



AGORA

Special Moment



The Chancellor's Medal for the highest ranking part-time student was shared this year among three hard-working students. Derek Britt (BSc) agrees with Hendrika Shuurhuis-Schonberger(BA) and Dorothea Keats(BA), the women with whom he shared the award, "it certainly is a juggling act." In addition to full-time jobs and their courses, Britt and Schonberger both had family additions in the past year. 'Henny' (shown right with her husband Professor Vincent Schonberger) works full-time as secretary in the Department of Languages and Derek is a forester at Abitibi. Both stressed that obtaining the degree is possible only with the support of family and friends. "Something has to give - time with the children, a social life - but you know you are all in it together" said Derek who recognized that support by giving his medal to his son, his diploma to his mother (he's the first university graduate in the family) and a ring to his wife.

What are their long-term plans? There is a good chance Derek will be going back to school this fall and Henny will decide after her summer vacation visiting family in Holland.

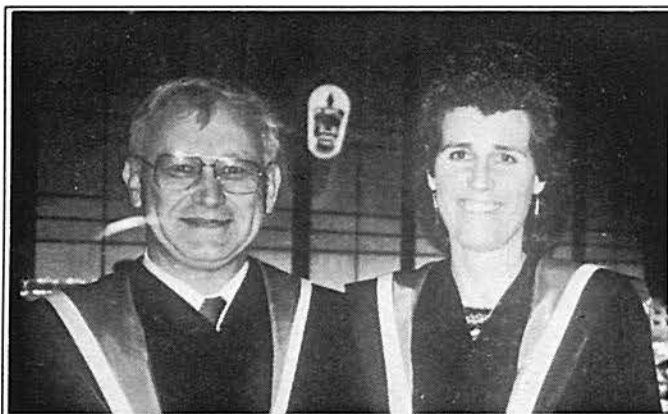
LU STUDENT ENGINEERS WIN SUPER MILEAGE COMPETITION

Congratulations to **Dr. Seimer Tsang** and students **Chris Duchene, Peter Decoo and Gunter Lehnert-Thiel**. Their fuel efficient vehicle, **MACHINA ULTIMUS**, won first place at the Society of Automotive Engineers' 1993 Super Mileage Competition held in Michigan on June 4 and 5th.

After their win, the students went on to compete in another SAE Competition in Sacramento, California, on June 20th and placed first out of eight competitors. They were the only Canadian entry to participate in the west coast event. Their car ran 1,478.4 miles on one gallon.

Last year the Lakehead University students won the now-defunct Shell Fuelathon with a vehicle with a fuel economy of 1,422.5 miles per gallon of gasoline.

According to Dr. Tsang, the students who stay on to participate in these annual competitions do so at considerable personal cost. LU's entry was made possible thanks to many local and national sponsors. See team photo on page 4.



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SOCIAL CONTRACTING

The saga continues with no predictable end in sight. Our fiscal target is expected by the end of June along with our other grant information, and it is now our expectation that we may finalize the University's budget by the end of July.

The proposed Government Bill is sweeping in its impact. Surprisingly, it does mandate both local and provincial sectoral tables, and I suspect this could be problematic. After the so-called fall safe date of August 1, 1993, the proposed Act gives employers sweeping power to effect savings. There are major encouragements including a 20% discount in the fiscal target provided a local agreement is achieved by August 1, 1993. Two informal meetings of the Labour/Management Committee have been held recently to discuss this matter and, as well, the Task Force on Funding has considered a preliminary budget scenario. Once the fiscal numbers are available, I think we are poised to get on with the task.

VOLUNTARY VACATION TIME

After our successful program last year, several employees have requested additional voluntary leave time this year, and I am supportive of such requests. It is too early in our budget/social contract process to say that this could be a feature of any local agreement, but it is an obvious option.

There has been concern raised in the past by some employees who have had management resistance to requests for unpaid leaves. Management has been directed to grant appropriate requests for unpaid leaves. If, for any reason, there is a problem, please refer it to either Vice-President. Should there be a continuing problem, the case should be referred to me. In order to give encouragement for additional voluntary leaves, any required benefits will be paid and the University pension contribution would be made for up to one month of additional leave per year. Anyone interested should contact Mr. Bill Bragnalo in Human Resources.

CONGRATULATIONS TO LIBRARY

The Canadian Library Association Award for Achievement in Technical Servicing has been awarded to the Bibliographic Processing Department of the Lakehead University Library in recognition of the innovation and success shown during our major retrospective conversion project. Congratulations to all involved. Ian Dew will accept the award at the annual general meeting on June 18, 1993.

PICNIC

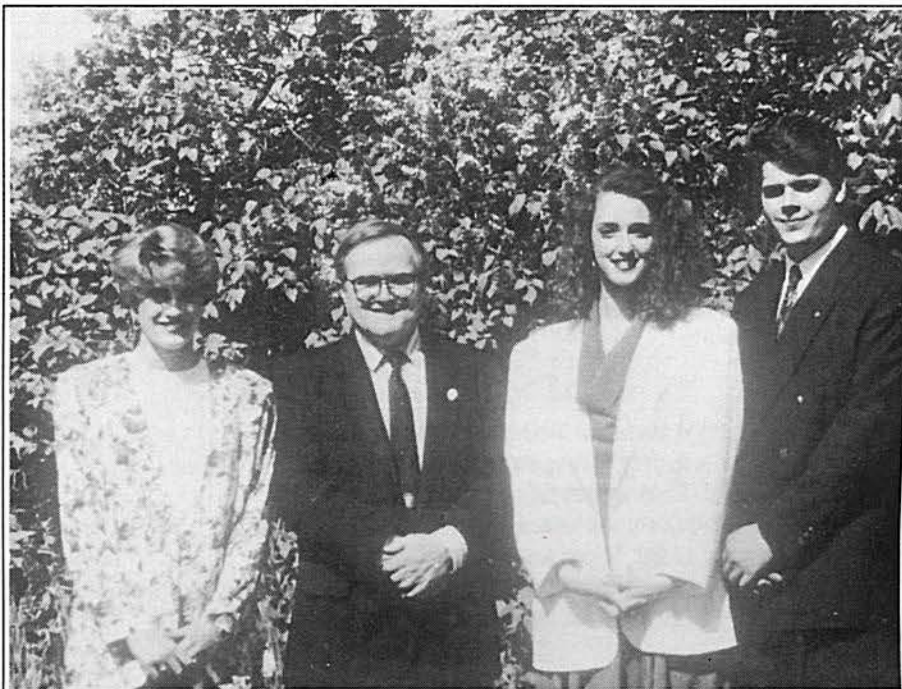
Lakehead University Community Council is happy to announce that in spite of financial cut backs the seventh annual summer picnic will be held on Sunday, June 27, 1993. Versa Foods has generously offered to provide food and refreshments. All events will commence at 12 noon at the Fieldhouse. Don't forget to fill in the survey that was circulated to all employees and return it to the switchboard by June 22

GOLF TOURNAMENT

For those of you who enjoy a good game of golf take note of two events coming up: the annual Maintenance Choice Golf Tournament on June 25th and the Alumni Association's annual Mixed Golf Tournament on July 18th. Thanks to all the volunteers who organize these events and to the businesses that donate prizes

SAFE SUMMER

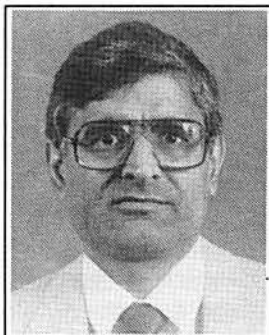
And finally, for those heading off with family and friends for summer vacations, I hope you will have an enjoyable and relaxing holiday. I would also like to remind you to have a safe summer – Drive carefully and arrive safely.



"It's gratifying when some of the top scholars are 'homegrown' says Dr. Bob Rosehart shown above with Presidential Scholarship winners Tracy Allan, FWCI, Scott Styles, Hillcrest; Donna Marie Baratta, Hammar skjold, won the Alumni Entrance Scholarship.

TIP OF THE HAT TO LU's TOP ENTRANCE SCHOLARS

NEW FACULTY ASSOCIATION PRESIDENT



Dr. Birbal Singh from the Department of Mechanical Engineering is the new President of the Lakehead University Faculty Association (LUFA). Dr. Singh has been at Lakehead since August, 1987, and in addition to teaching a variety of courses in manufacturing, engineering, robotics, and engineering mathematics, he has maintained an active research program in the area of oil sands

technology. Dr. Singh has received research grants from the Natural Sciences and Engineering Research Council of Canada (NSERC), Energy, Mines, and Resources, Canada, and the Imperial Oil University Research Grants Program. Dr. Singh is also a Board Director of Innovation Ontario Corporation, and a Trustee of the Thunder Bay Public Library.

Birbal's wife, Indira, is the Manager of Planning and Systems for the Northwest Area Office of the Ontario Ministry of Community and Social Services. They have two children, Anil and Sarita, both students in the Faculty of Medicine at the University of Alberta.

ANTI-RACISM PROJECT

by Dr. Robert G. Rosehart, President

In November of 1992 the Anti-Racism Working Committee at Lakehead University received funding towards a project designed to focus on the issue of anti-racism and to begin development of an anti-racism policy. During the terms of the project a series of focus groups were held in which students, faculty, staff, and administrators came together to share perceptions and experiences around the issue of racism. Out of those groups we learned a great deal about what we, as a university community, can do to ensure that all persons are treated with consideration and understanding of their uniqueness.

The focus groups emphasized specific areas of concern at Lakehead and out of these the Committee identified five priority areas. The first is the need to complete and implement an Anti-Racism Policy. Working through the drafting of such a Policy will encourage the Lakehead University community to look objectively at how we can achieve our goals and how best to develop a commitment on the part of the entire University to a racist-free campus.

Secondly, the issue of racism needs to be a mandatory part of the orientation of new students. The Committee identified ways of integrating this objective into the fall orientation sessions, but the long-term suggestion of the Committee is the development through Senate of a half-credit, mandatory course, for all students designed to

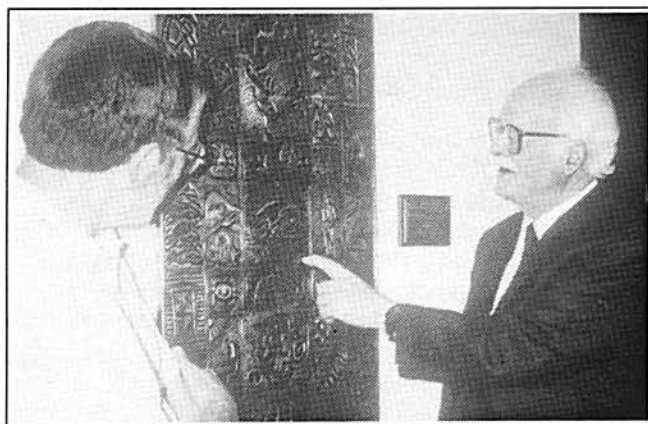
familiarize them with the issue and, hopefully, to help them understand their rights and responsibilities relative to being good university citizens.

Thirdly, we hope to develop a mechanism whereby all new faculty and staff will have an orientation to the issue of anti-racism as a condition of their employment. This might take the form of a short seminar held whenever sufficient numbers of new employees, say five, have been hired, or it might be a short video shown to individuals as part of the hiring process. Knowledge of this area could be part of the interview process. However it evolves, this is an important way to communicate to all new staff and faculty our commitment to tolerance, understanding, and a positive climate for all individuals who make up our community.

Fourthly, we will be exploring with LUSU ways of enhancing the knowledge of students around issues of racism. And, fifthly, ongoing efforts will be made toward increasing the level of awareness of all members of the Lakehead University community. It is important that each person is aware of the responsibility to contribute however possible to eradicating racism on our campus. Some areas will take time to evolve, but in the meantime we can all contribute by taking advantage of workshops and information distribution designed to increase our awareness, and by ensuring that, in our own behaviour, at all times we are sensitive to the issues surrounding racism. As well, we have a responsibility to provide leadership in the broader community of Thunder Bay and region on this important issue.

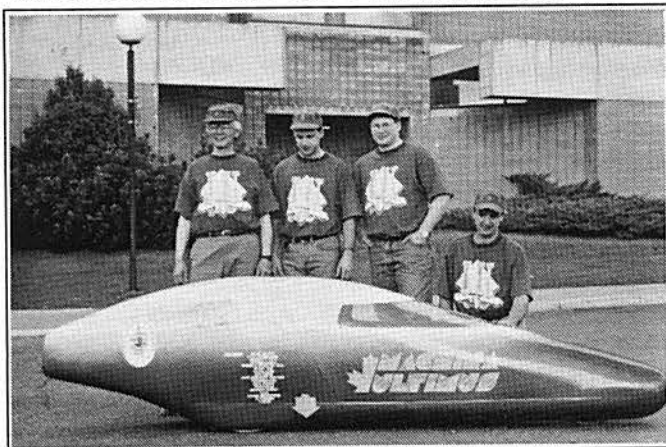
On behalf of LU, I would like to thank the project coordinator, Linda Pisco, for her work on this project. A good start has been made but much remains to be accomplished.

IN MEMORY OF ANN MACDONALD

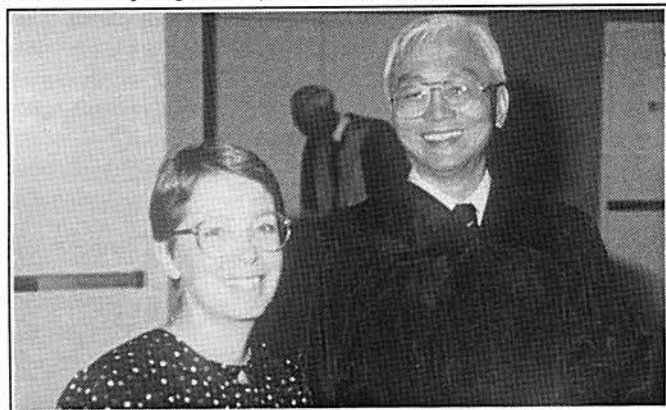


Director, Allan Bowd and Mr. Clark MacDonald admire **Panel in Copper** on display in the Main Office at the School of Education. The Panel was a class project of Fine Arts Instructor Ann MacDonald and given to her in appreciation by its creators - the members of the first Native Teacher Education class. Ann MacDonald was the Instructor of Fine Art at the School of Education during the 1970s. When she passed away last February her husband Clark donated the panel to Lakehead University where it now hangs in her memory.

MACHINA ULTIMA AND THE WINNING TEAM



Above, Dr. Seimer Tsang, Chair, Mechanical Engineering, with engineering students Chris Duchene, Peter Decoo and Gunter Lehnert-Thiel. Below, he managed to also fit in Convocation ceremonies the day before the team left for the first competition. Perhaps he was trying to get a few investment and fund-raising tips from honorary degree recipient Judith Maxwell.



LITTLE RED READING SOCIETY

On May 6 the Little Red Reading Society held a series of lectures on Aboriginal women and the Canadian educational system at Lakehead University.

The four guest speakers were Aboriginal women who had come from as far away as the Western Arctic to share their experiences within the educational system and to reveal many of the difficulties which they faced as Native women in trying to pursue an education. Guests included Olive Patricia Dickason, Professor Emerita from the University of Alberta, Priscilla Settee and Wendy J. Whitecloud, both coming from the University of Manitoba in Winnipeg, and Ethel Blondin Andrew, the Member of Parliament for the Western Arctic and Liberal Critic on Aboriginal Affairs.

As the number of Aboriginal students and faculty increases at Lakehead University and the field of Native Studies expands, the ties which the Little Red Reading Society and its lectures creates with prominent Aboriginal figures in other academic and political institutions in Canada should be seen not only as a benefit to specific individuals of Aboriginal descent, but also to the entire university community.

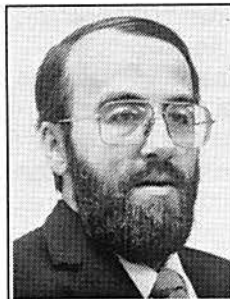
— Laura Jamieson

NEW BOOKS

STAR WARS IN CANADIAN SOCIOLOGY

Exploring the Social Construction of Knowledge
published by Fernwood Publishing, 1993

by Dr. David Nock
Professor of Sociology
Lakehead University



The book explores the idea that what we accept as knowledge has as much to do with the social and cultural location of the researcher as with direct observation of any object. The traditional theory of positivism holds that the world for research is entirely outside the scientist and that knowledge appears externally to the researcher as if scientific

"facts" were like pebbles on a beach, just waiting to be picked up. However following modern theories of epistemology, this book holds that what we produce as knowledge is always achieved as a balance between our own social location and the external world itself. Theory and analysis are not abstractions; they evolve out of social conditions.

The book explores these ideas with a number of case studies featuring prominent Canadian sociologists such as S. D. Clark, John Porter, Robert Brym, Bonnie J. Fox, Robert Stebbins, and others. In each case, specific social and personal factors are shown which explain how the actual research and writing of the authors were affected. In the case of S. D. Clark, his childhood background growing up in Alberta in the 1920s and 1930s in an environment of rural unrest and political protest coloured his interpretation of historical movements as far back as the 1640s. John Porter's views on the Anglican Church of Canada and underdevelopment in Quebec before the 1960s were affected by his belief that economic development was not compatible with the residual semi-feudal values of the British Empire out of which Canada had emerged. The work of many sociologists (such as Brym, Fox, and Stebbins) is very likely to show regional limitations in that authors from a specific region are very likely to overlook, in an unconscious selection process, the contributions of sociologists from their own region.

Drawing upon theory of the last thirty years, the author doubts that such interaction effects of the object being studied and the researcher can be avoided. This had been the dream of the older positivistic theories, that any influence of the scientist on his or her subject could be avoided. Today many are likely to conclude with the doctor-scientist Ludwik Fleck that "every epistemological theory ...that does not take this sociological dependence of all cognition into account in a fundamental and detailed manner" is likely to be deemed trivial.

— David Nock

CONTRIBUTION TO TEACHING AWARDS

Ask the faculty members who received the LU's Contribution to Teaching Awards this year what their biggest challenge is and you will get four very different answers!

For Dr. Jeanette Lynes, the secret is to make a connection with the students. "They keep getting younger," she says jokingly, "so you have to be aware of their special concerns, their 'culture'".

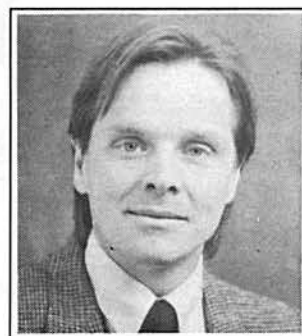
This award was Dr. Lynes' first award for teaching and she says she feels encouraged. "You are always trying to improve as a teacher," she says "and this kind of recognition encourages you to keep striving."

Increased class size is a serious concern of Dr. Lynes' as it is with Dr. Kim Fedderson. Both feel that class size affects the quality of teaching. It is harder to find time to maintain individual contact when there are more and more students in the class and more and more papers and exams to mark. For Dr. Fedderson, the challenge is to seize what he calls those "teachable moments". "You prepare and go into the classroom with a clear plan," he says, "but you have to be flexible and open to revise that plan if necessary."

How does he balance teaching and research? By finding 26 hours in a day! "Teaching should complement research," he states, "and you must find time for both."



*Dr. Jeanette Lynes,
Assistant Professor,
English*



*Dr. Kim Fedderson
Assistant Professor
English*

For Dr. Darlene Steven, the trick is to involve students in their own learning. She listens to what her fourth-year nursing students say when asked the question, "How can we do this better?" It's a must she says because her classes are made up of adult learners with many years of experience as well as younger students. "I try to relax, learn from others and enjoy the classroom setting. Teaching should be fun."

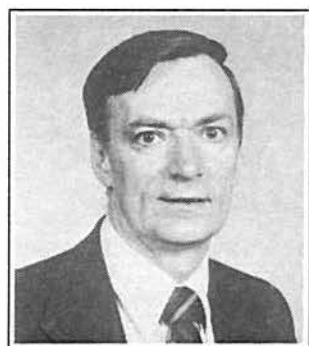
The contribution to teaching awards were established by Senate to recognize high levels of teaching performance. Up to six awards may be given annually (three to professors in each faculty of Arts and Science and Professional Studies). With each award comes a nominal cash prize of \$100.

Nominations are made by groups of at least five students who are asked to respond to specific questions.

In the students' letter nominating Dr. Jim Haines they noted his willingness to give that "little bit extra". "I can honestly say I look forward to every day at work," says Dr. Haines. "I never teach the same course twice and I wish the students I've had could come back to critique my changes."

The chair of the Senate Committee on Teaching and Learning, Dr. Moira McPherson, says the awards are a way to honour the great teachers we have here at Lakehead. "As more and more students become aware of the awards," she says, "the profile of the awards is bound to increase."

--Frances Harding



*Dr. Jim Haines,
Associate Professor,
Education*



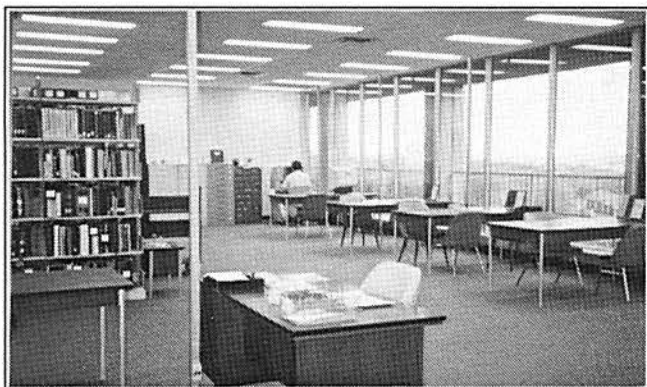
*Dr. Darlene Steven,
Associate Professor,
Nursing*



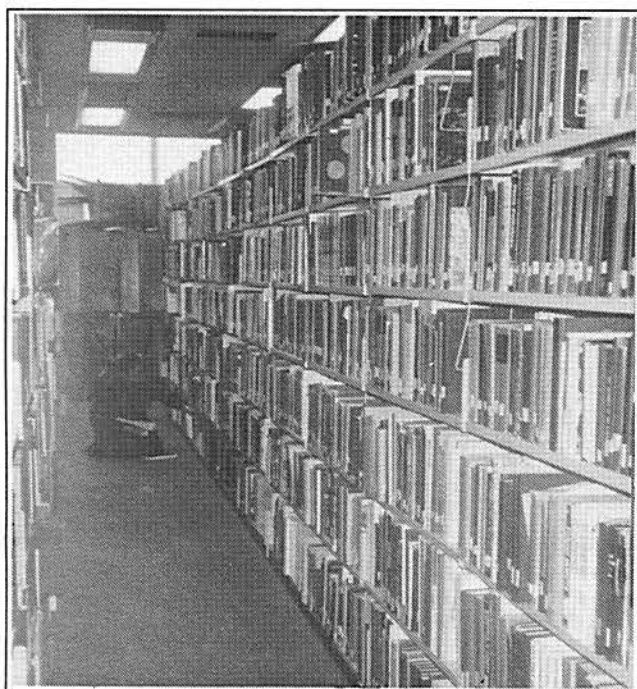
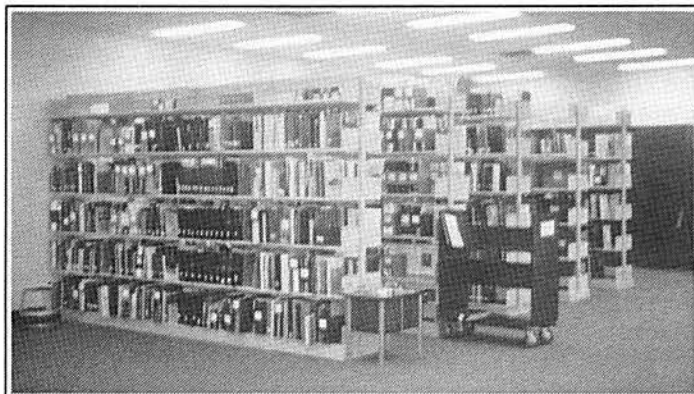
The Mackenzie Expedition is less than two months away from the culmination of the five year project. The expedition left Peace River, Alberta on May 16 and has performed their Stay-in-School roadshow for almost 40,000 adults and children. On May 30 the expedition crossed the border into British Columbia and paddled the mighty Peace River - battling the strong current and the rainy weather. According to Jim Smithers, communities have been overwhelmingly receptive to the band of modern-day voyageurs. One of the big challenges for the expedition will be the major portage around B.C.'s well-known Bennet Dam - a monumental obstacle that did not exist in Mackenzie's day. The Lakehead students will also test their mettle during the 15 day, 350 kilometre trek through the Rocky Mountains on the Alexander Mackenzie Grease Trail. The team will begin the hike July 3. The project ends July 22 at Mackenzie Rock, near Bella Coola, coinciding with the 200th anniversary of Mackenzie's arrival on the B.C. coast.

--Denise Bruley

Library Renovation Progress Report



The Northern Studies Resource Centre is now located on the fifth floor of the library.



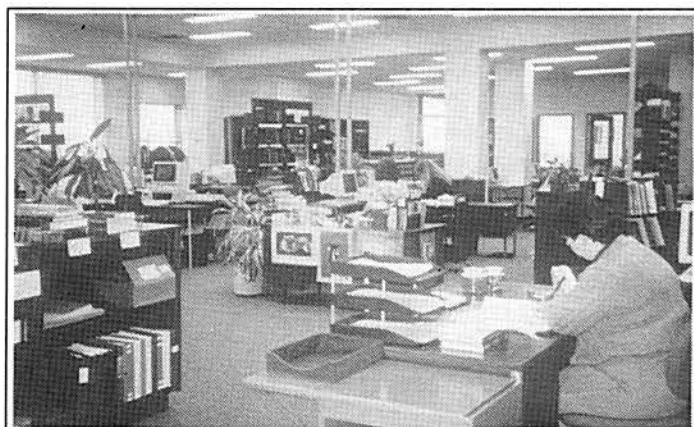
All circulating books are located on the third floor of the Library. Over 250,000 were relocated with minimal disruption to service.

The DOC Collection which used to be housed on the ground floor is now located on the fifth floor.

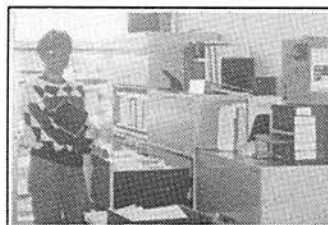
The Library and Information Studies Department has moved to the Ground Floor of the Library.

The Bindery and Mail area have been relocated to the Main Floor of the Library.

If you require any assistance in locating materials during the renovations, please ask at the Information Desk.



The Bibliographic Processing Department has a new home on the fifth floor of the Library. This is where all books and periodicals are received and catalogued.



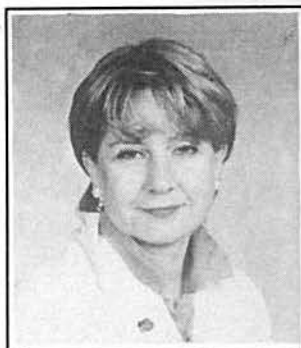
Several offices have been relocated to the fifth floor including the Chief Librarian's, shown left with Secretary Dianne Edmond. Anne Deighton, Head of Collections Development (right), is also on the fifth floor.

DID YOU KNOW?

The Agora is printed monthly (except July and August) and is distributed to 2,000 people including the University faculty and staff, local government, media, business and friends of the University. If you would like your name added to (or taken off) our mailing list, contact Betty Hygaard in the Information Office 343-8300.

FIONA BLAIKIE

Dr. Fiona Blaikie came to Canada eight years ago to paint a portrait of a friend, but found there was a lot more she could do in this country as a researcher, teacher and scholar. First, she completed a Master's degree in education at the University of Victoria and then went on to do a Ph.D. at the University of British Columbia.



Her dissertation: *Assessing senior secondary art in Britain and North America: A comparative analysis of strategies and inherent values*. She joined Lakehead University's Faculty of Education as an Assistant Professor in July, 1992.

Born in South Africa, Fiona studied painting, art history, and English at the University of Cape Town and then spent several years teaching art in Johannesburg and Durban.

Current research interests have taken Fiona back to her homeland. With the help of a SSHRC grant, she was able to examine the different ways art is taught in black and white communities. In fact, she is giving a paper on the subject this summer at the Learned Societies Conference in Ottawa.

Although painting is still important to Fiona, it "is on the back burner now" at least until she can find suitable studio space. "Reading", she says, "takes up a lot of my time now!"

Fiona's interests now are in developing a new concurrent education program for primary/junior and junior/intermediate teachers specializing in Visual Arts (yet to be approved by Senate), and teaching a graduate course this summer in Quantitative Research Methods. She is also very interested in the graduate program at the School of Education.

CAROLINE PASCALL

Originally from Sault Ste. Marie, Caroline Pascall came to LU to study Biology but left the program after two years to work on campus instead.

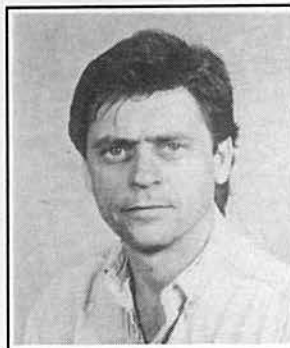
She started out with a part-time job at the Alumni Bookstore. Then in October, 1992, was hired as a full-time mail clerk.

One of the 'perks' to working at LU is the tuition waiver and Caroline intends to complete her degree, one course at a time.

In the meantime, she and her friend Peter, a carpenter, are looking for a house in the country. Both like to get out on weekends to camp and fish and this summer they are planning a trip to Quetico Park. No doubt they will be bringing Snert, their swimming Springer Spaniel.



ALEX BOHLER



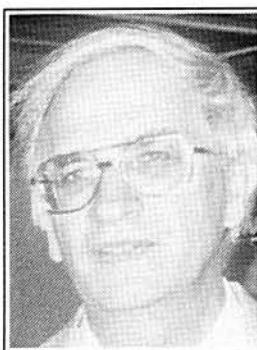
After completing a four-semester course in heating, lighting and air conditioning at Confederation College last January, Alex joined the University to work as a mechanic. As far as he is concerned, he came to the right place. "There is every kind of mechanical system here... from the very old to the state of the art." There is even talk of

Lakehead University generating its own power and that really interests him. Originally from Nipigon, Ontario, Alex worked on road construction and then spent 10 years working at Abitibi-Price. When the plant closed, Alex started an automotive service company called "Enginewity" with his brother-in-law. He still operates the business although he is trying to delegate more of the day-to-day operations so that he can spend more time with his family. He and his wife, Bonnie, have a three-year-old daughter, Hillary.

It is true Alex is not a "stay-at-home" fellow. He likes to renovate houses and, since he finished his last project (a house which he now rents out), he has taken up another life-long interest - the refurbishment of wood and canvas canoes. He has six finished canoes in his garage including his proudest possessions: a 17-foot "chestnut" and a 13-foot "square stern".

IN MEMORIAM

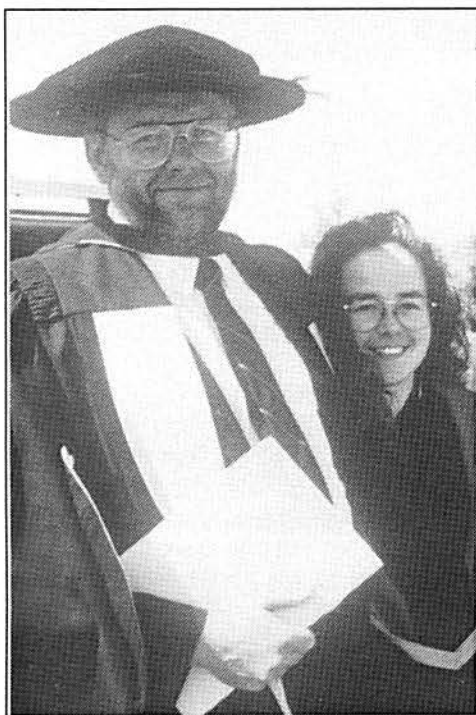
Dr. Donald Francis Power Associate Professor of Education



Described by his colleagues as a quiet, modest man, Dr. Donald Power passed away on June 2, 1993, after a lengthy but courageous battle with cancer. He was 52 years old.

Dr. Power joined Lakehead University in 1972, became an Associate Professor in the School of Education in 1978, and served, for a time in the mid-80s as chairperson of the Pre-Service Teacher Education Program. Dr. Power's areas of interest were History and Philosophy. He completed a Master's degree in History from Memorial University, as well as a Master's degree in Philosophy from U of T and a PhD in Education from O.I.S.E.

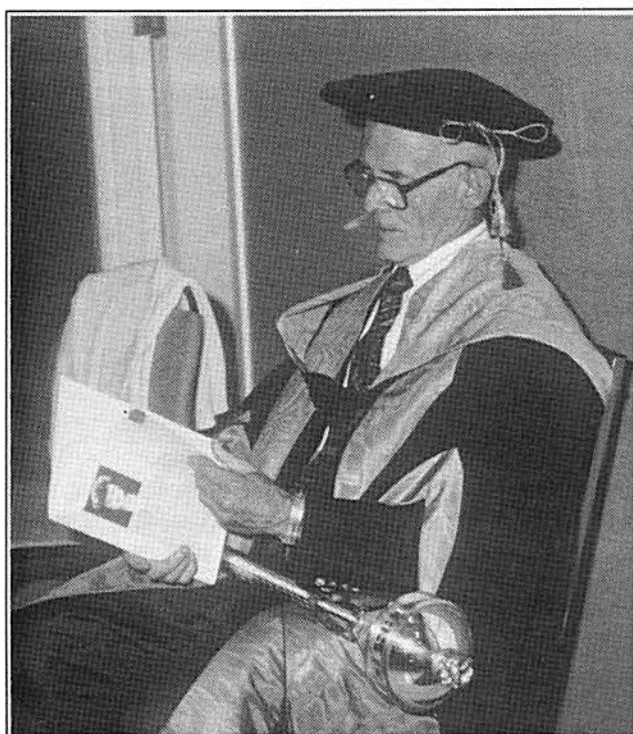
In addition to being active in his parish as a Eucharistic Minister, Dr. Power was keenly interested in Human Rights and from 1984 to 1986 chaired the Human Rights Education Committee. Dr. Powers is survived by his wife Margaret and their four children.



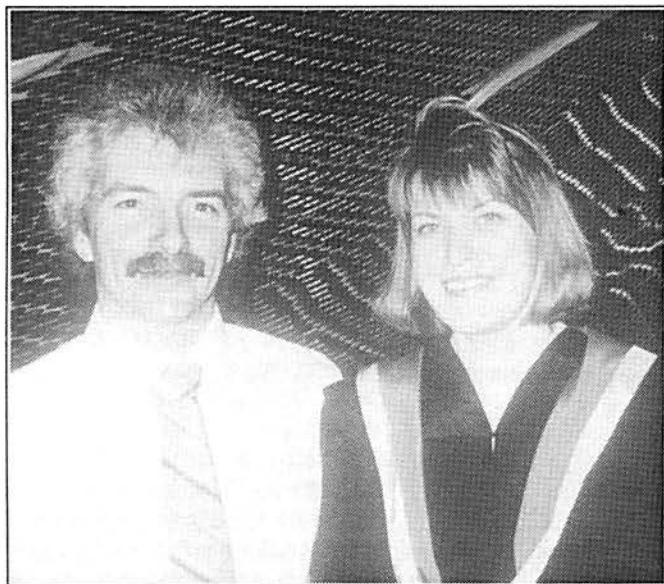
Proud Papa Dr. Alistair Macdonald always attends Convocation but this year he had a special reason - eldest daughter Laurie graduated with first class standing in her Honours Bachelor of Science Program (Biology) and was accepted into the McMaster/Lakehead Occupational Therapy program this fall.



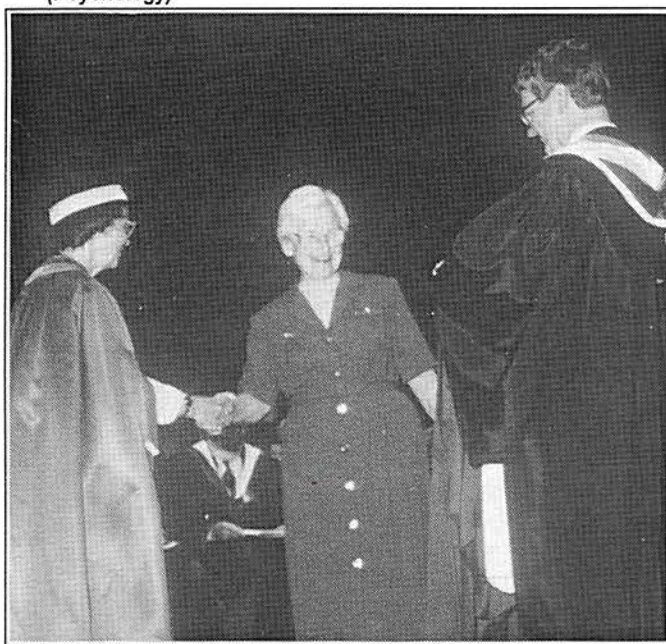
Judy Ward was in "fine" company when she walked across the stage to receive her Visual Arts degree; well-known artist Barbara Sprague was also in her class.



Man with Mace Dr. George Merrill has marshalled the Convocation procession for "at least 15 years." There was a certain amount of nostalgia this year because two of his children graduated: Glenn with his HBA (Sociology) and Lisa with BA (Psychology)

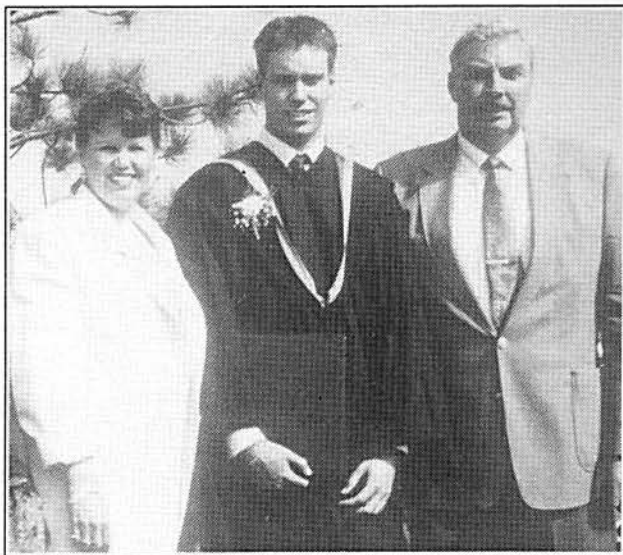


Derek and Sonya Patola seize the moment just before Derek returns to video duties and his wife joins the class of '93 to receive her Bachelor of Education and the Dean's Medal for highest standing in her program.



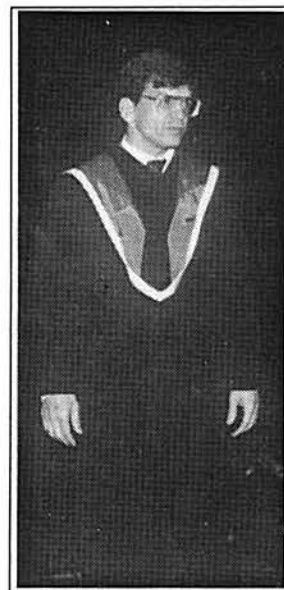
Mary Ann Misner was honoured for her commitment to life-long learning with the title Fellow of the University. She receives congratulations from the Chancellor as the Registrar prepares for the gowning.

This was our largest graduating class in 29 convocations. 1,618 graduates were added to the Alumni roster. Graduates from the Schools of Professional Studies - 843, Arts and Science



Betty and Richard Hygaard are extremely proud of their son Rory who graduated with his Honours Bachelor of Physical Education Degree. The Hammarskjold graduate will pursue his education degree this fall and mom just smiles when asked if that means she may have a few more typing assignments.

The 'quiet degree'. Wrestling coach Francis Clayton never made much noise about completing his degree in sociology which he started as an athlete in 1981. "I admit I was focussed on athletics at that time. It was only as a coach that I started to see the importance of academic success. I had a lot of encouragement from Norm (Lavoie) and my wife. It's a funny thing, but completing my degree and attending graduation became very important to me. I've made a promise to attend my students' graduations." In addition to coaching and plugging away on his degree, Clayton just completed his Level V Coaching Certification Program, making him one of only three in Canada!



Keepers of language heritage: Members of this year's Native Language Instructors Diploma pose for a group shot after the ceremonies.

CONVOCATION SPEECHES ADDRESS THE TIMES

Judith Maxwell, a Canadian economist, received an honorary Doctor of Commerce degree. In her address she spoke about the legacy inherited by this year's graduating class, calling it a "sputtering economy and a society that is struggling to redefine itself." She went on to give the graduates advice about family life, public life and finding a job.

Lyn McLeod received the 1993 Alumni Honour Award. In her speech she talked about the need for life-long learning and recalled her own experiences when, at the age of 40, she returned to Lakehead to complete a Bachelor and Master's degree in Psychology. "We do live a rapidly changing world," she said, "a world in which our future success as a society and as individuals, will depend on the creation of new ideas and the development of our talents and skills."

Lakehead University recognized the contributions of three faculty members at Convocation by awarding each the title "Professor Emeritus".

R. CHARLES S. RIPLEY

Charles Ripley joined the Lakehead University Philosophy Department in 1967 thus starting his second career. He completed his Ph.D. at the University of Western Ontario while serving as Anglican priest in Kerwood, Ontario, a small town near London and, by coincidence, the birthplace of the late Dr. Frank Doan, the first Lakehead philosopher. During his years at Lakehead University, Dr. Ripley served a number of times as Chairman of the Department of Philosophy and as

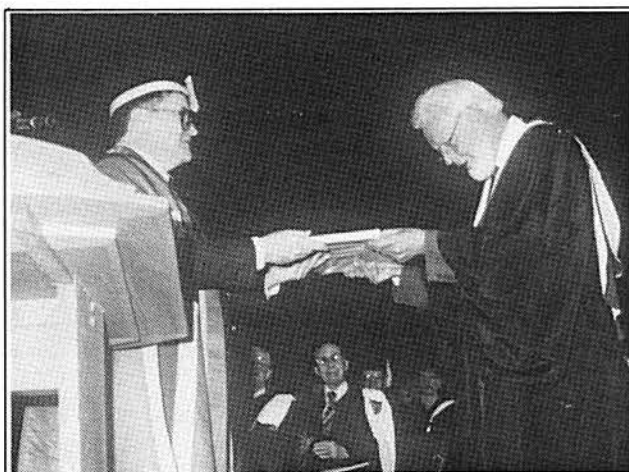
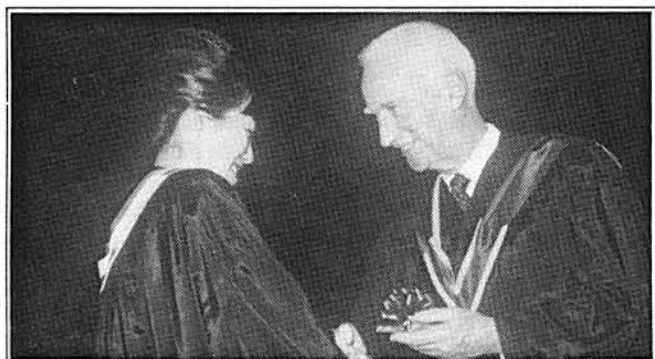
Chairman of the interdisciplinary Religious Studies Program. His research in the philosophy of action and the philosophy of mind resulted in his defence of a version of non-reductive materialism in which consciousness is said to be an emergent property of the physical organism. One of his publications on this topic, which appeared in 1984 in the international journal "Inquiry" won Charles Ripley special praise from Nobel Prize Winnipeg neuro-scientist, Roger W. Sperry. Charles plans to move with his wife, Muriel, to the slightly warmer climate around Waterloo, Ontario.

WALTER RAMSEY CROWE

Walter Ramsey Crowe was appointed to the School of Business Administration at Lakehead University in 1966. Throughout his career he has pursued interests in Business Strategic Management as well as his specific interests in Inventory Management and Health Care Issues.

Dr. Crowe received a Bachelor of Commerce Degree from London University, a Graduate Certificate in Education from Leeds University, a Master of Arts Degree in Economics from Sheffield University, a Master of Education in Educational Administration from Lakehead University and a Ph.D. from Brunel University in London. Dr. Crowe holds the distinction of being a Fellow of the Institute of Chartered Secretaries and Administrators and a Fellow of the Society of Commercial Accountants. He also has the honour of being a Fellow of the Royal Society of Arts.

Dr. Crowe is looking forward to an active and continuing career as an academic as he and his wife Joan relocate to a new home in Owen Sound.



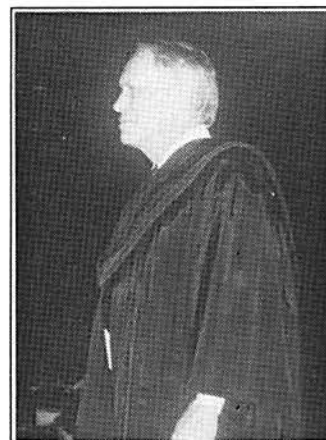
Dr. Robert Rosehart awards Dr. Ripley the title of Professor Emeritus during Convocation day ceremonies.

HAROLD G. CUMMING

Harold Cumming joined Lakehead University's School of Forestry, in July of 1973. During the 20 years prior to 1973, Harold worked for the Ontario Ministry of Natural Resources and its predecessor, the Department of Lands and Forests as the fish and wildlife biologist in the Geraldton District and supervisor of big-game management (deer, moose, caribou and bear) for Ontario.

Harold's research focus, including his doctoral work done at the University of Aberdeen from which he received his Ph.D. in 1966, has been on the behavioral ecology of large-game species and the interaction between wildlife and other aspects of forestry.

Harold was the first, and for the past 20 years has been the only, member of the forestry faculty who is a wildlife biologist. He has made a major contribution to the School in curriculum design and in developing and delivering courses that ensure that wildlife and its habitat are major components of good forest practice. In addition, Harold contributed substantially to the administration and operation of the School. Harold is a certified wildlife biologist of the Wildlife Society of North America.



Dr. John Naysmith presents a Dean Braun Medal to Minh Giang Xuan Nguyen who received her diploma in Engineering Technology.



Homecoming Weekend '93

Recapture the Pride . . . Remember the Promise

The Alumni Association of Lakehead University invites you
to rekindle friendships and recapture university excitement
at the First Annual Homecoming Weekend
October 22-24, 1993.

REGISTRATION FORM

# OF TICKETS	EVENT	COST/PERSON	TOTAL
	1) "Let's Get Together" Dinner Dance (Fri.)	\$22.00	
	2) Lecture /Wine & Cheese #1 (Fri.)	\$3.00	
	3) President's Brunch (Sat.) & Annual General Meeting	included in registration fee	
	4) Basketball Game (Sat.) 	*Alumni: \$3.00/*Guest: \$5.00	

SCHEDULE OF EVENTS

Homecoming Weekend

October 22 - 24, 1993

Friday, October 22

1) "Lets Get Together" Dinner Dance

6:00 pm - 1:00 am

The Outpost (located in the new Student Centre)

Cost for Dinner Dance : \$22.00 per person

Rekindle old friendships at a casual buffet supper in the new Student Centre. Dance the night away to the tunes of the 50's, 60's, 70's, 80's and 90's in the hottest spot on campus! Single dance tickets (\$5.00) will be available at the door.

2) Public Lecture #1 - "The Northern Ontario Economy: Structure, Performance & Future"

8:00 pm - 9:00 pm

Reawaken memories of academic life by attending a lecture by University faculty members from the Dept. of Economics - Drs. W. Jankowski and B. Moazzami & the School of Business - Dr. B. Dadgostar. Explore the unique features of the Northern economy.

5) Post-game Party

10:00 pm - 1:00 am

Following a Norwester victory (we hope!) *reassemble* in the Main Cafeteria at the Post-Game Party. *Return* to the days of your youth.

Cost for Party: Alumni \$2.00, Guests \$3.00

6) Public Lecture #2 - Thesis Research of Graduate Students

8:00 pm - 9:00 pm

Lakehead University now has fourteen graduate programs that offer students an opportunity to engage in original research. This lecture will be a collage of presentations by graduate students on their thesis research.

Wine & Cheese Reception to follow in the Faculty Lounge.

Cost for Reception: \$3.00

Organized by the Dept. of Research and Graduate Studies

Wine & Cheese Reception to follow in Faculty Lounge.
Cost for Reception: \$3.00

Organized by the Dept. of Research & Graduate Studies

Saturday, October 23

3) Lakehead University President's Brunch & Annual General Meeting

11:00 am - 1:00 pm

Main Cafeteria

No Charge

***Re-affirm** your commitment to Lakehead University by taking part in the Alumni Association's Annual General Meeting. A wonderful brunch, courtesy of the Office of the University President, will be offered.*

4) Norwester Basketball Game

6:00 pm - Women's Game

8:00 pm - Men's Game

The C.J. Sanders Fieldhouse (a.k.a "The Thunderdome")

Cost for Game: Alumni \$3.00, Guests \$5.00

***Re-capture** your school spirit and **remember** the thrill of victory when the Norwesters battle it out with Laurentian University.*

Sunday, October 24

7) A Native World View Workshop & Brunch

11:00 am - 1:00 pm

Faculty Lounge

Cost for Seminar: \$10.00

Lakehead University boasts many firsts in its leadership to provide native people with access to postsecondary education and to provide meaningful and relevant curriculum. This workshop will provide you with an opportunity to learn what are some of the distinctive values and world perspectives of native people.

General Campus Tours will be offered throughout the weekend.

Additional information will be provided in the next issue of the Norwester Magazine.

Have an idea about a class or club reunion? Need information about Hotel Accommodations?

Give Homecoming Headquarters a call at (807)343-8155 or fax us at (807)343-8999.

Confirmation of registration and payment will be mailed upon receipt of form.

	6) Lecture/ Wine & Cheese #2 (Sat.)	\$3.00	
	7) Native World View Workshop & Brunch (Sun.)	\$10.00	

REGISTRATION FEE (includes Homecoming commemorative & Brunch) **\$5.00/PER PERSON**

Space is limited for some events! Register early!

TOTAL

**MAKE CHEQUES PAYABLE TO THE ALUMNI ASSOCIATION OF LAKEHEAD UNIVERSITY
OR CHARGE MASTERCARD _____ OR VISA _____**

CREDIT CARD # _____ EXP. DATE _____

NAME (include former surname) _____ DEGREE(S) YEAR(S) _____

GUEST'S NAME(S) _____

ADDRESS _____ CITY _____

PROV _____ POSTAL CODE _____ BUSINESS TEL# _____

**Please retain a copy of the registration form
and return original with form of payment to:**

"HOMECOMING '93"

Lakehead University Alumni Association
955 Oliver Road, Thunder Bay, ON P7B 5E1
Tel: (807) 343-8155 Fax: (807) 343-8999

**REGISTER BEFORE OCTOBER 1, 1993
& Be Eligible to Win the EARLY BIRD
DRAW PRIZE: A Weekend for Two at the
Valhalla Inn, Thunder Bay
Final Registration Deadline:
October 15, 1993**

THE PRESIDENT'S AWARDS

Awards given to the graduating students who have occupied positions of responsibility in the student organizations, and who, by their activities and achievements, have earned the gratitude of the University.

Ian Thomas Fero BA
Rosemary Ann Wilson-Gallant BScN(Hons)
Michelle Lee Gervais BSW (Hons)
Donnie S. Mills BOR (Hons)
Colin Ballantyne BAdmin
Kelly Sue Breutigam BPE(Hons)
Anastasia Elizabeth Kozma BScF(Hons)
David A. Pineau BPE(Hons)
Paolo Antonio Sacchetti BComm(Hons)
Tanya Tougas BAdmin
Karin Vogel BA BOR(Hons) BEd

DEAN OF ARTS AND SCIENCE'S MEDALS

To the highest-ranking graduating students in Arts:

Teresina Fabiano BA
Elaine Sherwood BA ex aequo
Darlene Sandra Flood BA(Hons)
Heather Lynn Hopkins BSW(Hons)

DEAN OF ARTS AND SCIENCE'S MEDALS

To the highest-ranking graduating students in Science:

Lloyd A. Mack BSc
Alexander Karl Juvshik BA BSc(Hons)
Robert Thomas Markewich BSc(Hons)

DEAN BRAUN'S MEDALS

Awarded to the highest-ranking graduating students in the Faculty of Professional Studies.



Lloyd Mack with Dean Gellert

Marilyn Ruth Smith BScN(Hons)RN
Catherine Elizabeth Tresidder BOR(Hons)
Cheryl Marie Ross BA BEd Dipl.Lib. & Info.Studies
Craig Cameron Goodier BEng(Civil)
Minh Giang Xuan Nguyen Dipl Eng Tech
Shane Bradley Vermette BScF(Hons)
Patricia Marie Kleist Dipl For Tech
David A. Pineau BPE(Hons)
Adele Sandra Pugliese B Admin
Tara E. Hatzis BComm(Hons)

WILLIAM A. WEST EDUCATION MEDALS

Awarded to the highest-ranking graduating students in Education:
Sonya Ellen Patola BA BEd

Sherry Lang Hamill BScF(Hons) BEd
Jeffery Peter Muhlethaler BA(Hons)
W.Ont. BEd
Vivian Mabel Thomas BA BEd
Ruby V.M. Slipperjack-Farrell BA BEd
MEd

THE POULIN AWARD

An award for outstanding citizenship to the student selected by her fellows, the Faculty and Administration as contributing most to the welfare of the University through her student activities.

Cassandra Rita Koenen

THE ALUMNI HONOUR AWARD

Awarded to an alumna/us for outstanding achievement in one or more fields of endeavour.

Lyn McLeod MPP HBA '84 MA '86

THE GOVERNOR-GENERAL'S GOLD MEDAL

Awarded to the highest ranking student in the graduating class of the Master's degree.

Jamie Arthur Dyce BA(Hons) MA

THE LIEUTENANT-GOVERNOR'S MEDAL

Awarded to the highest ranking graduating student in the three-year Bachelor's degree.

Lloyd A. Mack BSc

CHANCELLOR'S MEDAL

Awarded (ex aequo) to the highest ranking part-time students in the graduating class of Bachelor's or Honours Bachelor's degree.

Derek Kevin Britt BSc
Dorothea Mary Keats BA
Hendrika Schuurhuis-Schonberger BA

THE GOVERNOR-GENERAL'S SILVER MEDAL

Awarded to the highest ranking student in the graduating class of the Honours Bachelor's degree.

Craig Cameron Goodier, BEng(Civil)

THE GOVERNOR-GENERAL'S COLLEGE BRONZE MEDAL

Awarded to the highest ranking student in the graduating class of the Diploma programs.

Minh Giang Xuan Nguyen Dip. Eng. Tech.



Students backstage with Alumni Honour Award winner Lyn McLeod and Lakehead's first president Bill Tamblin. L-R (back) LUSU President Rob Jamieson, student senators Ian Middleton, Karen Eryou, Laura Beeby and Dr. William Tamblin. Front, MPP Lyn McLeod and LUSU Vice-President Pam Gervais.

APPOINTMENTS

Dr. Yves Prevost, Assistant Professor, School of Forestry, has been elected as International Division Governor of Toastmaster's International for 1993-94 effective July 1. As Division governor, Dr. Prevost will encourage Toastmaster Clubs of Northwestern Ontario and northern Minnesota to grow through the delivery of Toastmaster programs.

Lakehead University Appointments

The following faculty members have been appointed to the position of Chair of their Department:

Arts and Science

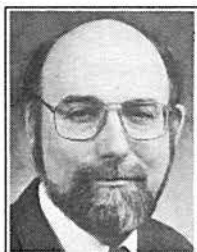
Biology
Chemistry
History
Philosophy
Physics
Political Studies

Dr. W. Momot
Dr. D. Orr
Dr. B. Muirhead
Dr. D. Rabb
Dr. W. Keeler
Dr. S. McBride

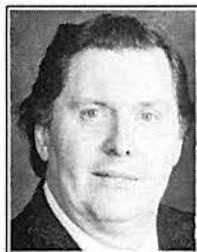
Professional Studies

Grad Studies and
Continuing Education
Civil Engineering
Physical Education

Dr. M.C. Courtland
Dr. C. Johnson
Dr. A. Bauer



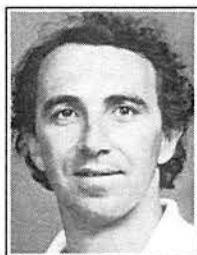
Dr. McBride



Dr. Rabb



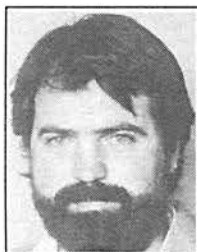
Dr. Momot



Dr. Bauer



Dr. Keeler



Dr. Muirhead



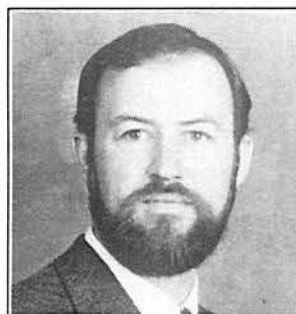
Dr. Courtland

PUBLICATIONS

Dr. I. Nirdosh, Professor of Chemical Engineering has published the paper entitled, "A Natural Convection Mass Transfer Study of the Diffusion Controlled Dissolution of Hemispherical Copper Cavities", in the Journal *Metallkunde*, Vol. 82. The paper was co-authored by Dr. G. H. Sedahmed of Alexandria University, Egypt.

Dr. David A. Nock, Department of Sociology, published his chapter "The Organization of Religious Life in Canada" in *The Sociology of Religion: A Canadian Focus*, edited by W. E. Hewitt, Toronto: Butterworths, 1993, pp. 41-63. He also published "Biographical Truth" in *Boswell's Children: The Art of the Biographer*, ed. R. B. Fleming, Toronto: Dundurn Press, 1993, pp. 33-36. These comments were made as an invited guest speaker at an international conference at the University of Edinburgh on the subject of biography.

Dr. Yves Prevost, Assistant Professor, School of Forestry and Dr. Peter de Groot, Directors of the Entomological Society of Ontario (ESO), recently published a second edition of the directory of entomologists in Ontario titled *Entomology in Ontario*. Copies of the directory are available through the Secretary of the ESO, Faculty of Forestry University of Toronto, 33 Wilcox Street, Toronto, ON M5S 3B3.



Dr. Peter N. Duinker, Associate Professor/Chair in Forest Management and Policy announces the publication of three papers: *Beyond Dispute: Collaborative Approaches to Resolving Natural Resource and Environmental Conflicts* by Peter J. Johnson and Peter N. Duinker February 1993, *Open Doors: Public Participation in Forest Management in Canada* by Peter E. Higgelke and Peter N. Duinker, Report to the Canadian Pulp and Paper Association and Forestry Canada, March 1993, and a working paper *Testing the "Policy Exercise" in Studies of Europe's Forest Sector: Methodological Reflections on a Bittersweet Experience* by Peter N. Duinker, Sten Nilsson and Ferenc L. Toth, May 1993.

Dr. Yves Prevost, Assistant Professor, School of Forestry and Dr. Peter de Groot, Directors of the Entomological Society of Ontario (ESO), recently published a second edition of the directory of entomologists in Ontario titled *Entomology in Ontario*. Copies of the directory are available through the Secretary of the ESO, Faculty of Forestry, University of Toronto, 33 Wilcox Street, Toronto, ON M5S 3B3.

Dr. Darlene Steven, Associate Professor, and Professor Rhonda Kirk-Gardner, School of Nursing, have been contracted by the Mosby Book Company to prepare a chapter on cardiovascular health for the new gerontology text to be published next year (edited by Annette Luekenotte).

PRESENTATIONS



Dr. Juanita Ross Epp, Assistant Professor, Faculty of Education presented two papers at the American Educational Research Association conference in Atlanta, "Culture Orientation and Sociometry of the Classroom: A possible Relationship" and "Women in Educational Administration Programs: A Reality Check".

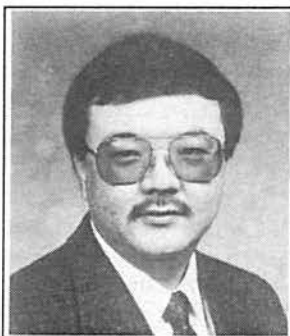
As well her work was published in the April issues of three periodicals. "Strategies for promoting participation" appeared in *Education Canada*, "Leadership Qualities valued in Principal Selection" was in *The Canadian School Executive* and "Gender Equity: A Simple, Effective Group Action Plan" was published in an American Journal called the *National Association of Secondary School Principals Bulletin*.

Dr. Max Meng, Assistant Professor, Department of Electrical Engineering, attended the 1993 IEEE International Conference on Robotics and Automation from May 1 to May 7 in Atlanta, Georgia. He served as co-chair of the session "Multiple Robot Control" and he also presented a paper "An

improved load distribution scheme for coordinating manipulators" in the same session. The paper has been included in the conference proceedings.

Dr. Meng is also the author of several recent publications: "On optimal force distribution of coordinating manipulators," in *International Journal of Robotics and Automation*, vol. 7, issue 2, pp. 70-79, 1992; "Experimental

evaluation of the effect of dynamics on robot controllers," in *Proceedings of the 1992 Canadian Conference on Electrical and Computer Engineering*, Toronto, Ontario, pp. WM6.24.1-WM6.24.4, September 1992; "Implementations of model-based adaptive position and force control of robot manipulators," in *Proceedings of the IASTED Conference on Control and Robotics*, Vancouver, B.C., pp. 91-94, August 1992; and "Adaptive contact force control of redundant robots using manipulator regressor dynamics," in *Proceedings of The Second Annual IRIS/Precam Conference*, Montreal, June 1992. The papers were co-authored with Professor W.-S. Lu of the University of Victoria.



In April, **Professor Michel Morton**, of the School of Nursing, presented a paper entitled "Is the Public Library Accessible to the Public: A Research Study of Prenatal Books" at the Port Arthur General Hospital's Nursing Research Day. This paper was developed by Michel and **Professor Cynthia Loos**, also of the School of Nursing. As a result of this presentation, Michel was asked to develop and deliver an education session, "Taking the jargon out of Patient Teaching" for the staff of St. Joseph's General Hospital. In May Michel presented a paper, "Utilizing Group Seminars in a Distance Education Course" at the University of Guelph's Sixth Annual Show and Tell for Colleges and Universities. This conference was attended by post-secondary educators interested in examining effective teaching-learning strategies.

Dr. Darlene Steven, Associate Professor, School of Nursing presented a workshop on "Continuous Quality Improvement" and "Labour Relations in Nursing" to staff at the Sioux Lookout General Hospital on May 4, 1993. The trip was sponsored by Northern Outreach.

On May 12, Dr. Steven presented a workshop on "Proposal Writing" to the staff at LaVerandrye Hospital (sponsored by Northern Outreach) and spoke on "Lobbying" to the Registered Nurses' Association of Ontario, Rainy River District Hospital. The following day, a telemedicine presentation was made on "Long Term Care Reform and the Implications for Nurses". Documents and a videotape were circulated to participants in order to encourage participants to respond to the newly created position proposed by the government - the community support worker.



Dr. Thomas M.K. Song, Professor of the School of Physical Education and Athletics, Coordinator of Human Performance Laboratory, presented a paper entitled "Relationships between Echocardiographic Dimensions and Somatotype Components in Adults" at the Annual Meeting of the American College of Sports Medicine, Seattle, Washington, June 2 - 5, 1993. The study was collabor-

ated with Drs. C. Bouchard, L. Perusse, and G. Theriault, Universite Laval and Dr. R. Malina, University of Texas at Austin.

Dr. Song has been invited to University Laval in Quebec City as a visiting research professor doing research work on "Somatotype, Physical Activity, Nutrition and Cardiovascular Risk Factors" and "DNA Sequence Variation in Highly Trained Endurance Athletes versus Sedentary Controls" during the summer.

Dr. Song has received the seventh consecutive Ontario-Quebec Exchange Program grant and research grants from Laval and Lakehead University for his research work.

RESEARCH GRANTS & CONTRACTS

ENVIRONMENTAL YOUTH CORPS GRANTS

The Environmental Youth Corps (EYC) program gives youth between the ages of 15 and 24, an opportunity to work on projects that contribute to improving the environment in Northern Ontario. Through the Ministry of Natural Resources as "Host Ministry", the following researchers were awarded EYC grants, creating a total of 19 summer research jobs for students.

Dr. Azim Mallik, Department of Biology - "Regeneration Strategy of Competing Species Following Release Treatment"

Dr. Azim Mallik, Department of Biology - "Biodiversity in disturbed and undisturbed old growth white pine forests: Mosses and Liverworts"

Don Barnes, School of Forestry - "Beaver Dam Project"

Dr. Murray Lankester, Department of Biology - "Wildlife Health Project"

Dr. Doug Morris, Department of Biology/CNS - "Influences of Forest Management on Wildlife and Fish Biodiversity"

Dr. Yves Prevost, School of Forestry - "Spruce Budworm and Forest Regeneration"

Dr. Yves Prevost, School of Forestry - "Insects and People"

Dr. Yves Prevost, School of Forestry - "Vegetation Management Insect Biological Diversity"

Dr. Ulf Runesson/Ms. Susan Van Ael, School of Forestry - "Songbird Habitat Project"

ONTARIO MINISTRY OF NATURAL RESOURCES - VMAP CONTRACTS

The following contracts were awarded to Lakehead University by the Ministry of Natural Resources Vegetation Management Alternatives Program (VMAP) and the Agricultural Research Institute of Ontario (ARIO):

Dr. Yves Prevost, School of Forestry for a two-year research project valued at \$77,760, entitled, "Implications of Vegetation Management in Spruce Plantations for Arthropod Communities".

Dr. Murray Lankester, Department of Biology for a two-year research project valued at \$48,000 entitled, "Effects of Vegetation management on Boreal Gastropods".

Dr. John Ryder, Department of Biology for a two-year research project valued at \$84,504 entitled "Effects of Vegetation Management on Migrant Songbirds".

CORRECTION

The correct title of Dr. Murchison's collaborative research project with the Ontario Lumber Manufacturer's Association (OLMA) is "Economic Analysis of Northern Ontario Wood Handling Systems" not the title referred to in the last issue of the Agora.

LAC DES ILES MINES LIMITED

Dr. Stephen Kissin, Department of Geology was awarded a two-year contract in the amount of \$5,000 by Lac des Iles Mines Limited to undertake a research project entitled, "Geological Processes Leading to the Concentration Platinum Group Elements".

ONTARIO MINISTRY OF NATURAL RESOURCES

Dr. Ulf Runesson, School of Forestry was awarded a nine-month contract in the amount of \$6,300 by the OMNR, Wildlife Policy Branch for a project entitled, "Modelling Barred Owl Habitat".

Dr. John Ryder, Department of Biology was awarded a nine-month contract in the amount of \$6,000 by the OMNR Wildlife Policy Branch for a project entitled, "Bird Communities in Boreal Wetlands".

FORESTRY CANADA - NODA

Dr. Yves Prevost, School of Forestry was awarded a three-year contract in the amount of \$90,000 by Forestry Canada through the Northern Ontario Development Agreement (NODA) for a research project entitled, "Impacts of Spruce Budworm and Budworm Spraying on Succession in Boreal Mixedwood Forest".

ONTARIO MINISTRY OF TRANSPORTATION

Dr. K.D. Eigenbrod, Department of Civil Engineering was awarded a two-year contract valued at \$25,248 by the OMOT Ontario Joint Transportation Research Program (OJTRP) for a research project entitled, "Water Condensation and Ice Formation at the Interface of Asphalt Pavement and Base".

PEOPLE

Dr. Said Easa, Professor of Civil Engineering, chaired the mid-year meeting of the Planning Committee, American Society of Civil Engineers, held April 12, 1993 in Washington, D.C. Over the past year-and-a-half, the Committee published three state-of-the-art white papers on the transportation planning process in the Journal of Transportation Engineering, developed a videotape on "Cities in the Balance: Creating the Transit-Friendly Environment", and sponsored three sessions at national conferences. The Committee is currently preparing two more white papers on mode split and trip generation and sessions on transportation planning for 1996 Olympics in Atlanta and transportation/air quality planning. It is also conducting activities on geographic information systems and international exchange by two newly-created subcommittees.

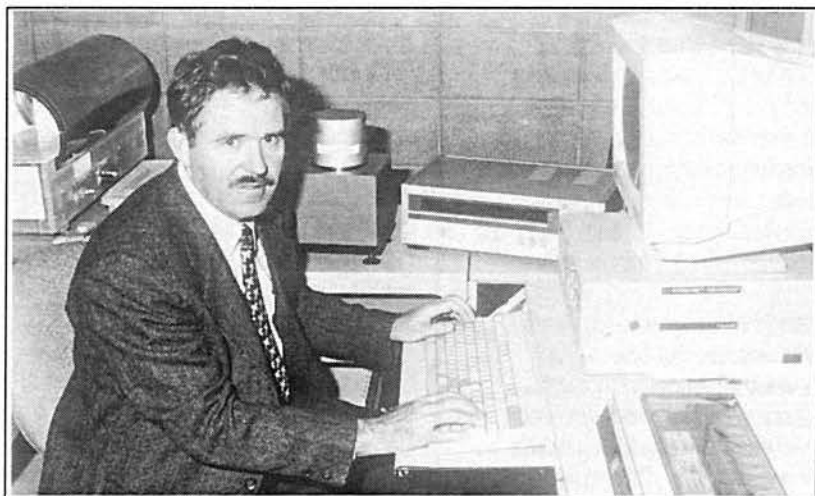
In Memoriam

Dr. J. Tuzo Wilson, who received an Honorary Doctor of Science degree from Lakehead University in 1984, passed away on April 15, 1993. Dr. Tuzo was a renowned geophysicist and the Director General of the Ontario Science Centre.

Dr. Graham Borradaile, Professor of Geology, is the first to combine rock deformation with rock magnetism in a NSERC-funded research program aimed at elucidating the history of the Canadian shield.

Rock of Ages

by Vonnie Cheng



Rock solid ... Rock bottom ... Caught between a rock and a hard place. Rocks have added a lot of colour to the English language by virtue of their granite-jawed and gem-like characteristics. Do you know that, despite their unyielding and hard-boiled appearance, rocks are not as impervious to stress as we have been given to understand?

According to Professor Graham Borradaile of the Geology Department, some of the rocks in the Canadian Shield were so stressed out by violent and sudden upheavals in the earth's crust 2.7 billion years ago that they have remained severely contorted ever since. Apart from compressing and folding the rocks, the pressure in the crust also squeezed out the molten minerals with the fluids of the earth. Knowledge of rock deformation, therefore, has important applications for predicting the path movements of the fluids as well as the size and location of mineral deposits in ore explorations. For his current research project, Dr. Borradaile combines rock deformation with another branch of geophysics — rock magnetism — to divine the history of these highly deformed rocks.

Under normal circumstances, rocks containing certain minerals will preserve the magnetic properties of their ambient field at the time of formation. The strength of the rock magnetism may be pitifully weak compared to that of a fridge magnet, but the magnetic orientation is a dead give-away to the latitudi-

nal locations where the rocks first came into being. Rock magnetism is particularly useful if one has to reconstruct the past history of rocks found far away from their place of origin.

The magnetic imprint of rocks tends to get distorted, however, when they have been strongly squeezed by orogenic convulsions accompanying volcanic eruptions, earthquakes, and other cataclysmic movements in the crust of the earth. For this reason, scientists have yet to piece together a complete profile of the Canadian Shield. Stretching two million square miles across half of Canada including Thunder Bay, the Canadian Shield, according to Dr. Borradaile, is one of the oldest shields in the world. The term shield indicates that the rocks have not suffered any major deformation and folding since the late Pre-Cambrian Age.

Unlike the younger Cambrian rocks which are teeming with fossils, Pre-Cambrian rocks are almost entirely devoid of organic remains. Parts of the Canadian Shield are well known for their rich deposit of metalliferous ores such as iron, copper, nickel, gold and silver. But from the geological standpoint, much of the Shield's past still cries out to be explored and delineated. Dr. Borradaile is the first to combine rock deformation and rock magnetism in a research aimed at finding ways to elucidate the history of these ancient rocks. The project is funded by a three-year grant from NSERC. In addition to the yearly operating grant of \$64,000, NSERC also provided the bulk of the funding for the specially designed instruments required in the deformation and magnetism research.

The major challenge for Dr. Borradaile is to simulate the conditions under which the rocks became twisted during the revolutionary periods in the life of the earth. He expects that it will take five years of experiments using samples taken from the field and a variety of rocks freshly squeezed in the lab to fully understand the effect of deformation on rock magnetism. Dr. Borradaile is assisted in his research by many excellent research students. Lab Technicians Anne Hammond, Sam Spivak, and Ed Drotar have given tremendous support in getting the rocks pressed and cored to perfection for the research project.



Vonnie Cheng (BSc'80, BA'82, Grad. Dip. Bus'92, HBA'92) is a graduate of Lakehead University working in the Continuing Education department as Delivery Supervisor, Distance Education. She is a frequent contributor to the Agora.

At the May meeting of the Board of Governors, Chair of the Fund-raising Committee, **Florence Johnston** provided some very positive news regarding the one-and-a-half year progress of Lakehead University's five-year \$19.2 million **Share Our Northern Vision Campaign**.

In spite of a lack of improvement in the economic climate and our relatively remote locale, we have reached 64 per cent of our identified goal – for a Campaign total of **\$12,311,627**. Officially launched in November 1991, national activity of the Share Campaign kicked off to a good start with 60 contacts, 44 personal meetings and 22 pledges (an impressive 50 per cent pledge rate) for an average gift/pledge of \$48,045. The National Activity level for 1992 was increased to 93 contacts, 39 meetings and 19 pledges (44 per cent pledge rate) but with the average gift/pledge rising to \$54,940. National fund-raising trips were and continue to be scheduled every four to six weeks by John Russell, with assistance from our Campaign Cabinet members. President Rosehart's substantial role in these meetings demands that we at least keep him in "shoes." While the majority of our leading corporate friends- those who have a relationship to Lakehead University- have now been approached, there remain over 60 corporations a year to approach each year to complete this division of the Campaign.

Presently, the Share Our Northern Vision Campaign is undergoing a slight shift to a greater concentration on local and regional prospects – specifically those with the greatest affiliation with Lakehead University. A letter campaign to Fort Frances businesses will commence this summer.

Local/regional activity in 1991 consisted of 17 contacts, 17 meetings and 17 pledges with (a 100 per cent pledge rate!) with the average gift/pledge of \$12,044. While local/regional activity increased in 1992, the pledge rate dropped (to 55 per cent) as did the average gift/pledge.

Enormous success has been

achieved with the **Alumni Annual Fund** five-year goal of \$1,000,000. This year's Campaign raised \$185,000, surpassing the goal of \$175,000. The Alumni Phonathon with our very capable and trusty student callers, raised \$151,774 and the remaining \$34,058 came from special events and marketing/promotional activities. You may be interested to know that of our 20,000 alumni, 12,600 are addressable and alumni contacted were 8,286. We received a pledge rate of 35 per cent and an average alumni gift this year was \$52.32

At the same time, the Alumni Association of Lakehead University is participating in a **Capital Campaign** of \$250,000 over the next five years. This will be directed toward the purchase of a badly needed new Alumni House and Fellowship Residence. To date \$197,495 has been raised toward this initiative.

Friends of Lakehead University continue to support the Share Our Northern Vision Campaign through scholarships, the Chancellor Paterson Library and the Music and Visual Arts Centre to name a few. During 1992, over \$140,000 was received from this group. Additionally, the University received over \$33,500 in bequest funds. Overall, friends of Lakehead University have contributed over \$800,000 to the Share Campaign.

In their 1993 Charity Facts bulletin, the Canadian Centre for Philanthropy stated that the number of individuals donating to charitable causes has increased as has the total donations claimed by tax filers (1991 statistics). However, education ranks fourth behind religious, welfare and health organizations, in terms of current trends. According to this survey, only 12 per cent of individual donors support education. A rise to this philanthropic area of giving, though, is anticipated.

Alumni Services have commenced a **"Parents Program"** in which the primary emphasis is to provide parents of Lakehead University students an opportunity to purchase library books. Activities for parents and a newsletter is planned for the near future.

While many Canadian foundations have changed their focus of interest due to the recession, they generally support areas of applied research in health and welfare and the environment. The fact that there are many more not-for-profit charitable organizations requiring foundation support, makes this sector a somewhat more challenging and long term fund-raising relationship. In 1992, Lakehead received \$375,807 from numerous Canadian foundations.

Contributions from our Municipal and Regional Government sector in 1992 reached \$22,255 in gifts and pledges mainly toward our scholarship program.

Closer to our "immediate home", Lakehead University's **Board of Governors** continues to generate new contributions. As of this April, members have given \$380,755. As well, **Lakehead Faculty and Staff** have continued to support the goals of the Share Our Northern Vision Campaign with the total dollars raised at \$206,213. The Development Office persists in bringing awareness to new faculty and staff and those who have not yet participated.

While we are pleased with the tremendous progress to date from each and every one of our supporters, much work remains in order to complete our goal. Optimistically, our strong volunteer component of the Share Campaign continues to assist all of us in the necessary tasks involved in achieving our goal of \$19.2 million and making our "vision" come true.

To be more informed about the Campaign or to find out where you would like to target your donation, do not hesitate to call **John Russell**, Director of External Relations at 343-8000, **Jo-Anne Silverman**, Senior Development Officer at 343-8910 or **Rob Zuback**, Development Officer, 343-8913. They would be pleased to tell you about the needs, objectives and opportunities available through the Share Our Northern Vision Campaign.

DOWN UNDER

SUMMER STUDENT PROGRAMS:

Lakehead University was quite successful this year with SEED (Summer Employment/Experience Development), NORTOP (Northern Training Opportunities Program) and SEP (Summer Experience Programs) grants. The breakdown of applications and acceptances is as follows:

SEED:	32 Applications Submitted 21 Approved
NORTOP:	46 Applications Submitted 28 Approved
SEP:	8 Applications Submitted 8 Approved

YOUR JOINT OCCUPATIONAL HEALTH AND SAFETY COMMITTEE:

Designated Representatives:

Barber, Lynn	Library	8350
Bonofiglio, John	Comm. Res. Centre	8021
Braghano, Bill	Human Resources	8757
Christie, Pam	CUEW	8438
Corbett, Dave	Chemistry	8540
Engelage, Fred	Powerhouse	8119
Gibson, Norma	Switchboard	0
Himmelman, Joy	Student Services	8149
Jamieson, Rob	LUSU	8259
Keeler, Bill	Athletics	8585
McIntosh, Fred	Library	8205
Munro, Ian	Campus Dev. (Hskpg)	8488
Podd, Jim	Campus Development	8750
Prevost, Yves	Forestry	8342
Stucky, Richard	Security	8569
Walsh, Grant	Services	8452

Alternate Representatives:

Angell, Bob	Comm. Res. Centre	8191
Birston, Ralph	CARIS	8783
Charban, Maureen	Visual Arts/Music	8787
Christie, Dave	Finance	8626
Garland, John	Athletics	8601
Hurley, Becky	Bookstore	8130
Kerr, Peter	Campus Dev.	8370
Payne, Bob	Outdoor Rec.	8758
Scalese, Gisella	Library	8147
Sebesta, Frank	Library	8255
Sutherland, Jessie	Health Services	8361
Thibodeau, Bob	Powerhouse	8119
Toneguzzi, John	Security	8569
Wigmore, Jason	Campus Dev. (Hskpg)	8488

Advisor: Marla Peuramaki, Human Resources, 8671

If you have any matters you wish brought before this committee, please contact your representative.

Note: Workplace inspections will be conducted by members of the Committee commencing in June.

FOR YOUR INFORMATION:

Benefits are now on LUCI!! The benefits booklets that were sent out to all employees in January 1991 are now offered on the campus-wide computer network (LUCI) under the "Human Resources" directory. Included are:

Group Life Insurance	Long Term Disability
Medicare Supplement Insurance	Dental Plan
Vision Care	Voluntary Accident Insurance
Tuition Waiver	Self-Funded Leave
Employee Assistance Plan	

If you have any further questions, please contact Human Resources at 8334.

FREQUENTLY ASKED QUESTIONS ABOUT YOUR BENEFITS:

Q: Why did SunLife ask for more information when I thought I filled in the claim form completely?

A: The most common reason that claims are returned is because people don't fully complete the dependent section. If your spouse works, you **must** indicate his/her date of birth and employer information. Your claims must be submitted to SunLife first, and your spouse must submit to his/her carrier first. Anything not paid can then be submitted to the other's carrier. Claims for children must be submitted under the plan of the parent whose birthday is first in the year. This is why SunLife needs all of this information. You must complete it for **each** claim, because SunLife doesn't know whether you have been married, separated, etc. since your last claim.



Dr. R.S. Dilley was recently awarded a Social Sciences and Humanities Research Council of Canada (SSHRC) award to continue research into enclosure of the common lands in the English county of Cumberland. The following article outlines his research program.

Changing Common Lands

By Dr. Robert S. Dilley

The first objective of this research program is to continue and extend my work on the enclosure of the common lands in the English county of Cumberland. *Common Lands* are not (as many today assume) public property, but rather lands owned and managed by several people collectively. The two principal types of common land are *common arable fields* where farmers grew crops in two or three huge, unfenced fields, each farmer owning a number (sometimes hundreds) of long, narrow strips of land scattered all over the village lands; and *common wastes*, open grassland where farmers would graze their sheep and cattle, all mixed up together, and distinguished by brands or other marks.

Although the common arable fields had largely disappeared from Cumberland by 1700 (and only one survives now in all of England) the huge common wastes were vital at that time to the local agricultural economy, and accounted for over half the area of the county. Over the next two hundred years, most of this common waste was *enclosed*, shared out between the co-owners in proportion to the common rights they had enjoyed (i.e. someone who had been entitled to graze 20 sheep on the waste would get twice the area of a neighbour with entitlement to 10) and fenced or walled off. The first part of the current project is to continue my PH.D. work, investigating *why* some areas of waste were enclosed much earlier than others, and why the approximately 12 per cent of the county still unenclosed has remained in common.

The principal objective of the first period of this three-year research project is to extend the work already completed in analysing the Cumberland enclosure awards and agreements. So far, 31 enclosures in the central part of the county have been intensively studied. In all, 197 awards and agreements for the enclosure of common waste and 37 for the enclosure of common fields survive. Those studied in detail so far include many of the largest, totalling about one-third of the total land for which enclosure records survive.

This work involves mapping every award possible (i.e. for which sufficient spatial information survives) onto 1:25 000 topographic maps – transcribing from contemporary maps where available; interpreting written boundaries where not. Details of number of owners and the shares they were allotted will also be recorded. These data will then match those already compiled for the central third of the county. Once the data have been collected and mapped, they will then be subjected to detailed analysis. This involves comparing date of enclosure with a range of physical and socioeconomic factors: including altitude, slope, soil type, agricultural classification, distance from urban areas and the number of owners involved. Results so far strongly indicate that altitude is most effective in explaining date of enclosure: in this mountainous county, the lower lands were enclosed first. Findings from this study will help contribute towards an understanding of how and why enclosure took place in this area.

Not everything about the enclosure process is capable of being subjected to this kind of quantitative analysis. There are always social, political and even psychological elements to such decisions. These have already been explored by use of estate correspondence, petitions, manorial court records and other such data to investigate attitudes and perceptions of enclosure at the time. To enable me to pursue this task in the field, I shall be taking a six-month sabbatical leave in England from January 1994.

Once this study of enclosure is completed, it will be followed with a logical development and take the history of common lands in Cumberland beyond 1850 into the late 19th and 20th centuries. In this period the emphasis changed from a desire to end common waste as an inefficient use of potential agricultural land to a compelling desire to *preserve* the waste as a source of recreational activities and as a tourist attraction – for hiking, camping and observation of wildlife. Such a study would combine my long-term interest in common lands with my more recent concentration on recreation and tourism geography.

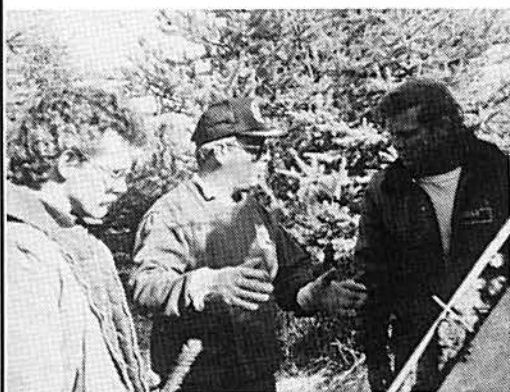
To pursue this, it will be necessary to return to the research area in 1996, to work through a later series of records. As well as government documents it will be necessary to look at the holdings of land-preservation and recreation interest groups. While a good deal has been written about recreation and tourism in the Lake District (some by me), there is nothing published on the specific role of the common lands. It should make for a very challenging linkage of historical and current geography. Indeed, it is this linkage of more traditional historical geographical analysis with current concerns over rural planning and management that seems to have particularly attracted SSHRC.



Dr. Robert S. Dilley is an Associate Professor at Lakehead University with the Department of Geography. He has long been interested in historical geography and tourism.

*If there are issues or topics you would like to see covered in **Forum**, contact Frances Harding, Publications Officer, 343-8193.*

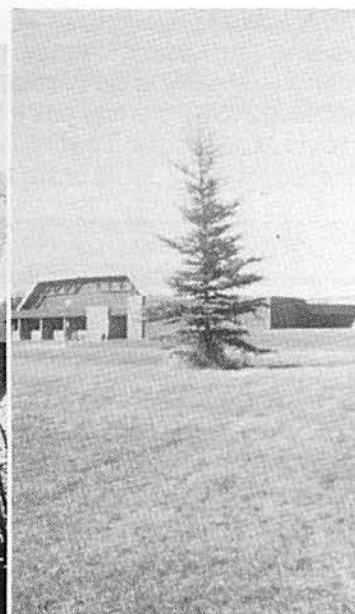
Hats off to the GROUNDS CREW!



First you grow your own mini forest and use the consultative method to select the best trees.



You move them with the help of the 'diggin Dutchman'.



Each tree adds a new look to the Campus.



The Greening of the Campus project is underway.

I have a secret desire to work outdoors. Andy McFall, Grounds Lead Hand, just smiles and says "a good Canadian winter would likely cure that."

Okay, Andy, but what about all the fun you guys have in the summer driving around in those neat tractors and lawn cutters, planting flowers and getting tans?

When you hear the word 'grounds', images of verdant lawns and well-tended flower beds spring to mind, but Andy and his crew

of five have more than 75 acres to care for 365 days a year. "You get so frustrated sometimes but you just have to keep at it" says McFall. A biology graduate of LU, Andy has been with Campus Development through many changes since coming aboard in 1976. Anyone who knows Andy, or any of the dedicated grounds crew, knows that they take their jobs seriously.

The crew has enjoyed working on the Greening of the Campus, a special project sponsored by Canadian Pacific

Forest Products. Each year they provide trees, labour and machines to help the University increase the number of trees on campus. This year, trees were planted in front of the fieldhouse and the Music and Visual Arts Centre. The greening committee meets regularly to look at issues including safety, aesthetics, maintenance and future development of the campus.

Here's the list of full-time workers that form the Grounds Department and some views on the best and worst aspects of the job:

Richard Inglis - 13 years
John Hakela - 12 years
Kevin Dunning - 3 years
The best: working on beautiful, sunny days. The worst: cutting under trees with spruce budworms hanging from them.
Kurt Dahl - 6 years
Dave Zerkovich - 6 years
Andy McFall - 17 years
The best: variety, autonomy and the wonderful characters I get to work with. The worst: blatant vandalism and negative attitudes.

To include your Department's event or activity in the Campus Calendar, please call Betty Hygaard at the Information Office at 343-8300 or mail your information to Alumni House. Deadline for the September Agora is August 15, 1993

JULY

Thursday, 1

Canada Day
University Closed

Monday, 5

LU Pool - Fun Camp for Kids (ages 7-12) starts on Monday, July 5 two-week sessions, Monday to Friday Full and Half Days Available
Phone 343-8656 for information.

Wednesday, 14

Are you up to the challenge? We are looking for eight (4 men, 4 women) enthusiastic paddlers to participate in the Great Rendezvous Games Challenge at Old Fort William
Wednesday, July 14
5:30 pm - 9:00 pm

The fun evening includes competition with other corporate teams in historical games, with the special event being the Canoe Race. So work those muscles into shape and contact Denise Bruley at ext. 8372 for further information.

Sunday, 18

Alumni Mixed Golf Tournament (sponsored by Financial Concept Group)
Thunder Bay Country Club
\$40 per person (includes green fees and BBQ steak supper)

12:30 p.m. Directions and Meet Your Team
1:00 p.m. Tee Off Time - Shotgun Start

Alumni, Staff and Faculty welcome
Cash Bar, Prizes
Register before July 12 by calling the Alumni Office 343-8155

The Alumni Victorian Tea

In the tradition of the Victorian Tea, alumni, staff, faculty and guests are invited to attend an afternoon tea in the garden of Margaret Page's home

Saturday, June 26, 1993

2:00 pm - 4:00 pm

RR #17, 254 Riverside Drive

(Corner of Riverside Drive and Central Avenue opposite Tee 6 of the Thunder Bay Country Club)

Refreshments will be available, with a bake table and a small money collection at the "door". In the event of rain, the Victorian Tea will move into the Page residence.

Contributions of baking are greatly appreciated. Please contact Denise Bruley at 343-8372 to make arrangements for pick up or for further information.

VOLUNTEERS NEEDED

The 1993 Ontario Games for the Physically Disabled will be hosted in Thunder Bay on July 8 - 11 and volunteers are needed.
For more information, call Peter Viitala (Games Coordinator) at 625-2349.

OCTOBER 22-24, 1993

**Recapture the Pride . . .
Remember the Promise
at Homecoming Weekend
MARK YOUR CALENDAR**

THE CHANCELLOR PATERSON LIBRARY HOURS

June 18-27, August 14-Sept. 5
Weekdays Only: 8:00 a.m. to 5:00 p.m.

June 28-August 13

Mon-Thurs. 8:00 a.m. - 10:30 p.m.
Friday 8:00 a.m. - 5:00 p.m.
Saturday 11:00 a.m. - 5:00 p.m.
Sunday 1:00 p.m. - 6:00 p.m.

THE OUTPOST SUMMER HOURS

Monday through Wednesday:
11:00 a.m. to 11:00 p.m.
Thursday and Friday:
11:00 a.m. to 1:00 a.m.
Closed on Weekends

AGORA

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