

Agora

A Newsletter for Faculty and Staff

*Lakehead University
to graduate
its first class in*
**Software
Engineering
Technology**

by Usree Bhattacharya

Lakehead University is poised at an exciting point as the first students from its two-year diploma program in Software Engineering Technology will graduate in May 2001.

The program has trained and honed the skills of students in the field since its establishment in the fall of 1999. It is fast becoming a good educational option for students from within and outside the region.

The thrust of the program is on the applied physical aspects and effects of programming on engineering systems.

Dr. Natarajan, a professor of electrical engineering at Lakehead and one of the instructors, says that the program involves day-to-day activities of programming, maintenance, installation, diagnosis, troubleshooting and interacting with the hardware and the software in a computer environment. "Realizing that software design has critical consequences on engineering systems is an important theme of the program," he adds.

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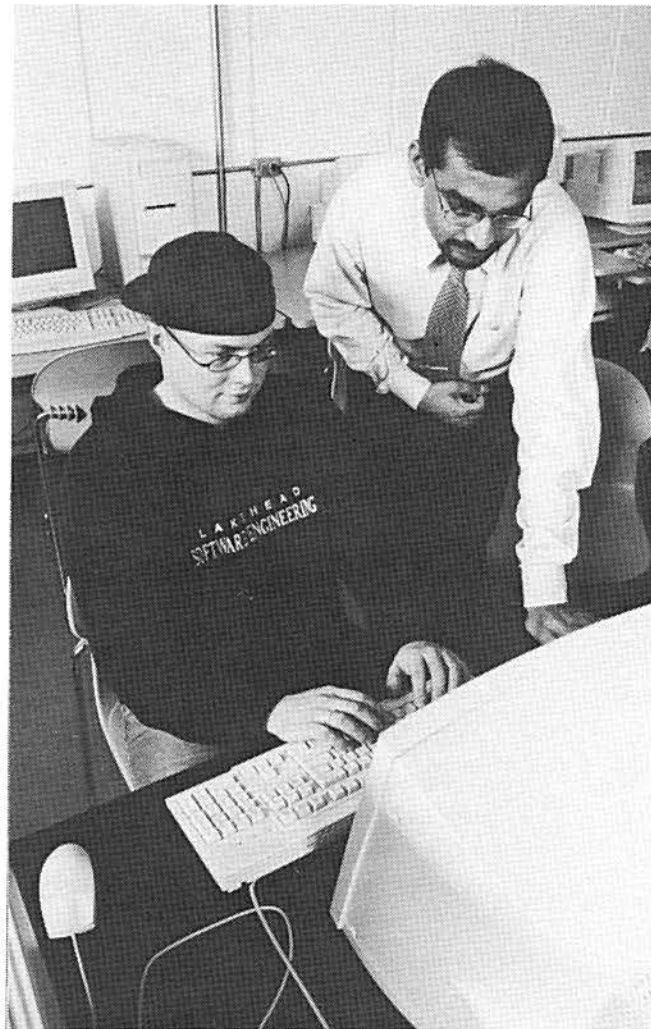
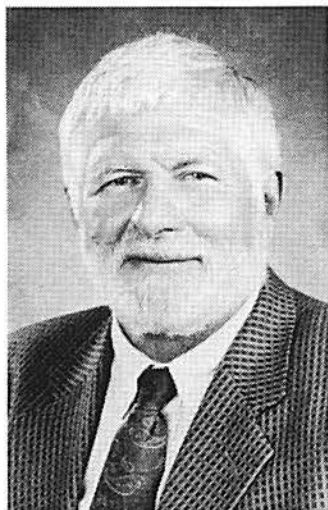


Photo: Peter Puna

Wayne Koski is a software engineering student enrolled in the final year of the diploma program. He is shown here working with Dr. Sultan Siddiqui, a Lakehead graduate who joined the Faculty of Engineering last summer.

Lakehead is the only institution in Canada that offers a unique combination of Engineering Technology diploma programs followed by two-year post-diploma degree programs that lead to the Bachelor of Engineering degree in chemical, civil, electrical, mechanical or software engineering

From the President's Desk



by
Dr. Frederick F. Gilbert
President

Senate passed a restructuring motion that will divide the Faculty of Arts and Science into three new Faculties. This action will be before the Board of Governors for their confirmation at their next meeting. While this represents a compromise response to the restructuring issue and, therefore, does not fully meet anyone's expectations including my own, it nonetheless should be viewed as a positive step forward. The University will have a number of small Faculties, and although the administrative bureaucracy created may be hard to justify because one of the purposes of restructuring was to reduce administrative structure, the new structure will facilitate the interaction of academic units and equalize the balance of power in Deans' Council. I have hope that new alignments will help us move toward more inter- and multi-disciplinary programs. The small Faculties must reach out to each other if we are to successfully meet the rapidly changing demands of students and society. Our high school application rate continues to decline defying the overall increase in these applicants but we have seen increases in the 105 category (transfer and mature students) in recent years. Some of the high school situation can be attributed to the Maclean's ranking but some also represents a slowness to embrace exciting, innovative and creative academic programming that would appeal to the interests of today's students. Our progress is real but painfully slow at a time when other institutions are rapidly embracing new configurations, alliances and programs. The burgeoning demand for a Health Sciences Degree and the movement of universities like McMaster to meet that demand is but one example. Our most attractive programs tend to be those where we have established a niche reputation be it Outdoor Recreation, Parks and Tourism, Concurrent Education, or fledgling programs like Bio-molecular Science. We have good solid programs to provide the basis for new offerings that

combine internal and external strengths. The new PhD in Education provides such an example but there exist many such opportunities to link and build new Lakehead program strengths with other universities and colleges to form collaborative new degree programs. Again, the southern Ontario universities have shown leadership in this area and a number of successful collaborative programs are underway.

The new Advanced Technology and Academic Centre will give us incredible potential to build capacity in interactive distance learning. This should be an effective two-way communications process with Lakehead University courses being delivered off campus electronically and incoming courses supporting efforts like the virtual components of the proposed Medical School. The potential to tie the University into a productive learning environment that will extend well beyond our physical campus in Thunder Bay is indeed tremendous.

The time for transition and to establish a competitive position is short. The people and most of the tools are in place or will be shortly. All that is required is a collective will to make things happen at a more rapid pace. Perhaps now that the academic restructuring issue is behind us, it will be possible to focus on more critical issues that will impact the future of our University such as the outstanding Graduate and Undergraduate Education objectives in the Strategic Plan. We must be prepared to respond as we move into an era when fiscal resources may be more compatible with our actual contribution to the Ontario system and give us the capacity to support new, fundamentally needed initiatives. I am optimistic that we can meet this challenge and that the funding so desperately needed will soon be available.

An Update on Lakehead's Hockey Program

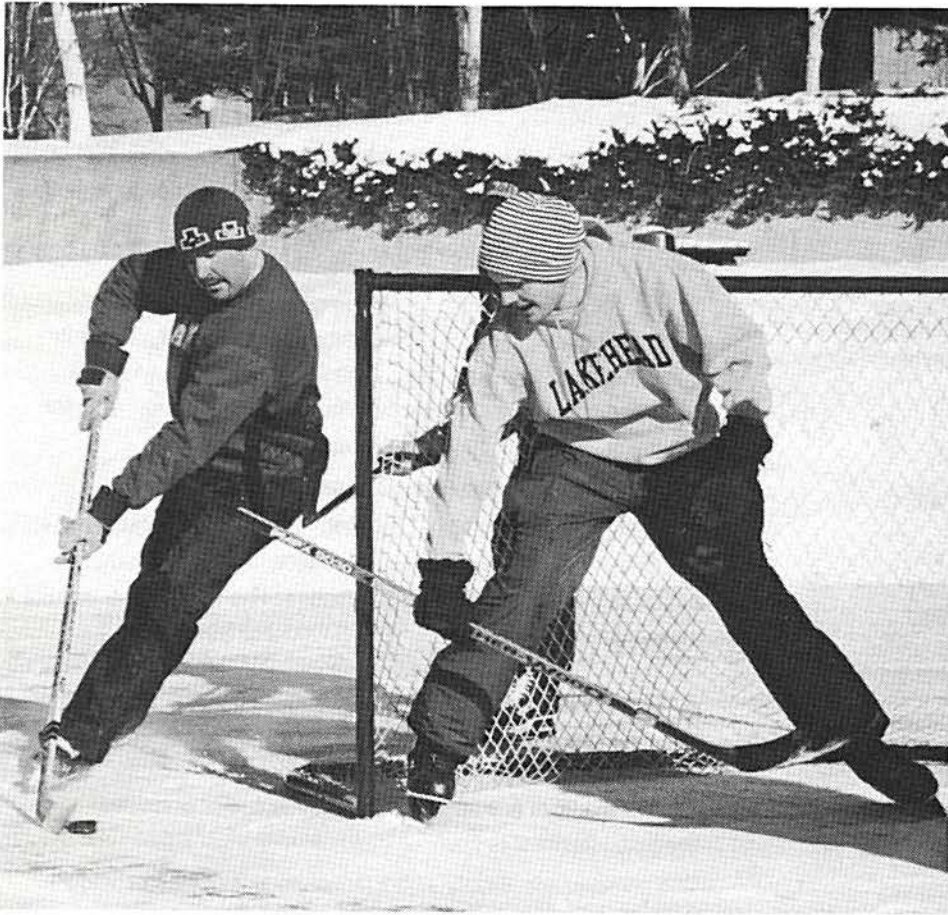


Photo: Rob Linke

Director of Athletics Tom Warden reported to Senate on January 26 that Lakehead had secured the necessary financing to launch a men's hockey program in the fall of 2001. It is being funded entirely by private investors and will be run by an elected Board of Directors which will include a student representative, a faculty representative, and the director of athletics. If successful, Lakehead will use the same model to launch a women's program at a future date.

"Although the hockey program will be run like a small business," says Warden, "the Board will be operating within a framework that fully respects the academic regulations governing student athletes at Lakehead."

The team will play against other university men's teams in the Ontario University Athletics (OUA) league and home games will be played in the Fort William Gardens. Warden is anticipating there will be about 14 games per year and up to six exhibition games which might include matches involving American teams. He is looking into providing a shuttle bus service between the University and the Gardens.

The majority of the players will be recruited from Northwestern Ontario, although Lakehead also will be recruiting nationally and internationally. — Frances Harding



2001 CIAU Wrestling Championship
March 1-3, 2001

For information and tickets call Athletics at 343-8213

AGORA — February 2001

High Flying Promotion

A profile on Dr. El Molto and his research comparing ancient peoples in Egypt, Mexico and China, was featured in the January issue of Singapore Airlines' in-flight magazine, *SilverKris*.

Author Elle Andra-Warner writes: "Molto's greatest personal achievement is his role in the creation and development of Lakehead University's Paleo-DNA (ancient DNA) laboratory. A world-class state-of-the-art advanced facility, it is one of only five in existence to offer fee-for-service to researchers worldwide."

The article describes Molto as being "one of the foremost experts in the world in the field of paleo-population studies" and goes on to highlight his achievements since joining the faculty at Lakehead in 1975.

The magazine is seen by about 1 million passengers who fly Singapore Airlines each month.

OSAP Default Rate

Graduates from Lakehead do a good job of paying off their OSAP loans. Statistics issued by the Ministry of Training, Colleges and Universities show the default rate on loans issued by the Ontario Student Assistance Program (OSAP) for Lakehead University graduates was 7.9% for the year 2000. The rate for the university system was 7.1% while the rate for the overall post-secondary system (including universities, colleges and private institutions) was 15.7%. The Ministry's plan is to reduce the overall default rate in the post-secondary system to 10% by the year 2003.

Superior Science

Lakehead's Superior Science program has been accepted as the 28th full member of Actua -- a national organization dedicated to helping young Canadians develop skills, attitudes and character to succeed in school, work and life. Goals for 2001 include increasing the number of children involved in the summer camps to 336 from 302, hiring more staff, and expanding the travelling workshops to schools in Northwestern Ontario.

MILESTONES COMPLETED

- ★ December 2000. Solaris server arrives. This is the hardware on which the new library system will reside.
- ★ December 2000. Orientation Training . Three library staff members receive an introduction to the administrative functions of the new system.
- ★ Functional Training. January 2001. Eight library staff members receive training on the five main functions of the new library system.
- ★ February 2001. The entire file of bibliographic and authority records from our current system is sent to Endeavor to be analyzed and converted to the new system.

Forthcoming Features:

- point and click design and pull-down menus
- enhanced keyword and Boolean searching
- easy downloading and e-mailing of records
- links to full text electronic journal and other resources
- ability to click on links within catalogue records
- smooth interface to searching a selection of other library catalogues

Patrons will be able to:

- access their library records (check-outs, recall, interlibrary loans, etc.)
- renew and recall items
- link to electronic reserves

Most of these features will be available with the launch of the new system on June 30, 2001 and others will be phased in after this date.

Joan Seeley

WHAT BENEFITS DOES THE NEW SYSTEM OFFER?

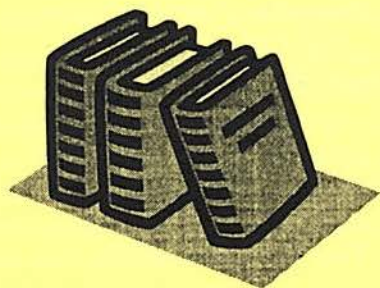
Voyager is a modern system that will provide the Library with greater flexibility than is currently possible. Many of the services offered by the Library (the online catalogue or opac, circulation, the Website, etc.) have the ability to become one seamless interface accessible through a graphical browser such as Netscape or Microsoft Explorer. The Web catalogue will make it possible to offer a single point of access to both the Library's holdings and to multimedia electronic information sources wherever they may be.



VOYAGER LIBRARIES

Here is a selected list of libraries that are currently using Endeavor's Voyager Integrated Library System.

Library of Congress http://catalog.loc.gov/
University of Connecticut http://www.lib.uconn.edu
Museum of Modern Art http://library.moma.org
University of Purdue http://www.lib.purdue.edu/
Auburn University http://aubiecat.auburn.edu/
TRELLIS (Univ. of Waterloo/ Univ. of Guelph/Wilfred Laurier) http://trellis1.tug-libraries.on.ca/
Queen's University (click on Library Catalogue QCAT) http://library.queensu.ca/
National Library of Medicine http://www.nlm.nih.gov/locatorplus/
Polytechnic University http://dibner.poly.edu/
University of Victoria http://voyager.library.uvic.ca/
University of Pennsylvania http://www.franklin.library.upenn.edu/



NEWS FLASH

From *Endeavor corporate news*
(January 12, 2001):

"... Endeavor Information Systems announced today that the University of Cambridge, Cambridge, England, has purchased the Voyager integrated library management system for its 97 university and college libraries. The University of Cambridge Libraries will employ Voyager to manage over 7 million holdings. "

INUKSHUK SERVER TO POINT THE WAY

The new library server, a Sun Enterprise 420R, was set up in December 2000. Inukshuk, a symbol of the north and a way of communicating information and guiding people to a destination, was selected as the hostname for the new server.

There is quite a bit of processing power packed into the new rack-optimized Sun server. Inukshuk can be considered the second fastest server on campus and can make 1.8 billion calculations per second with its four 450-MHz UltraSPARC-II™ central processing units. Along with 4GB of memory, the server currently boasts 180GB of total hard disk drive capacity with more room for expansion. Sun technology, which includes 40 MB/s Ultra SCSI disks and Ultra SCSI PCI cards, will provide maximum throughput in the system and the speed needed for a modern library system.

To minimize downtime, redundancy has been built into the server. The hard disk drives have been mirrored using a redundant array of inexpensive (or independent) disks (RAID) configuration. If one disk should fail, information can be constructed from the remaining disks and the server will continue to be fully functional while the failed disk is being replaced. Redundant power supplies within

the server also minimize internal system failures and its location in the machine room of the Braun Building means that the server will be connected to an uninterrupted power supply (UPS) that was installed during this past summer to provide the machine room with more than two hours of power in case of external outages. Several other redundant components will also minimize unnecessary downtime and make the server fully available 24x7.

Inukshuk runs Solaris 8, the latest UNIX operating system from Sun. A core suite of application software includes Voyager™ library system software from Endeavor, Oracle™ relational database management system software and Apache™ web-server software. This software will provide the library with an effective management tool while enabling the campus community to take advantage of a Web-based interface and several features that are not available with the old library system.

With this spectacular combination of hardware and software, Inukshuk will be the cornerstone to the new library system and will be able to point to the collection of print resources within the library as well as the virtual world of information resources.

Michael Hohner

ENDEAVOR IMPLEMENTATION TEAMS

The implementation of the new library system involves careful planning and testing. Following is a list of committees, teams and groups that have been formed to facilitate this process.

Management Implementation Team
Ian Dew - Chair/Project Manager

Communication Team
Gisella Scalese - Chair

Prototyping, Interfacing & Conversion
Ian Dew - Chair

Technical Team
Michael Hohner - Chair

Training Coordination Team
Gisella Scalese - Chair

Acquisitions/Serials Team
Louise Wuorinen - Chair

Cataloguing Team
Ian Dew - Chair

Circulation Team
Frank Sebesta - Chair

M.I.S Team (Management Information System)
Frank Sebesta - Chair

Public Access Team
Shirley Boneca - Chair

Lakehead University Library Voyager News is published by Lakehead University Library. We welcome comments from our readers. Send them to:

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The Chancellor Paterson Library
955 Oliver Road
Thunder Bay, Ontario Canada
P7B 5E1

Telephone: (807) 343-8147

Fax: (807) 343-5001

E-mail: voyager@lakeheadu.ca

Software Engineering continued from page 1

Diploma graduates will be eligible to apply to Lakehead's two-year post-diploma Bachelor of Engineering degree program in Software Engineering. This program is more in-depth, and the emphasis is on an all-round grounding in the engineering sciences and mathematics with the development of expertise in the field of software engineering.

The core program places equal stress on the hardware and software aspects of computer systems and software design. The issue of liability -- or the accountability on the part of computer professionals to the effects of their software -- is embedded into the program structure. Students need to understand that their work has consequences and repercussions for which they are responsible.

"Traditionally," says Dr. Natarajan, "computer science has addressed the science of software design but has not broadly attended to the issue of liability. This is a classic problem that the program addresses. It is the use of the word 'engineering' in 'software engineering' which infuses a sense of liability and accountability into the program." The program emphasizes the applied aspects and the consequential liabilities to be taken into account in designing software.

Lakehead University is the only institution in Canada that offers a unique combination of an Engineering Technology diploma program followed by a two-year post-diploma degree program that leads to a Bachelor of Engineering degree in chemical, civil, electrical, mechanical or software engineering.

Dr. Sedov, a professor of mechanical engineering at Lakehead and coordinator of the software engineering program, says that "an attractive practical feature of these programs is the diploma which, after only two years of study at university, can give graduates a career opportunity in engineering technology."

Dr. Natarajan concurs: "Students who do not wish to continue their studies are immediately marketable after the diploma." There is a wealth of career opportunities for diploma graduates who can seek employment in the diverse fields of maintenance of computer systems, installation of software/hardware, elementary programming, data entry, database management, and computer-aided engineering.

It is unarguable that market trends heavily favour professionals in the field of Information Technology and graduates of the program will be well equipped to deal with the demands of industry.

For the first time this spring, engineering degree students will also be afforded the opportunity of enrolling in a co-op option. This new program will allow qualified students to undergo an internship for up to 20 months at major companies like IBM Canada and Nortel. The co-op option degree program is designed to provide students with in-depth educational grounding as well as valuable work experience.

Usree Bhattacharya is one of several students participating in SPARK - LAKEHEAD, a student writing program sponsored by The Chronicle-Journal.

**Lakehead Team a Finalist
in this year's
Inter-Collegiate Business Competition**



ICBC Faculty advisor Dr. Calin Valsan joins his winning team (l-r): Melanie Prowse, Ryan Davis, Melanie Loukusa, Arianne St. Jacques, Andrea Tarsitano, and Jeff Dubois.

Lakehead Business Administration students ranked among the top six teams at this year's Inter-Collegiate Business Competition (ICBC) organized by Queen's University.

Six students qualified for the final round of the Finance, Business Ethics, and Debating events: Melanie Loukusa and Ryan Davis took the "silver," ending second only to the University of Manitoba in the Finance event; Andrea Tarsitano and Melanie Prowse took the "bronze" in the business Ethics event, coming in third after McGill University and University of Calgary; Jeff Dubois and Arianne St. Jacques came in fourth in the debating event after Memorial University, Queen's, and at a razor thin distance from the University of Calgary. Their biggest achievement was the fiery contest of wits with Queen's debating team, whose Thunder Bay students had the time of their life competing against our Thunder Bay students.

Overall, our Lakehead business team ranked among the top six business teams, which explicitly puts our undergraduate business program at Lakehead among the best in Canada, on equal footing with Queen's, University of Calgary, and McGill University.

*-- Dr. Calin Valsan
Faculty of Business Administration*

Opinion

The Maclean's Ranking

One Lakehead Graduate Speaks Out

In this letter to the managing editor of Maclean's, Erik Knutsen comments on the education he received at Lakehead University and questions the criteria Maclean's uses to rank universities.

Knutsen graduated in 1996 with an Honours Bachelor of Arts degree. He went on to study law at Osgoode Hall Law School and Harvard Law School and is now teaching legal writing, research, and advocacy at Florida State University College of Law in Tallahassee.

Some of the most important components in the decision to attend a Canadian undergraduate institution are the personal, subjective criteria which guide a prospective undergraduate student in choosing a university which will have a unique and personal impact on the student, propelling him or her to succeed. These criteria include such things as opportunities for close faculty contact, location of the university, and a feeling that one is more than just a student number at an overly large institution. I believe that, while the current *Maclean's* categorical ranking does attempt to hint at some of these criteria, it misses the mark in accounting for these important factors which can really only be discovered by digging beneath the numerical scores to see what really does happen at a Canadian university. I recognize that these factors are not easily quantifiable, unlike many of the apparently objective factors currently used by *Maclean's* such as the number of library holdings per student or the number of grants awarded to a professor.

Indeed, as the ranking stands, I am troubled by the fact that *Maclean's* does not at least acknowledge more subjective criteria and flag them as vital considerations for those who are reading your magazine as an instrumental source of information in making the decision to pursue an undergraduate education at a



"In choosing to complete an undergraduate education in Canada," says Erik Knutsen, "it may not matter where one goes, as long as one receives an academic experience which is enriching, challenging and deeply personal."

Canadian institution. Perhaps *Maclean's* may wish to consider working other subjective criteria and personal accounts from students into its ranking in order to flesh out many of the currently statistical rankings with more experiential reports of how each separate categorical ranking actually plays out at each university. I understand that this addition may appear to be less objective but its apparent lack of objectivity may be outweighed by its utility in grounding the numerical rankings in palpable affirmations from students and faculty currently at each institution.

Most specifically, I was compelled to write because my Alma Mater, Lakehead University, appears to be ranked last in the "Primarily Undergraduate" category. By many of your objective criteria measures, Lakehead does not fare well. Where Lakehead University is special and inimitably important to me and to other alumni is in its ability to provide me with a highly personal and intimate academic

experience in a unique northern setting. Rankings aside, I respectfully suggest that what also matters to a soon-to-be undergraduate are the following important subjective factors:

- opportunities for uniquely personal contact with an open, attentive faculty;
- treatment as a unique individual, not merely as a student number who paid his or her tuition fees;
- vicinity to home, family, loved ones, familiar surroundings;
- provincial location (should one leave one's home province and pay out-of-province tuition fees?);
- urban setting (downtown Toronto or more remote northern Ontario);

Perhaps a prospective student would be far more likely to choose an undergraduate institution based on one of the above factors than on how much money the university spends per student

... continued on page 7

Maclean's continued from page 6

or what percentage of average class sizes the university offers.

For example, one cannot forget that many Canadian universities, Lakehead University prime among them, fulfil a specific regional need for post-secondary education. Your country-wide reputation survey, which counts for a large proportion of the university's final ranking score, may therefore account for some of the low ranking of a university like Lakehead which serves the community of northern Ontario. One may counter that your measurements of, say, class size, are an indication of the undergraduate experience. Smaller classes supposedly breed greater intimacy with faculty. But that class size measurement is a university-wide measure and does not include whether or not the professor is ever there for office hours, whether the professor knows you by name, whether the professor cares if you are struggling, or whether the professor will know you well enough to write that required reference letter for graduate school admission.

Why Lakehead University was so integral to my academic experience is because I am continually reminded of the individual, truly personal attention and encouragement I received during my four years there. I attended many upper year classes, mostly in English literature, where there were 30 students or more and still the professor knew every one of us. I do not mean just knew our names. I mean met with us in his or her office, had coffee with us, organized parties at his or her home, went with us to movies about works we were studying, and said hello to us in the local shopping malls. They cared. They challenged us on an individual level, devoid of pretentiousness, and treated us almost as fellow academic colleagues. Our views counted. Our views were remembered. We were made to feel we could talk with these people on an even playing field and that made us retain this uniquely personal academic discourse throughout our undergraduate educations.

I do not know how one would objectively measure that. Class size is not the tell-tale measurement. Certainly reputation figures did not spell that out. Indeed, in your rankings, this special phenomenon at Lakehead University did not show through at all.

Although my own experiences after graduation from Lakehead University may be uniquely individual in nature, my briefly mentioning them may help to demonstrate that, depending upon one's educational needs and goals, it might not matter whether or not one attends university number one or university number twenty-one. Indeed, perhaps university number twenty-one might well be the better choice, depending upon the circumstances. Please note that I mention my own experiences not to tell my story but only to flesh out how subjective criteria may be quite important in choosing an undergraduate institution which sets proper academic foundations from which to explore one's goals after graduation.

It is the heartfelt and personal encouragement I received at Lakehead University that I feel was so integral in propelling me to earn two law degrees and seek a law faculty appointment. Lakehead University instilled in me both the necessary skills to seek academic challenges and the confidence to strive for academic challenges. I earned my first law degree at Osgoode Hall Law School after graduation from Lakehead University in 1996 with an Honours Bachelor of Arts in English. Three years later, I earned a Masters of Law at Harvard Law School. I was fortunate to receive a number of offers of admission to study for my master's, including offers from Oxford University, the London School of Economics, and New York University School of Law. After graduating from Harvard last year, I sought out a law school faculty position and am currently teaching legal writing, research, and advocacy at Florida State University College of Law in Tallahassee, Florida.

To the best of my knowledge, having an undergraduate education from Lakehead University was never a stumbling block in

any admissions process or academic appointment competitions at any Canadian, American, or British university. No one said otherwise to me. I think this is something that students struggling to choose an undergraduate institution would like to know. In choosing to complete an undergraduate education in Canada, it may not matter where one goes, as long as one receives an academic experience which is enriching, challenging, and deeply personal. Depending upon one's educational goals, Lakehead University has incredible potential for generating that experience, more so perhaps because of its small size and more remote location.

The Canadian university scene is vastly different then that of the United States, a country that appears to put a great deal of faith in popular magazine university rankings to assist in categorizing the literally hundreds of American universities which differ widely in standards and experiences they offer potential students. In Canada, we are blessed with a largely publicly funded and accountable university system. Perhaps one may be splitting hairs by comparing the likes of most Canadian universities at the undergraduate level, and this is something that your readers may wish to know. The differences in final scores of the universities is really only a difference of slight degree on a very small continuum.

I hope you will consider my suggestion to attempt to get behind the numerical rankings with some personal experiential reports which account for the subjective criteria many potential Canadian undergraduates consider as important.

In closing, one may think that this is simply a letter from a Lakehead University alumnus who is shocked and troubled by the very low ranking of his Alma Mater. On the contrary, it is a Lakehead University alumnus who is shocked and troubled by the fact that, through the use of only quantifiably objective criteria not bolstered with experiential reports, *Maclean's* ranks last his Alma Mater that he has always, and still does, consider to be number one.

-- Erik S. Knutsen, HBA, LLB, LLM

BOARD OF GOVERNORS

Call for Nominations/Applications

Lakehead is seeking interested and qualified individuals to serve on its Board of Governors for as early as September 2001. Terms are for three years and Governors are expected to participate both at the full Board level and at the level of standing committees. The latter can require participation at working meetings on a monthly basis, in addition to the minimum six meetings a year of the full Board.

Persons wishing to be considered for an appointment to the Lakehead University Board of Governors should submit a brief curriculum vitae, a statement of why they believe they would be effective governors, and the names and contact numbers of two character references, to the Board of Governors' Nominating Committee c/o Secretary of the Board, Lakehead University, 955 Oliver Rd., Thunder Bay, Ontario, P7B 5E1; by fax to (807) 343-8075, or by e-mail to bdsensec@lakeheadu.ca

The Nominating Committee will be reviewing applications and nominations in early spring. Candidates to be considered will be contacted for personal interviews at a mutually satisfactory time.

ALUMNI 18h ANNUAL CURLING FUNDSPIEL

Friday, March 23, 2001

Port Arthur Curling Club

\$40 per individual/ \$160 per team

Chinese Food Buffet

To register please phone 343-8155

LAKEHEAD UNIVERSITY COMMUNITY COUNCIL (LUCC) Children's March Break Blitz

Date: March 12-16, 2001

Ages: 5-12 Cost: \$12/day

Location: Senate Chambers (UC-1001)

Drop Off: 8 a.m. to 9 a.m.

Pick-Up: 4 p.m. to 5 p.m.

Crafts/Winter excursions/Laboratory tours

Women's Studies Program

Brown Bag Lecture Series

Friday, February 16, 2001

11:30 a.m. -12:30 p.m. RB-1047

Dr. Richard Berg, Department of Philosophy -- "The American Women's Movement in 1960s Cultural Context."

Friday, March 2, 2001

11:30 a.m. -12:30 p.m. RB-1047

Dr. Lori Chambers, Women's Studies Program -- "Psychologists Construct Unwed Motherhood"

Friday, March 23, 2001

11:30 a.m. -12:30 p.m. RB-1047

Dr. Patricia Jasen, Department of History, "Malignant Histories: Psychosomatic Medicine and the Female Cancer Patient in the Post-War Era."

Spaghetti Bridges and Paper Airplanes: Lakehead Celebrates National Engineering Week

March 3-11

Grade 7 and 8 students in Thunder Bay are being invited to take part in four competitions on March 8th and 9th in celebration of National Engineering Week.

The competitions will be designed and run by student chapters of the Institute of Electrical and Electronics Engineers; the Canadian Society for Chemical Engineering, the Canadian Society for Civil Engineering, and the Canadian Society for Mechanical Engineering. Overall coordination will be handled by the Engineering Student Society.

For more information, contact Dr. Seimer Tsang (Mechanical Engineering) at 343-8761.

Lakehead

UNIVERSITY

February 2001 Vol. 18, No.2

THUNDER BAY, ONTARIO, CANADA

ISSN 0828-5225

The Agora is published by the Office of Communications and distributed monthly September through June. We welcome news and other submissions from our readers. Send them to:

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Office of Communications

Lakehead University

955 Oliver Road

Thunder Bay, Ontario Canada

P7B 5E1

Publications Mail

Agreement Number 1497073

Photography: Peter Puna

Printing: Lakehead Print Shop

Deadline for submissions for the next issue is

March 1, 2001