Weevers, Bassoon.



Publishing Profs get hooked during their student days

"Too bad he takes after Uncle Crawford"

"All the time I was growing up, no one ever mentioned to me my great-uncle, the philosopher, theologian and amateur inventor, William Albert Crawford-Frost. It was not until my second year at university, when I decided to major in philosophy, that I even heard about him. Then I overheard various aunts and uncles whispering in sympathetic tones to my parents, saying such things about me as: "He seems to be turning out like uncle Crawford" or "isn't it too bad that he takes after uncle Crawford".

Volume Two of the The Frye Library of Canadian Philosophy was recently published, under the general editorship of Dr. Douglas Rabb, professor of philosophy at Lakehead.

Entitled "The Christian Cosmology of Crawford-Frost" the book deals with early Canadian philosopher William Crawford-Frost, a subject close to Dr. Rabb's heart.

When Dr. Rabb originally approached the publishers, his idea was to write a book on Crawford-Frost. The publisher felt the book may not sell on its own, but as part

of a series on Canadian philosophers, it would be marketable. Out of this sprang the Frye Library of Canadian Philosophy.

"Perhaps philosophy is part of a genetic inheritance", he mused.

Rabb became interested in Crawford-Frost when he discovered one of his books in an attic in a family home. He was instantly intrigued with the eccentricities of the man. Crawford-Frost published two major books, "Old Dogma and New Light" and "The Philosophy of Integration". Both attempt to reconcile Christian belief in creation with the theory of evolution which Rabb critiques in his book. Crawford-Frost was also an amateur inventor who claimed to have invented

the first bag-suspended military gas mask.

The patent was purchased by the British military and used in WW1.

"The Christian Cosmology of Crawford-Frost" and volume one of the Frye series, "Religion and Science in Early Canada" are available in the LU Bookstore.



Book began as PhD thesis

The book by Dr. Mike Richardson, professor of English, "Astrological Symbolism in Spenser's The Shepherdes Calender: The Cultural Background of a Literary Text" has been published by The Edwin Mellen Press and is available in the Bookstore. The book, which deals exclusively with Edmund Spenser's work "The Shepherdes Calender", is largely intended for university libraries, said Dr. Richardson.

Dr. Richardson began the work on his book in 1975. "Originally it was my PhD thesis but I changed and added to it, eventually incorporating it into a book". Richardson did virtually all of his research for the book at the Lakehead University library. "They have an excellent series of microfilm on Early English books from 1470-1640. I went through 1600 reels of microfilm". He also used extensively another series of facsimile reprints called the English Experience which numbers 900 volumes. The library has all of them.

According to Dr. Richardson, "the book tests the hypothesis that Edmund Spenser (1522-1599), without devising birth charts for his characters, fashioned the twelve eclogues that com-



prise his poem, The Shepherdes Calender, in accordance with the motifs, character types, and destinies that astrologers have traditionally attributed to the people born under the sign and plant governing each eclogue's month".

Richardson is in the early stages with two other books, the first a handbook of

Renaissance Astrology and the second, a book on British children's author Rosemary Sutcliffe.



People/Papers/Publications

Special Projects/Awards



David Kemp of the Department of Geography has had a book entitled *Global Environmental Issues: A Climatological Approach*, published by Routledge. The book provides an introduction to large scale environmental issues, such as drought, famine and desertification, acid rain, the greenhouse effect, ozone depletion and nuclear winter, all of which include a strong climatological element in their make-up.

Dr. A. Sedov, Professor, Department of Mechanical Engineering is the author of two papers, "A unified constrained inversion model for ultrasonic flaw sizing" and "The flat-bottom hole. An ultrasonic scattering model." that have recently been published in *Research in Nondestructive Evaluation* 1(1990) pp. 77-97 and pp. 181-196 respectively. Both papers were co-authored with Dr. L. W. Schmerr of Iowa State University, Ames, Iowa.

Dr. Yves Prevost, School of Forestry gave a presentation on cone and seed insects at a workshop of the Ministry of Natural Resources March 20 and 21, 1990 in Dryden.

Ms. Shelley A. Vescio, Professor Prevost's graduate student in forest entomology, was awarded an NSERC post-graduate scholarship over the next two years to study "Indigestible fibres in host tree foliage as defences against feeding by spruce budworm". Ms. Vescio most recently studied at University of New Brunswick where she obtained her B.Sc.F. (1985). She obtained her diploma as a For. Tech. from Lakehead.

Dr. Laurie Garred, Professor and Chairman, Department of Chemical Engineering has had the following refereed article published recently: Garred LJ et al. "Effect of Reuse on

Dialyzer Efficacy. *Artificial Organs* 14(3): 1-5, 1990. Prof. Garred attended 2 international conferences in April, presenting 2 papers at the International Society of Blood Purification annual meeting in Parma, Italy and a third

paper at the American Society of Artificial Organs in Washington, D.C. The latter paper will be published in the conference proceedings.

Dr. Garred has also been awarded a grant for 1990-91 research work in France under the Canada/France Science and Technology Cooperation Program.

Dr. Bill Parker, School of Forestry was appointed to the Ontario Renewable Resources Review Board.

PRESTIGIOUS AWARD FOR UNIVERSITY PROFESSOR

Dr. Sher Ali Mirza, a professor of civil engineering at Lakehead University, has received the prestigious Raymond C. Reese Structural Research Award from the American Concrete Institute. Dr. Mirza, with coauthors Richard W. Furlong, professor of engineering at the University of Texas in Austin, and John S. Ma, structural engineer with the U.S. Nuclear Regulatory Commission in Washington, D.C., received the award the ACI's 1990 Spring Convention in March at the Royal York Hotel.

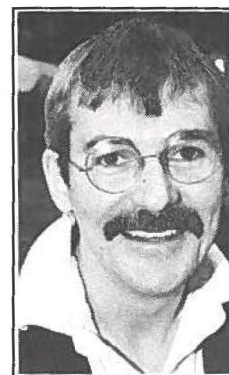


The award winning paper entitled "Flexural Shear and Ledge Reinforcement in Reinforced Concrete Inverted T-Girders" provides significant design guidance in the proportioning of web reinforcement and calculation of the strength for ledges. The final paper was the result of a number of years research and work.

Dr. Mirza has been on faculty at Lakehead University since 1980. He is a fellow of the American Society of Civil Engineers and serves on committees of the Canadian Society for Civil Engineering. He has been a member of the American Concrete Institute since 1975. Before joining Lakehead University, Dr. Mirza was a research associate at the University of Alberta and was with an Edmonton consulting firm for a number of years. He holds a PhD in engineering from the University of Texas in Austin, Texas.

LAPRE AND TEAM CHALLENGE NATIONALS

Although the regular season is over for the Nor-westers, some of the LU varsity players and coach Claude Lapre are not at a loss to fill up their days. For the fourth time Lapre has been appointed the coach of the provincial volleyball team. His major duty will be to coach the team to the next Canada Summer Games (1993) in Kamloops, B.C. Lapre will be busy in the spring and early summer with tryouts for the team.



An Lakehead University affiliated club team, the Junior Lady Norwester coached by Claude Lapre, will be busy in competition in the next few weeks. The team includes LU varsity players Kelly Breutigam, Kelly Williams, Sue Craig, Tania Mash and Angie Aiken in addition to city high school students Sandra Bacic of Hammarskjold, Shelle Martin of Westgate and Alyson Nicol and Elaine Cullen from St. Ignatius. Kelly Breutigam, the power-hitter who stormed through an excellent season has been invited to Regina to the National team tryout camp during mid-May.

Myrna Holman, Human Resources Officer, was one of five Canadians invited to make a presentation at the international conference on Sexual Harassment, Abusive Management and Workplace Abuse at the University of Washington in May.

Unique Research Opportunities for students of animal biology are available through the Lakehead Centre for Northern Studies. Centre Director, Dr. Paul Watts, is interested in interviewing graduate and undergraduate students in animal biology who are interested in working as summer research assistants in the North through the Institute of Arctic Ecophysiology. Students will have access to a wide variety of equipment and facilities including field stations on the Hudson Bay Lowlands, animal holding facilities and respiration chambers for bears.

For further information contact: Dr. Paul Watts, Director, 343-8360.



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 the Office of Research and Graduate Studies. I am very pleased that Mrs. Connie Hartviksen will be the Interim Research Officer during my secondment (April - September 1990) to the Research Branch, Ministry of Colleges and Universities.

SSHRC RESEARCH AWARDS

SSHRC has recently announced the results of the 1990 Research Grants competition. In total, the Grants Selection Committees recommended to SSHRC that four Lakehead University researchers be funded. However, due to insufficient funds, three of these candidates were put on a reversionary list. All candidates on a reversionary list will be reconsidered for funding should funding be made available within the same year. I would like to take this opportunity to commend all researchers for their efforts in this year's competition.

Those candidates receiving new SSHRC grants, as well as those candidates which were placed on the reversionary list are:

New SSHRC Grant Recipient

Dr. Robert J. Payne, School of Outdoor Recreation, Project Title "Social Profiles of Wildlife - Related Recreation Activity in Canada, 1981 - 1988".

SSHRC Proposals on Reversionary List

Dr. Peter Crocker, School of Physical Education, Project Title "Consistency cues in coaching feedback: Effects on perceptions of sincerity and motivation".

Dr. T. W. Dunk, Centre for Northern Studies, Project Title "Native Labour in the Early Industrial Economy of North-western Ontario 1850 - 1950".

Prof. Patricia Vervoort, Department of Visual Arts, Project Title "C. D. Howe, The Engineer: 1916 - 1935".

SSHRC RENEWABLE GRANTS

Education: J. O'Meara
Psychology: Dr. K. Rotenberg
Political Studies: G.R. Weller

J. Rayner
History: P. Jasen, Canada Research Fellowship

NSERC RESEARCH AWARDS

In the April issue of the *Agora*, I announced the new NSERC award holders. NSERC eligible faculty who currently hold two- or three- year grants include the following:

Dr. G. Borradaile, Department of Geology
Dr. R. Day, Department of Mathematical Science
Dr. S. Easa, Department of Civil Engineering
Dr. R. Freitag, Department of Biology
Dr. A. Hughes, Department of Chemistry
Dr. C. Kent, Department of Mathematical Science
Dr. B. Kronberg, Department of Geology
Dr. M. Lankester, Department of Biology
Dr. P. Lee, Department of Biology

Dr. P.M. Li, Department of Mechanical Engineering
Dr. A. Macdonald, Department of Biology
Dr. L. Malek, Department of Biology
Dr. A. Mirza, Department of Civil Engineering
Dr. R. Mitchell, Department of Geology
Dr. W. Momot, Department of Biology
Dr. S. Naimpally, Department of Mathematical Science
Dr. K. Natarajan, Department of Electrical Engineering
Dr. I. Nirdosh, Department of Chemical Engineering
Dr. V.V. Paranjape, Department of Physics
Dr. W.H. Parker, School of Forestry
Dr. V.R. Puttagunta, Department of Chemical Engineering
Dr. J. Ryder, Department of Biology
Dr. A. Sedov, Department of Mechanical Engineering
Dr. B. Singh, Department of Mechanical Engineering
Dr. N. Weir, Department of Chemistry
Dr. J. Whitfield, Department of Mathematical Science

CANADA/FRANCE RESEARCH AWARDS

Dr. Laurie Garred, Department of Chemical Engineering, has been awarded a Canada/France Science and Technology Cooperation Award. In 1988/89, Dr. Garred spent his sabbatical leave at the University of Montpellier, France during which several collaborative projects in the area of urea kinetic modelling were pursued. Dr. Garred, states that the purpose of this year's one month visit will be to consult with his fellow French researchers on their continuing work, particularly with respect to the development and testing of a prototype urea monitor, a project initiated during his sabbatical.

CENTRES OF EXCELLENCE NEWS

Dr. Robert Rosehart has been appointed as a member of the Board of Directors for the Mechanical and Chemimechanical Pulps Federal Network of Centres of Excellence.

MINISTRY OF THE ENVIRONMENT

New Environmental Technologies Program

Ontario will spend \$30 million over the next five years to stimulate development of new products and processes that protect the environment. The environmental technologies program will fund up to 50 percent of projects proposed by Canadian universities, companies, research organizations, municipalities, etc., to a maximum of \$500,000 per year for a maximum of three years. The funding is to help cover costs of researching, developing and testing the product or process and for full scale field trials and technical demonstrations.

Eligible products and processes include technologies that:

1. will eliminate or reduce emissions to air or discharge to water
2. reduce municipal, commercial and industrial waste by reducing, reusing and recycling
3. develop spills containment and cleanup technologies
4. develop improved monitoring and analytical methods and techniques

Deadline: June 15, 1990

NATIONAL INSTITUTE OF MENTAL HEALTH

Research on Mental Disorders in Rural Populations

The purpose of this program is to stimulate research on mental disorders as they occur in Americans living in rural areas. Research to be supported under this program is expected to:



1. increase understanding of the major mental health problems and risks that may be associated with the stress of rural life
2. ways that the incidence and prevalence of mental disorders can be assessed and perhaps lowered;
3. ways that effective services can be made more accessible, organized into an integrated system, and delivered economically in rural areas.

For interested faculty the following grants are available:

- general research grants
- demonstration grants
- grants to establish a research centre.

Preference will be given to applications that involve collaboration between academic researchers and public sector agencies.

Deadline: June 1, 1990

AMERICAN EPILEPSY SOCIETY Research Grants 1990

One year research grants are available to support basic and clinical research in the biological, behavioural and social sciences which will advance the understanding, treatment and prevention of epilepsy. Priority is given to beginning investigators just entering the field of epilepsy research, to new innovative projects and to investigators whose research is relevant to developmental or paediatric aspects of epilepsy.

Deadline: August 31, 1990

Research Fellowships 1990

Various fellowships valued at \$25,000 offer qualified individuals the opportunity to develop expertise in epilepsy research. Application is open to physicians, or individuals who have received their doctoral degree in a field of the behavioural sciences. For further information, please contact the Office of Research and Graduate Studies, ext. 8223.

Deadline: August 31, 1990

CIDA AWARDS Long-Term Awards

This program encourages proposals of 7-24 months in duration that will lead to the growth of Canadian international development expertise in the following fields of specialization: fisheries, energy, transportation, intercultural management, human resource development, education, women in development, rural development, health, nutrition, population, environment, marketing, mining, telecommunications and small enterprises.

Deadline September 4, 1990. Awards are for a maximum of \$25,000.

SCIENCE CULTURE CANADA

The purpose of this program is to provide project funding and core funding for activities that promote increased general public awareness of scientific and technological achievements and to develop and sustain interest in science and technology among Canadian youth. Proposals of Project Funding are considered twice annually with deadlines of April 15 and October 15. Proposals for Core Funding are considered once annually at the April 15 deadline. This program should be of particular interest to the School of Education, School of Forestry, School of Engineering and all Science Departments.



UPCOMING DEADLINE DATES

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

April 1), Wildlife Toxicology Fund (anytime).

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

University Research Incentive Fund - May 31, 1990.

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

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

National Geographic Society - Research Grants (Open).

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

SSHRC - Travel Grants for International Representation and Aid to Occasional Scholarly Conferences in Canada Program (March 30, June 30, and October 30).

GRADUATE STUDIES AND SCHOLARSHIPS UPDATE

The 1990-91 NSERC Postgraduate Scholarship recipients were recently announced. Successful applicants from Lakehead University who will receive a \$14,000 award are:

BOEGH, John (Mechanical Engineering)

DURALIA, Thomas (Outdoor Rec/Nat.Sci)

ECCLES, Barb (Physics)

MOLLY, Karen (Psychology)

STRANGIER, Stephanie (Mechanical Engineering)

MCLAUGHLIN, John (Forestry)

NICOL, Derek (Geology)

PUUMULA, Mark (Geology)

SEEMAYER, Barb (Geology)

MCARTHUR, John (Geology)

Winners of the 1990-91 Ontario Graduate Scholarship (Open Competition) have also been announced by the Ministry of Colleges and Universities. Successful applicants who will receive a \$3,400 award per term are:

ADAIR, James (Electrical Engineering)

BOEGH, John (Mechanical Engineering)

ECCLES, Barb (Physics)

FATA, Mirella (Psychology)

JONES, Maria (Psychology)

LYLYK, Marilyn (Psychology)

MOLLY, Karen (Psychology)

STRANGIER, Stephanie (Mechanical Engineering)

STEPHENSON, Samuel (Biology)

To match the names & faces of the distinguished members of the quarter century club:

p.2. Donald Orr, Professor of Chemistry

p.3. George Ozburn, Professor of Biology

p.4. John Whitfield, Dean of Arts and Science

p.5. Bill Allaway, Associate Professor of Mathematical Studies

p.6. Richard MacGillivray, Associate Professor of English

p.7. Murray Patterson, Professor of Engineering

p.8. George Merrill, Professor of English

p.9. Moe Ktytor, Director of Student Placement

p.10 Douglas Lindsay, Professor Emeritus of Biology

p.11 Eric Green, Assoc. Professor of Mathematical Sciences

p.12 Linda Phillips, Secretary to the President

p.13 Anita Chen, Professor of Sociology

p.14 Margaret McMurtry, Retired Library Assistant, Chancellor Paterson Library

p.15 Pradip Sarbadhikari, Professor of Political Studies

Members of the club not able to attend the recent dinner are: Harold Braun, Principal Emeritus, Harry Elmslie, Professor of Business Administration, Don Mackinnon, Professor Emeritus of Engineering, Gordon Mott, Professor Emeritus of Engineering.

Forum

Cultivating Our Wits

*Reprinted with permission of author
Leila Lutsis, Brock University*

"Canada has not managed its resources very well, nor its credit. What's left is our wits." Thus visiting speaker Janet Halliwell justified the Natural Sciences and Engineering Research Council's current initiatives to create a better environment for scientific research personnel. Executive Director of the Grants Program, Halliwell administers two thirds of NSERC's money.

Despite a persistent prejudice that technology is the author of our problems rather than the solution, Ottawa has recently come to recognize how far behind Canada is in terms of research and development, Ms Halliwell said, and it faces many problems in catching up. She provided statistics to show how career prospects in R&D are shrinking; how professors in the natural sciences and engineering are aging, and positions opened by retirements are not being filled; how Canada lags behind Japan in the percentage of R&D personnel in its labour force (by a factor of 13 to 8); how male enrolments in the sciences are declining, while female enrolments are not increasing enough to make up the loss. "Four hundred and seventy-six high school graduates are needed to produce one PhD," she said, and NSERC is trying to encourage potential scholars by increasing the number of Undergraduate Student Research Awards (USRAs), and by increasing stipends for post-graduate scholars.

"Since the fertility rate in Canada is currently below the reproductive level," she argued, "we may need to reconsider our attitudes" toward the needs of women of child-bearing age who wish to pursue scientific careers. NSERC is responding to this pressure by creating 200 new USRAs for women, tenable in the first year of study; by instituting a new faculty recruitment program for women; by checking its guidelines for gender bias; and by allowing for deferred holding of scholarships for women of child-bearing age.

Ms. Halliwell said NSERC is worried about the brain-drain - not just to the U.S.: "We've already seen Japan do some very active recruiting in Canada." And the U.K. has reversed its brain-drain, now that people are anxious to enter the new European Community. She quoted Northern Telecom's John Roth: "We need people who do not have a limited skill set, but have learned how to learn."

PRESIDENT'S REPORT *continued from page 2*

with the rest of the world post June 4, 1989, youth employment opportunities have become a serious concern.

Well, back to Harbin. We were given a very enthusiastic greeting at the airport by our hosts who included Mr. Pang, a former visitor to Lakehead University's English Department. As well as having three visiting professors from Harbin spend six months at Lakehead University, we have had graduate students from Northeast Forestry University and, this spring, one of our graduate students is going to Harbin for further graduate studies. At Harbin, they are very interested in furthering their connections with Lakehead University, but is clear that this will only be possible with significant financial support from CIDA. At this point in time, CIDA's China program seems somewhat in a state of limbo.

After four days in Harbin, we travelled by an impressive Russian-built China Air flight to Beijing and spent the final two days of our visit in the capital. The entire country is on a massive "greening" project and nowhere is this more evident than in Beijing where massive tree planting projects have been initiated.

It is hard not to get caught up in the emotion of China, particularly when standing in Tiananmen Square, but it is far too easy to try and impose one's own values on others. Chia has major challenges in front of it. The benefits of industrialization are being negated to some extent by significant environmental problems. The challenges of a nation with 1.2 billion people are mind-boggling. However, change is in the air. "Free" markets are flourishing, and we ate in several private (vs. state) restaurants. Although China will never become a Hong Kong, serious efforts are being made to stimulate free enterprise and individual initiative. In time, I suspect that this will rapidly accelerate the social, economic and political reforms in this nation which are inevitable.

It has now been about ten days of good Chinese food. I still have a bad cold (have even tried Chinese medicine), and we are all getting somewhat better at using chopsticks. Dr. Kondor is on food withdrawal and we break down and go for breakfast at an American hotel in Beijing. The food was probably not that good, but it was familiar. We took along our two translators and, after many days of hearing comments made about our use of chopsticks, it was indeed justice to see them handle a knife and fork.

While in China, I met with some of our future graduate students and become a mail boy for the Registrar. These students are very excited about the possibility of studying in the west. A major problem will continue to be adequate funding. With foreign fees so high, the Canadian Embassy in China is getting very tough on giving students visas unless the students can demonstrate adequate financial support. It is somewhat staggering to realize that over 3/4 of the applications to all of our graduate programs are from China. I met some very impressive potential students in China who feel that a country as rich as Canada should help them. When you are in China and see the conditions and the challenges facing the people it is hard not to agree with them. On a personal basis, this trip has opened up my focus, and it is hard not to support further Canadian initiatives to help the underdeveloped countries of the world. For all of our problems at home, they seem somewhat pale in comparison.



Dr. George Kondor mesmerizing our Harbin hosts with his chopsticks tricks!

Campus Calendar

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

MAY

CHANCELLOR PATERSON LIBRARY HOURS - SPRING SESSION

MAY 1 - JUNE 15, 1990
Mon - Thurs - 8 AM - 10:30 PM
Friday - 8 AM - 9 PM
Saturday - 11 AM - 5 PM
Sunday - 1 PM - 9 PM

THUNDER BAY ART GALLERY

Tracks in the Sky April 27 - June 3
The Glass Box is Back
- Saturday, May 5 2PM
For information call 577-6427

THURSDAY 10 to SATURDAY 12 TRADE SHOW

Come visit our Booth!
Ontario Building

FRIDAY, 11

SENATE

Approval of Graduands

PRESIDENT'S SILVER JUBILEE BALL

Tiberio Room, Airline Motor Hotel
6:30 PM
Call Linda Phillips, 343-8200

MONDAY, 14

ALZHEIMER SOCIETY OF THUNDER BAY

Guest Speaker: ARTHUR BLACK
Symposium, Dinner, Meeting
5:30 pm - Valhalla Inn, Scandia Room
\$20 per person (in advance)
Call 345-9556

WEDNESDAY, 16

1990 Shell Fuelthon Car Unveiling
11:00 am
Agora Circle
Come out and see this year's car design

THURSDAY, 17

Board of Governors
4 PM

The Thunder Bay Symphony Orchestra
Guest Conductor: Peter McCoppin
Thunder Bay Community Auditorium
8:00 p.m.

FRIDAY, 18

Silver Jubilee Math Awards Presentation
N.W.O. High Schools
Noon to 3 PM
Main Cafeteria

THE CHANCELLOR PATERSON LIBRARY HOURS
VICTORIA DAY WEEKEND
MAY 19 - 21, 1990
Saturday, May 19 - 11 AM - 5 PM
Sunday, May 20 - 1 PM - 9 PM
Monday, May 21 - 9 AM - 5 PM

MONDAY, 21

COMMONWEALTH DAY
UNIVERSITY CLOSED

Legion/LU 10-Mile Road Race

Start Line: Corner of May & Arthur Sts.
Finish Line: Branch #6 Legion Hall
Start Time: 10 AM

TUESDAY, 22

Half-courses terminate

WEDNESDAY, 23

Half-course examinations

THURSDAY, 24

Spring Session half-courses commence
Spring Session full-courses which commenced May resume

FRIDAY, 25

Silver Jubilee Convocation Eve

Faculty Lounge
The Alumni Association hosts a reception to welcome new grads
8:30 - 10:30 pm

Final date for withdrawal without academic penalty from Spring Session
Distance Education half-courses

SATURDAY, 26

SILVER JUBILEE CONVOCATION

Thunder Bay Community Auditorium-
Morning Convocation - 10 AM
Afternoon Convocation - 2:30 PM

TUESDAY, 29

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

JUNE

FRIDAY, 1 to SUNDAY, 3

Thunder Bay/Duluth Friendship Games

TUESDAY, 5

BLOOD DONOR CLINIC

Noon to 8:30 pm
St. Mary's Church
85 North Algoma Street

TUESDAY 5, WEDNESDAY 6

BLOOD DONOR CLINIC

St. Pat's Cathedral Auditorium
Noon to 8:30 pm

WEDNESDAY, 6

ALUMNI VOLUNTEER SUPPER & ANNUAL GENERAL MEETING

Faculty Lounge
Supper 5:30 pm
General Meeting - 7:30 pm

SATURDAY, 16

LU Community Council

Silver Jubilee Picnic
Grounds adjacent to C.J. Sanders Field House

Agora

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Director of External Relations:

John Russell,
Editor: Katherine Shedden
Assistant: Denise Bruley
Calendar: Flo Sherren
Photography: Peter Puna
Graphics: Ben Kaminski, Linda Siczkar, Debbie Tew
Printing: Rainbow

Address correspondence to:

Editor/Agora
Information Office SN1002
Lakehead University
Oliver Road, Thunder Bay, Ontario, P7B 5E1
(807) 343-8631 or 343-8300
FAX 807-343-8023

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