



Agora

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A NEWSLETTER FOR LAKEHEAD UNIVERSITY STAFF & FACULTY

Convocation 1997

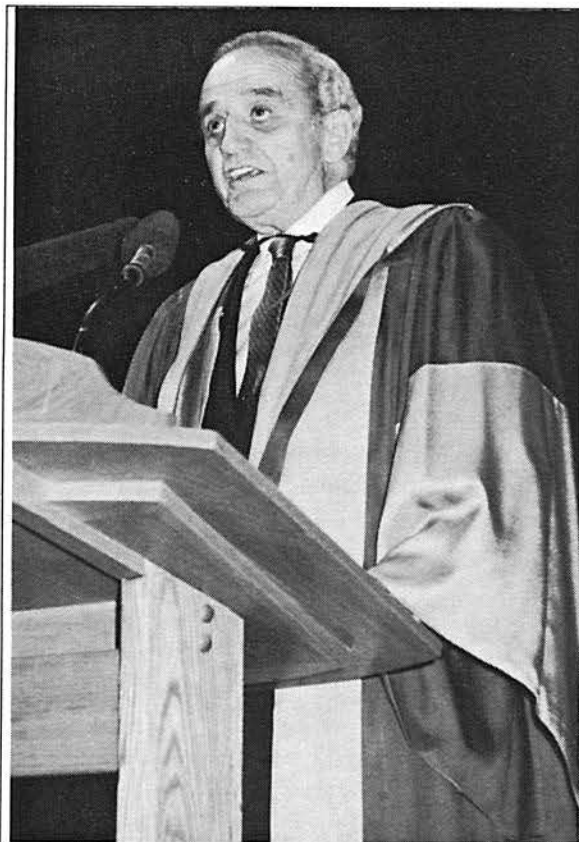
“

If we must define Canadianism, let us define it in terms of the compassion and the solidarity that we show in times of need....

It was here in the Lakehead where my concept of Canada was instilled and nurtured. It was here where I first experienced the mosaic of peoples and culture which signalled the new Canada. We were the first generation Canadians with varying ethnic backgrounds but we cheered hockey teams with players named Laprade, O'Leary, Chabot, Delvecchio and Lewicki. We elected individuals with names like Badanai, Dolcetti and Laskin, as well as Cox and Wardrope. And we came to believe that we would be judged on individual ability and integrity rather than on ethnic origin or religious affiliation. This sense of Canada I owe to this City. I now have an obligation to my children and grandchildren that they too will have the opportunity to live in a country culturally diverse but unified in purpose.

—Arthur V. Mauro, May, 1997

”



Lakehead University bestowed an honorary degree on lawyer Arthur V. Mauro who was born and raised in Port Arthur and is now Chancellor of the University of Manitoba. In his address to the graduating class, he reflected on this generation's rendezvous with destiny saying, "My generation faced a post-war world of super powers: the Iron Curtain, NATO, the Warsaw Pact and nuclear weapons... Your generation must confront the potential tyranny of technology and put into effect policies that safeguard our environment."

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Xiaodan Tu (MSc – Mathematical Sciences Co-operative Option) received the Governor-General's Gold Medal awarded to the highest ranking student in the graduating class of the Master's degree. She is shown here with the President of Lakehead University, Dr. Robert G. Rosehart.



HIGHLIGHTS

Lakehead awarded 1,936 degrees and diplomas in 1997 (including 235 in November). This year a record number of students -- 38 in total -- graduated with a **Minor in Women's Studies**, including Vicki Lynn Churchill who won the Lieutenant-Governor's medal awarded to the highest ranking graduating student in the three-year Bachelor's degree. Minors are becoming increasingly popular among students who see them as a way to make their degrees more marketable. This year there were 19 Minors in **Gerontology**, 5 in **Economics**, 4 in **Law and Politics**, 3 in **Indigenous Learning**, 2 in **Spanish**, 1 in **French**, 1 in **Religious Studies**, 1 in **Classics**, and 1 in **Occupational Ethics**.

-- Lakehead celebrated the success of its first three graduates to complete the **Diploma in Engineering Technology** having benefitted from Lakehead's nationally-acclaimed **Native Access Program for Engineering (NAPE)**: Richard D. Chukra, James Ronald Danielson and Oscar Stanislaus McDougall.

-- This year marked the graduation of the first two students to complete the **Master of Arts degree in Native and Canadian Philosophy**: Lorraine Brundige whose thesis was entitled "*Continuity of Native Values: Cree and Ojibwa*" and Alice Marie Taylor whose thesis was entitled "*A Jungian Bridge to Native Philosophy*." See photo below.

--1997 witnessed the largest graduating class from the **Community Based Native Teacher Education program** -- 32 in total -- including Darla Jane Huss-Solomon and Lucy Rose Kakegamic who both received their BED degrees.

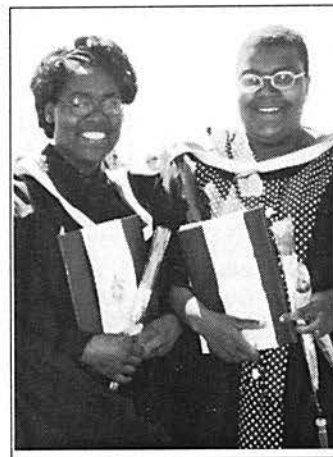
-- Lakehead welcomed two guests from **Gifu University of Education and Languages** this year: Takafumi Hirose, Director, International Affairs, and Professor Yuko Ono.

-- Another guest was Professor John Pufahl from the **University of Windsor** who joined the academic procession to witness the graduation of his son Peir and daughter-in-law Christa Koebernick, both graduates of Lakehead's Master of Science program in Geology.

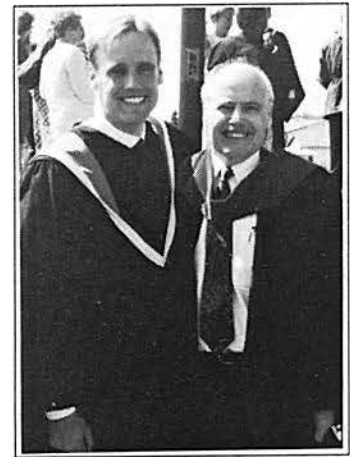
-- Congratulations to all employees of Lakehead University who graduated in May including **Dianne Edmond** (BA), from the Cancellor Paterson Library; **Lynn Wilson** (BA) from the Office of Graduate Studies and Research; **Kim Falcigno** (MEd) from the Department of Geography who graduated along with her husband Steven (MSc); **Don Barnes** (MSc) and **JoAnn Crichlow** (MA) from Forestry; and **Bob Main** (MSc) the Assistant Woman's Basketball Coach who graduated along with his daughter Kirsten (BA/BE). As well, we salute the family members of all Lakehead faculty, staff and professors emeriti who graduated this year including **Fred McIntosh's nephew** Craig (BE); **Dr. Ernie Epp's daughter** Rochelle (BA); **Dr. Dan Klassen's wife** Elsie (BA); **Dr. Inderjit Nirdosh's daughter** Aparna (BSc); **Dr. John Whitfield's son** Brian who won the Dean of Arts and Science's medal given to the highest-ranking graduating student in Arts for the four-year program; **Dr. Keith Roy's daughter** Stephannie (MA); **Dr. Gary Murchison's daughter** Heather (HBA); **Dr. Jim Smithers's son** James (HBA); **Bill Keeler's son** Cory (BE); **Susan Childs's son** Jayson (BE); **Tony Cappello's son** Carlo (BA/BE), **Dr. Seimer Tsang's daughter** Wendy (Eng. Tech) and any others who may have escaped the attention of the Information Office.



Mary Beth Coates accepted the Alumni Honour Award presented posthumously to her mother Betty C. Coates by the Alumni Association's Representative to the Board of Governors, Joseph R. Baratta.



Claudette Bernice Flening (right) travelled from Bermuda in May to attend Convocation with her classmate Paula Jean White.



Brian Whitfield and his father Dr. John Whitfield, Lakehead's Vice-President, Academic.



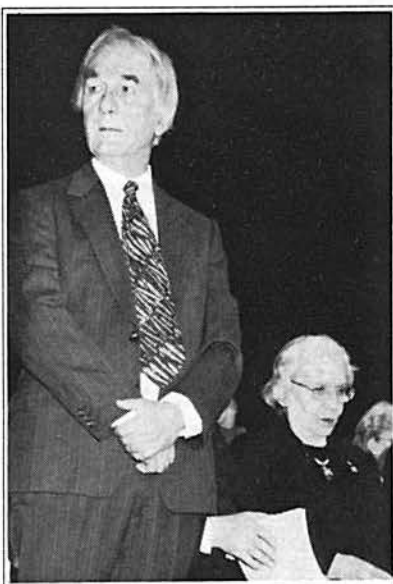
A happy day for Indigenous Learning and the Office of Graduate Studies and Research (left to right): Dr. Douglas Rabb, Department of Philosophy, Dr. Jim Cheney, one of four visiting Rockefeller Scholars, Lorraine Brundige (MA), Dr. Connie Nelson, Dean of Graduate Studies and Research, Marie Taylor (MA) and Alice Riives Sabourin (MSW).



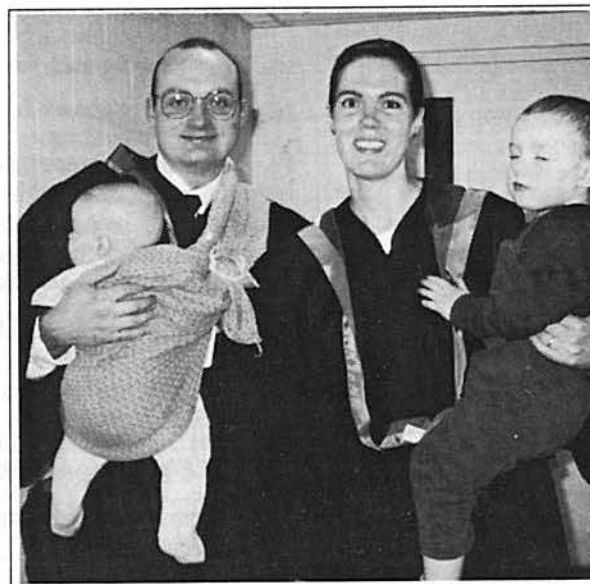
Back Row (left to right): Dr. John Whitfield, Robbert P. Welter, Dr. David Euler, Dr. David Bates, Dr. Lotti Zadeh, Dr. Gary Locker, Mario Bernardi, Dr. Bahram Dadgostar, Arthur Mauro, Dr. Connie Nelson, Pentti Paularinne, Richard Gwyn, Dr. David Kemp, Joy Himmelman. Front Row, Professor Margaret Page, Maureen Doig, Chancellor Lois Wilson, Dr. Bob Rosehart, Dr. Olive Dickason.

Thanks to the Alumni Marshals:

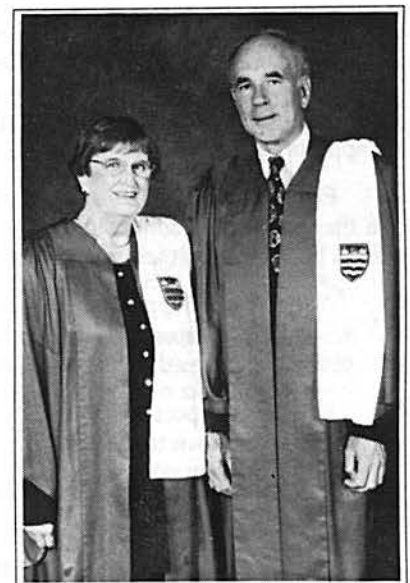
Nancy Luckai
Lynda O'Brien
Therese Lim
Leigh Abthorpe
Susan Balabuck
Bill Bartley
Josephine Boucher
Vonnie Cheng
Francis Clayton
John DeGiacomo
Diane Dixon
Solange Dixon
Carl Goodwin
David Heald
Petra Holm
Marie Keeler
Anne Klymenko
Carole Moore
Richard Pepper
Marla Peuramaki
Karen Poole
Patricia Sevean
Diane Thompson
Lee Tracz



Journalist Richard Gwyn and historian Dr. Olive Dickason (seated right) both received an Honorary Doctor of Letters.



It took teamwork and some extra help from the Registrar's Office for Henry Van Ael (BEng) and his wife Susan (MScF) to fully participate in the Convocation ceremony while looking after their sons Adam and Arthur.



Friends and now Fellows of Lakehead University: Professor Margaret R. Page and Robbert P. Welter.

"Out of knowledge comes understanding, and out of understanding comes action, purposeful and effective."

-- Richard Gwyn, Convocation Address, May, 1997

Part-Time Studies/Distance Education/ International Recruitment

Dr. Robert G. Rosehart
President, Lakehead University

CONSULTATION REPORT

As I mentioned in my last article, Mr. F. Poulter was asked to recommend an appropriate administrative structure to support development and innovation in Part-time Studies, Distance Education, International Recruitment and Programming and Electronically Mediated Learning. Several issues within each of the above-noted programs that should receive comments and recommendation for change where appropriate were raised with Mr. Poulter and he was asked broadly to consult the entire senior management team and others. As well, Mr. Poulter was advised that any recommendations should not add any positions to the University's staff complement, but rather to stay under the existing complement of staff.

After extensive interviewing and consideration of the input, what follows are Mr. Poulter's specific recommendations.

Part I - Part-time Studies

1. A Part-time Studies Unit be established through the merger of the existing Continuing Education, Distance Education and Continuing Teacher Education programs and with a mandate to aggressively seek additional part-time enrolment through sufficient and appropriate course offerings.
2. Each Faculty utilize a Part-time Studies Officer to liaise with the Part-time Studies Unit and support delivery of Faculty courses both for credit and non-credit purposes.
3. A Director be appointed to lead the Part-time Studies Unit who has strong interpersonal and leadership skills, and who reports to the Vice-President (Academic).
4. Existing support staff in Continuing Education and Distance Education move to the new Part-time Studies Unit.
5. The Part-time Studies Unit be located in close proximity to the Registrar's Office.
6. The expertise of current Distance Education personnel warrants the assignment of continuing use and development of electronic technology in learning to this function.

Part II - International Activities

1. An International Unit be established with a mandate to aggressively seek additional qualified student enrolment from countries outside Canada.
2. A Director be appointed to lead the International Unit who works within clearly described goals and measurable objectives, and is accountable to the Vice-President (Academic).
3. The responsibility for all student exchanges and bilateral agreements be centralized within the Unit, and necessary support

be arranged with administrative personnel currently employed in other areas of the University.

4. International student support services be located within the Unit but that a close working relationship be maintained with the Department of Student Services.

5. Research and CIDA projects remain in the Research Department within the University's structure, but an ongoing information relationship be maintained between this International Unit and the Research and Graduate Studies Office.

Part III - Learning Assistance Centre

1. The Centre be returned to the Department of Student Services.
2. A study be made to determine the availability and suitability of computer software for learning assistance.
3. If a positive result comes from the study, the University commence to acquire appropriate computers and software to assist those needing such learning assistance.

Part IV - Library

1. A Chief Librarian be appointed for a three-year term and in order to operate within existing personnel complement, the role should include supervision of some specific operational areas of the Library in addition to overall leadership, especially in utilizing the rapidly advancing electronic technology.
2. The effectiveness of the Faculty of Education library be reviewed and consider whether it should be relocated to the Main Library and, if not relocated, whether there is need for a qualified Librarian at the Faculty of Education.

Part V - Electronic Mediated Learning

There seems to be a readiness among those interviewed, that the use of electronic technology should become a greater force in the delivery of courses. Those interviewed were less sure of faculty member's acceptance. A continuing development or acquisition of course offerings in electronic mediated format will require a major capital investment.

The effective use and continuing development of electronic mediated learning could be assigned to the Distance Education component of the Part-time Studies Unit.

I would ask that if you have input and/or suggestions with regard to the proposals, please submit the input to Vice-President John Whitfield by June 23, 1997. Should we proceed with these recommendations, position postings would be prepared and the necessary searches undertaken to have the revised structure in place by September.

LU PLAN '98

It has been five years since the last LU Strategic Plan was adopted in 1992. This report which was to have a life of six years is up for renewal and a comprehensive consultative planning exercise will be initiated in the early fall under the general direction of Vice-President John Whitfield. With the successful implementation of the budget planning process outlined in the last plan, I expect that, driven by both the internal and external environment and the forces for change that have been in the air, this exercise will initially focus on the collective vision of what we are about and what we should be about in the future. Clearly, enhanced accountability is something that we will need to deal with both from internal and external bodies. The quantification and benchmarking of our academic programs will no doubt be a focal point as well as the strategies for implementation of the recent "Promotion of Research" recommendation approved by Senate. In addition, the timing of this planning exercise will allow for broad input on our research priorities for both the Canada Foundation for Innovations and the Ontario R & D Challenge Fund.

In general, I hear informal arguments for an institution with a somewhat more limited focus with resource allocations that would further encourage strategic excellence in both the classroom and the research laboratory. In the current external environment of restricted funding, where there is a clear trend towards targeted funding, it will be vital to come out of the LU Plan '98 exercise with policies which will allow Lakehead to chart its optimal internal course with respect to programs and resource allocations. I think tuition fees are at, or near, the plateau and that a very competitive undergraduate student market will be further changed with the implementation of Secondary School Reform.

CONVOCATION '97

A special public "thank you" to all the Lakehead faculty and staff who participated in the May 30-31 Convocation weekend. This year I think the institution should be particularly proud of the Convocation based on the many inputs I received from both our Honorary Degree recipients, as well as several parents. It was most reflective to hear the very complimentary "benchmark" comments from parents who have also recently participated in other university Convocations. Once again the Thunder Bay Community Auditorium and their staff did an excellent job on our behalf.

FEDERAL ELECTION '97

Several Lakehead graduates were candidates across Canada in the June 2, 1997 election and, win or lose, they need to be congratulated on their interest in public service. Locally, congratulations go to both local returning members, Joe Comuzzi and Professor Emeritus Stan Dromisky.

SABBATICAL OPPORTUNITIES

Recently I served as Chair of the Ontario delegation to a meeting of the Four Motors/Ontario/Wales and Quebec group of universities. Our formal involvement with the Four Motors group dates back almost 10 years and is focused on Ontario government-funded student exchange programs with both Germany and France. It is clear from the discussion at the most recent meeting I attended that there are short term sabbatical research opportunities available at the institutions involved with these initiatives. If anyone is interested in pursuing contacts in any of these jurisdictions, please get in touch.

SUMMER '97

I realize that most of you will take some "recharge" vacation time over the next few weeks and I encourage all of you to have a restful, enjoyable, and in particular, a safe summer.

RESULTS FROM THE AGORA READERSHIP SURVEY

In March, 1997, the Information Office surveyed 1,000 *Agora* readers and received a total of 113 responses which were analysed by Noël Keag using SPSS software. This is what we learned:

Reading Habits:

84% of the respondents said they read every issue 71% said they read the publication either "thoroughly, cover to cover" or "most of the *Agora*, about 80% of the contents."

Relevancy:

57% attended an advertised event; 36% clipped and saved particular articles, 29% kept the *Agora* on file, 24% passed the *Agora* to a colleague, and 20% changed an opinion as a result of an article in the *Agora*.

Who reads what?

88% read *Faces*, 85% read *Around Campus*, 85% read the *President's Report*, 83% read *Calendar*, 81% read the *Cover Story*, 71% read *News from Human Resources*, 68% read *People and Programs*, 66% read *Faculty Publications*, 63% read *Research News*, 61% read *Forum* and 43% read *News from the Library*.

Who wants more ...

41% want more *News from Other Universities*
30% want more news on *Communications Technology* and *Staff/Faculty Appointments and Awards*
28% want more news on *Employee Benefits*
26% want more news on *Government Relations* and *Health, Safety and Campus Security*

Comments:

33% of the respondents made comments such as...

"I'd like to see more articles written by members of our Lakehead community about human issues not necessarily academic matters. Let us see the human side, the humorous side."

"Discontinue reporting research publications in the present form. Let the Dean of Graduate Studies and Research collect information from all the departments and report after checking the correctness of refereed status of the publication and invited talks. It is the Dean's job."

In this issue we've acted on two of your suggestions. We've introduced a column called *Dispatches* which contains news from colleges and universities across Canada and we've renewed our efforts to *Profile* faculty and staff with an abbreviated version of the old column, "Faces" (see page 10).

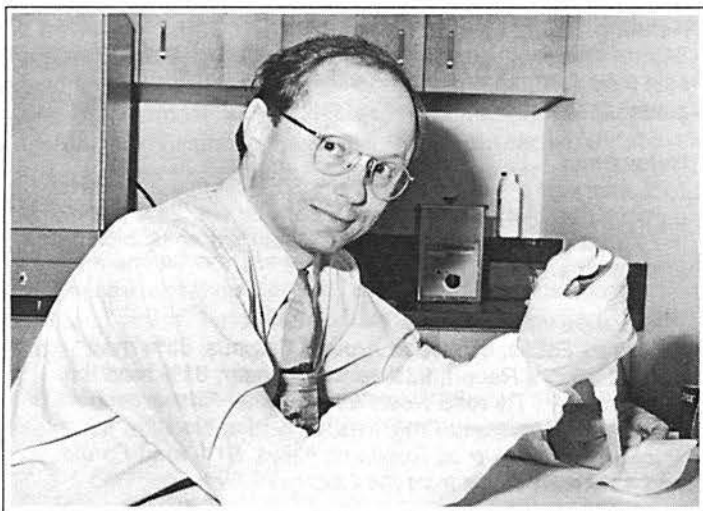
Thanks to everyone who participated in the Survey and congratulations to **Kim Falcigno** for winning the draw prize -- a \$25 gift certificate from the Alumni Bookstore.

— Frances Harding

Genealogy and Ancient Human Remains

A New Wave of Inquiry

by Robert Vukovic



The last few years have seen an abundance of public and academic interest in studies dealing with DNA. Up until quite recently, it was considered impossible to learn much from human and animal remains from hundreds of years ago. However, many of today's scientists are extracting genetic material from ancient bones and studying the social and biological implications of this new-found knowledge. One such researcher is Dr. Ryan Parr, a post-doctoral scholar here at Lakehead University.

Can the ancestors of Natives living hundreds of years ago be genetically traced to their modern day progeny? Parr is trying to answer this question by analysing samples of material found in the Armstrong mound, a native burial site close to the town of Rainy River, Ontario. For the last six months, Parr has been trying to evaluate ancestor-descendant relationships by comparing the DNA found in this mound, dating back to roughly 1000 A.D., to the genetic make-up of contemporary Native groups.

"What we're basically trying to do is determine the genetic relationships between contemporary and ancient American Natives and trace their encounters with different cultural groups," states Parr. His own findings have added much to this field of inquiry. In 1995, for his doctoral dissertation, he worked at the University of Utah genetically characterizing an ancient Fremont skeletal set using mitochondrial DNA recovered from bone.

How do such discoveries shed light on modern issues? Parr believes that "genetic genealogy" can determine movements of Native groups across the continent in ways that the mere examination of artifacts and ruins never could. "Specific genetic markers found in the remains of one area," he claims, "if found in another

area, could suggest migration. Changes in genetics can indicate intermarriage with other tribes or other such factors which could change a population."

A similar method of reasoning is evident in a second such initiative being spearheaded by Lakehead University Anthropology professor Dr. El Molto at a site in Egypt. Here, the examination of genetic material, which dates back from anywhere between 800 B.C. and 300 A.D. from the Dakhleh Oasis in Southern Egypt is in progress. How can this forward our understanding of Western history? Parr uses the example of the Roman persecution of Christians in the early days of Christianity. "This persecution could have driven Christians into remote regions such as Dakhleh. A study of the genetic intrusion of new people into the Oasis, in this case, Christians, could explain how change came to this area."

Parr is here courtesy of the Rockefeller Fellowship, an offer Lakehead gives to individual researchers, in this case from a joint venture of the Native Philosophy and Anthropology departments. Without a doubt, the information gained will be of interest to both disciplines, but can it be used outside of academe? Parr asserts that this is definitely the case.

"Certain animals in this area, such as moose, have a very low genetic diversity. That means that they could have trouble adapting to new environments when humans change or influence their habitat. Parr also suggests that a greater understanding of genetics will help us assess the impact of deforestation on almost any plant, mammal or fish, and use this knowledge to help preserve the environment. "By analysing their gene pools," he claims, "we may understand the impact of deforestation on plants and animal species."

Not only will this research benefit science, but Lakehead University itself stands to profit. As Parr puts it, "It is very important to have such activity here, as we have the natural resources at our doorstep. As well, individual people who are interested in fishing or hunting resources could pay Lakehead to analyse the genetic diversity of such populations. Such a paid-for service would be in the interests of both the ecosystem of this area and the University's finances."

Genetic studies are the wave of the future, and the fact that they are going on at Lakehead University is both exciting and promising. Parr is doing a great service for both science and our own institution by furthering the understanding of this subject, and his efforts will undoubtedly cultivate Lakehead's image as a fine and functional post-secondary establishment. This is definitely a study worth keeping an eye on in the future.

Robert Vukovic is one of several students participating in a student writing program sponsored by The Chronicle-Journal. It is called S.P.A.R.K. -- Lakehead (Students Producing Articles on Research Knowledge). For further information about the Paleo-DNA Laboratory at Lakehead University contact the Department of Anthropology at 343-8632.

Lakehead Scholars funded by National Science Foundation

Dr. Ryan Parr and Dr. El Molto (Anthropology) have received a \$45,000 (U.S.) grant from the National Science Foundation for Paleo-DNA investigation of a Romano-Christian cemetery in Egypt.

NSERC RESULTS FOR 1997-1998

The Natural Sciences and Engineering Research Council recently announced the results of their annual research grant competition.

Total NSERC funding to Lakehead University was up this year by about 5 per cent and our application success rate for new research grant awards was 71 per cent (excludes equipment grants). In total Lakehead researchers received 40 awards valued at \$768,768. The following is a list of NSERC recipients at Lakehead who were successful in the 1997-1998 research grants competition.

Department of Biology

Dr. R. Freitag, "History of the North American Cicindelidae," \$11,100, Renewal (3-4)

Dr. M. W. Lankester, "Parasite and diseases of northern animals," \$20,000, Renewal (2-4)

Dr. A. U. Mallik, "Retrogressive succession and biodiversity in nutrient poor cool-temperature forests after disturbance," \$10,000, Renewal (2-4)

Dr. D. W. Morris, "The evolution and importance of habitat selection," \$41,000, New (1-4)

Dr. R. J. Omeljaniuk, "Neurochemical receptors, actions, and mechanisms in fish brain: pituitary axis," \$20,000, Renewal (4-4)

Department of Chemistry

Dr. A. N. Hughes, "Reactions of transition metal-phosphine systems with hydro-borate and other reducing agents in the presence of carbon monoxide and isonitriles," \$28,000, Renewal (4-5)

Dr. S. D. Kinrade, "Aqueous chemistry of silicon," \$22,000, Renewal (2-2)

Dr. N. A. Weir, "Studies of photodegradation of polymers," \$20,000, Renewal (4-4)

Faculty of Engineering - Chemical

Dr. L. J. Garred, "Mathematical modelling studies in renal failure patients," \$15,500, New (1-4)

Dr. I. Nirdosh, "Removal of radionuclide and heavy metal contaminants from low-level radioactive waste," \$20,000, Renewal (4-4)

Dr. V. R. Puttagunta, "Viscosity prediction and radiation assisted upgrading of heavy oils," \$19,600, Renewal (2-4)

Dr. A. N. Hughes, "Reactions of transition metal-phosphine systems with hydro-borate and other reducing agents in the presence of carbon monoxide and isonitriles," \$28,000, Renewal (4-5)

Dr. S. D. Kinrade, "Aqueous chemistry of silicon," \$22,000, Renewal (2-2)

Dr. N. A. Weir, "Studies of photodegradation of polymers," \$20,000, Renewal (4-4)

Faculty of Engineering - Civil

Dr. S. M. Easa, "Highway geometric design for safety," \$18,700, Renewal (4-4)

Dr. K. D. Eigenbrod, "Effects of freezing and thawing on the hydraulic-conductivity of fine grained soils," \$11,200, Renewal (3-4)

Dr. S. A. Mirza, "Strength and stiffness of slender composite steel-concrete beam-columns," \$16,700, Renewal (4-4)

Dr. U. S. Panu, "Extension of pattern recognition based methodology for infilling of missing values in streamflow records," \$17,700, Renewal (4-4)

Faculty of Engineering - Electrical

Dr. K. Natarajan, "Controller design for some discrete time periodic systems," \$16,000, Renewal (2-3)

Faculty of Engineering - Mechanical

Dr. M. Liu, "Finite element analysis of nonlinear shell structures; random vibration analysis of general nonlinear structures," \$10,000, Renewal (4-4)

Dr. G. F. Naterer, "Binary constituent solid-liquid phase transition in materials processing," \$14,000, New (1-4)

Dr. H. T. Saliba, "Theoretical and experimental stability and vibration analysis of plates and structures," \$16,000, New (1-4)

Dr. A. Sedov, "Ultrasonic beam models for NDE applications," \$6,780, Renewal (2-3)

Dr. B. Singh, "Analytical, numerical and experimental studies in jet cutting of oil sands," \$13,300, Renewal (3-4)

Department of Geology

Dr. G. J. Borradaile, "Rock magnetism," \$60,600, Renewal (3-5)

Dr. P. W. Fralick, "Paleogeographic reconstruction of Mesozoic terrains in western superior province," \$15,200, New (1-4)

Dr. R. H. Mitchell, "Petrology of kimberlites and alkaline rocks," \$75,000, Renewal (2-5)

Department of Mathematical Sciences

Dr. M. W. Benson, "Parallel iterative methods," \$8,000, Renewal (4-5)

Dr. S. Di, "Optimality conditions for nonsmooth optimization problems differentiable at one point and numerical methods," \$6,000 (2-4)

Dr. C. T. Hoang, "Algorithmic graph theory with emphasis on perfect graphs," \$13,000, Renewal (3-4)

Dr. W. Huang, "Numerical algorithms for linear constrained convex programming problems," \$8,400, Renewal (3-4)

Dr. T. Miao, "Geometric properties of Bp (G) and the exposed points of the set of invariant means," \$11,200, Renewal (3-4)

Dr. Y. Yao, "Multistrategy information retrieval," \$14,300, Renewal (3-4)

... continued on p. 8

Dr. J. Zhou, "Robust Experimental Designs for linear models with correlated errors," \$15,400, Renewal (2-4)

Department of Mathematical Sciences - Computer Science

Dr. X. Li, "An abstract machine for high performance logic programming," \$14,000, New (1-4)

Department of Physics

Dr. M. M. Dignam, "Coherence in semiconductor Nanostructures/Erbium-Doped fiber amplifiers and lasers," \$23,000, New (1-4)

Dr. M. C. Gallagher, "Heteroepitaxy of ultrathin films of metals and metal oxides," \$25,000, New (1-4)

Dr. M. C. Gallagher, "Control system for a scanning tunneling microscope," \$46,988, New (1-1)

Dr. M. H. Hawton, "Photon-matter interactions/physics of adsorbed water," \$13,000, Renewal (2-4)

Dr. W. J. Keeler, "Optical spectroscopy of semiconductor heterostructures and heterogeneous materials," \$14,500, Renewal (4-4)

Dr. V. V. Paranjape, "Research in solid state physics," \$8,000, Renewal (2-4)

Dr. W. M. Sears, "The electrical properties of the surface-gas interface of wide band gap semiconductors," \$11,600, New (1-4)

Department of Psychology

Dr. C. A. G. Hayman, "Episodic memory as a source of cognitive binding," \$18,000, New (1-4)

Free Access to Electronic Journals Published by the National Research Council

The Chancellor Paterson Library subscribes to seven electronic journals published by the **National Research Council's NRC Research Press**. As of May 15, 1997 free access to the electronic version of these titles is restricted to 1997 subscribers to the paper version.

To access the journal and view the full text articles you can go to the NRC's WWW site -- <http://www.nrc.ca/cisti/journals/>. Before you can reach the journal's table of contents you will be prompted for a **Username/Password** combination. That information is available by contacting the Chancellor Paterson Library Information Desk at (807) 343-8302.

All the information required to access the site and acquire the Adobe Acrobat reader required to view the journals is available on the LU Library Home Page:

Go to <http://www.lakeheadu.ca/~librwww/home.html>, click on **Services and Resources**, then click on **Electronic Journals**.

DISPATCHES

Fee increases at University of Toronto

Fees in The University of Toronto's law, pharmacy, dentistry, medicine and management's MBA program will rise 20 per cent. Fees of first-entry undergraduates and graduate students will increase 8.6 per cent.-- *Source: The Bulletin, April 28, 1997*

David Smith interim President of Trent University

David Smith, former principal of Queen's University and the Chair of the recent Ontario government task force on the future of postsecondary education, will serve as interim president of Trent University for one year starting July 1. The appointment of the courtly, calm 65-year-old comes as Trent tries to recover from a two-week strike last December and the subsequent, abrupt resignation of president Leonard Connolly. With Trent about to search for a permanent senior administration for July of 1998, Mr. Smith will play two roles recommended by the outside advisers. He is to represent the university with government fund raisers, alumni and others, and to repair the frayed relations on campus.-- *Source: The Globe and Mail, May 5, 1997*

Guelph Scores a Coup

While Ontario applicant levels dropped 2.6 per cent last year, the applications received by Guelph increased 13.6 per cent. The reason? New, more effective promotional materials, says Guelph's Director of Enrollment Management and Registrarial Services, Chuck Cunningham, plus strong support from "student ambassadors" who went back to their high schools to promote the university. "Over 200 of our own undergraduates go out to the high schools for us," says Cunningham. "What they tell those students really reflects the reality of what we have to offer, and the students know it." Such testimonials are an effective form of promotion for any post-secondary institution." --*Source: Ensemble (CCA Newsletter), Spring, 1997*

OCUFA Honors Best in Teaching & Librarianship

Winners of the 1996 Ontario Confederation of University Faculty Associations (OCUFA) Teaching Awards are:

William Coleman, Department of Political Science, McMaster University; Gerald Ginsburg, Department of History, York University; Peter Haase, Department of Anatomy & Cell Biology, The University of Western Ontario; Marlene Kadar, Department of Humanities, York University; Donna Palmateer Pennee, Department of English, University of Guelph; Margaret Priest, Department of Fine Art, University of Guelph; Kerry Rowe, Department of Civil Engineering, The University of Western Ontario; and Melvyn Usselman, Department of Chemistry, The University of Western Ontario. The winner of the 1996 OCUFA Academic Librarianship Award is Dorothy Fitzgerald, Health Sciences Library, McMaster University. -- *Source: Press Release*

"Research University Without Walls" launches web site

www.ciar.ca provides comprehensive information on the Canadian Institute for Advanced Research (CIAR) -- *Source, News Release via Canada Newswire, April 7, 1997*

Forecasting Enrolment: An Art or a Science?

by Kerrie-Lee Clarke

Director of Lakehead University's Enrolment Management Initiative

Forecasting enrolment is a topical issue these days at all universities not just Lakehead. After two decades of growth, undergraduate enrolment in Canada has levelled at around the 500,000 mark and has remained stable since 1992. As usual at Lakehead, our enrolment trend has differed somewhat. Our enrolment peaked in 1994 and that did not surprise us as we are usually behind the trend. However, since 1994 our enrolment has declined by 12 per cent and is now seven per cent below our 1992 level. That concerns us. Yet projecting enrolment has always been a tricky science.

From 1972 until 1982, there was a steady increase in university enrolment. An increasing cohort of 18 to 21-year-olds and an ever-increasing participation rate particularly by women, accelerated growth much faster than anticipated. There was also the "cohort effect" as it was called where families with fewer children had the resources per family member to devote to education. For the next 10 years until 1992, enrolment grew despite a declining cohort because the participation rate continued to increase, again surprising the prognosticators of enrolment. However, by 1992, both the participation rate and the cohort size had levelled off. You might expect that this levelling effect would make enrolment forecasting easier. Wrong!

In a recent article published in the April, 1997, issue of the Association of Universities and Colleges of Canada's *Research File*, Herb O'Heron describes just how complicated enrolment forecasting can be with complex issues and a multiplicity of factors determining the shape of university enrolment. The social, economic and political factors become more important as people try to adjust to an increasingly complex, rapidly changing, knowledge-based global reality. O'Heron argues that no single factor is causing the plateau in enrolment; rather a confluence of several factors is responsible and cites the following:

- the size of the 18 to 21-year-old population has stabilized;
- the economy, although out of recession, is not growing strongly and therefore has no major impact on enrolment;
- the value of a university degree has hit a plateau;
- tuition costs have gone up significantly creating a barrier for some students;
- both family income and family size have remained stable;
- personal savings rates have declined sharply;
- student assistance has moved to a mainly loan-based system leading students who are debt averse to increasingly question their decision to enrol at university;
- recent graduates are facing real incomes at about the same level as graduates in the 1980s.

"The decision to go to university is not a quick, spur-of-the-moment choice, but rather is a value-laden process, mulled over for a long period of time."

-- Herb O'Heron, AUCC, Research File

O'Heron predicts that the plateau will continue unless steps are taken to remove barriers to university education and to provide young people with clear messages about the value of a university education both for the intrinsic values that university education offers and for economic reasons.

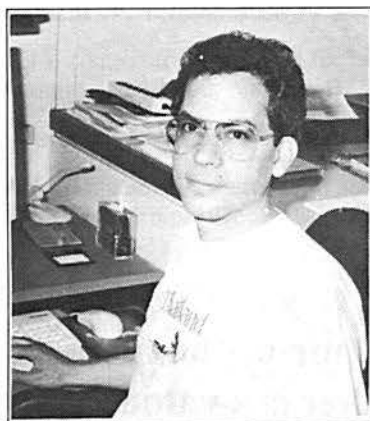
Meanwhile, an article in the May/June edition of *Change* magazine predicts the total demand for higher education in the U.S. to increase by 30 per cent over the next decade. The levelled cohort will again grow both in Canada and the States and complex economic incentives are there.

So who is right and where will Lakehead University find itself? It is not an easy answer. We will continue to be challenged by lower regional demographics and our location in the province. It will be much easier for institutions in the greater Toronto area to maintain optimum levels of enrolment because of a much larger population base where students can stay at home and contain costs. The participation rate is already higher in other areas of the province than it is in the northwest.

On the plus side we have faculty and staff willing to work with students to provide the best university experience possible. As well, we can draw upon our unique mix of programs, the success of graduates, and our "Superior By Nature" location in the heart of Northwestern Ontario.

A recent study by OISE/UT indicates that the economic benefits of a university education with increased earning power, better job opportunities and lower unemployment, continue to be recognized. According to O'Heron "what is needed now is a broader understanding of the various dimensions of demand that interact to influence participation rates, for cycles and structural changes in the economy, changing perceptions of the value of a university education and the practical issue of paying the costs. The decision to go to university is not a quick, spur-of-the-moment choice, but rather is a value-laden process, mulled over for a long period of time."

Profile



Dr. Marc Dignam
Assistant Professor
Department of Physics
CB 4050 (ext. 8465)

History: Started working at Lakehead University in August, 1996, having spent two-and-a-half years working in the area of fibre optics research for a high-tech company in Montreal.

Education: Completed his Master's and PhD in Theoretical Physics at the University of Toronto (PhD Thesis: Electrical and Optical Properties of Semiconductor Nanostructures). Also a Post-Doctorate at Bell Laboratories, New Jersey, one of the premier research facilities in the world.

Motivation: Made the switch from industrial research to a university career because: "I enjoy teaching and I wanted to pursue the research that interested me as opposed to research that might be financially interesting to a company."

Year-to-Date Accomplishments: Applied for and received a \$23,000 NSERC grant (see page 8). Prepared and taught four courses: Introductory Physics for Life Sciences, Advanced Classical Mechanics, Computational Physics, and Modern Physics.

Summer Plans: Looking forward to spending time with his wife Suzanne, their two-year-old son Ethan and new-born daughter Emma. Also hoping to do some canoeing, camping and windsurfing in the great Northwest.

Why he chose Lakehead: "I wanted to remain in Canada and the Physics department here is very good. Everyone is NSERC-funded and enthusiastic about research and teaching."

Technologists honour Ralph Birston

Faculty of Forestry technical staff honored their recently retired colleague, Ralph Birston, by contributing over \$5,000 toward an endowed scholarship in his name. According to Frank Luckai, "Ralph Birston has contributed a great deal to the Faculty of Forestry over his 23 years at Lakehead and his retirement last year provided a great opportunity to give the scholarship a special significance." Other members of the technical staff who gathered to celebrate with Birston at his retirement party and contributed to the fund were Don Barnes, Nancy Luckai, Lynne Sevean, Bob Pickard, Brian Moore, Steve Elliott, Gil Vanson, Pat Cybulski, Sarah Gooding and Kathleen Gazey.

Wall of Fame

The 1997 inductees to the Lakehead University Wall of Fame were honoured at a dinner in early June: Steve Daniar, Athlete (wrestling); Lynne (Brown) Johnson, Athlete (basketball); George Birger, Builder, and the 1979-80 Wrestling Team coached by Dr. Bob Thayer. Each year two athletes, one builder and one team may be inducted.

Lakehead University Summer Institute for Advanced Studies (LUSIAS)

This summer Lakehead will be offering graduate courses in the application of computing technologies to research in the humanities and social sciences. These courses address the method and theory of multimedia techniques to integrate text, still and video images, and sound.

Course and Instructor Evaluation

Twenty-one participants attended an all-day workshop in May organized by The Senate Committee on Teaching and Learning to address the complex issues of course and instructor evaluations and how they relate to the promotion of excellence of teaching and learning at Lakehead. The Committee's goal is to prepare a report and make recommendations to Senate in the fall. Faculty and staff who have comments or suggestions on this important topic are encouraged to make their views known to any of the Committee members over the course of the summer: Dr. Ken Brown, Professor Ann Clarke, Dr. Peter Duinker, Dr. Chinh Hoang, Professor Doug Martin and Geraldine White.

Shelter House 24-hour Corporate Relay

An enthusiastic team from Lakehead huffed and puffed their way around a local track

as part of the annual 24-hour Corporate Relay in support of Thunder Bay Shelter House. The Lakehead team included Cheryl Balacko, Sutha Vinayagamorthy, Norma Gibson, Bill Bragnalo, Betty and Amber Hygaard, Terri Cloutier, Rhonda MacDonald, Becky Hurley, Geraldine White, Heather Williams, Phyllis Bosnick, Gail and Amanda Everall, Kathy Webb, Marie Ferguson and Susan Viitala. Team Captains Cheryl Balacko and Sutha Vinayagamorthy reported that Lakehead raised \$1148 which was added to the overall total of over \$113,800! Balacko extends a special thank you to the Bragnalo family for organizing the tent and banner, and to "all the extra walkers who kept us awake, alert, and cheered us on." She hopes next year's team will be larger and have a theme. If you have any ideas or would like to get involved, call her at 343-8335.

Thanks from Gary

"I would like to express my appreciation to each individual in the University community for the assistance they have provided to me during the years I have served as Director /Dean of the Faculty of Engineering. Also, thanks to everyone who had the opportunity and time to attend my reception." -- Dr. Gary Locker

The Northern Educational Centre for
Aging and Health (NECAH)
and
Lakehead University
is hosting

FORUM'97

The Changing World of Seniors
Seniors Changing the World
June 19 to 21, 1997

at the Airline Hotel in Thunder Bay
with keynote speakers:

Beverly Jean Brunet
Doris Marshall
Anju Joshi and Tim Rose
Lee and Michael Stones

Topics include Palliative Care and Alzheimer Disease; Seniors Who Have Changed History; Hearts for Life, A Community Program on Cardiovascular Disease; Problem Drinking of Older Adults; Coping with Bereavement; Living Wills; Ethics of Age Discrimination; Couple Therapy with Seniors; Effective Cardio-respiratory and Strength Training Programs for Older Adults; Value Based Practice; and Elder Abuse.

For information/registration
call NECAH at 343-2126



Students and Parents get a "Headstart" on Campus Life

August 7-8, 1997

"I'll know we've done our job if the participants feel they have made the right choice and are happy about everything at Lakehead -- the people, the programs, the residence and the food!"

-- Angee Lockhart, Secondary School Liaison Officer

Again this year Lakehead will hold a HEADSTART orientation program for first-year students and their parents in early August. It's a chance for first-year students to live in "Rez," tour the campus and get the inside scoop on what it's like to be a university student.

Since the HEADSTART program began in 1994, staff and faculty have been working together to fine-tune the agenda. For most of the two-day session, parents are separated from their children. They follow an orientation program of their own with a two-hour information session that includes the perspective of students, faculty and the University. This year, however, a new idea is being introduced -- a "Working Lunch" in the Residence Cafeteria so students and their parents can visit different information booths detailing various student services on campus such as counselling and financial aid.

Lakehead is hoping to attract 135 students to this interactive orientation experience that will have a northern theme. Coordinator Angee Lockhart is looking forward to working with 12 team leaders drawn from the ranks of upper-year students. Her goal is to have all the participants feel they are "already part of Lakehead" by the time classes begin in September.

For information about HEADSTART '97 call Angee Lockhart at 343-8527. For information about the Parents Program call Norma Smith at 343-8522.

Note: The cartoon on this page was sent to us by Gary Wren, a parent and graphic artist from Grand Valley, Ontario, who attended last summer's HEADSTART program.

HEADSTART '97 A University Orientation

Thursday, August 7, 1997

12 noon	Check in at Residence
1:30	Icebreakers with team leaders outside
2:14	Campus tour
3:30	Choice sessions:

1. Survival Secrets: High School vs University Academics
2. Professor's Top 10 Frequently Asked Questions
3. Money Matters: Financial Aid and OSAP
4. Getting Involved: How to make the most of your university experience

4:45	Group Photo/Team Leader Introductions
5:15	Autograph Hunt
5:30	Dinner
6:00	Introductions
6:30	Norma Jean's Q & A's
7:00	Mock Lecture/Note taking with Professor Susan Sajna-Hebert, Psychology
	Freetime
8:00	Bonfire

Friday, August 8, 1997

8:30	Breakfast
9:20	Registration

1. Information
2. Departmental Meetings with professors
3. Register, Pay, ID

12 noon	Working Lunch
1:30	Student Panel
2:15	Scavenger Hunt
2:55	Wrap Up, Evaluations, Prizes, Check-out

Parents Program

Campus Tours
Evening Social and BBQ

Group Home & Auto Insurance Plan

for LU faculty, staff & alumni

Sponsored by

Lakehead University Alumni Association

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

Call for a Quote

1-800-327-5580

DAY DREAMS & DRAGONFLIES

Nanabijou Childcare Centre is offering Summer Care for children aged 6-10 on campus. For information contact Sheila Wilhelm, Director, at 343-8369.

ACADEMIC PUBLISHING WORKSHOP

Dr. Michael MacLean, a professor of gerontology at McMaster University and adjunct professor to the Department of Social Work at Lakehead will offer a series of publishing workshops in June for faculty, graduate students and community researchers. Dr. MacLean has experience as an author, section editor of the *Canadian Journal on Aging*, and editorial board member of the *Canadian Social Work Review*.

Faculty Workshop

June 18

Graduate Student Workshop

June 23

Community Researchers' Workshop

June 24

Each session will be held from
10 a.m. to 12 noon

For Information/Registration contact
Jane Taylor at 343-2126
or Lynn Wilson at 343-8785

OSOTF DRESS DOWN DAYS

July 11
August 8
September 12
October 10
December 12
January 9, 1998
March 13
April 10
May 8

JOB SEARCH WORKSHOP

exclusive for Lakehead alumni
Saturday, July 26, 1997

Bora Laskin Computer Lab
\$50/person (includes lunch & coffee)

Topics will include evaluation of attributes
and interests, resume writing,
job searching, using the Internet.

For information call
Alumni Services 343-8155

CHANCELLOR PATERSON LIBRARY HOURS

June 17 to July 1, 1997

Monday to Friday
8:00 a.m. to 5:00 p.m.
Weekends CLOSED

SUMMER SESSION

July 2 to August 15, 1997

Monday to Thursday
8:00 a.m. to 10:00 p.m.
Friday
8:00 a.m. to 5:00 p.m.
Saturday
11:00 a.m. to 5:00 p.m.
Sunday
1:00 p.m. to 6:00 p.m.

CLOSED Monday August 4

FIELDHOUSE ACTIVITIES

Summer Hockey Camp

Starting August 4th

Summer Basketball Camp:

Co-ed Camp

(ages 9-12) August 5-8

Boys' Day Camp

(ages 12-15) August 18-22

Girls' Day Camp

(ages 12-15) August 25-29

Summer Volleyball Camp:

Girls (ages 12-16) August 11-15

MAINTENANCE CHOICE GOLF TOURNAMENT

June 20, 1997

Tee-off Time 1:30 pm

Shotgun Start

Centennial Golf Club

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

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

We encourage you to send in your
news. Deadline for the September
issue is September 2, 1997.

14TH ANNUAL ALUMNI ASSOCIATION OPEN

Friday, August 22, 1997

Tee-off Time 2:00 pm

Shotgun Start

Centennial Golf Course

\$40 per person includes green fees and
steak barbecue served in the Faculty
Lounge.

Call 343-8155 to register Fax:343-8999.

Sponsored by Financial Concept Group

Agora

June 1997

Vol. 14, No. 6

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

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