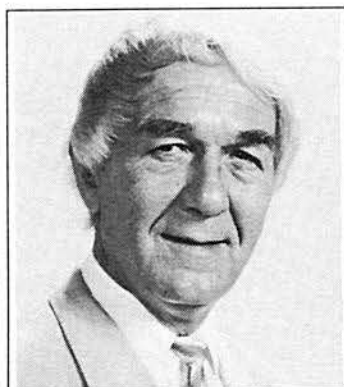




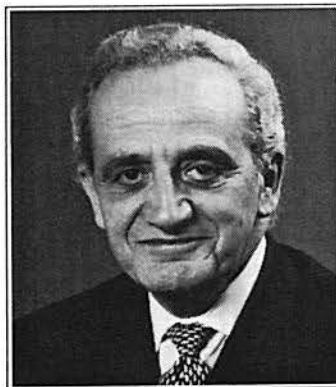
Agora

Thunder Bay, Ontario, Canada
May 1997, Vol. 14, No. 5
ISSN 0828-5225

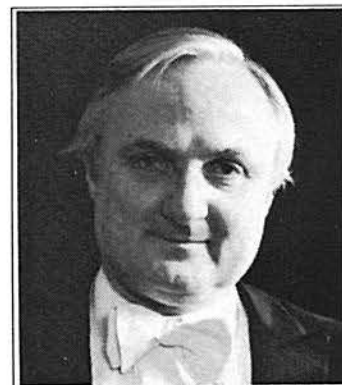
A NEWSLETTER FOR LAKEHEAD UNIVERSITY STAFF & FACULTY



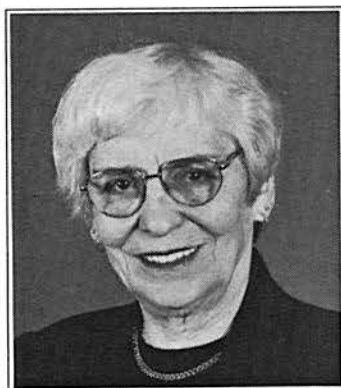
Richard Gwyn
Doctor of Letters
Honoris Causa



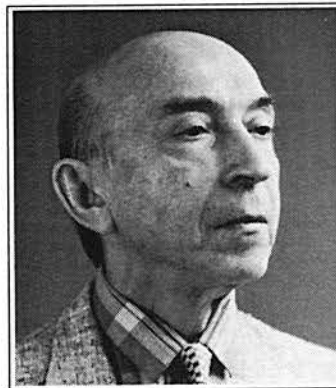
Arthur V. Mauro
Doctor of Commerce
Honoris Causa



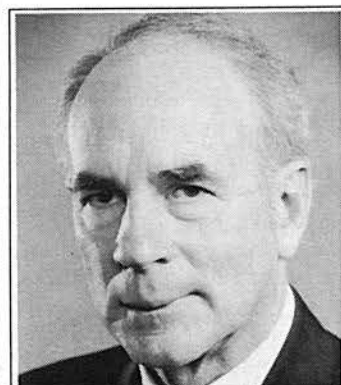
Mario Bernardi
Doctor of Music
Honoris Causa



Olive P. Dickason
Doctor of Letters
Honoris Causa



Lotfi A. Zadeh
Doctor of Engineering
Honoris Causa



Robbert P. Welter
Fellow of Lakehead University



Margaret R. Page
Fellow of Lakehead University

LAKEHEAD TO BESTOW FIVE HONORARY DEGREES

Saturday, May 31, 1997

Five distinguished individuals will receive an honorary degree from Lakehead University this year including journalist Richard Gwyn, conductor Mario Bernardi, lawyer Arthur V. Mauro, historian Olive P. Dickason, and engineer Lotfi A. Zadeh.

Margaret R. Page, a Professor Emerita of the School of Nursing, and Robbert P. Welter, a former member of the Board of Governors, will be awarded the title of Fellow of the University. Betty C. Coates will be given the Alumni Honour Award, posthumously.

Richard Gwyn will address the morning Convocation which begins at 9:00 a.m. and Arthur Mauro will address the afternoon Convocation starting at 2:30 p.m.

For more information about Convocation contact the Office of the Registrar at 343-8269.

INSIDE
*An Update on
Lakehead's
Enrolment
Management
Initiative
...page 5*

RICHARD GWYN

Richard Gwyn is one of Canada's best-known and most highly-regarded political commentators. The author of several best-selling books and the recipient of awards for both newspaper and magazine writing, his articles are syndicated from coast to coast and he is a frequent commentator on both TV and radio.

Born in England, in 1934, he emigrated to Canada in 1954 following studies at Stonyhurst College and the Royal Military Academy, Sandhurst.

Gwyn has been a journalist since 1957, except for 1968-73 when he was executive assistant to the Hon. Eric Keirans, and subsequently a Director-General in the Department of Communications. He has worked for many media organizations, from Time Magazine to the CBC.

In 1973, Gwyn joined the Toronto Star as its Ottawa-based columnist. His thrice-weekly political columns were syndicated in 26 newspapers from coast to coast.

In 1985, Gwyn was appointed The Star's International Affairs columnist based in London. He wrote articles and analyses about the end of the Cold War, of the Berlin Wall, of the Soviet Union itself, and of simultaneous events from the end of apartheid in South Africa to the start of the Middle East peace process.

Gwyn returned to Canada in mid-1992, to write a column, Home and Away, about both international and national affairs. He comments weekly on international affairs for TV-Ontario's daily public affairs program, Studio 2, and is a regular contributor to CBC programs such as Sunday Report and Morningside.

During his career, Gwyn has won two National Newspaper

Awards, and a National Magazine Award. He is the author of several political books, including a biography of Joseph R. Smallwood, the premier of Newfoundland, titled *The Unlikely Revolutionary*, and of former Prime Minister Pierre Elliot Trudeau titled *The North-ern Magus*.

In 1995, Gwyn published his most recent book, *Nationalism Without Walls; The Unbearable Lightness of Being Canadian*. Comments by reviewers include those of "brilliant," "original" and, by former Ontario Premier Bob Rae, "what other book makes you want to cheer, and then to throw it across the room?"

His wife Sandra is also an author, of *The Private Capital*, winner of the Governor General's Award in 1982, and most recently, of *Tapestry of War*, published in 1992.

MARIO BERNARDI

Mario Bernardi, Principal Conductor of the CBC Vancouver Symphony since 1983 and Conductor Laureate of the Calgary Philharmonic, was born in Canada of Italian heritage. He received his early musical training in Italy at the Venice Conservatory, returned to his native Canada to complete his studies at the Royal Conservatory in Toronto, and went on to establish a considerable reputation as a pianist.

His operatic debut was in 1957 with the Canadian Opera Company's production of Humperdinck's *Hansel and Gretel*. Subsequent appearances in Canada led to an invitation in 1963 to conduct at Sadler's Wells Opera, where he was appointed Music Director in 1966. During this time, he made numerous guest appearances, including debuts with the London Symphony and the Royal Philharmonic. In 1969, Bernardi became Music Director of the new National Arts

Centre Orchestra in Ottawa, a position he held for 13 seasons. Under his leadership, this hand-picked virtuoso orchestra toured the United States, Mexico, Europe and Russia. In addition he was the Artistic Director of the National Arts Centre's highly successful Summer Opera Festival which produced over twenty operas from 1971 to 1982.

Mr. Bernardi has appeared with the San Francisco Symphony, Montreal Symphony, Toronto Symphony, Vancouver Symphony, Indianapolis Symphony, Houston Symphony, Columbus Symphony and Winnipeg Symphony. Most recently he conducted *Werther* at the Canadian Opera Company, made guest appearances with the Montreal, Toronto and Detroit symphonies, and lead the Calgary Philharmonic on a tour of North America, including the Orchestra's debut at Carnegie Hall. He is also the conductor for the finals of the Esther Honens International Piano Competition in Calgary.

Mario Bernardi has made over 30 recordings with many Canadian orchestras which include the Vancouver Symphony, Calgary Philharmonic, and the CBC Vancouver Symphony Orchestra, recording for HMV, RCA, CBS and CBC Records.

OLIVE P. DICKASON

Olive Patricia Dickason, Professor Emeritus, University of Alberta, and Adjunct Professor, University of Ottawa, specializes in Aboriginal history. She is the author of several books on the subject, including *Canada's First Nations*, *The Myth of the Savage*, and *Indian Arts in Canada*, all three of which have appeared in French editions. Before she began her career as a teacher, she was a journalist for such newspapers as The Globe and Mail, Toronto, The Gazette, Montreal, and The

Leader-Post, Regina. A Member of the Order of Canada (1996), she holds several honorary degrees and is a Fellow of Ryerson Polytechnic University, Toronto. In 1995, The First Nations Student Association and the Native Centre at the University of Calgary presented her with the Dr. Joseph Crowshoe Award; most recently, she was presented with the Aboriginal Lifetime Achievement Award by the Canadian Native Arts Foundation. Throughout, she remains proud of her Metis heritage.

ARTHUR V. MAURO

Arthur Mauro has had a long and distinguished career in both law and business and now serves as Chancellor of the University of Manitoba.

Born and raised in Port Arthur, he completed a BA, LLB and LLM from the University of Manitoba where he was elected President of the Students' Union as well as president of the National Federation of Canadian University Students.

While practising law he concentrated on transportation and was involved with many appearances before courts and administrative tribunals. He acted as Counsel for the Province before the McPherson Commission on Rail Transportation, the Hall Commission on Health Services, the Thompson Commission on Air Canada based facilities. He also chaired the Royal Commission on Northern Transportation, which report became a blueprint for subsequent transport developments in the North.

At different times throughout his career in business Mauro has served as Executive Vice-President of Great Northern Capital, President and CEO of Transair Limited, Chief Operating Officer and Chief Executive Officer for Investors Group.

Currently he is a Director of Investors Group Inc., United

Grain Growers, Canadian Airlines Corporation, and Canadian Pacific Hotels Corporation.

LOTFI A. ZADEH

Dr. Zadeh has been honoured by the Institute of Electrical and Electronics Engineers (IEEE) for his pioneering development of fuzzy logic and its many diverse applications.

Born in Azerbaijan, he graduated from the University of Tehran, Iran, with a BS degree in electrical engineering. He came to the United States in 1944 to pursue graduate studies and received the SM degree in electrical engineering from MIT in 1946 before moving to Columbia University where he was awarded the PhD degree in 1949. In 1959 he joined the Electrical Engineering Department at the University of California, Berkeley where he focused his attention on linear systems and automata theory. In 1965 he authored his seminal paper on fuzzy sets. This landmark paper initiated a new direction that over the past three decades has led to a vast literature and a rapidly growing number of applications ranging from consumer products to subway trains and decision-support systems. In the years ahead, the impact of fuzzy set theory -- or fuzzy logic, as it is commonly referred to today -- is likely to be felt not only in the realm of products and manufacturing but also in the basic sciences and especially in mathematics, physics and chemistry.

ROBBERT P. WELTER

Robbert Welter is a consulting engineer who has been working in Thunder Bay since 1962.

Born in Indonesia, he completed his post-secondary edu-

cation at Technical University (HTS) and Academy of Fine Arts, The Hague, Netherlands.

As the structural engineering partner for Graham Bacon Welter from 1974-1996, he has been involved with the design of many buildings throughout Northwestern Ontario including educational, medical/hospital, residential and office facilities.

His many community activities include being the honorary Vice-Consul of the Netherlands for Northwestern Ontario, a member of the Board of Governors of Lakehead University (including Chair from 1986-1988); a member and Past President of the Rotary Club of Thunder Bay (Fort William) and, for 10 years, Chair of the Rotary Foundation Committee.

MARGARET R. PAGE

Margaret R. Page is a former director and now a Professor Emerita of Lakehead University's School of Nursing. She has been an ardent supporter of Lakehead University and an active volunteer in the community since moving to Northwestern Ontario in the early 1950s.

Throughout her life, Page has been a mentor to her nursing students and a leader in the many professional associations with which she has been associated. These have included the Registered Nursing Association of Ontario, the Canadian Public Health Association, the College of Nurses of Ontario, the Canadian University Teachers Association, the Lakehead Social Planning Council and the Children's Aid Society.

Margaret Page has been instrumental in the growth of Lakehead from her most recent work as Chair of the Committee for International Days to her past involvement as President of the Alumni Association and Alumni representative on the Lakehead University Board of Governors.



GRAD '97 PARTY

The Alumni Association of Lakehead University invites the Class of '97 and their guests to attend the annual Convocation Eve Celebration in the Outpost on

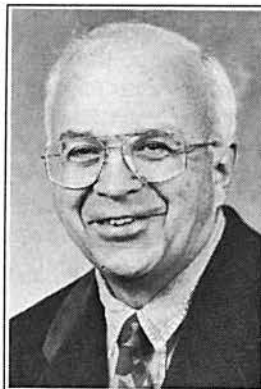
Friday, May 30, 1997

7:00 p.m.

Come out and meet the 1997 Honorary Degree Recipients and Fellows of Lakehead University

A Buffet supper will be served. Staff and Faculty are welcome to attend.

For information call the Office of Alumni Services at 343-8155



RECEPTION FOR DR. GARY LOCKER

Staff and faculty are invited to a wine and cheese reception for Dr. Gary Locker on

Tuesday, May 27, 1997
4:00 p.m.
Faculty Lounge

Dr. Locker, who has been Director/Dean of the Faculty of Engineering for the last 21 years, concludes his term on June 30, 1997.

For information call Janice Pellizzari at 343-8201.

Group Home & Auto Insurance Plan

for LU faculty, staff & alumni

Sponsored by

Lakehead University Alumni Association

"Save money and help the Association at the same time"

Call for a Quote

1-800-327-5580



Dr. Robert G. Rosehart
President, Lakehead University

1997/98

Operating Budget Approved

On May 1, 1997, the Board of Governors approved Lakehead University's 1997/98 Operating Budget. As you know, this was a particularly difficult budget year. After having gone through the significant reduction in government grants last year and taking a \$4.1 million charge for early retirement over three years, our budget plan was blown off course by the enrolment reduction, both full-time and part-time, most likely triggered by the large tuition fee increases last year and the impact of increased competition for students by a few institutions in Southern Ontario who have opted to increase first-year intakes in an environment of a slightly decreasing high school applicant pool.

In the following Question and Answer format, I have attempted to give you the highlights of the budget debate.

Q. What is the University's financial position?

Total income forecasted for next year will be \$47.78 million compared to expenses of \$49.173 million resulting in a year-over-year operating deficit of \$1.39 million and a cumulative operating deficit of \$2.988 million.

The level of deficit is of concern and is partly the result of the impact of the first two years of paying off the \$4.1 million cost of the early retirement program.

Under the three-year budget model presented to the Board, the University is projected to return to a balanced budget by the year 1999/2000 with the accumulated deficit eliminated by the year 2000/2001.

Q. What are the increases in Tuition Fees for 1997?

The University's tuition fees for next year will increase an average of 8.9 per cent. Full-time undergraduate fees will go up 10 per cent, and graduate fees are to be kept at the 1996/97 levels. Significant structural and fee level adjustments were made to the graduate fees a few years ago, and the result was that our graduate fees were near the top of the system and not competitive.

It is anticipated that these increases will have a further negative impact on enrolment, but the reality is that the University has little option. Tuition fees represent about 41 per cent of our operating income and, without the increase, program quality would be under further stress.

Q. What does the future hold for Enrolment?

In the short term (2-3 years), efforts to maintain and enhance enrolment will be very competitive. As well as the traditional high school applicant, more and more universities are looking to the community colleges, through bilateral articulation agreements, for sources of students. The Enrolment Management Initiative at Lakehead will initiate both short, medium, and long-term projects that will deal not only with recruitment but, as well, with the important area of retention.

Q. What does the future hold for Government Grant Support?

What the system desperately needs now is a base grant increase. It has been six years without an increase, and the cumulative cuts over that period of time have dropped Ontario from ninth to tenth place in terms of having the lowest per capita support for universities in Canada.

There are some encouraging signs that the Ontario Government is looking seriously at the university sector and is showing some concern for the health of the sector. Unfortunately, there are also mixed signals. For example, the OSOTF Trust Fund and the new Research and Development initiatives outlined in the recent budget are positive, but the recent OSAP changes will most likely have a further negative impact on full-time and, in particular, part-time enrolments. We live in challenging and changing times.

Q. What can you do as part of the Lakehead University community to help?

First and foremost, we need to meet the challenge of the competition head on. In spite of the challenges, we need to be positive, innovative, and strive to do everything within our power to make Lakehead University a better place to learn. This is easy for me to say, and I realize tough for some of you whose positions have been negatively impacted upon by recent changes. Whatever the situation, the reality is that we all need to put a little extra into our efforts over the next little while. In recent focus groups with some of our students, issues like front-line service, cleanliness, and the first-year learning environment have been areas mentioned where we could improve. All of these matters could be more easily dealt with if we had more funding, but we don't. The challenge is to improve with what we have knowing that, in the future, the institution will be stronger because of our efforts and initiative.

Convocation

Saturday, May 31, 1997

A reminder for faculty that this is a very special event in the life of your students, and they do appreciate seeing you there to share it with them and their families. I realize that for most, this annual ritual (my 27th) may not hold anything special, but that is not the case for your students. For most of the graduates, this is likely to be their only graduation from university. Please make a special effort to attend. I am sure it will be appreciated.

...continued on page 12

Enrolment Management Initiative Charts New Directions for Lakehead

by Frances Harding

Everyone at Lakehead knows the landscape of post-secondary education is changing -- and how! Tuition is up. Applications are down. And we find ourselves competing more and more with other universities for students and resources.

At the same time, society is undergoing a technological revolution on a scale similar to that of the Industrial Revolution. David Pearce Snyder in his article, "High Tech and Higher Education: A Wave of Creative Destruction is Rolling Toward the Halls of Academe" published in the September/October 1996 issue of *On the Horizon*, says "computerization is causing profound and difficult changes in our social and political environment." He writes:

"If America is to be competitive and prosperous in the twenty-first-century global marketplace, its workforce -- including its college professors and administrators -- will have to add much more value than they do today. For colleges and universities to add more value, they must redesign curricula to more accurately reflect the range of knowledge and mix of skills required by the new high-value-adding jobs of the information-intensive economy."

"The typical twenty-first-century worker will need to be a general technician or "portmanteau professional" who knows a little engineering, some statistics and probability, and has a basic understanding of ecological systems, behavioural science, and world history....

"This doesn't mean that educators will need to produce only generalists. Clearly, we will still need deep knowledge and the workers who master pure physics, mathematics, anthropology, and so on to keep the system at the cutting edge of knowledge.... But for every deeply knowledgeable scholar and researcher we produce, we will need a thousand portmanteau professionals and general technicians in the mass market who are capable of assimilating this new knowledge and putting it into practical, productive use throughout every industry, trade, and profession."

Recently, an Enrolment Management Initiative was announced at Lakehead to develop a comprehensive approach to managing and planning student enrolment in response to changing enrolment patterns and demands. Part of the process will be to consider a broad range of activities including recruitment and retention/graduation, and to incorporate the University's vision, mission and institutional goals into the planning process to provide a truly learner-centred environment.

The work of the Enrolment Management Initiative is being directed by Kerrie-Lee Clarke who will work with the Enrolment Management Committee Chair Dr. John Whitfield and Co-Chairs Joy Himmelman and Pentti Paularinne. The *Agora* spoke to Clarke about some of the challenges facing Lakehead and how we could coordinate our efforts to better serve the community:

Agora: Why has this Committee been formed now?

Clarke: The environment in which universities operate has changed dramatically over the past few years. A very complex set of circumstances comes to bear on decisions to attend university and the environment is far more competitive than in the past. In addition to student expectations, societal needs are changing and the University must become more aware of these expectations and become far more responsive to these changes. Also, as universities rely more heavily on tuition for revenue, they become more susceptible to fluctuations in enrolment. Applications are down provincially and Lakehead's are also down significantly. Tuition is up 45 per cent since 1993 and the increased cost of attending university is making it difficult for many students. Despite the fact that employment prospects for university graduates are significantly better, people are questioning the value of a university education personally and to society generally. So when you put this in the context of the complexity of our own institution, we have quite a challenge before us.

Agora: What can be done?

Clarke: The initial response has been quite overwhelming with ideas coming from all sectors of the University and it will take a while to sort them out. In the short term, the Enrolment Management Committee is focusing on retention and recruitment issues. For example, we are doing everything possible to maximize the admissions from our current applicant pool. The Registrar's Office is coordinating efforts to have faculty phone students to encourage them to choose Lakehead and provide additional information on programs. And we are striving to provide attractive alternative offers to students applying to programs that are highly subscribed.

Long-term initiatives will include encouraging innovative programming to attract new students, more formal academic advising programs to ensure students make informed choices about their academic programs, and generally working together to improve students' experiences here at Lakehead University.

Recruiting college transfer students will be an important initiative. Although in the past, we may have had an edge in the college transfer market, this area has become quite competitive as well.

Agora: In a nutshell, what do we need?

Clarke: We have so much to offer here at Lakehead. Our academic programs combined with the impressive natural environment of northwestern Ontario is a tremendous asset. We should promote the University as a national and international resource.

We also need a more fluid organizational structure to respond to changes and innovations, for example, mixing different courses to offer creative approaches to programming, looking at the role of technology in learning, and being receptive to interdisciplinary approaches to programming.



Kerrie-Lee Clarke (left) and Taina Van Damme (right) have been seconded to work on Lakehead's Enrolment Management Initiative. They can be contacted by calling 343-8725.



Jump Out of the Ivory Tower?

*Noteworthy Themes from the
Conference on Research at Small Universities*

by Dr. Brian O'Connor

The annual conference on Research at Small Universities was held in Hull, Quebec from April 30 to May 2, 1997. There were presentations from government officials, from NSERC, SSHRC, and MRC representatives, and from research administrators from a variety of smaller Canadian universities. The consistent themes expressed in the presentations should be of interest (and concern?) to the Lakehead community. The themes may not be appealing to everyone, but they do indicate how small universities are expected to compete and develop in the current environment.

Make Research Relevant

A frustrating irony was noted. Small universities often exist in small communities and are therefore much more important to their communities than are larger universities. But small universities are seemingly required to continually defend and reaffirm their importance and are often at a competitive disadvantage in relation to larger institutions. The government and funding agency representatives expressed awareness of these problems and suggested paths that small university researchers and administrators should take.

Funds and general support are most likely to be provided to those who identify regional economic and social priorities and who propose research projects and programs that address those priorities. Small universities should build on their existing strengths and on the expertise in local industries. Collaborative research projects and partnerships should be developed with regional industries and organizations. In other words, we are most likely to succeed if we focus on local problems, develop internal expertise for addressing those problems, and collaborate with outside community and regional bodies in attempting to address the problems. The creation of isolated academic ivory towers is apparently not the way to go, regardless of how purist and appealing this route may be to some of us. Basic research is most likely to be considered important if it is somehow related to community priorities and economic development.

Attract Public Interest

Governments and funding agencies are concerned with demonstrating the economic and social pertinence of projects and programs that are funded with public money because public opinion matters to them and budgets are tight. Small universities need to develop programs and research specialties that attract public interest in their local communities and industries. Local industries are most likely to become interested in collaborations with university researchers if the results of the research are interpretable and usable in local industries. Universities were also encouraged to at least maintain, if not increase, their relative importance in research and development, something which is expected to occur in collaborations with private enterprise. Long-term strategic vision and

planning are required from university administrators, and hiring decisions should be based on degree of fit with the grander institutional goals. It was also claimed that this kind of orientation would benefit students. Their education and training would be more consistent with community needs and they would be more employable upon graduation.

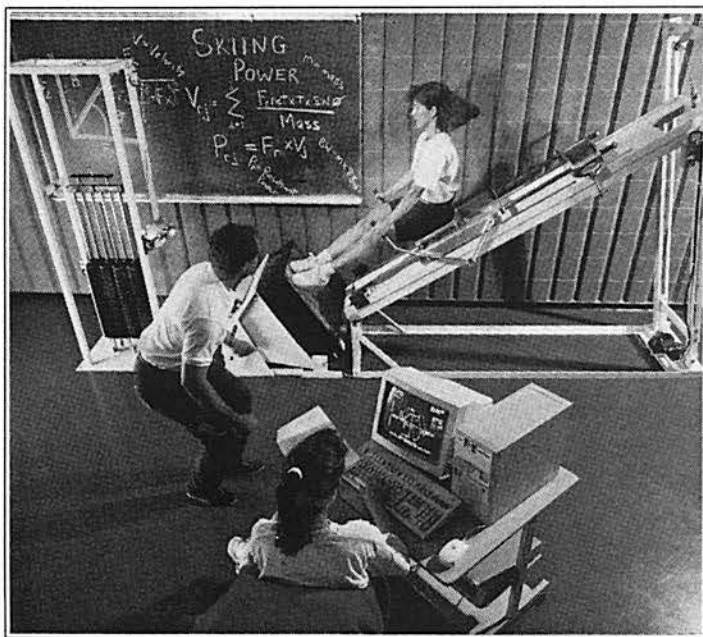
Consider Internal Appraisals

The funding agency representatives claimed that small university applicants do reasonably well in grant competitions but they said that relatively few grant applications are received from small university researchers. Applications to SSHRC and MRC are particularly infrequent. It was stated that small university researchers can identify and create opportunities for themselves but that they have not been doing so as much as they should and could. Part of the reason can perhaps be traced to the myth or suspicion among small university researchers that there are increasingly limited research funds available and that the funds are most likely to be given to big-shots at larger institutions. "Why bother going through the fuss of applying for money when there is little available and little chance of successfully competing?" The answer is that if we competed in the ways described above we would be as successful as researchers anywhere else. There is also some evidence that departments and institutions that conduct internal appraisals of grant applications are more successful in grant competitions. Constructive feedback and mentoring from previously successful applicants or from research officers can substantially improve the likelihood of success. Start early, go through an internal peer review, and you'll do better.

Create "Smart Communities"

Industry Canada recently developed "Trans-Forum," a technology transfer tool for Canadian colleges and universities. It is an Internet-based communication and information service that links the industry liaison offices of educational and research institutions and which attempts to promote the transfer of technology and expertise to private business, especially medium-size enterprises. In other words, the government will help advertise your

...continued on page 7



expertise to private companies looking for information partners. It is a match-making service that directs private companies searching for help your way. And it's free. Have a look at "http://transforum.schoolnet.ca" and at "http://strategis.ic.gc.ca". There are also plans to encourage community research involvement among faculty from non-technological disciplines. The Social Sciences and Humanities Federation of Canada has proposed the creation of Community Research and Information Crossroads (CRICs). The proposal is before SSHRC at the moment but if funded, CRICs would be research centres for the social sciences and humanities located in universities. They would be places where community organizations and agencies could bring their requests for research on pressing topics. Once accepted, the requests would be assigned to student-faculty research teams who would work in collaboration with the requesters (who would also provide assistance with data collection and research funds etc.). CRICs across Canada would be linked to a network in order to help those involved remain abreast of similar efforts in other locations. The general goal is to pool university and community resources and to create "smart communities."

Consider Successful Models

So there seems to be a lot of big tasks for small institutions. But is it all just talk and wishful thinking on the part of governments and funding agencies, and can it all be ignored? The conference presenters claim that they described policies that are currently being used in the allotment of moneys to universities and university researchers. Other small universities have also been playing the game and some are a few steps ahead of us. A variety of successful examples were described, including Laurentian University's involvement in Elliot Lake community and industrial development. The efforts and results also seemed quite invigorating to the universities involved, perhaps even to their originally skeptical purist basic researchers.

Enhance Lakehead's Research Culture

It is also useful to consider these issues in relation to the two Promotion of Research reports that have been submitted to Senate, one by the Committee on the Promotion of Research and the other by the Senate Research Committee (both can be found on LUCI). At first glance, it would seem that small university faculty are being stretched in too many different directions: we have to become better researchers, better teachers, collaborate with community agencies and private industry, and contribute to social and economic development. But all of these things can be quite related. The recommendations regarding the promotion of research are internal attempts to enhance our research culture; the applied research and partnerships orientation described above specify the kind of research that is most likely to be funded and contribute to social and economic development; and teaching quality and the job-readiness of our graduates can be enhanced by faculty researchers who are involved in these kinds of endeavours. We can also earn more respect and appreciation for Lakehead University and may not have to spend as much time justifying our importance.



Do you have any comments or opinions you would like to share with your colleagues?

Contact the Editor at 343-8193

Keefer Medals Awarded to Engineers

Two engineers from Lakehead University and a colleague from Carleton University have been awarded the Keefer Medal for 1996 by the Canadian Society for Civil Engineering (CSCE).

Dr. Said Easa, Professor and Chair of the Department of Civil Engineering at Lakehead, **Dr. Yasser Hassan**, a post-doctoral research fellow at Lakehead, and **Dr. A.O. Halim**, a professor at Carleton University, are co-authors of a paper that won the Keefer Medals entitled "Sight Distance Evaluation on Complex Highway Alignments," published in the *Canadian Journal of Civil Engineering* in June, 1996.

The Keefer Medal, established in honour of T.C. Keefer (the first President of CSCE), is awarded annually for the best paper on a civil engineering subject in areas other than surveying, structural engineering, and construction (which are covered by another medal). The medal will be presented to the authors at the Annual CSCE Conference Banquet to be held on May 29, 1997, at the Delta Hotel, Sherbrooke, Quebec.

This paper is part of a project on Highway Geometric Design for Safety which is financially supported by the Natural Sciences and Engineering Research Council of Canada (NSERC). The overall NSERC project, which started in 1994, focuses on combined (3-D) alignments, new vertical curves, intersection sight distance, and expert systems.

Civil Engineering celebrates its first Post-doctoral Fellowship



Dr. Yasser Hassan (right) has been awarded a post-doctoral research fellowship by the Natural Sciences and Engineering Research Council of Canada (NSERC) in the Department of Civil Engineering at Lakehead University for 1996-98. Hassan was awarded the fellowship to study the highway geometric design in 3D with Dr. Said Easa (left).

Hassan completed his PhD degree at Carleton University in August 1996. During his three-year program, he maintained the Carleton University graduate scholarship. Also, he was the recipient of the Transportation Association of Canada (TAC) Scholarship for the academic year 1995-96. In the year 1996-97, Hassan was the only transportation researcher in Canada to receive the NSERC Post-doctoral Fellowship. This fellowship is also the first ever to be awarded to an engineering researcher at Lakehead University.

A Model of Excellence

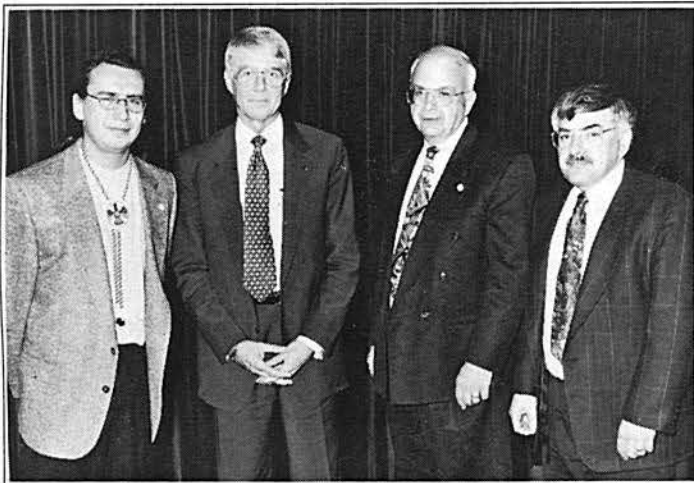
NAPE Captures Two National Awards

The partnership of Lakehead University's Native Access Program for Engineering (NAPE) and Ontario Hydro has received one of four national awards in both the **Canada Post Corporation Post-Secondary Awards** and the **Partnership Focus Awards** of The Conference Board of Canada 1996-97 National Partners in Education Awards. These awards offer an opportunity to showcase business education initiatives that work across Canada and to recognize the people who are making them happen.

Twenty-three best award winning business education partnerships were honoured in Calgary at the National Partners in Education Awards ceremony, Monday, May 5 -- a highlight of the 8th Annual Reaching for Success: Business and Education Working Together conference, May 4-6, 1997.

Royal Bank, Canada Post Corporation, Human Resources Development Canada and members of The Conference Board of Canada's National Business and Education Centre recognize and honour these models of excellence in business education partnerships ensuring that Canada's youth are learning the right skills for today's and tomorrow's world of work.

Over 175 business education partnerships entered this year's competition, with representation coming from every province and territory.



(Left to right) Rob Olivier, Co-ordinator, NAPE, Gordon Cassidy, Dean, Canada Post Learning Institute, Dr. Gary Locker, Dean, Faculty of Engineering, and Cam Altomare, Ontario Hydro.

Native Access Program for Engineering (NAPE)

The Native Access Program for Engineering was established in 1992 as a measure to overcome the paucity of technologists and engineers of Native descent. While there are approximately 158,000 licensed professional engineers in Canada, the number of engineers of Native descent is estimated to be less than 100. Ontario Hydro, a major employer of engineers, recognized the need and became the main sponsor of NAPE.

NAPE is a program designed by the People of the First Nations and Lakehead University to provide mature, committed students with the pre-engineering education necessary to enter Lakehead's engineering program.

The program provides students with academic, cultural and familial support during their engineering studies. Selected students begin their program in a six-week summer orientation. A dedicated staff helps students adjust to the City and the University, and introduces them to studies in mathematics, science, computers and communications. Orientation is followed by an academic year of intensive study selected to fit each student's needs, which may include courses from the Faculty's regular program.

Lakehead's award-winning program was noted by The Globe and Mail education reporter Jennifer Lewington in her column *The Learning Beat*. In the May 5 issue she reported on the success of the class of '97 saying, "This spring, the first crop of the access program -- three students out of a class of seven -- are expected to graduate from Lakehead's three-year technology diploma program and head into a two-year engineering degree program this fall. The other four students in the class are expected to be ready for the degree program next year."

According to program coordinator Rob Olivier, even though NAPE students represented only one-third of the student population in first year engineering, they made-up fully two-thirds of the students who held first class standing at Christmas!

Lakehead is now reviewing 43 applications for 15 NAPE positions that must be filled before the 1997-98 academic year begins in July.

Joint Graduate Program in Transportation

Dr. Said Easa, Chair, Department of Civil Engineering, has completed the development of a joint graduate program in transportation at the Master's level between Lakehead University and Carleton University. In this program, the degree will be awarded from the university at which the student is registered. It is expected that most courses will be offered through distance education.

To aid its operation and management, the joint program will have an organizational structure consisting of a General Body, Management Board, and Advisory Council. The General Body initially will comprise six faculty members from Lakehead (five from Engineering and Dr. N.C. Bonsor from Economics) and five from Carleton. The joint program has been approved by the Department of Civil Engineering, Faculty, and Senate of both universities to be forwarded to OCGS for evaluation and approval.

Efforts to establish this program have involved extensive meetings with the transportation group at Carleton, the Dean of Engineering and the Dean of Graduate Studies and Research at both universities. The joint program is a significant step in fulfilling Lakehead's commitment as a regional university.

Dr. Easa has been successfully supervising graduate students at Carleton as an adjunct professor, and through this effort has attracted an NSERC postdoctoral research fellow to Engineering at Lakehead, the first in its history. Dean of Graduate Studies and Research Dr. Connie Nelson notes that this is the very first joint graduate program initiative for Lakehead University. In addition, the proposed joint program will further strengthen and broaden the research collaboration between faculty members at both universities.

Dr. Medhat Rahim (Education) has been invited to visit The University of The West Indies, Faculty of Education, in the Republic of Trinidad and Tobago to conduct a research initiative with Dr. Edric Gift and Professor Carle Keller (Dean) on "Substance Abuse and Addiction among Youths." This research initiative is being conducted with the coordination of **Dr. Fentey Scott** of the Faculty of Education at Lakehead University.

Rahim expects to conduct the evaluation part of the huge CIDA Research Project "Management Training for Headteachers in Small States of the Eastern Caribbean" (\$400,000) granted exclusively to Dr. Fentey Scott, Faculty of Education, the University of the West Indies, Barbados. The evaluation process will cover a chain of nine Caribbean Islands: Anguilla, Antigua, St. Vincent, Dominica, St. Lucia, St. Kitts, Nevis, Montserrat, and Grenada. The evaluation tasks will take place in winter 1997-98.

Dr. I. Nirdosh (Chemical Engineering) has published the paper entitled "Effect of Surface Roughness Induced by Woven Metallic Screens Wrapped on the Inner Surface of an Annulus on the Rate of Turbulent Flow Mass Transfer," (co-authors: Drs. M. M. Zaki and G. H. Sedahmed) in *Industrial & Engineering Chemistry Research*, vol. 35 (11).



R. Natarajan, Department of Chemistry, St. Joseph's College, Tiruchirappalli, India, has been awarded a PhD in Chemistry from the Bharatidasan University, Tiruchirappalli. The title of the thesis was "Synthesis of Cupferron-Derivatives as Mineral Collectors for Ore-Beneficiation." This research work was an unique combination of Chemistry and Chemical Engineering, and was done as a joint project between the Department of Chemistry of Bharatidasan University and the Department of Chemical Engineering of Lakehead University.

The entire experimental work was done at Lakehead University. A variety of new compounds were synthesized and tested as mineral flotation reagents for uranium, copper and zinc ores of Canada. The work was done under the co-supervision of **Dr. I. Nirdosh**.

Dr. K. C. Yang (Forestry) recently co-authored a paper with Dr. K. N. Law and J. L. Valade, both are at the Centre de Recherche en Pates et Papiers, Universite du Quebec a Trois-Rivieres, Quebec. The paper is entitled "Fibre Development in Thermomechanical Pulping: Comparison between Black Spruce and Jack Pine" and was presented at the 83rd Annual Meeting, Technical Section, CPPA which was held in Montreal on January 30-31, 1997.

Dr. Laurie Garred (Chemical Engineering) was among the guest faculty invited to speak in Edmonton in April. His talk was entitled, "Urea Kinetics and Urea Sensing in Haemodialysis"

In May, Garred presented the paper "Urea Kinetic Modeling for Acute Renal Failure" at the 43rd Annual Conference of the American Society for Artificial Internal Organs in Atlanta, Georgia.

Dr. Douglas A. West (Political Science) has recently published an article entitled "The Place of Indigenous Knowledge in the Discussion of Canadian Political Ideas" in *Alternative Frontiers: Voices From the Mountain West*, a new book edited by Allen Seagar, et. al, Montreal: Association for Canadian Studies, 1997.

West recently attended a curriculum conference entitled "Millennial Dreams: Humanistic Curricula in the 21st Century" sponsored by the Liberal Arts College, Concordia University, Montreal.

West will be presenting a paper entitled "New Directions in Northern Nationalism: Lessons for the Rest of Canada" at the upcoming "Visions of the North, Voices of the North" Conference sponsored by Nipissing University and the Ontario Historical Society, in North Bay, May 23-25, 1997.

Dr. Margaret Johnston (Geography), recently published an article in *Polar Record*, the long-standing journal produced by the Scott Polar Research Institute at Cambridge University. Her article appears in Volume 33 (1997) and is titled: Polar Tourism Regulation Strategies: Controlling Visitors Through Codes of Conduct and Legislation.

Dr. John O'Meara (Education) has been awarded a three-year research grant of \$232,045 for the Anihshiniimowin (Severn Ojibwe) Text Database Project. This project is funded by the Ontario Ministry of Education and Training, and is being carried out in partnership with the Sioux Lookout District Native Language Committee. The project will develop an extensive collection of textual materials in Anihshiniimowin (sometimes also called "Oji-Cree"), the language spoken by many native people in northern Ontario.

O'Meara has been awarded a five-year research grant of \$227,700 for the Anishinaabemowin Dictionary and Reference Grammar Project. This project is funded by the Ontario Ministry of Education and Training, and is being carried out in partnership with the Sioux Lookout District Native Language Committee. The project will develop a modern bilingual dictionary and reference grammar for Anishinaabemowin (Ojibwe). Both works will document the Ojibwe language as it is spoken from the eastern end of Lake Superior through Manitoba and Saskatchewan.

Dr. Laure Paquette (Political Science), currently holding a Japan Foundation Fellowship with the Japan Forum on International Relations, published an article entitled in English "Japan as Honest Broker" in the Tokyo Global Forum's Occasional Papers 11. Based on her speech to that group last March, it makes a strategic proposal for the Japanese foreign policy in the 21st century, resulting in part from her work on her current book, *Security for the Pacific Century*. It was published in Japanese only.

Paquette was recently invited to the residence of the Canadian Ambassador to Japan, His Excellency Don Campbell, for an informal sit-down luncheon with the Honorable Lloyd Axworthy, Minister of Foreign Affairs and International Trade. The guest list was a who's who of opinion-makers in Japan, including leading academics, prominent media commentators and high-level officials from the Japanese Foreign Ministry and the Japan Defense Agency (the equivalent of the Department of National Defense).

Employee Service Reception

On April 16, 1997 Lakehead held a reception to honour employees who have served Lakehead University for 20 years, 30 years, and those employees who are retiring in 1997. Those honoured at this year's Reception are as follows:

20 Years of Service

Robert Angell	Director, CTCRC
Cheryl Balacko	Textbook Supervisor, Bookstore
Kenneth Brown	Professor, Forestry
Robert Cameron	Professor, Business Administration
Susan Childs	Secretary to the Dean, Faculty of Engineering
Roger Delaney	Associate Professor, Social Work
Franca Di Antonio	Processing Clerk, Registrar's Office
Richard Inglis	Groundsworker, Campus Development
Diana Mason	Secretary, Faculty of Education
Mitchell McInnis	Receiver/Shipper/Trucker, Campus Development
Roderick McLeod	Professor, Education
Luigina Oriecua	Custodian, Campus Development
Robert Thayer	Associate Professor, Kinesiology
Seimer Tsang	Professor, Mechanical Engineering

30 Years of Service

Dale Black	Associate Professor, Mathematical Sciences
Shirley Boneca	Head, Reference & Info. Services, Chancellor Paterson Library
John Futhey	Assistant Professor, English
Mary Lysenchuk	Secretary, Department of Psychology
Brian Phillips	Professor, Geography
Brian Spenceley	Associate Professor, Physics

Retirees

David Bates	Dean, Faculty of Education
Joyce Forbes	Professor, English
James Kayll	Professor, Forestry
Donald Orr	Professor & Chair, Chemistry
Raul Ruiperez	Associate Professor & Chair, Sociology
Brian Spenceley	Professor, Physics



Program for Medical Services Nurses

This September, Lakehead University in partnership with Nishnawbe-Aski Nation (NAN), will be offering education programs to the nurses working for the Medical Services Branch (MSB), Ontario Region, of Health Canada. This program is part of a national decision to regionalize the nurses training component of MSB and to transfer management to First Nations communities.

In Ontario Region the partnership between Lakehead University and NAN builds on a long history of cooperation which, in nursing, has seen the development of the Native Nurses Entry Program as well as joint research into health issues in the remote First Nations communities. The program has two components: a Community Health Program for nurses entering with diploma preparation (which is still a major segment of MSB new hirings) and a Northern Clinical Practice component for nurses who will be working in the remote nursing stations.

The community health program will begin in September, 1997, and will be delivered via Distance Education. This will allow the nurses to remain in their own communities with minimum travel. This program will use as a core, 6 (3 1/2 credits) of the existing post RN program at Lakehead University. The courses will be adapted to include applications in the First Nations settings. These courses can then be counted towards completion of the degree program if the nurses wish to continue. Since our entire post RN program is available through distance education, it is anticipated that this will be an attractive option to the nurse. Since this is a program planned for the Ontario region, sites will be available for MSB nurses in the northeast and the south as well.

The second part of this program is the preparation for nurses working in the nursing stations and focuses on clinical practice. This program will have two parts: a) a theory component offered on campus in Thunder Bay, and b) a clinical practice component in Thunder Bay, Sioux Lookout and Moose Factory. This program is scheduled to begin in January, 1998. Originally, it was anticipated that components of the Primary Care Nurse Practitioner Program could be used as the core for this program, however, this proved to be difficult and a separate program is currently being developed.

On their way to Gifu

Four Lakehead students will spend three months on a social and cultural exchange in Gifu, Japan. They are (left to right) Christine Almeida (Social Work), Amanda Thompson (Outdoor Recreation), Rosa Turco (Business Admin), and Darren Kawahara (Business Admin). They left May 7, 1997, for Gifu University in Japan where they will be staying with host families and attending university studying basic Japanese and learning about the Japanese culture through lectures, class discussions and field trips. As Canadian ambassadors, these students will be requested on different occasions to make presentations to introduce general topics on Canada and Thunder Bay. This is the seventh year that Lakehead University has had students go to Japan on a three-month cultural exchange.

Forty-four students will arrive in Thunder Bay from Gifu University on May 23, to live on campus for three months and learn about Canada and its culture. Innovative parts of this program include the immersion of Japanese students with Canadian monitors, planned excursions in the vast outdoors, life experiences with Canadian families plus four hours of classroom time daily. This is the sixth year for this program. -- Susan Burton

Oklahoma Bound

Thirty-six aboriginal students from Lakehead travelled to Oklahoma City in the spring for a five-day cultural exchange with the native students of Oklahoma City University. The trip was coordinated by visiting professor Lee Hester, an assistant professor with Oklahoma City University currently teaching in Lakehead's graduate program in Native and Canadian Philosophy.

Activities included oral presentations by the students, a reception and feast at the Choctaw Community Center, and a traditional Pow-Wow. Pierre Guerard, one of the students on the trip, noted that "Oklahoma is probably best known ... as Indian country, where thousands of dispossessed Natives from the eastern United States were forced to migrate (under military gun point) in the 1800s. Many died on the "Trail of Tears." Oklahoma state boasts the largest Native population in the United States." The students also visited the site of the federal building that was bombed in 1995.

Congratulations

Catherine Levis (BSc'85) is among 15 Canadians selected to take part in the 1997 class of the prestigious Leadership for Environment and Development (LEAD) training program. Levis was chosen from a field of candidates representing 10 provinces and territories to undertake the two-year program that begins in Ottawa, May 25, and includes training sessions in Costa Rica and Zimbabwe. In Canada, the LEAD program is administered by the National Round Table on the Environment and the Economy in Ottawa. Funding is provided by the Rockefeller Foundation and the International Development Research Council (IDRC).

Building Group Skills

Dr. Bonnie Johnson, Department of Education, California State University-Chico conducted the 10th Annual Instructional Development Spring Workshops at Lakehead on May 8 and 9. About 50 Lakehead faculty attended some part of Johnson's sessions and about 15 faculty attended all of both days. Johnson focused on techniques for building group skills in students with a lesser emphasis on teaching discipline-based content. Faculty who are interested in extending their learning on this topic are invited to contact Ken Brown (ext 8114).

Some possible areas for further workshops and/or discussions are: using group work to teach technical content in science-based

courses; using group work to teach in the humanities and social sciences; and using group work in problem-based, interdisciplinary courses. Brown reminds faculty that it is possible to try group work on a small scale, e.g., one class meeting or one lab, without converting the entire course to these methods all at once.

Best Wishes, Judy

Judy Foulds is retiring from her position as Executive Assistant to the Lakehead University Faculty Association this month after eight years of service. She and her husband Jim will travel to England this summer and are making plans to spend winters "somewhere warm."

WHAT'S HAPPENING IN THE LIBRARY . . .

Renovations Update: The April issue of the *Agora* featured a list of temporary moves that have taken place as a result of renovations. These moves are also posted on a display board at the entrance to the Library and on the Library's Web Page (Click on Hours/News). If you have any questions about these moves or renovations please ask at the Information Desk on the Main Floor. Thank you for your patience!

Election Web Sites: Looking for information on the federal election and various political parties? Here are some Internet sites which will help you:

Elections Canada	http://www.elections.ca
Elections '97	http://www.vir.com/~sher/elect97.htm

Political Parties

Bloc Québécois	http://blocquebecois.org/
Liberal Party	http://www.liberal.ca/cgi-win/core1.exe
New Democratic	http://www.ndp.ca/
Progressive Conserv.	http://www.pcparty.ca/english/index.htm
Reform Party	http://www.reform.ca/

A more complete list of links to Canadian political parties is on the National Library of Canada's web site at:

<http://www.nlc-bnc.ca/caninfo/ep03.htm#32>

Candidates Running

Canada Votes	http://politicscanada.com/canadavotes/default.asp
--------------	---

Election 1997	http://www.1997election.com/
---------------	---

News coverage

Canada Votes	http://votes.canada.com/fed97/index.html
Decision '97	http://www.canoe.ca/FedElection/home.html

Globe and Mail	http://www.theglobeandmail.com/docs/Election97/
----------------	---

Newsworld	http://newsworld.cbc.ca/news/info/vote97.html
-----------	---

CALENDAR

Report from the President
continued from page 4

Organizational Consultations

Left over from last year's budget reduction exercise have been several organizational changes that have not been fully implemented. These include the "Learning Systems" initiative, the decentralization of Continuing Education, as well as changes for Distance Education and the Learning Assistance Centre. A related area under review is responsibility for the various international student-related activities. Some time has passed since these initial concepts were put forward, and I have asked Fred Poulter to consult broadly with the affected groups and others in the Lakehead University community to get a sense as to the status of the suggested directions. I expect Mr. Poulter to report in early June and, at that time, a decision will be made with respect to the organizational structure for the affected areas. As well as the proposed changes, Mr. Poulter has been asked to suggest options based on the input received during the consultations.

COMMUNICATING WITH FIRST NATIONS

**Practical beginnings and
best practices**

**Practical beginnings and
best practices**

Noon to 2:30 p.m.

Thursday, May 29, 1997

International Association of Business Communicators (IABC) is hosting a workshop for individuals or organizations interested in developing business or improving services to aboriginal communities. The workshop will feature:

Joy Asham, columnist with Wawatay and The Chronicle-Journal,
Adam Fiddler, CBC Broadcaster,
Pat Nawagesic, Program Coordinator, Community Health Representative, Nishnawbe-Aski Nation,
Peggy Smith, Lakehead graduate and Senior Advisor, National Aboriginal Forestry Association (Ottawa)

For information call Karen Skochinski at 577-0454



Summer Break

The LU First Response Team discontinued its service to the campus on April 25 but will resume again on September 1, 1997.



2ND ANNUAL SPORTS WALL OF FAME INDUCTION DINNER

Saturday, June 7, 1997

Victoria Inn

Tickets: \$25 per person available from the Athletics Office. Contact: Sharon at 343-8213

CHANCELLOR PATTERSON LIBRARY HOURS

(May 1 to June 16, 1997)

Monday to Thursday

8:00 a.m. to 10:30 p.m.

Friday

8:00 a.m. to 5:00 p.m.

Saturday

11:00 a.m. to 5:00 p.m.

Sunday

1:00 p.m. to 9:00 p.m.

Closed May 19

(June 17 to July 1, 1997)

Monday to Friday

8:00 a.m. to 5:00 p.m.

Weekends CLOSED

SUMMER SESSION

(July 2 to August 15, 1997)

Monday to Thursday

8:00 a.m. to 10:00 p.m.

Friday

8:00 a.m. to 5:00 p.m.

Saturday

11:00 a.m. to 5:00 p.m.

Sunday

1:00 p.m. to 6:00 p.m.

CLOSED Monday August 4

The Agora is published on the 15th
of every month.

We encourage you to send in your
news. Deadline for the June issue is
Friday, June 6, 1997.

C. Trojan
Community Relations

MAINTENANCE CHOICE GOLF TOURNAMENT

June 20, 1997

Tee-off Time 1:30 pm

Shotgun Start

Centennial Golf Club

\$35 per person includes green fees and
steak supper served in the Faculty
Lounge. Call 343-8920 to register.

Agora

May 1997

Vol. 14, No. 5

Agora is published by the Information Office of the Department of Student Services and Community Relations. The newsletter is distributed monthly (except for July and August) to faculty, staff and friends of Lakehead University.

Director of Student Services and
Community Relations:

Joy Himmelman

Publications Officer:

Frances Harding

Communications/Special Events

Officer: Denise Bruley

Administrative Assistant:

Betty Hygaard

Photography:

Peter Puna and Staff

Graphics:

Ben Kaminski & Nicole Sutherland

Printing: LU Print Shop

Submissions of interest to the
University community are welcome.
Send them to:

Editor, Agora

Lakehead University

955 Oliver Road

Thunder Bay, Ontario

P7B 5E1

Telephone: (807) 343-8193

Fax: (807) 343-8999

E-mail:

frances.harding@lakeheadu.ca

MAIL POSTE
219
Lettre
Postale
Canada Post Corporation / Société canadienne des postes
Produit par
Poste-lettres