

## Inside:

|                                 |            |
|---------------------------------|------------|
| Thank You LU! .....             | 2          |
| First Choice Lakehead. ....     | 3          |
| Broadbent on Human Rights. .... | 10         |
| Research .....                  | Blue Pages |
| Liman Laments. ....             | 11         |

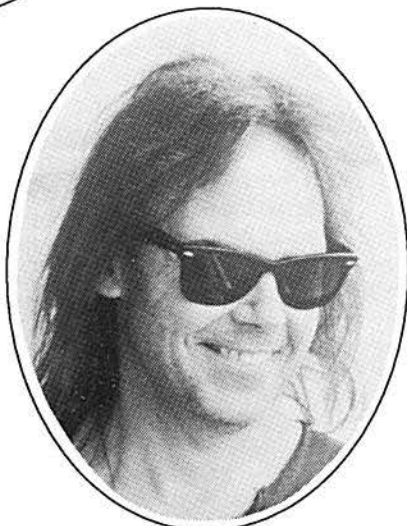
# Lakehead University Agora

THUNDER BAY, ONTARIO VOL. 9. NO.4

MAY 1992



Madam Justice  
Karen Weiler will  
give the morning  
address



Singer/Songwriter  
Neil Young will give  
the afternoon  
address

On Saturday, May 23, 1992, the names of 1,570 candidates who have fulfilled the academic requirements for degrees and diplomas will be presented to Chancellor Lois Wilson. The graduands who are able to attend the morning and afternoon convocation ceremonies will hear the Chancellor say, "By the virtue of the authority vested in me, I admit you as graduates of Lakehead University."

The audience will also hear President Bob Rosehart say, "Madame Chancellor, it is my great privilege and pleasure to request, on behalf of the Senate of Lakehead University, that you confer on Karen Weiler the degree of Doctor of Laws, *honoris causa*, . . . that you confer on Neil Young the degree of Doctor of Music, *honoris causa*."

Another person walking across the stage will be Tillie (Sandberg) Hurrell, who turned 79 this month and will receive her Master of Arts (English).

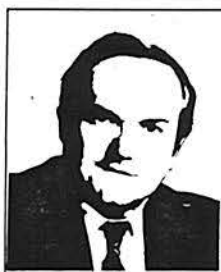
*Continued on page 6*

## Alumni Honour Award Given to Rick Lang

It's been a recognition year for Rick Lang. On May 23, 1992 he will receive the Lakehead University Alumni Honour Award and on June 27 he will be joined by Al Hackner in Ottawa at their induction into the Canadian Curling Association Hall of Fame. Rick has no trouble explaining how Lakehead University was responsible for his professional and curling successes. "In those days curling was the big thing in my life. It was really important to me that Lakehead University was here in Thunder Bay because that enabled me to carry on in curling and to get a degree."

Born and educated in Thunder Bay, the Fort William Collegiate grad first entered commerce at LU, switching to social work and earning his HBSW in 1976. Lang's nomination recognizes his outstanding contribution to the sport of curling, through competition and co-chairing the annual Heart to Heart Bonspiel, his special fundraising project for the Heart and Stroke Foundation. Rick is a supervisor at Children and Family Services, is married to Lorraine (another successful curler with LU graduate Heather Houston) and is the father of Adam, 6, and Sara, 2. Congratulations, Rick!

## Report From the President



**Dr. Bob Rosehart**

### 1992/93 Budget

The Board of Governors approved the 92/93 Operating budget at a meeting held on April 28, 1992. The success of the voluntary contribution program has facilitated a balanced budget for this coming year. It will be necessary to keep a very close watch on expenditures to ensure that we live within the budget. At present, the budget centres are working hard to prepare transition fund proposals that need to be considered by the Labour/Management Committee prior to the June 1, 1992 submission date. Lakehead University will be competing with all Ontario universities for our share of the one time \$22 million restructuring fund.

### Student Placement, Training and Co-operative Education Centre

After many extensive and useful discussions during the past year, Lakehead University has assumed direct responsibility from C.E.I.C. for the student placement office on campus. The revitalized facility is being assisted by a transition grant from the Government of Canada and all looks very positive for the expanded mandate for the Centre. A most recent addition to the Centre is a Native Placement Officer which is being funded by a special grant of approximately \$73,000.



with Lakehead University on a number of initiatives. Jim has made and, I suspect, will continue to make invaluable contributions to Lakehead University and, in particular, for his leadership initiatives with our students.

P.S. Wednesday, May 27, 1992 is "sneaker" day.



### Native Education Grants

Lakehead University has done well in the recent competition for funds from the M.C.U. Native Education Strategy Program. In all, we received just under \$200,000 which will allow Lakehead University to forge ahead this year with our initiatives to create a new School of Native Studies.

As well, the School of Education has been working very closely with the Sandy Lake Education Authority on a unique community-based education program and this initiative now has funding in place and will start this fall.

Finally, a grant has been received to allow Lakehead University to retain a Native liaison person who will visit Native communities or schools to make Native students aware of our programs. All in all, several existing initiatives that will allow Lakehead University to further demonstrate its unique role as a university "in and for the North".

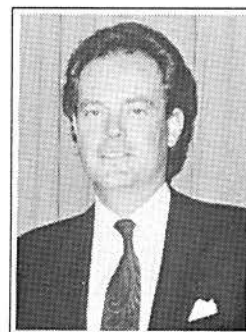
### Trees, Trees, Trees

Lakehead University is to receive a grant under the Environment Canada Green Plan to permit some selected greening of the campus. As well, a major pulp and paper firm is working with Lakehead University to develop a multi-year planting program which would simultaneously recognize each graduating class. More on this in a future column.

### Sea-to-Sea

Funding is in place for this year's trip which is scheduled to leave Winnipeg on June 5, 1992 and arrive in late August in Peace River, Alberta, 200 years after Mackenzie's trip. Expedition leader, Dr. Jim Smithers of Outdoor Recreation, is officially retiring this June from Lakehead University but is expected to continue to be involved

### Letter From Chairman of the Board of Governors and the President to Employees of Lakehead University



Mr. Robert J. Paterson, Chairman of the Board of Governors and Dr. R.G. Rosehart wish to extend their thanks to the university employees

for supporting the recent initiative of voluntary contribution toward reducing the one million dollar deficit in the 1992/93 budget.

The spirit of co-operation which resulted in the agreement between the board of Governors and the employee groups has enhanced the whole university community. All jobs on campus have been maintained, our hiring freeze has been lifted and all programs offered to Northwestern Ontario by Lakehead have been maintained at current levels. It is to the credit of the employees of Lakehead University that we have been able to meet this budgetary challenge for the next fiscal year. As well, we have laid a foundation for future challenges which may be worked out through dialogue and partnership.

*Angela Arsenault gets the royal toast from former boss Moe Ktytor. Angela has left the Student Placement Centre after 13 years of dedicated service to join the main CEC office in Thunder Bay.*

## "Oh, yes, I've been here since 1967!"

There is an air of mystery about the dinner. No one but the President can go to the annual event except bona fide members and their spouses. They even shunned photographs this year, yet another 14 University employees joined the prestigious "Quarter-Century Club". That's 350 years of service to this young institution. We therefore tip our hat to the 1992 inductees and print the complete list of the company they join.

Don Andrews  
Edward Bauman  
Don Black  
Andre Cloutier  
Rick Freitag  
John Futhy  
David Hughes

Mary Lysenchuk  
Billy Morgan  
Vireshwar Paranjape  
Brian Phillips  
Charles Ripley  
Brian Spenceley  
Ernst Zimmermann

### Other Quarter-Century Members

Henry Akervall  
Douglas Alexander  
Ken Allan  
Bill Allaway  
Rick Anderson  
Paul Barclay  
Harold Braun (Deceased)  
Koillipalai Charles  
Anita Chen  
Min-Sun Chen  
Walter Crowe  
Dan Crozier  
William Eames  
Harry Elmslie  
Joyce Forbes  
Eric Green  
Bert Harding  
Margaret Hawton  
Maurice Kytter  
Ted Kurlick

Doug Lindsay  
Richard MacGillivray  
William Mackinnon  
Margaret McMurtry  
William Melnyk  
George Merrill  
Tom Miller  
Gordon Mott  
Henry North  
Don Orr  
George Ozburn  
Murray Patterson  
Linda Phillips  
Frank Presenger  
Pradip Sarbadhikari  
Ginnie Taylor  
John Warren  
John Whitfield  
Leona Wilson  
Siegfried Zingel

## FIRST CHOICE LAKEHEAD?

*You bet and we have the stats to prove it!*

Lakehead University led all Ontario universities with a 25.2% increase in applications from high school students. Last year, Lakehead had 893 first choice applications compared with 1,120 this year. According to the recent figures released by the Ontario Universities' Application Centre in Guelph, Ontario, 58,699 high students have applied to attend an Ontario university in the fall of 1992 - an increase of 2.4% across the system (57,324 in 1991).

According to the Registrar, "what's encouraging about our numbers is that the increase is relatively evenly distributed among the university's programs with the most dramatic increase being in the 4-year Outdoor Recreation, Parks and Tourism degree". High school applicants make up 70% of the first year intake class of which 52% come from Northwestern Ontario and 48% are from outside the region, predominately Southern Ontario.

Speculating on factors responsible for LU's success in attracting students, Paularine pointed out the following: "The recession certainly has an impact on that age group but Lakehead University has spent a lot of time effort, energy and resources promoting in Southern Ontario. We have also improved our set of recruitment publications (in fact being praised by students as a University with top materials). The feedback that Liaison officers get is that students like the personal contact, the manner in which they are treated during the application process, a good response to inquiry turnaround time, and a toll-free line. It's also a continuation of the trend indicating that university-bound students want to attend smaller more personable institutions. They have their own reasons but obviously smaller classes and program accessibility is a factor."

And there's an even bigger story - applications from the non-high school applicants are up 38.4% for first year meaning that Lakehead will process an additional 450 applications.

## Promotions Announced by Senate

### Professor

Faculty of Arts and Science -  
Dr. B. Kronberg, Department of Geology  
Faculty of Professional Studies -  
Dr. K. Eigenbrod, School of Engineering

### Associate Professor

Faculty of Arts and Science -  
Dr. B. Muirhead, Department of History  
Professor P. Vervoort, Department of  
Visual Arts  
Faculty of Professional Studies -  
Dr. R. Irwin, School of Education  
Dr. K. Natarajan, School of Engineering

### Assistant Professor

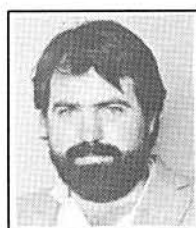
Faculty of Professional Studies -  
Professor D. Pallen, School of Nursing  
Dr. J. O'Meara, School of Education



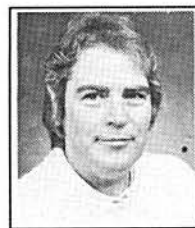
Dr. B. Kronberg



Dr. K. Eigenbrod



Dr. B. Muirhead



Prof. P. Vervoort



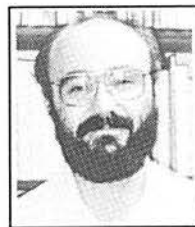
Dr. R. Irwin



Dr. K. Natarajan



Prof. D. Pallen



Dr. J. O'Meara

## WHAT'S HAPPENING IN THE LIBRARY!

### Periodical Subscription Rates Continue to Increase!!

The "Periodical Index 1992", an annual survey found in the April 15th issue of Library Journal, reported that the 1992 average price for U.S. periodicals is \$117.11, or 12.2% higher than the 1991 average price of \$104.36. It was also reported that the average rate of increase for science titles over the past ten years has outpaced that of the social sciences and humanities. Chemistry, Physics and Mathematics showed average annual increases exceeding 10%. The lowest rates of increase have been in the Fine and Applied Arts, Literature, Languages and Philosophy and Religion. Although the results of this survey have been reported in U.S. dollars, Lakehead University Library has also experienced these types of increases. Some examples of subscription increases at The Chancellor Paterson Library are listed below:

|                                                            | 1991   | 1992    | %increase |
|------------------------------------------------------------|--------|---------|-----------|
| Quarterly Journal of Experimental Psychology Section A & B | 339.50 | 672.21  | 98%       |
| Microelectronics & Reliability                             | 614.72 | 1164.15 | 89%       |
| Journal of Hellenic Studies                                | 75.62  | 135.32  | 79%       |
| Irish Historical Studies                                   | 28.00  | 45.96   | 64%       |
| Industrial & Commercial Training                           | 947.87 | 1516.62 | 60%       |
| Philips Journal of Research                                | 103.00 | 162.74  | 58%       |
| Topology                                                   | 436.62 | 656.70  | 50%       |
| Urban Studies                                              | 183.84 | 268.65  | 46%       |

Not all journal prices are increasing at such phenomenal rates. However, these kinds of increases continue to challenge resources at all Canadian universities.

Dr. Rabb, on behalf of Prudence Morris, presents her late husband's massive book on Jonathon Edwards to Fred McIntosh, chief librarian.

## The Young Jonathon Edwards: A Reconstruction

Third Posthumous Publication by Lakehead Philosopher

*The Young Johnathon Edwards: A Reconstruction* by William Sparks. Morris (New York: Carlson Publishing, 1991, pp. xvi+688) is former LU professor Dr. William S. Morris's University of Chicago Ph.D. dissertation, completed in 1955. At that time it won the prestigious Susan Rosenberg Award for the best Ph.D. Thesis in the University of Chicago School of Divinity over a three year period. His doctoral studies and subsequent research and publications on the philosophical theology of Jonathon Edwards, including the major study "The Genius of Jonathon Edwards" (in *Essays in Divinity*, University of Chicago Press, 1968), made Dr. Morris an acknowledged authority on this important eighteenth century American thinker.

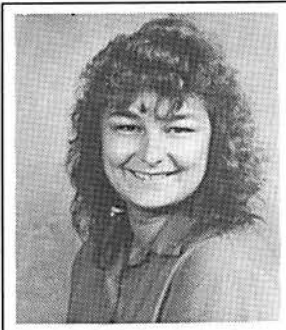
This past Dr. Morris' dissertation was published as one of twenty-one books in the distinguished Carlson Publishing Series, Chicago Studies in the History of American Religions edited by Jerald C. Brauer and Martin E. Marty. Professor Brauer, Morris' thesis supervisor at Chicago, has added a preface to the book in which he describes Morris' contribution: "William Morris argues that Edwards can only be understood as a highly creative and original thinker who took the very best from his inherited past and related it critically and constructively to the newly emerging ideas of the Enlightenment." Brauer concludes that "Whether one agrees or disagrees with William Morris' analysis, he cannot be ignored. Any scholar who wishes to understand American thought and culture will have to come to grips with his analysis." (p.xvi) The fact that Dr. Morris' thought continues to be influential is a fitting memorial for a fine philosopher.

Dr. William S. Morris (1916-1983) taught at Lakehead from 1968 until his retirement in 1982. During that time he served as chairman of the Department of Philosophy and created and directed the interdisciplinary program in Religious Studies. During his lifetime he published over forty articles and reviews on moral philosophy, religious studies and the philosophy of religion as well as a major book on church unity entitled *The Unity We Seek* (Toronto: Ryerson Press, 1962, London: Oxford University Press, 1963). His other posthumous publications include: another book, *Lectures On Contemporary Religious Thought*, ed. J.D. Rabb, R.C. S. Ripley, M.E. Coates and D.M. Henderson (Kingston: Ronald P. Frye and Company, 1988), and "The Philosophy of Religion Today", the concluding essay of his memorial volume *Religion and Reason: A Symposium*, ed. J.D. Rabb (Winnipeg: Frye Publishing, 1983).

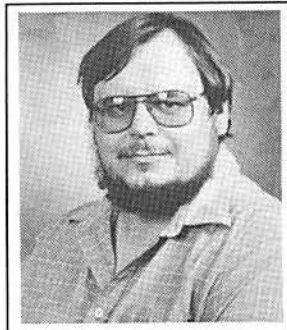


## Sonya Bruyere

Sonya Bruyere recently joined the School of Education as the secretary to the Native Language Programs. She came to LU from a position at George Jeffery Children's Treatment Centre. Although she is busy getting ready for the influx of new students for the summer programs, Sonya graciously agreed to take some time to talk with the AgorA. Born in Fort Frances (yes, she is distantly related to Gord Bruyere from Native Support Services), she moved to Thunder Bay with her family and attended public school here. "I enjoy answering program questions, the processing of the applications, but most importantly, the interaction with the students". In the future Sonya hopes to finish her final year of Computer Studies at Confederation College. In her free time, "I ride my motorcycle, play baseball, take my daughter to soccer, tinker on cars and if I have time left, relax." Sonya also enjoys the "regional past-times", hunting, fishing and camping, and likes to spend a quiet moment with the new Stephen King novel. Tel: ext. 8198.



## Timo Miettinen



Computer problems? Timo Miettinen is the man to see if your computer is suffering from some sort of malady. Timo recently joined Computer Services as a Computer Consultant. Originally from Helsinki, Finland, Timo and family moved to the area when he was four. He attended Port Arthur Collegiate Institute and later on, the University of Waterloo. "I took some time off school and worked for a couple of years, mainly with the Ministry of Natural Resources here in town". In 1986 he enrolled at Lakehead in the Computer Science course and received his Honours Bachelor of Science degree at the May '91 Convocation. As a computer consultant "I am a troubleshooter, usually finding out why things are going wrong with the computer. It can be computer error, user error, insulation error, sometimes the bad phase of the moon!" After hours Timo likes to "beat up on giants", that is, playing fantasy role-playing games like Dungeons and Dragons. He also enjoys the occasional Orson Scott Card sci-fi novel. Tel: ext. 8436.

## Believe It or Not -

### Great faces spotted on campus posters

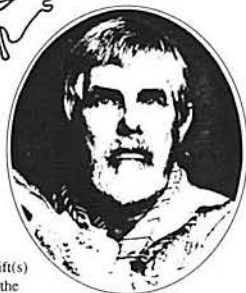


### It's the Jim Smithers' TOAST & ROAST

You are cordially invited to a Toast & Roast for Dr. J. E. P. Smithers, Director, School of Outdoor Recreation, Parks & Tourism, on the occasion of his (early) retirement from Lakehead University.



DATE: Thursday, May 21, 1992  
PLACE: The Outpost, Student Centre at Lakehead University  
TIME: 3 pm - Cake and Coffee  
4 pm until ? - Toast & Roast



Coffee, cake and munchies will be provided. Cash bar. A best wishes card will be located at the Switchboard and those wishing to donate toward a gift(s) may do so by leaving same with Norma or Joanie at the Switchboard by Friday, May 15, 1992.

Lakehead University Philosophy Association  
presents

Dr. R.C.S. Ripley  
Chairman  
Department of Philosophy  
Speaking on

### "The Philosophical Conditions Necessary for Life After Death"



Friday, March 27, 1992  
8:00 p.m.  
Faculty Lounge

Snacks & Cash Bar

Free Admission

## Convocation Countdown . . . .

It's no secret that this year's Convocation ceremonies presented a few extra challenges. For the staff in the Office of the Registrar, it included processing the largest graduating class at 1,500 plus. Inviting an entertainment "superstar" meant correspondence with agents and queries from fans. The anticipation is building about what Madame Justice Karen Weiler and Neil Young will say to the class of 1992. Brief biographies follow with a sampling of advice given to previous classes.

### Karen Merle Weiler

#### Judge of the Ontario Court of Justice

Karen Merle Weiler was born in Regina, Saskatchewan on June 13, 1945. Her primary and secondary education were undertaken in the province of her birth. Her legal education was completed at the University of Saskatchewan and Osgoode Hall Law School from which she received her LL.B. in 1967. After articling in Toronto, Madam Justice Weiler attended the Bar Admission Course and was called to the Bar of Ontario in March, 1969. In 1974, she received her LL.M. degree from Osgoode Hall Law School. Over the course of her academic career she has been the recipient of many honours and awards.

During her career Madam Justice Weiler has focused primarily on the area of family law. Not only has she acted as counsel in the development of legislation, she has also been actively involved in educating the public on the subject of law reform. This has included speaking tours, writing, television appearances and filmmaking. She has been very active as a panelist in seminars and conferences dealing with ethics, family law, gender biases and women's issues.

Following nearly a decade as a district court judge, she was appointed Judge of the Supreme Court for Ontario and a member of the High Court for Ontario and a member, Ex Officio, of the Court of Appeal for Ontario, February 21, 1989.

Madam Justice Weiler is married to Robert D. Weiler, Q.C., son of former Chancellor Bernard G. Weiler, Q.C.. The couple has two children. In her leisure time she participates actively in competitive sports and enjoys watching professional hockey and baseball.

### Neil Young

#### Singer, Songwriter

Neil Young was born in Toronto in 1945, although he spent many of his formative years further west in Winnipeg. A self-taught guitarist, he appeared as a folk artist before forming his own band, Neil Young and the Squires, which became a Northwestern Ontario and Manitoba favourite between 1962 and 1964.

Relocating to Los Angeles in the mid-60's, Young was invited to join the band Buffalo Springfield by founding member Stephen Stills. The group, which disbanded after two years, was responsible for a number of folk-rock classics, including such Young originals as *Broken Arrow*, *Mr. Soul* and *I Am a Child*.

Over the next three years Young divided his time between a solo career and recording and performing as part of the superstar group Crosby, Stills, Nash & Young. For his second solo album, *Everybody Knows This Is Nowhere*, Young enlisted the band Crazy Horse, with whom he recorded such hits as *After the Goldrush* and *Harvest*.

Throughout the 70's Young continued to record a series of albums for which he received numerous gold record sales awards. Since then he has continued to consolidate his reputation as a world class concert performer. Neil Young was named Best Male Singer and Best Composer in 1971 and was inducted into the Canadian Hall of Fame in 1982.

During the 80's Young experimented in a variety of musical styles, from electronic rock to pure country to hardcore heavy metal. Most recently, he garnered critical and popular acclaim with his Crazy Horse reunion album *Ragged Glory*, which spawned another coast-to-coast tour.

Today, Neil Young remains one of the most unique and enduring artists in contemporary music. Well-known journalist Scott Young, will be in attendance to celebrate his son's award.

## "Advice When Leaving These Hallowed Halls"

*Lakehead University has been blessed with a distinguished roll call of honorary degree recipients. Those tasked with delivering the convocation address have undoubtedly laboured long over the appropriateness of their sagacious script. Here's a sampling.*

1. "Never, never, never give up on yourselves. Never, never, never give up on Canada. Remember that every Canadian is a Canadian in his or her own way. No one way of being Canadian crowds out any other. Remember also that the loss of any part of our diversity impoverishes all Canadians; and the loss of any part of our unity weakens all Canadians. Wherever you were born, think of Canada as your chosen land. A birthplace is simply an accident; a choice is a moral responsibility."

2. "If we devote ourselves to universal understanding, then, by 2010, population will begin to control itself. It will even decline. Can we evolve to become a species remembered for its wisdom, not its greed, violence and incomprehension? If we do, our raccoons and groundhogs, our forests, birds and soils will survive to give us, and future generations, Montaigne's quality of life - pure joy in being alive."

3. "Refuse to be ordinary. Don't treat anything as routine. . . Don't short-change the people with a half-hearted effort because you've decided something isn't interesting. What you do will have value if you've truly done it well."

4. "In our democratic society, we have recognized that the public right to know is best assured through commercial news gathering agencies which we have, by extension, endowed with the freedom of speech which is one of the highest social values that we claim and cherish as individuals."

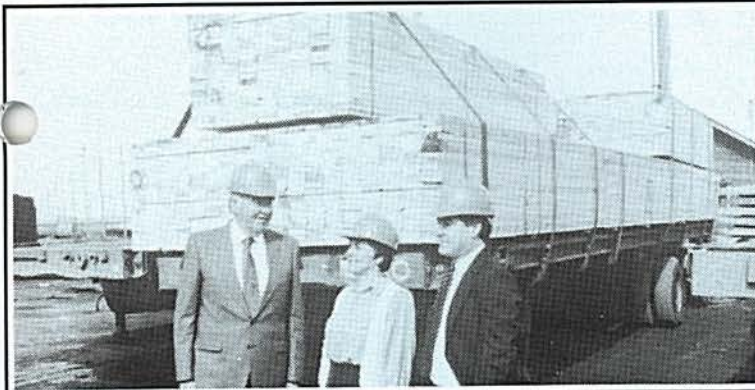
5. "We still need the dreams and the star gazing of youth. We need your questioning and your hopes for better things. We need your concerns for others. Mark Twain said: 'When your illusions are gone, you may still exist, but you have ceased to live'. Please don't cease to live. We need you to challenge and address the multitudinous problems that face us today - to create a better society than the one that you were introduced into."

6. "Don't forget that this institution started as a Technical School - a blending of technical courses with diploma courses and university courses. These are all still essential to keep the institution financially viable. Furthermore, many diploma course students go on to complete University degrees, simply because they have been subjected to university atmosphere. We will always be an outpost University and as such, must struggle harder than others."

7. "You go forth into a society - in Canada at least - which has more freedom, more equality of opportunity, more tolerance, more affluence. You are more educated, in better health, more mobile. In short, you start with advantages your parents did not have at the same age and stage."

8. "The purpose of a university is to formulate ideas, to test them, to criticize them, to accept them, to reject them. The university by definition cannot become the curator of any particular viewpoint, or the defender of a faith, or the guardian of an ideology."

*Continued page 8*



# RESEARCH NEWS

From left to right: Tom Inglis,  
Northern Wood Preservers and  
LU researchers Margaret  
Haughton and Werden Keeler

**MAY 1992**

## UNIVERSITY - INDUSTRY RESEARCH LINKED

*Reprint permission courtesy of the  
Chronicle-Journal*

Lakehead University needs funding for research. Northern Wood Preservers Inc. needs to find a better way of drying wood for export. On Monday, April 6, officials announced a \$70,000-solution.

Lakehead and Northern Wood Preservers, with the aid of a \$35,000-grant from the province, are embarking on a two-year research project to find a more effective way of drying lumber.

If the project is successful, it could secure Northern Wood's European market while providing the university with expensive research equipment and exposing faculty and students to industrial research.

Technically, the agreement lasts two years but officials from both sides want the relationship to continue much longer.

"I think it's important that we're in Thunder Bay and we're working closely with a corporate partner," said Marg Hawton, a physics professor at Lakehead and one of the researchers on the project.

"On the large scale, the university really wants to see (itself) play a leadership role in fostering economic development in Thunder Bay," said Connie Nelson, Lakehead's director of research and graduate studies.

Under the province's university research incentive fund, Northern Wood Preservers matches each provincial dollar with one of its own to help Lakehead's research.

Northern Wood-part of the Buchanan group of forest companies-dries its lumber in 100-foot long and 50-foot wide kilns that resemble tin greenhouses.

Each day, planks are piled on to trucks and pushed along tracks in to the kilns. Hot air flowing through ceiling vents heat the kilns to 240 F, and lumber is left for about 24 hours.

Inglis said the softwood is dried to a moisture content of about 18 per cent. However, that level isn't consistent throughout, making the lumber less than ideal for such common uses in Europe as furniture.

Much of the wood exported by Northern Wood Preservers has been shipped green and dried in Britain. However, Europeans afraid of worm

infestations will soon be placing duties on undried wood.

The Europeans are demanding a higher dry wood consistency than Northern Wood Preservers now provides.

To get higher consistency, wood would have to be left in the kilns for about a week. While that's feasible at smaller European operations, it would back up other production at Northern Wood Preservers, said Inglis.

During the next two years, Lakehead researchers hope to come up with the needed consistency improvements without the long drying times.

Most of the \$70,000 in research money is going toward an optical infra-red spectrometer, to allow researchers to view the drying process, said physics professor Werden Keeler who does the research with Hawton.

One or two summer students will also be hired to work in the project.

The spectrometer, Lakehead's main prize, can later be used for other projects.

This is Lakehead's fourth such provincial project.

## NSERC FUNDED RESEARCH TOPS \$1 MILLION MARK

The Natural Sciences and Engineering Research Council recently released the results of the 1992-93 Research and Equipment Grants Competition. The Office of Research and Graduate Studies is pleased to report that NSERC eligible researchers at Lakehead University were awarded grants totalling \$1,019,550, as compared to \$921,374 in 1991-92 (excludes strategic grants) or an increase of 11% over last year. Approximately 37% of NSERC eligible faculty at Lakehead University hold NSERC research grants.

By reaching the \$1 million dollar benchmark, Lakehead University is now considered by NSERC to be a medium-sized university in terms of its categorized placement of universities.

In spite of this increase, due to the increasing numbers of researchers applying to the Council for limited federal research dollars, many deserving research proposals were not funded. The Office of Research and Graduate Studies would like to take this opportunity to commend all researchers for their efforts in this year's competition.

In the operating grants competition, several of Lakehead University's new researcher's (first-time applicants) were successful in receiving operating grants. They are: Dr. T. Garver (Chemistry), Dr. C.T. Hoang (Mathematical Sciences), Dr. T. Miao (Mathematical Sciences), and Dr. M.F. Wesner (Psychology).

The successful researchers in this year's operating and equipment grants competition (new grants and renewals) are on the following page:

## DEPARTMENT OF BIOLOGY

- Dr. R. Freitag - "History of the North American Cicindelidae".
- Dr. P.H. Knowles - "Effects of environmental stress as a selective force on the genetic structure of forest trees".
- Dr. M.W. Lankester - "Parasite diseases of Northern Ungulates".
- Dr. L. Malek - "Dry Seed Proteasome and Related Proteins" and an equipment grant for a High performance liquid chromatography gradient system.
- Dr. D.W. Morris - "Habitat Selection, population dynamics and community structure of northern vertebrates".
- Dr. R.J. Omeljaniuk - "Fish pituitary neurohormone actions, signalling mechanisms, and receptor regulation" and an equipment grant for a cell culture and physiology facility.

## DEPARTMENT OF CHEMISTRY

- Dr. A.N. Hughes and Dr. D.G. Holah - "Reactions of transition metal salts and complexes with hydroborate and other reducing agents".
- Dr. T.M. Garver - "Hydrodynamic and structural studies of selective lignin macromolecular transformations" and an equipment grant for pulsed gradient NMR probe with power supply/controller.
- Dr. S.D. Kinrade - "Chemistry of aqueous Aluminosilicates and associated metal systems".
- Dr. M. Rappon - "Photoinduced reactions of dyes".
- Dr. N.A. Weir - "Studies of photodegradation of polymers".

## DEPARTMENT OF ELECTRICAL ENGINEERING

- Dr. D.M. Barry - "ESD and X- and gamma-ray testing of MOS devices for reliability and failure causes".
- Dr. K. Natarajan - "Aspects of discrete time periodic control systems".
- Dr. M.H. Khan - "Hand-off control for microcellular communication systems".
- Dr. J.B. Kiszka - "Fuzzy logic knowledge-based systems. The pulp and paper industry, computers and controls of the pulp and paper industry".

## DEPARTMENT OF CHEMICAL ENGINEERING

- Dr. L.J. Garred - "Hardware and software development and simulation studies to exploit spent dialysate for urea kinetic modelling in hemodialysis".
- Dr. I. Nirdosh - "Removal and Immobilization of thorium-230 present in uranium mill solutions".

## DEPARTMENT OF CIVIL ENGINEERING

- Dr. K.D. Eigenbrod - "Measurement of pore water pressures in freezing and thawing fine grained soils".
- Dr. S.M. Easa (Civil) - "Highway geometric design for safety".
- Dr. S.A. Mirza (Civil) - "Strength and stiffness criteria for composite steel-concrete beam-columns".
- Dr. U.S. Panu (Civil) - "Development of streamflow data infilling and streamflow forecasting procedures based on pattern recognition concept".

## DEPARTMENT OF MECHANICAL ENGINEERING

- Dr. H.T. Saliba (Mechanical) - "Experimental and theoretical free vibration analysis of thin plates with various shapes, boundary conditions and complicating factors".
- Dr. A. Sedov (Mechanical) - "Ultrasonic transducer and flaw modelling for non-destructive evaluation applications".
- Dr. B. Singh (Mechanical) - "Scaling criteria for jet cutting of oil sands".

## SCHOOL OF FORESTRY

- Dr. W.H. Parker - "Focal point seed zones and adaptive variation of North American conifers".

## GEOLOGY

- Dr. G.J. Borradaile - "Rock Physics and Deformation" and an equipment grant for a JR5A Spinner.
- Dr. P.W. Fralick - "Paleogeographical interpretation of archean sedimentary sequences in Northwestern Ontario".
- Dr. R.H. Mitchell - "Petrology and Geochemistry of kimberlites and alkaline rocks".
- Dr. R.G. Platt - "Petrogenesis of alkaline and carbonatitic magmas".

## DEPARTMENT OF MATHEMATICAL SCIENCES

- Dr. W.R. Allaway - "The moment problem on disjoint sets and orthogonal polynomials" and an equipment grant for a Computer and Hardware.
- Dr. M.W. Benson - "Parallel iterative methods".
- Dr. C.C. Graham - "Topics in harmonic and functional analysis".
- Dr. C. Hoang - "Recognition and optimization algorithms for perfect graphs".
- Dr. X. Li - "Distributed logic programming".
- Dr. T. Miao - "Amenability of locally compact groups and properties of the Fourier algebra".
- Dr. J.H.M. Whitfield - "Geometry and nonlinear analysis of Banach spaces".

## DEPARTMENT OF PHYSICS

- Dr. M.H. Hawton - "Physics of membranes and absorbed water".
- Dr. W.J. Keeler - "Raman spectroscopy studies of CdMnTe based heterojunctions".
- Dr. W.M. Sears - "Electrical and Optical properties of wide band gap semiconductors".
- Dr. V.V. Paranjape - "Research in solid state physics".

## SCHOOL OF PHYSICAL EDUCATION

- Dr. D.J. Weeks - "Salient features of cooling operations in response selection performance" and an equipment grant for a Micro Experiment Lab System.

## DEPARTMENT OF PSYCHOLOGY

- Dr. C.A.G. Hayman - "Modality effects in human performance".
- Dr. M.F. Wesner - "Mechanisms of complex colour perception" and an equipment grant for an Optical system and computer workstation.

## ALL THREE RESEARCH COUNCILS RECEIVE FUNDING INCREASES

The Association of Universities and Colleges of Canada has reported that the three federal research councils will receive annual increases of four percent per year over the next four years. This represents a vote of confidence by the federal government in Canada's university researchers. The council's base budgets, upon which the four percent increases will be calculated will now include funds previously available only if matched by contributions from other sources.

Canada's university research efforts depends on increased and secure funding for the research councils if it is to make a strong contributor to the body of scientific knowledge needed for Canada's future.

## RESEARCH OPPORTUNITIES

### HEALTH AND WELFARE CANADA

#### National Health Research and Development Program (NHRDP)

The NHRDP supports population-based health research related to national health issues. The deadline for submitting applications to the Research Project Program is **June 1, 1992**. The program is highlighting the following general priority areas for the above competition: **Health Care; Health Promotion; Illness Prevention; Rehabilitation; Risk Management; Health of Aboriginal Peoples; and Dissemination of Health Research Outcomes.**

Applications for formulation funding and research projects with a duration of one year or less and a budget not exceeding \$20,000 will be accepted for review at any time, subject to the availability of funds. Pilot/feasibility projects must be submitted for the **June 1** deadline even if less than \$20,000 so they may be reviewed by a full committee.

### SSHRC/NORTHERN TELECOM

#### Research on Science Culture in Canada

The Joint Initiative for Research on Science Culture in Canada, was established by SSHRC and Northern Telecom last June to ascertain why young Canadians seem hesitant to choose careers in science and technology, to find ways of encouraging student enrolment in the sciences, and to improve scientific skills and training. A **deadline date of September 15, 1992** has been set for a second competition for research funding under this program. Applicants are reminded that multidisciplinary, action-oriented research projects leading to strategies for change, including well-organized plans for the wide dissemination of research results, have the best chances for success in the competition.

### EMBASSY OF THE UNITED STATES OF AMERICA

#### Grants in American Studies

Applications for the 1992-93 academic year in the fields of American Studies and Canada-U.S. Relations are now available from the United States Embassy. Grants of up to \$3000 will be awarded to individuals or institutions and are tenable at Canadian Universities. The **DEADLINE DATE** for application is **September 1, 1992**.

### ST. PETERSBURG ACADEMY OF SCIENCES

The St. Petersburg branch of the Academy of Sciences, Russia offers the possibility of an independent research program to Canadian scholars. Access to the St. Petersburg scholarly institutions, libraries, and archives will be arranged at a cost of U.S. \$25.00 per day. Soviet visa support will be provided by the academy to Soviet consulates in Canada for scholars who are accepted for such independent research programs.

### SUPPLY AND SERVICES CANADA

#### Environmental Innovation Program (EIP)

The Environmental Innovation Program seeks to build on the enthusiasm displayed by Canadians during the Green Plan consultations. EIP offers Canadian industry, universities, native groups, non-government organizations and interested individuals the opportunity to meet the environmental priorities of the Green Plan by submitting innovative research and development proposals in the areas of the natural sciences, the social sciences, the health sciences and the humanities.

Contracts will be awarded under EIP for ideas which will result in tangible new environmental products, processes, or services. EIP is managed by Environment Canada and administered by SSC. Proposals should be submitted to SSC which will distribute them through a well-established network to potentially interested government departments. The money for EIP contracts comes from a combination of EIP's \$20 million budget over the next six years and money from sponsoring government departments.

Only projects which support the goals and objectives of the Green Plan will be supported. These include:

- clean air, water and land;
- sustainable use of renewable resources;
- protection of our special spaces or species;
- preserving the integrity of our North;
- global environmental security;
- environmentally-responsible decision making at all levels of society; and
- minimizing the impacts of environmental emergencies.

EIP emphasizes innovation. A proposal must either offer a new, unique idea or the proposer must have a unique capability or capacity for carrying out the proposed work. The proposal must be sponsored by a federal government department.

## GRADUATE STUDIES NEWS

The Third Annual Graduate Student Conference was held on March 17 and 18. Twelve graduate students from the Departments of Biology, English, Geology, and Psychology and the School of Forestry presented papers on their research on such topics as global warming, forest management, effects of herbicide on moose behaviour, spruce budworm, and spirituality in literature.

This is the third year of the Conference, which provides an opportunity for graduate students to present their research in a conference format and to receive feedback from their fellow students and faculty in other disciplines.

The presenters will submit their final papers, which will be edited and published as conference proceedings.

### NORTHERN HEALTH HUMAN RESOURCES RESEARCH UNIT (NHHRU)

Commencing in May 1992, the NHHRU will be employing senior level undergraduate and graduate students to work on specific projects. These research assistantships, valued at \$3,500 per term and awarded on a term-by-term basis, will be available for the fall and winter terms, as well as for the spring/summer period (which will be considered as equivalent to one term). The number of assistants hired each term, their discipline areas, and the nature of the work assigned will be determined by NHHRU researchers' and/or project needs, and the funds available. Application forms are available through the NHHRU office in the Health Sciences Resources Centre (343-2137).

## SCHOLARSHIP OPPORTUNITIES

### Fulbright Scholar Program - Educational Exchange Between Canada and the U.S.A.

Graduate students are eligible to apply for formal enrolment in a Ph.D. program at an American University, or to undertake research in the U.S. as part of their Canadian Ph.D. program. Degree program awards are for those who want to begin a doctoral program at a university in the U.S. and who have gained acceptance to that program. Research awards are for those who want to spend an academic year of research and course work at an institution in the U.S., but who are enrolled

in a doctoral program at a Canadian university.

Applicants must be Canadian citizens. Fulbright awards are granted for periods ranging from three to nine months. Dates of most grants coincide with the academic year of the host institution. The fixed sum grant is approximately \$1667 per month (travel inclusive). The maximum amount of the grant for a full academic year is \$15,000. Grantees are expected to use the award to cover all of their necessary expenses such as housing, travel, school fees and expenditures. Application packages are available in the Office of Research and Graduate Studies. **Deadline: September 30**

## GRADUATE SCHOLARSHIP ANNOUNCEMENTS

The 1992-93 Ontario Graduate Scholarship winners were announced on March 27 by the Ministry of Colleges and Universities. The following eight successful candidates from Lakehead University will receive awards:

DAGSVIK, Jo-Anne (Social Work)  
ENSTROM, Ethel (English)  
FELLMAN, Laura (Social Work)  
GANNON, Greg (Applied Sport Science and Coaching)  
HARRISON, Dale (Physics)  
PICARD, Beverly (Social Work)  
SELWAY, Julie (Geology)  
SYVITSKI, Raymond (Chemistry)

On April 1, the Office of Research and Graduate Studies received the announcement of the 1992-93 NSERC Postgraduate Scholarship winners. Successful applicants from Lakehead University are:

BENARROCH, Al (Psychology)  
HARRISON, Dale (Physics)  
KARACHOK, Rob (Physics)  
POLISCHUK, Susan (Biology)  
SHOOK, Peter (Engineering)  
SLOMKE, Angela (Biology)

## UPCOMING DEADLINE DATES

### NSERC Programs

E.W.R. Steacie Memorial Fellowships - July 1  
Forestry Postdoctoral Assistantships - June 1 and December 1  
Research Partnerships Program - Open  
Scientific Publications - October 1 and April 15  
Strategic Grants - May 1, 1992

### SSHRC Programs

Aid to Occasional Scholarly Conferences in Canada - July 1, November 1, April 1  
Strategic Partnership Development Grants - November 1, January 15, April 15  
SSHRC/Northern Telecom: Research on Science Culture in Canada - September 15, 1992.

### SENATE RESEARCH COMMITTEE

#### NSERC Internal Research Grants

Conference Travel Program - January 15, 1992 and May 15, 1992  
Travel to do Research Program - January 15, 1992, May 15, 1992

#### SSHRC Internal Research Grants

Conference Travel Program - January 15, 1992 and May 15, 1992

### GREEN PLAN PROGRAMS

Tri-Council: University Research Chairs - May 15, 1992;

Research Fellowships - June 15, 1992.

## OTHER RESEARCH PROGRAMS

Canadian Institute of Ukrainian Studies: Research Grants - May 1, 1992

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

G. Allan Roeher Institute - Research Grants in Mental Handicap - April 30, 1992.

Health and Welfare Canada/MRC - AIDS Research Program - March 15 and September 15; Joint Fellowships for AIDS Research Training - April 1 and November 15.

Health and Welfare Canada: Research Projects and Studies - June 1, 1992; Small Budget Projects - Anytime; Career Awards - July 31, 1992; Conferences and Workshops - April 1, 1992.

National Research Council - Laboratories Research

Associateships - Open

Ontario Ministry of Agriculture and Food: Research Program - July 31, 1992

Ontario Ministry of Health - Nursing Innovation Fund - January 1, May 1, September 1

Ontario Ministry of Health - Health Care Systems Research Projects: Research Projects (May 1 and November 1), Feasibility Studies (Anytime), Formulation Grants (Anytime), Information Studies (May 1 and November 1), Workshops and Conferences (Anytime).

Secretary of State: Canadian Studies Directorate - Open  
SMUTS Visiting Fellowship in Commonwealth Studies for 1993/94 - May 31, 1992.

St. Petersburg Academy of Sciences, Russia: Research Program - Open.

Supply and Services Canada: Environmental Innovation Program - Open.

United States Embassy Grants in American Studies - September 1, 1992.

## GRADUATE SCHOLARSHIP OPPORTUNITIES

Fulbright Scholar Program - Educational Exchange Between Canada and the U.S.A. - September 30, 1992.

Government of Canada Awards - Deadlines vary by country  
Young Researchers Award - Open

Canadian Nurses Foundation Scholarships and Fellowships - July 31, 1992.

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

For further research information call Anne Fiorenza at ext. 8223 or drop by the Office of Research and Graduate Studies. For information about Foundations, call Jo-Anne Silverman, Foundations Officer at ext. 8910 or drop by the Alumni House.

## People/Papers/Publications Special Projects/Awards

**Dr. A.H. Mamoojee**, Department of Languages, published a paper entitled "The purpose of Q. Cicero's legateship in Gaul" in *The Ancient History Bulletin*, vol. 6, No. 1 (January-March 1992), pp. 1-9.

**Dr. Margaret Johnston**, Department of Geography and Centre for Northern Studies, presented a paper at the Popular Culture Association conference held in Kentucky, March 18-21, 1992. The paper was entitled "Authenticity and wilderness symbols in clothing."



**Dr. Harun Rasid**, Professor of Geography, presented a paper at the Annual Meeting of the Association of American Geographers, held in San Diego, California, April 20-24, 1992. The title of the paper was "Poldering vs. compartmentalization: The choice of flood control techniques in Bangladesh." The paper was based on a joint research project on the flood problems in Bangladesh with Dr. Azim

Mallik (Department of Biology). Dr. Rasid also chaired a special session on Natural Hazards in Bangladesh, in which the above-referenced paper was presented.

**Dr. Said Easa**, Professor of Civil Engineering, authored the following articles: "Exact Probabilistic Solution of Two-Parameter Bearing Capacity for Shallow Foundations", *Canadian Geotechnical Journal*, Vol. 28, No. 4., "Sight Distance Relationships for Sag Curve with Noncentered Overpass", *Transportation Research Journal*, Vol. 26B, No. 3, 1992 and "Exact Solution of Minimum Sight Distance on Sag Curve with Centered Overpass", *Journal of Transportation Engineering*, American Society of Civil Engineers, Vol. 118, No. 4, 1992.

**Dr. Thomas M.K. Song**, Professor of the School of Physical Education and Athletics, Coordinator of the Human Performance Laboratory, presented a paper entitled, "The Relationship Between Somatotype and Cardiovascular Risk Profile in Adults", at the International Conference on Physical Activity, Fitness & Health, in Toronto, May 10-13, 1992. The study was done in collaboration with Dr. C. Bouchard, Laval University and Dr. R. Malina, University of Texas in Austin. Dr. Song also presented a paper entitled, "Twin Resemblance in Somatotype Components" at the Annual Meeting of the American College of Sports Medicine, Dallas, Texas, May 27-30, 1992. The study was collaborated with Drs. C. Bouchard and L. Perusse, Laval University and Dr. R. Malina, University of Texas.

Dr. Song has been invited to Laval University in Quebec City as a visiting research professor doing research work on "Relationship between Echocardiogram and body Composi-



tion" and "Mitochondrial DNA variants on the trained and untrained" during summer. Dr. Song has received the sixth consecutive Ontario-Quebec exchange program grant and research grants from Laval and Lakehead Universities for his research work.

**Dr. Walter Momot**, Department of Biology, has been awarded an honorary life membership in the International Association of Astacology for his contributions to crayfish research and service to the association. Due to his efforts, Dr. Momot has drawn much international attention to Lakehead as one of the foremost institutions in crayfish population biology.



**Dr. Terry L. Hill**, Department of Sociology, has been recently awarded a McMaster University Fellowship, in the amount of \$13,000. Dr. Hill will be:

- a) developing and teaching an undergraduate course in the "Sociology of Bereavement" at Lakehead University;
- b) working with McMaster Faculty to develop a Train-the-Trainer curriculum package for professionals involved with Community Teaching Units (CTUs) in gerontology and grieving;
- c) writing and publishing a practitioner's manual for those involved in training staff or volunteers and for undergraduate students as part of their required course materials.



**Professor Jose de Cangas**, School of Nursing, presented a paper entitled, "No Nurse, You Don't Have To Take It: Nurse Assault Theory and Research", at the provincial annual meeting of the Operating Room Nurses Association of Ontario Annual Conference - Present Concerns, Future Vision and the Responsibility is Ours.

The conference was held in Toronto on April 14, 1992 and was attended by over 2000 nurses.



From left to right: Darren Gilland, David Hare, Manager of Residence and Conference Services, Greg Beckford and Norma Jean Newbold, Residence Life Officer have pie on their face for a good cause. A rummage sale/car wash/pie throwing contest was held to raise money for the Residence Council Charitable Causes Fund.

## More Advice, Pomp and Ceremony

*continued from page 6*

9. "I hope that you will have confidence in yourselves, and that you will not fail to observe some of the heartening aspects of life in Canada in 1967. The centenary celebration is succeeding to an extent which no one would have guessed even a year ago, and observers have been quite astonished by the firm and positive response of Canadians everywhere to this anniversary. Nationalism is an ominous word for an ugly thing, but it is something else to feel and to manifest a decent pride in what we have done, with an earnest intention to go yet further."

10. "In the Convocation speeches of my day - and happily all of them have long since been forgotten, if they were ever remembered - there was inevitably some phrase about leaving these hallowed halls to face reality: a brief flurry of nostalgia was succeeded by a brassy sense of relief on putting aside the skirmish with illusions to grapple with the tough realities of life. I don't think that any Convocation speaker would make that kind of comment today; if he did he would be greeted with the steely displeasure that the new generation reserves for the more ostentatious blunders of the establishment. The movement from university to the world outside is, for many, a movement from a serious grappling with the basic problems of existence to the manipulation of illusions. For others - and I hope you will be among them - graduation means a continued search, in other terrain and under different conditions, for reality. We must as a nation be prepared to take our own measurement, to live with the facts and comprehend them, to take our own measurement, to take the action, no matter how bold and revolutionary, that reality commands. And in you, favoured by nature and by opportunity, we place our special hope."

11. "I want to get my confession out on the podium here before I see a platoon of Thunder Bay's finest come jackbooting across the stage to haul me away. I am a fraud. I confess it. I have no business wearing this cap or this gown or talking to these other gowned people here today. These people deserve their degrees. They've earned them. They've put in the years of hard work; they've forgone the new car and the dream vacation and the decent digs...spent the money on books and tuition and rent instead. All I'm advising is that before you go if you can't line up maybe some land holding Lakeheader in Port Arthur or Fort William who's willing to rent you a corner of his garage or a bit of his attic. Some place where you could leave a sleeping bag, a fishing pole, a pair of skis... maybe a wasta birch switch for Kangas and book of dinner vouchers for The Hoito - Just a stash for essential items in case you sometime feel an overpowering need to come back here and re-charge."

## What's Behind all the Pomp and Ceremony?

Saturday, May 23, 1992 marks Lakehead University's twenty-eighth annual convocation for the conferring of degrees and diplomas. The word "convocation" means "calling together". It is a ceremonial meeting of the entire university community. On Convocation Day university members and their guests wear special attire based on a tradition that dates back as long as seven centuries ago. The academic costume, also referred to as academic "dress" or "regalia", had its origins in the ancient European universities. The regalia was devised to distinguish academic persons such as doctors, licentiates, masters and bachelors. In the middle ages they were worn as everyday attire. Gowns were a necessity because of unheated buildings and hoods were needed to cover the heads of medieval scholars.

In addition to "earned" degrees, the university confers "honorary" degrees which symbolize the highest honour that can be conferred on an individual by the university. An honorary degree may be awarded in recognition of scholarly or creative attainments or distinguished public service to the country or region. They go to individuals who have been designated by the university's Senate, its senior academic governing body, as deserving special honour. At convocation the degree is awarded *honoris causa*, or "in the cause of honour". A hood is also given to the recipient and it may be worn to any academic affair. Recipients of these degrees become honorary alumni of the University and they may affix, after their names, the abbreviation of the degree.

During the processional and the recessional the Marshal for convocation carries the Mace, a silver wand which is a traditional symbol of the university's authority. This mace was given to the university by the Alumni Association in 1971. It bears the university's motto *Ad augusta per angusta*, Achievement through Effort.

### Jolly Good!

Students from Lakehead University's School of Business met with Nick Foster, Director of the Business Studies program at Sheffield City Polytechnic Institute in Sheffield, England recently. The students have been invited to participate in the new International Student Exchange program between the two universities. Students must have a 'B' average to participate and the agreement is conditional upon receipt of their final marks. From left to right: James Stoppel, Allan Hensel, Nick Foster, Glenn Black and Rita Rocco.



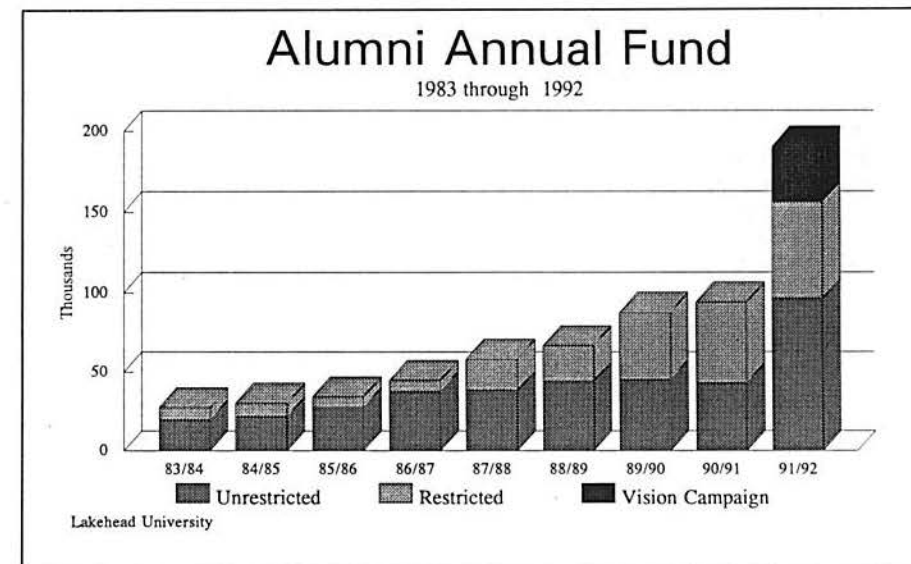
## Departments get dollars from Alumni

by R. Scott Fortnum,  
Manager, Alumni Services

Alumni...past students who are no longer part of the University or have any interest in it? Wrong. The Alumni of Lakehead University are very much involved in the institution in many ways. They provide input and have direct or indirect involvement with many aspects of the university's operation. One of the most visible means by which they support this institution is through direct financial contributions.

Under the direction of the Alumni Association of Lakehead University Board of Directors, alumni support for LU has increased dramatically over the last ten years. Alumni feel a sense of ownership in Lakehead's future. There are many Alumni who are employed as staff and faculty and Alumni volunteers are involved in everything from the Board of Governors to Convocation.

What does Alumni support mean to the staff and faculty? It means a lot. Last year alone there was over \$190,000 given to Lakehead by its graduates. This money has gone to capital projects, special projects or purchases by departments, library



books, handicap access, scholarships, athletics, and special events. Of the money raised over \$120,000 has been designated by the donors directly to departments. This means that the library for example, will have an extra \$20,000 available for books. Nearly every other department has received funds (the allocations committee will advise departments in the fall). This money is over and above operating budgets.

Lakehead University Alumni are proud of this institution, and they consistently demonstrate this every

year. If you run across a grad, ask for their name and address as we lose track of our mobile grads very quickly.

Although they may not be physically present the graduates of Lakehead University are still here, and their financial contributions are felt in all areas. Have you thanked a grad lately?

## Facts About University Education in Canada and How We Pay For It.

- By 2000, half of all new jobs in Canada will require a university degree. But at the current rate of government funding, only one in five children will have a chance to go to university.
- American public universities receive twice the federal research dollars per student as do Ontario universities.
- In 1987, the average salary of a full-time professor at an Ontario university was \$55,000, compared with \$68,000 for a private-sector position of similar education and experience. Lawyers, economists and engineers made an average of \$71,000.
- Ontario universities generates \$3 of economic activity for every \$1 invested by government funding.
- Ontario ranks ninth out of the 10 provinces in terms of grants to universities.

- And the number of jobs generated by university activities in Ontario is greater than the employment impact of the textile industry, the entire paper and pulp industry or utilities.
- University graduates can look forward to earning 63 per cent more than the average industrial worker. A 1990 survey of University of Guelph alumni found that two years after graduation, 97 per cent of Guelph grads looking for work were employed, 62 per cent were earning or more and 10 per cent were earning \$40,000 or more.
- Unemployment rates in 1990 for those with a university degree was about one-third what it was for those with only a high school diploma.

## ALUMNI MIXED GOLF TOURNAMENT

sponsored by  
The Financial Concept Group  
and TRIMARK MUTUAL FUNDS

Sunday, July 19, 1992  
Thunder Bay Country Club  
12:30 pm Directions and meet your team  
1:00 pm Tee-off Time - Shotgun start  
\$35.00/person includes green fees and BBQ supper.

Cash bar and prizes

For further information call the Alumni Office: 343-8155

## Forum

*Dr. Ed Broadbent was appointed President of the International Centre for Human Rights and Democratic Development in 1990. Brought to campus by the Department of Sociology through Dr. Terry Hill, left, and Chairman Dr. Raoul Ruiperez, Broadbent spoke before a large and appreciative audience about "Human Rights and the North American Free Trade Agreement". With his kind permission, the final portion of his speech follows.*



Instead of ignoring human rights, I believe the three governments involved in the negotiations for a proposed North American free trade agreement should seize the occasion as an opportunity to improve the rights situation throughout the continent. This positive approach could be a key instrument in uniting our populations, instead of turning them against one another. The governments should show leadership by explicitly dealing with rights. Canada, in particular, should now take the initiative. In doing so, our government would be consistent with its foreign policy of promoting human rights elsewhere in the world.

The trade agreement has human rights implications, whether or not the governments explicitly acknowledge this.

The reality is that North American continental economic integration will necessarily bring the political cultures of Canada, the U.S. and Mexico closer together. The reality also should entail frank recognition that there is considerable disparity between Canada and the United States on the one hand and Mexico on the other when it comes to human rights and democratic practices.

Certainly there are human rights problems in all three countries. However, despite recent signs of progress, Mexico continues to have the worst record of the three. The titles of recent human rights reports about Mexico clearly illustrate the problems: Torture with Impunity (Amnesty International), Unceasing Abuses (Americans Watch), The Press and The Perfect Dictatorship (Canadian Committee to Protect Journalists). There is extensive documentation on how Mexican government and military officials have not been prosecuted for their human rights abuses, on electoral violence and fraud, as well as violation of the constitutionally guaranteed right of workers to organize independent unions.

It is worse than patronizing to assume that Mexicans should continue to accept poor wages and working conditions as a cheap labour pool for Canadian and US investors and ignore

the violation of those rights that are relevant to this condition. If negotiators want to encourage the mobility of capital, they must also encourage mobility of related labour rights. At the very least, for example, Canadian and American companies should have to respect basic and universally recognized rights, including the right to form a union of one's choice, in their employment practices. This should be done in principle in the name of rights protection. However, respect for these rights could also help to increase the 54 cent per hour minimum wage and the health standards of the maquiladoras that are being used to attract investment away from one region to another, matters of quite legitimate concern to Canadian and US workers. To use the jargon of trade negotiations: a level playing field must include a common foundation of certain key rights.

It would be more than unfortunate for the three countries now negotiating a free trade deal to miss this opportunity to address human rights concerns. Until they are satisfied that norms compatible with what their citizens take for granted are met, Western European governments refuse to integrate their economies with other states. Governments in North America must show no less concern for our citizens.

The negotiators of the Free Trade Agreement should consider many options in dealing with rights.

The strongest option is to include within the body of the agreement a minimal set of key rights, which would be implemented with the same rigour as its economic provisions. A weak option, which I do not recommend, would be simply to put such rights in the preamble in the final agreement. Such a preamble might lack binding legal force. However, it would carry considerable moral and persuasive force. Such an approach would at least ensure that human rights win a foothold in the agreement and would certainly be used domestically by political parties and human rights groups committed to higher continental standards.

In the minds of many Mexicans, however, the key human rights issue is not the need for new declarations, but implementation of already extant domestic and international safeguards. To help meet this need, a third option would be to establish an independent monitoring agency with a mandate to examine how workers' and other rights are affected by the trilateral trade agreement.

Such an agency would consist of lawyers and human rights experts appointed by, and reporting to, the legislatures (not the governments) of the three countries. It would produce an annual report which would highlight the progress and gaps in safeguarding rights in the context of the trade agreement. The agency's findings could have considerable influence on the three governments, each of which is sensitive to domestic and international opinion on human rights.

This agency would on an annual basis publicize the respect paid to the right to health and safety conditions of workers in all three countries. It could make suggestions on how and when to improve such standards and in what countries. It would address the issue of the respect shown to ILO countries. It could comment on whatever affects it deemed the trade agreement to have on the whole family of human rights. Finally, it might even propose a schedule of upward harmonization of rights standards to be implemented by political agreement by the three governments.

Canadians, Americans and Mexicans have a deep interest in seeing human rights flourish. Given the choice, they would want rights included in the NAFTA. This treaty is the ideal opportunity for our governments to illustrate that they agree, that they understand that when it comes to human dignity based on rights no nation is either sovereign or perfect. Each government has professed its commitment to the supremacy and universal importance of human rights. Now is the time to deliver on that commitment.

## From AUCC Notes

### Did You Know?

The recession has hit people without a university education hardest. Employment among people with university degrees rose by 4.1 per cent in 1991, the largest increase of any group. The only other increase was a 3.8 per cent gain for people with some postsecondary education. The number of jobs for people with a high school diploma fell by 0.8 per cent while for people with only some high school education, jobs dropped by 5.5 per cent. Source: Canadian Economic Observer, February 1992, Statistics Canada.

### More than just Numbers

The Canadian Committee on Women in Engineering has released a report that examines the underrepresentation of women in that profession. AUCC helped to establish the committee in February 1990. The report, entitled "More than just numbers", says attitudes must change if women are to be attracted to engineering. Last year only four per cent of registered professional engineers in Canada were women, even though there are no physical or intellectual barriers preventing women from entering the profession. The report makes recommendations covering the cultural climate for women engineers, their education and training, the workplace, environment and role of the engineering associations in promoting the advancement and professional standing of women engineers. To order a copy in French or English contact: faculty of engineering, University of New Brunswick, P.O. Box 4400, Fredericton, NB E3B 5A3. (Cost \$25.00 including GST and handling).

## Last Writes

by Katherine Shedden

The following poem arrived in the mail last week. It's funny and brave with vicarious images - but I still see Homer Simpson jogging through the campus - eyeballs rattling.

### Withdrawal

Today I must coat my fleet skis with graphite  
and rack them overhead in the attic.  
All summer I'll hear them bleat  
for the notched fit of boots.

Today I must inspect my golf cleats  
for rust, ask my shoulders to hinge  
in a new plane after a season of stabbing.  
I shall think of the ball, not the horizon,  
put away vision poured like syrup  
in the blonde forest, the caw  
of one lone crow serrated against silence,  
that click of your own poles on crust  
or wind flicking scraps of bark on a birch  
which might be another skier approaching.  
(You stop, hear the drone of a distant plane  
become the hum of your own eardrum.)

Today I must put on runners to thump cement,  
say goodbye to the tight girl in lycra  
I've chased all winter in the fast track,  
snapping my teeth at her shining haunch,  
the damp patch spreading from the small of her back.  
But she seems too shy in today's bright sun  
to say a decent goodbye  
as I clump past in baggy sweats,  
eyeballs rattling noisily in my head.

Claude Liman

*Remember the months of agonizing about how to deal with a projected university deficit of about \$1 million? The task force on funding, including members of "Unity", LUFA I & II, non-union representatives, are still hard at work considering more*

*than 200 suggestions that were received from university employees. In order to avert layoffs members of the task force looked at every idea submitted - here is a summary of cost saving suggestions.*

### Budget Adjustment Recommended or No Change to Existing Budget

Reduce printing costs (many suggestions)  
Restrict travel for administrative purposes  
Pare down special events (ie. Convocation, Christmas party and other University functions)  
Energy (several suggestions)  
Income generation (various)  
Mail  
EAP  
Staff training  
Grounds maintenance  
Dean's office  
Sell Cornwall School  
Enrolment (more or less)

### Further/Future Discussion

Remove English courses for non-English programs  
Unpaid holidays  
Eliminate Forest Technology  
Reduced hours (unpaid)  
Fund raising allocated to departments - offset budget  
Athletics  
Reduce electives

Spring and Summer programs  
Teaching loads, grad assistants & other part-time academic costs  
Scheduling of classrooms  
Staff reductions by attrition  
Non-maintenance work orders  
Early retirement plans (staff)  
Artwork rental  
Learning Assistance Centre  
Thunder Bay Symphony rent re house  
Academic Plan related matters  
Student evaluations undergrad program reviews  
Avoid course duplications  
Courses for special populations when numbers are small

### No Further Budget Consideration at This Time

Adjust academic year  
Fund raise for deficit  
Student pay facility fee  
Better buying  
Parking fees  
Zero-base budgeting  
Lottery  
Distance Education  
Continuing Education

Co-operative Education  
Reduce administration  
Advocate offices  
Use Engineering faculty instead of outside consultants  
President's house  
Loan faculty to over-utilized departments  
Charge rent for the Agora  
Bookstore profit  
Take over Food Services  
Security for President's house  
Lease land for commercial operations  
Lease gas station for gas sales  
External reviews be made public  
Raise admission standards  
Size of Senate  
Loans to students  
Overtime (avoid paying)  
Various collective agreement issues  
Job reductions in various areas (not own area)  
Donate back consulting fees (50%)  
10% levy on Pub sales  
Fitness testing to general public  
Student surcharge for vandalism  
Increase inventories in Bookstore  
Impose lab fees

## Campus Calendar

To include your Department's event or activity in the Campus Calendar, please call the Information Office at 8300 or mail your information to SN1002. Deadline for the June Agora is June 1, 1992.

### Thunder Bay Art Gallery

**May 15 - July 15**  
PIMAATISIWIN: QUILTS BY ALICE  
OLSEN WILLIAMS  
Organized by TBAG

**May 15 - June 14**  
THE GREAT CANADIAN QUILT  
RENDEZVOUS NATIONAL JURIED  
EXHIBITION  
Organized by the Thunder Bay Quilters  
Guild in conjunction with the Canadian  
Quilters' Association and TBAG.

## MAY

### Wednesday, 20

Brown Bag Series  
Speaker: Tim Cullen, Sociology  
Graduate Student  
Topic: The Indicator of Fear of  
Victimization Among the  
Urban Elderly  
10:00 am - Noon, Ryan Building 3023

### Friday, 22

#### Convocation Eve

7:00 to 9:30 pm, Faculty Lounge.  
An opportunity for students & their  
families to mingle with Alumni leaders,  
faculty, staff, administration, and  
special guests.

### Saturday, 23

#### Convocation

Morning Ceremony  
9:30 am  
Afternoon Ceremony  
2:30 pm

### May 27, 28 and 29

Rendezvous '92  
International Great Lakes St. Lawrence  
Mayor's Conference  
Place: Airline Motor Hotel

## JUNE

### June 3, 4 and 5

The Lakehead University Gerontology  
Study Group and N.E.C.A.H. are  
presenting a Northern Educational  
Institute:  
Subject: Case Management with Older  
Adults: Meeting the Challenges of  
the 90's  
Place: Health Sciences Resource Centre  
Information: 343-2126 or 343-2127.

### Thursday, 4

**Public Lecture**  
Speaker: Dr. Robert Applebaum,  
Professor, Research Fellow, Scripps  
Gerontology Center, Miami University,  
Oxford, Ohio.  
Subject: Case Managed Long-term Care:  
Past, Present and Future Challenges  
Time: 7:00 pm to 8:30 pm  
Place: Ryan Building, 1042  
Free of charge for participants of the  
Northern Educational Institute on Case  
Management - \$5.00 for all others.  
This lecture will be followed by a  
reception in the Faculty Lounge.  
For further information contact: Heather  
Hopkins at 343-2115 or 343-2126.

### Wednesday, 17

ALUMNI ANNUAL GENERAL  
MEETING & VOLUNTEER  
RECEPTION  
Faculty Lounge - 7:00 pm

### Friday, 19

FOURTH ANNUAL MAINTENANCE  
CHOICE GOLF CLASSIC  
First Tee Off: 2:30 pm  
Place: Emerald Greens  
Price: \$30.00 until May 22  
\$40.00 after May 22  
Cut-off date - June 3  
Return to L.U. Pub after golfing for  
steak supper and awards.  
Supper at 7:00 pm.  
Price includes green fees, steak supper,  
prizes and fun!  
Entries may be paid at new maintenance  
building.

## THE CHANCELLOR PATERSON LIBRARY

### SPRING SESSION HOURS

May 4 to June 17  
Monday to Thursday - 8:00 am to  
10:30 pm  
Friday - 8:00 am to 9:00 pm  
Saturday - 11:00 am to 5:00 pm  
Sunday - 1:00 pm to 9:00 pm

### GREAT CANADIAN

## RENDEZVOUS FESTIVAL

July 10 - 19, 1992

## Agora

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219