

Agora

JULY/AUGUST 1999



A NEWSLETTER FOR LAKEHEAD UNIVERSITY STAFF & FACULTY

Well Done!

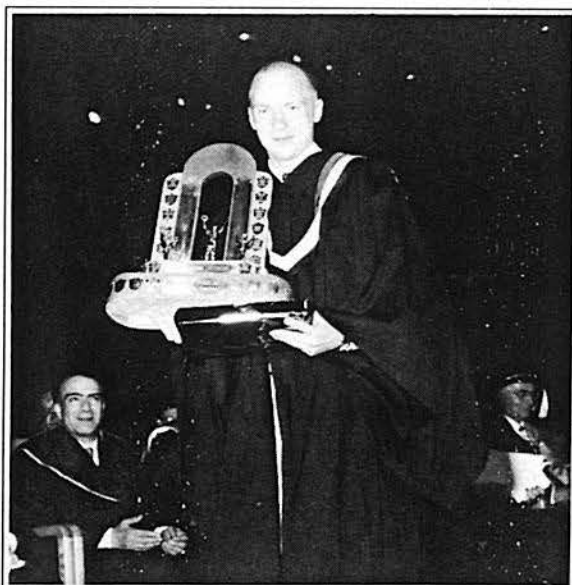
Lakehead Salutes the Class of '99



Kinesiology students take a bow after graduation ceremonies held on May 29, 1999, at the Thunder Bay Community Auditorium. Lakehead University celebrated its 35th Convocation under sunny skies.

Inside

Tom Warden Appointed Athletics Director	... 3
Dr. Margaret Johnston	... 4
Laser Technology and the Fight Against Cancer	... 8
NSERC Awards	... 10



Evans wins Poulin Award

Brent Evans, the newly-elected president of the Lakehead University Student Union, collected the Poulin Award for outstanding citizenship as well as a President's Award at Convocation in May.

While working as residence programmer during 1998-99, he established a student wellness committee in conjunction with Health Services. He also coordinated "The Late Show" -- a week of student orientation activities based on a theme inspired by the popular TV talk show hosted by David Letterman.

Evans has two degrees from Lakehead: a Bachelor of Education and an Honours Bachelor of Kinesiology.

Agora

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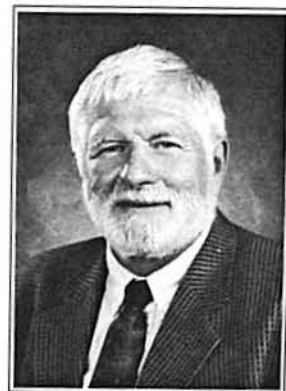
www.lakeheadu.ca

Click on "New and Events"

Lakehead
UNIVERSITY

From the President's Desk

by Dr. Frederick F. Gilbert



Well, summer, such as it is this year, is upon us, and the pace has slowed a bit on campus. It is a nice respite after the Strategic Plan development of the past academic year and before we start to implement the Plan which was approved in June by both Senate and the Board of Governors.

The re-election of the Tories strongly suggests that there will be increased emphasis on accountability in the post-secondary education sector, and the creation of the new Ministry of Training, Universities and Colleges tends to confirm that possibility. I doubt that there will be much to report prior to September as the new Minister, Dianne Cunningham, and Deputy Minister, Bob Christie, get fully acquainted with what has been going on in postsecondary education. We will continue to make the case for corridor adjustment and the need for capital funding to ease our space difficulties, especially by demonstrating how important the Advanced Technology Centre project is to the University. CTRC is having considerable difficulty finding the space to expand the computer teaching labs. With pressure for additional classrooms, research laboratories and graduate student offices among other needs, we have a strong case to make for new capital construction. Deferred maintenance issues continue to be our other capital requirement, and the failure of the major cooling coil this summer exemplifies how perilous the situation is as our mechanical, electrical, communications and other systems are extended well beyond their life expectancy.

It appears that our 1999-2000 target intake of new students will be achieved despite the increase in academic standards that have taken effect. It appears that some other Ontario universities have decreased their standards to sustain or increase enrolment, a pattern all too familiar at Lakehead as recent as last year. As we continue to raise standards to a minimum of 70 per cent in the next couple of years, we expect Lakehead to become an even more attractive choice for Ontario high school students.

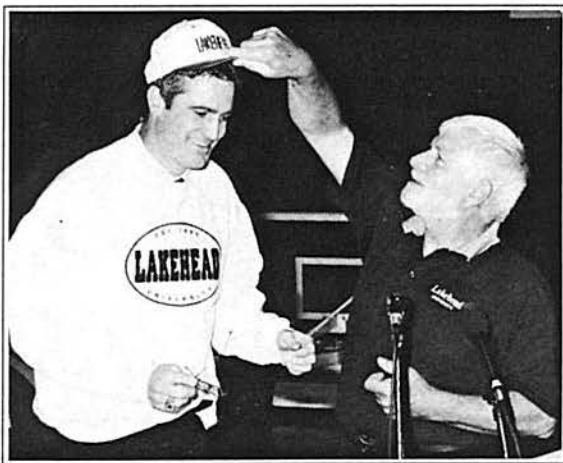
Lakehead continues to receive more recognition for its researchers as the latest Canada Foundation for Innovation (CFI) competition resulted in four awards. Construction on the Paleo-DNA lab is well under way, and we are pursuing funding for Forensic-DNA capacity. The OMB Hearing has allowed the Thunder Bay Regional Hospital to start work on the new acute-care hospital and the transfer of 60 acres of university land for this development has occurred. There is an opportunity for a Health Sciences Research and Technology complex that would be a combined initiative of the Hospital, Confederation College and Lakehead. Plans are being developed for submission to the Ministry.

Let me wish everyone a relaxing and productive summer. I look forward to an exciting and very busy academic year for us all in 1999-2000.

Lakehead University -- June, 1999

Tom Warden Appointed Athletic Director

Tom Warden, a prominent sports figure in Thunder Bay, has been appointed athletic director at Lakehead University. He has over eight years of sports administration, business management, marketing and coaching experience at the professional level, as well as a strong background in personnel management, facility operations and sports promotion.



Tom Warden, Lakehead's new athletic director, is fitted out in Lakehead gear by Dr. Fred Gilbert.

"I'm pleased to have Tom on board to start a new era in Lakehead athletics. His vision and management experience should produce some exciting changes and opportunities for our student athletes," says Lakehead University President Dr. Fred Gilbert.

As the head coach and director of business and hockey operations of the Thunder Bay Thunder Cats Hockey Club, Warden's career highlights have included

having an overall professional regular season coaching record of 126 wins, 69 losses and 27 ties and overall playoff record of 21 wins in the past three years. In Warden's first year as head coach and assistant general manager of the Thunder Bay Senators in 1995-96, he led the club to the UHL finals and was selected 2nd in Coach of the Year balloting.

Warden received a Bachelor of Arts degree from the University of Toronto in 1990, a Master's in Athletic Administration from Ohio University in 1991, and a Bachelor of Education from Lakehead University in 1993.

While attending the University of Toronto, Warden was team captain of the Varsity Blues Hockey Team and in 1984 was drafted in the NHL Entry Draft by the New York Islanders.

He has played professional hockey throughout North America and Europe.

Warden replaces Stu Julius who was athletics co-ordinator in addition to being coach of the women's varsity basketball team.

When Julius announced he would be leaving Lakehead in August, to take on a coaching position at Wilfrid Laurier, the position of athletic director was created on a full-time basis.

One of Warden's first tasks will be to find a new coach for the women's basketball team. In the meantime, Bob Main has been appointed coach for the 1999-2000 season.

Bob Main Appointed Interim Women's Basketball Coach



Bob Main has been appointed coach of the Lakehead University women's basketball team for the 1999-2000 season.

Main has been the assistant

coach of the team since 1991. He holds a Master's of Science degree in Kinesiology (Coaching) from Lakehead. He is a Level 3 NCCP coach, and has a great deal of experience coaching basketball at the high school level.

Main says "I look forward to my new role with the team and challenges it brings."

Hrkac joins 1999 World University Games team

Lakehead University's Angela Hrkac has been chosen to join the 1999 World University Games team, and will compete at the FISU Games in July in Palma de Mallorca, Spain.

Following the FISU games, the team will compete for Canada at the Jones Cup in Taiwan from July 24 to August 2, 1999.

Angela Hrkac was the leader in the country in scoring and rebounding last season.

She was also the winner of the Tracy McLeod Award (CIAU), and named 1999 Player of the Year (Ontario) and All-Canadian Athlete.

Hrkac will return to Lakehead in the fall to complete her final year in business administration.

Farewell Reception and Roast for Stu Julius

details on page 7

An Experience of a Lifetime

Earlier this year, 12 Lakehead students travelled to the Antarctic Peninsula to study tourism management strategies and their effectiveness in maintaining wilderness areas

By Tiina Ahokas

By the end of three or four years, any Geography student at Lakehead has become quite comfortable with the map library and has gotten a feel for the hard plastic chairs in room RC2003. This past November, however, the cartography of the map library was replaced with the navigational charts of the *MS Explorer* and the chairs in the classroom were replaced with islands in the Antarctic Peninsula, when the Department of Geography sent 12 students, under the direction of Dr. Margaret Johnston, to the Antarctic Peninsula.

The group was well versed in the language of the Antarctic before embarking on the voyage. Before the ship set sail, background reports and essays were prepared. And students researched topics to be presented as lectures to the 70 other passengers on board the *Explorer*.

Once in the Antarctic, the students travelled as tourists. Over 10 days, they made daily landings to islands and to the continent. They photographed penguins and watched whales and seals. But, they also kept a keen eye on the other tourists and recorded these behavioural observations in daily journals.

continued on page 5



Dr. Margaret Johnston (back row, fourth in from the left) led an "expedition" of Lakehead students to the Antarctic this year. In December 1999 she will take another group of Lakehead students on a field trip to the Antarctic Peninsula as part of a fourth year Geography course.



Lakehead University -- June, 1999

Experience continued from page 4

In the Antarctic, tourism regulations help to maintain the natural wilderness. These regulations are carried out through guidelines of the International Association of Antarctic Tour Operators (IAATO) and under a broader umbrella, through the auspices of the Antarctic Treaty. And at a personal level, tourists are expected to act according to their own national legislation. Tourists respect wildlife by maintaining the safe distances that are outlined in the guidelines. Fragile vegetation is not to be trampled and fossils are not to be removed from the continent. In this way, through the same codes of behaviour and conduct that are used by many national parks, Antarctic tourism is managed.

These regulations are just some of the policies that are an integral part of the tourism management strategy in the Antarctic. They are also the focus of study for Margaret Johnston. Dr. Johnston studies the regulation of both Arctic and Antarctic tourism by looking at the strategies that companies, governments and interest groups have in place to try to appropriately manage tourism in these pristine environments. She hopes to further this course of study at Arctowski Station on the Antarctic Peninsula. This Polish station is the site of the first tourist information kiosk in the Antarctic. Here, Dr. Johnston and Dr. Bernard Stonehouse, of the Scott Polar Research Institute, plan to carry out research on management planning and tourist behaviour during the coming tourist season. With the numbers of tourists visiting Antarctica increasing to 10,000 per year, these management strategies and their effectiveness in maintaining wilderness areas are fundamental to the preservation of this fragile ecosystem.

For the group of 12 students from Lakehead, the Antarctic classroom was the learning experience of a lifetime; it was truly an experience in geography.

Among the many memories they now hold are the beauty of the natural landscape, the sounds of nesting penguins and the clanging of ice against the portholes of the ship.

For these Antarctic tourists, however, a more important benefit is their increased understanding and respect for the world's last untouched wilderness.

Tiina Ahokas is one of several Lakehead students taking part in a student writing program sponsored by The Chronicle-Journal.

Campus Notes

*Congratulations to the newly-elected LUSU executive who began their one-year term on May 1, 1999: LUSU President: **Brent Evans** has completed the Honours Bachelor of Kinesiology program and a BEd.; LUSU Vice-President Student Issues: **Greg Seiveright** has completed an Honours Bachelor of Outdoor Recreation program and a BA. LUSU Vice-President Finance: **Vanessa Kleinhaar** is in fourth year of an Honours Bachelor of Outdoor Recreation program.*

*Negotiations are under way with Gifu University of Education and Languages to expand their summer programs at Lakehead. Director of International Activities **Dan Pakulak** says that the Japanese institution wants to create a two-year program that will encompass language training related to business practise and communications.*

***Dr. Ulf Runesson**, a professor in the Faculty of Forestry and the Forest Environment, is the recipient of an award from ESRI Canada Limited, the leading GIS software company in the world serving over 3,000 organizations in Canada with ESRI GIS software products. The award plaque was presented by Alex Miller, president of ESRI Canada Limited, at a recent Ontario users group meeting held in Thunder Bay. The award was for outstanding innovation in the field of Geographic Information Systems and was given as recognition for over a decade's worth of excellence in academic teaching, technology transfer to industry and government as well as international GIS-related activities.*

*Congratulations to **Dr. K.C. Yang** and **Lynn Sevean**. They are recipients of the Lakehead University Forestry Class of 1999 Educator's Award, an award which recognizes excellence in teaching through the period 1995 to 1999. As well, Yang was made an honorary member of the Diploma in Integrated Forest Resources Management class.*

*Lakehead University was well represented at the American College of Sports Medicine Meeting held at St. Cloud University in St. Cloud, Minnesota last March. Faculty from the School of Kinesiology included **Dr. Bob Thayer**, **Dr. Norm LaVoie**, and **Dr. Ian Newhouse**. Graduate student presenters were **Steve McIlwaine** and **Neil Purves** and other graduate students in attendance were Christy Cunningham, Matt Light, Maryse Larocque and Marc Poirier.*

***Dr. S.A. Mirza**, a professor of Civil Engineering, has coauthored the 482-page American Concrete Institute (ACI) Design Handbook. This fully-refereed volume published recently was prepared in accordance with the new ACI Building Code (318-95) and is the result of five years of work by the ACI Committee on Design Aids, of which Dr. Mirza is a full voting member and the chair of one of its subcommittees. The ACI Design Handbook is the most widely used reference in the world for design of reinforced concrete structures. It is used by both practising engineers and engineering students and is a required textbook for reinforced concrete design courses at scores of universities internationally.*

A Report on the Annual Graduate Students in Education Conference

held on March 6, 1999

The following article by Jane Fraser was submitted to the Agora in March.

Following an introduction by Dr. Fentey Scott, the acting dean of education, students in the Master's of Education program were informed and entertained by a keynote address delivered by Dr. Connie Nelson, the dean of graduate studies and research.

Nelson spoke on *Graduate Research at Lakehead University: Retrospect and Prospects* noting that graduate studies has moved steadily from an "add on" to a significant component of our University's program offerings.

Focusing on graduate studies in education, Nelson stressed the importance of faculty and students building a strong, healthy research culture, and noted that other degree programs benefit from this development. With the aid of selected cartoons, she explored a number of issues graduate students face in establishing themselves as part of this milieu.

Program highlights included *Research Using the Internet*, demonstrated by Arlene Glavish, library assistant, Education Library, and *Writing Proposals for Research Funding*, presented by Lynn Gollat, graduate studies assistant. Both informative workshops were well received by the participants.

Graduate students experienced modelling of thesis and project journeys in two panels with graduates who returned to share their research. Michelle Symanyk-Mace reported on her thesis entitled *Adoption of a co-operative learning teaching strategy in a Bachelor of Nursing course*. On the same panel, Richard Turcotte, described his project journey in the *Development and implementation of a student code of behaviour for a secondary school*.

The question and answer part of the panel allowed the presenters and participants to discuss the transition of moving from being knowledge consumers to becoming knowledge generators.



Evelyn Gillson and Virginia Stead share recollections of graduate research.

In the afternoon panel, Virginia Stead represented her thesis journey with *School Council implementation: Women principals' experiences with a policy of improving school leadership*. The project journey described by Evelyn Gillson, focused on *The effectiveness of the team problem solving and decision making approach*.

Each of the panellists noted the need to concentrate on the precision of research report writing, and the value of following through on the expert advice provided by faculty on their supervisory committees. When asked about the experience of sharing their research journeys, all panellists agreed that it was a worthwhile endeavour. They encouraged the graduate students that although the research journey is demanding and time intensive, there is a great sense of accomplishment when one graduates.

The conference was organized for the graduate students in education by Kristin Main representing the 1998 - 99 MEd Class and Jane Fraser, representing the 1999 - 2000 MEd Class. They were assisted by Dr. Rod McLeod, acting chair, graduate studies in education.



Above (l-r): Teresina Lombardo-Tassone, Barbara Morrison, Richard Turcotte, Jane Fraser (conference co-coordinator), and Michelle Symanyk-Mace.

Staff Appointments

During the months of March, April, May and June employment notices were issued by Human Resources announcing the following appointments:

Carlos Faria

Charlene Livingstone

Shawna Hickey

Secondary School Liaison Officers
Registrar's Office

Joanna Aegard (Griffith)

Administrative Assistant
NECAH

Bob Main

Interim Women's Varsity
Basketball Coach

John Ongaro

Coordinator of Community &
Professional Development
Health Sciences North

Trevor Digby

Security Communications Officer

Alison Graver

Senior DNA Analyst
Anthropology Department
(Paleo-DNA Laboratory)

Christopher Miller

Mechanic
Campus Development

Dr. Mary Louise Hill

Vice-President (Academic)

Tom Warden

Athletic Director
Athletics



The Alumni Association of Lakehead
University

elected a new slate of officers to the
Board of Directors

at their
Annual General Meeting
in June

President:

David Heald

Vice-President:

Barb Eccles

Treasurer:

Mark Tilbury

Secretary:

Virginia Stead

Immediate Past-President:

John Friday

Directors

Ben Kaminski

Greg Beckford

Janice Kalyta

Tiffany Meady

Terry Robinson

Gil Vanson

Brian Holm

Gary Funk

Mark Piovesana

Jennifer Eccles

Board of Governors Rep:

Bill Bartley

LUSU President:

Brent Evans

Dr. Gerd Schroeter Memorial Bursary

The Dr. Gerd Schroeter Memorial Bursary has been named by the Department of Sociology in honour of their colleague, Dr. Gerd Schroeter, who passed away unexpectedly in February.

During his career at Lakehead, Gerd displayed commitment to ensuring access to education for financially burdened students; he was an active member of the undergraduate scholarships and bursaries committee.

Anyone wishing to make a donation to the bursary fund can send their contribution to:

**The Dr. Gerd Schroeter Memorial
Bursary Fund**

c/o The Development Office

Lakehead University

955 Oliver Road

Thunder Bay, ON P7B 5E1

Cheques or money orders should be made payable to Lakehead University. All donations are tax deductible.

For further information, contact Pam Wakewich, Assistant Professor, Department of Sociology/Women's Studies at 343-8353.



STU JULIUS

Lakehead's former athletics coordinator and coach of the women's basketball team is leaving Lakehead after 18 years.

You are invited to a

Farewell Reception and Roast

Thursday, August 12, 1999

at the Victoria Inn at 7 p.m.

Tickets are \$15 and can be purchased at the Switchboard, Athletics, Health Services, the Counselling and Career Centre, and the Financial Aid Office

Laser Technology links Lakehead with Cancer Centre

Researchers at Lakehead are working in conjunction with the Northwestern Ontario Regional Cancer Centre to investigate the possibilities for treatment of cancer using state-of-the-art laser technology.

A new Millennia "pump" laser (multi-photon laser excitation imaging system) has been purchased by the Northern Cancer Research Foundation (NCRF) to support the investigation.

The ultimate goal of the study is to find new diagnostic and treatment breakthroughs. "Using a high intensity laser, very short pulses of extremely concentrated laser light can be produced," says Dr. Peter McGhee, director of medical physics at the Cancer Centre. "These pulses hold significant prospects for the development of new methods for identifying and treating cancerous tissues. By exposing tissue samples to these laser pulses, specific cancer cells may be identified as being present. This may support the development of new diagnostic procedures."

Additionally, the laser light may be effective as a treatment modality. Coupled with an existing treatment, known as photodynamic therapy, deeper seated tissues may be more accurately targeted and treated using the laser.

The new venture will strengthen the existing close relationship between the University and the Regional Cancer Centre. "This level of collaboration between the two Physics departments is really a first," says Dr. Werden Keeler. "As a result of this initial project, we can now move forward with the implementation of several other high technology collaborations of this nature."

Several cancer specialists working at the Cancer Centre hold faculty appointments at the University and teach both undergraduate and graduate curricula. Additionally, the Supportive Care department at the Cancer Centre holds a close affiliation with the departments of Psychology and Social Work.



Back Row (l-r) Dr. Peter McGhee is director of medical physics of the Northwestern Ontario Regional Cancer Centre. Standing beside him is Brian McKinnon, president of the Northern Cancer Research Foundation. Both men were on campus in early May to announce a new collaborative research venture involving Dr. Christine Gottardo (centre), a professor in the Department of Chemistry, and Dr. Werden Keeler (right), a professor in the Department of Physics. Dr. Margaret Hawton, chair of the Department of Physics, is also part of the team.

Photo: Peter Puna

Measuring Graduation, Employment and OSAP Default Rates at Lakehead

97.1 per cent of Lakehead graduates have jobs two years after graduation

University graduates are doing exceptionally well in today's job market according to the results of a recent survey conducted by Ontario universities. Lakehead University's performance indicators compare favourably when measured against the Ontario university average.

"Lakehead has demonstrated that it doesn't need to take a back seat to any of the Ontario universities when it comes to employment opportunities for our grads. Lakehead is above the provincial average in placement rates after two years, has a lower OSAP default rate than the provincial average and a graduation rate only marginally below the provincial average. This indicates that Lakehead attracts good students and positions them well in the competitive job marketplace," says Dr. Fred Gilbert, president of Lakehead University.

To determine employment rates of recent graduates, Ontario universities conducted a survey of all 1996 graduates of undergraduate degree programs. The survey was conducted

last winter through mailed surveys and follow-up telephone contact. Over 25,000 surveys were completed, which represents 54 per cent of the Class of 1996. Graduates were asked about their employment situation six months and two years after graduation. Lakehead University's employment rates for 1996 graduates were found to be 87.0 per cent six months after graduation and

and the rate for all programs at Ontario universities is only marginally higher at 70.8 per cent.

The 1998 OSAP (Ontario Student Assistance Program) default rate was also measured. The 1998 default rates reflect the repayment status of both undergraduate and graduate students who received Ontario Student Loans in the 1995-96 academic year and did not receive an Ontario Student Loan in 1996-97, and who subsequently defaulted on their repayment obligations approximately two years after graduation. Lakehead University's 1998 default rate for all programs is 11.5 per cent, slightly lower than 12.3 per cent for all programs at Ontario universities, which is an indication that Lakehead graduates have the ability to pay back their loans because of their employment status.

For further information about graduation, employment and OSAP loan default rates please refer to Lakehead University's website at www.lakeheadu.ca/~analysis/indicators.html.

GRADUATION RATE

1996 ENTERING COHORT

LAKEHEAD	70.2%
ONTARIO SYSTEM	70.8%

97.1 per cent two years after graduation. This compares well against the provincial average rates of 90.8 per cent and 96.7 per cent.

Graduation rates were calculated by selecting all full-time Year One undergraduate students from Fall 1990 who were seeking either a Bachelor's or First Professional Degree and determining whether or not they graduated within seven years. The subset was matched against the records for students who received a degree from the same institution during the period 1991-97. The graduation rate for Lakehead University is 70.2 per cent

EMPLOYMENT RATE 1996 GRADUATES

TWO YEARS AFTER GRADUATION

LAKEHEAD	97.1%
ONTARIO SYSTEM	96.7%

OSAP LOAN DEFAULT RATE 1998

LAKEHEAD	11.5%
ONTARIO SYSTEM	12.3%

NSERC Awards for 1999-2000

The Natural Sciences and Engineering Research Council (NSERC) recently announced the results of their annual research grants competition. Shortly after, they announced a 5 per cent increase for all new and existing research grants.

Total NSERC funding to Lakehead University continues to show an increase. During the 1998-99 research and equipment grants competition, \$832,544 worth of grants were received by researchers at Lakehead University. For this past competition, the total was \$880,971. This represents an increase of \$48,427, or 5.8 per cent.

Currently, there are 35 NSERC holders at Lakehead. This figure represents 35 per cent of the total NSERC eligible faculty at Lakehead.

The following is a list of all NSERC recipients at Lakehead University who were successful in the 1999-2000 research and equipment grants competition.

Department of Biology

Dr. S.J. Hecnar, "Species Richness and Spatial Dynamics in Amphibians," \$15,750, New (1-4)

Dr. M.W. Lankester, "Parasite and Diseases of Northern Animals," \$23,100, Renewal (4-4)

Dr. A.U. Mallik, "Retrogressive Succession and Biodiversity in Nutrient Poor Cool - Temperature Forests After Disturbance," \$11,550, Renewal (4-4)

Dr. D.W. Morris, "The Evolution and Importance of Habitat Selection," \$47,355, Renewal (3-4)

Dr. D.W. Morris, "Field Research Vehicle," \$34,288, New (1-1)

Department of Chemical Engineering

Dr. L.J. Garred, "Mathematical Modelling Studies in Renal Failure Patients," \$17,903, Renewal (3-4)

Dr. A. Gilbert, "Optimizing Control of Kraft Mill Processes," \$21,945, Renewal (2-4)

Dr. I. Nirdosh, "Solid-Liquid Mass Transfer Applications," \$23,909, Renewal (2-5)

Dr. V.R. Puttagunta, "Viscosity Prediction and Radiation Assisted Upgrading of Heavy Oils," \$22,638, Renewal (4-4)

Department of Chemistry

Dr. S.D. Kinrade, "Aqueous Chemistry of Silicon," \$38,115, Renewal (2-4)

Dr. N.A. Weir, "Studies of Photochemistry and

Photodegradation of Polymers," \$23,100, Renewal (2-3)

Department of Civil Engineering

Dr. S.M. Easa, "3-D Highway Geometric Design Consistency," \$28,875, Renewal (2-4)

Dr. D.K. Eigenbrod, "Shaft Resistance of Piles in Sand During Loading in Tension and Compression," \$14,700, New (1-4)

Dr. S.A. Mirza, "Strength and Stiffness of Slender Composite Steel-Concrete Beam-Columns," \$19,520, Renewal (2-4)

Department of Computer Science

Dr. X. Li, "An Abstract Machine for High Performance Logic Programming," \$16,170, Renewal (3-4)

Department of Electrical Engineering

Dr. X. Chen, "Robust and Optimal Control of Nonlinear Systems with Bifurcations," \$21,000, New (1-4)

Dr. K. Natarajan, "Model Reference Adaptive Control in the Frequency Domain," \$23,310, New (1-4)

Faculty of Forestry and the Forest Environment

Dr. Q.L. Dang, "Interacting Effects of Soil Conditions on Ecophysiological Traits and their Responses to Changing Aboveground Environment in Boreal Tree Species," \$34,073, Renewal (2-4)

Dr. W.H. Parker, "Development of a GIS Methodology to Determine Breeding Zones for Second Generation Tree Programs," \$19,635, Renewal (2-4)

Department of Geology

Dr. G.J. Borradaile, "Rock Magnetism," \$69,993, Renewal (5-5)

Dr. P.W. Fralick, "Paleogeographic Reconstruction of Mesoarchean Terrains in Western Superior Province," \$17,556, Renewal (3-4)

Dr. R.H. Mitchell, "Petrology of Kimberlites and Alkaline Rocks," \$86,625, Renewal (4-6)

Department of Mathematical Sciences

Dr. C.T. Hoang, "Graph Colouring and Visibility Graphs," \$14,700, New (1-4)

Dr. W. Huang, "Job Scheduling Problems in Modern Manufacturing Systems and Management Science," \$9,702, New (1-4)

Dr. T. Miao, "Amenability of Locally Compact Groups and Geometric Properties of Ap (G)," \$13,650, New (1-4)

Department of Mechanical Engineering

Dr. K. Liu, "Identification of Linear Time-Varying Systems: Dynamic Behaviour, Algorithms and Applications," \$16,170, Renewal (3-4)

Dr. K. Liu, "Experimental Facility for Identification and Control of Linear Time-Varying Systems," \$22,396, New (1-1)

Dr. M. Liu, "Transformation Matrices for Finite Element

Analysis of Plates and Shells with Structural Discontinuities," \$13,737, Renewal (2-4)

Dr. G.F. Naterer, "Binary Constituent Solid-Liquid Phase Transition in Materials Processing," \$16,170, Renewal (3-4)

Dr. H.T. Saliba, "Theoretical and Experimental Stability and Vibration Analysis of Plates and Structures," \$18,480, Renewal (3-4)

Department of Physics

Dr. M.M. Dignam, "Coherence in Semiconductor Nanostructures/Erbium-Doped Fiber Amplifiers and Lasers," \$26,565, Renewal (3-4)

Dr. M.C. Gallagher, "Heteroepitaxy of Ultrathin Films of Metals and Metal Oxides," \$28,875, Renewal (3-4)

Dr. M.H. Hawton, "Photon-Matter Interactions/Physics of Absorbed Water," \$15,015, Renewal (4-4)

Dr. W. J. Keeler, "Optical Investigations of Semiconductors and Bio-Samples," \$10,973, Renewal (2-2)

Dr. V.V. Paranjape, "Research in Solid State Physics," \$9,240, Renewal (4-4)

Dr. W.M. Sears, "The Electrical Properties of the Surface-Gas Interface of Wide Band Gap Semiconductors," \$13,398, Renewal (3-4)

Department of Psychology

Dr. C.A.G. Hayman, "Episodic Memory as a Source of Cognitive Binding," \$20,790, Renewal (3-4)



Four More CFI Projects Funded

In June, Lakehead was informed that four more projects had received funding through the Canada Foundation for Innovation program, bringing the total number of awards to 14. "A remarkable achievement for a University the size of Lakehead," says Dr. Connie Nelson who was dean of graduate studies and research at the time the proposals were submitted. "Over the next few years, Lakehead will see an infusion of more than \$4.33 million to upgrade and enhance its research infrastructure."

The four projects are:

Dr. Jeffrey Banks: 1. New Polymers for the Pulp and Paper Industry: Retention Aids as Carriers for Photoyellowing Inhibitors
2. High Intensity Photochemistry of Organic Molecules in Solution

Dr. Qing-Lai Dang: Lakehead Forest Ecology Research Complex

Dr. Scott Hamilton: Geospatial Analysis Research Centre

Dr. Peter Lee: Bioremediation of Boreal Forest Resource-based Industrial Sites

Indemnification Policy approved by Board of Governors

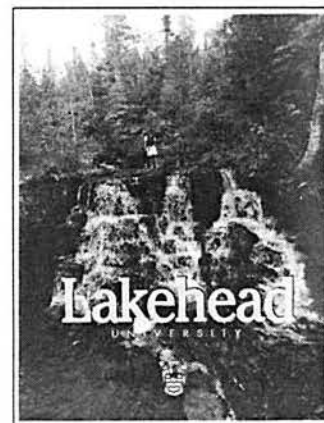
At their meeting on June 17, 1999, the Board of Governors approved an amended version of Lakehead University's policy on Indemnification. The policy can be found on the Lakehead University website: www.lakeheadu.ca (Click on "University Secretariat" then "Policies"). The following text, taken from the policy, explains its rationale:

"There is an increasing occurrence of legal claims and actions against organizations and their employees, with significant costs of defending against such claims and actions. This has given rise to Lakehead University establishing a policy to assist its employees in understanding the extent of the University's indemnification for legal costs incurred by its employees as a result of claims and actions brought against the University and/or its employees, and arising out of employees' employment duties."

Student Viewbook is Best in Canada

Lakehead University's student recruitment viewbook earned a gold standing in the Prix D'Excellence '99, the annual awards program of the Canadian Council for the Advancement of Education which recognizes outstanding achievements in alumni affairs, public affairs, development, student recruitment and overall institutional advancement.

Congratulations to Registrar Pentti Paularinne, Assistant Registrar Sarena Knapik and all the other staff in the Office of the Registrar who were involved in the production.



See You in September

The next issue of the *Agora* will appear in September.
Deadline for Submissions: September 1, 1999

**Second World Congress on
Allelopathy:
Critical Analysis & Future
Prospects**

August 9-13, 1999
Lakehead University

Do plants communicate?

Ask that question of any one of the 200 international delegates coming to Lakehead in August to attend the Second World Congress on Allelopathy and you will get some interesting answers.

Allelopathy can be defined as chemical interactions among plants and microorganisms through the release of chemical compounds into the environment.

The field has received growing attention from botanists, weed scientists, ecologists, physiologists, agronomists, soil scientists, natural product chemists, plant breeders and microbiologists.

Dr. Azim Mallik, a professor in the Department of Biology, is the chair of the conference organizing committee. Interest in Allelopathy is growing, he says, because more people are looking for *biological* ways to control plant growth, such as crop rotation, instead of *chemical* ways such as herbicides.

For more information check the Congress Website:
<http://www.Lakeheadu.ca/~allelo99/>
or contact Azim Mallik at 343-8927.

RA/DON Reunion

July 30 - August 2, 1999

For information contact:

Norma Jean Newbold,

Residence Life Coordinator

(807) 343-8622 Fax: (807) 343-8521

E-mail: newbold@gale.lakeheadu.ca



**16th Annual Alumni
Association Open**

Friday, August 27, 1999

1 p.m. shotgun start

Strathcona Golf Course

Barbecue Dinner at Lakehead University

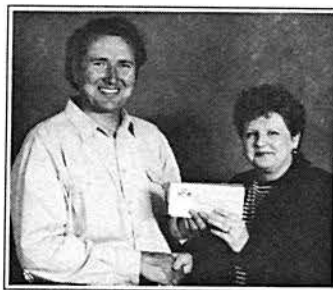
Faculty Lounge

\$55 per person \$220 per team

All participants to be at the Golf Course
by 12:30 p.m.

Sponsored by Financial Concept Group

Contest Winner



Alumni Association president David Heald presents Microcomputer Services Supervisor Carol Otte with a gift certificate to the White Fox Inn courtesy of the Alumni Association's group life insurer, Campbell & Company Insurance Consultants.

Carol Otte was the lucky winner of an alumni insurance contest held in the spring for faculty and staff. For more information on this group home and auto insurance program, or for a quote, contact Campbell & Company at 1-888-918-5056.



**Honorary
Degrees
Call for
Nominations**

The Senate Committee on Honorary Degrees invites all members of the University community to submit nominations for honorary degree(s) to be awarded at the Convocation in May 2000.

Please provide as complete information as possible about the person being nominated plus a brief rationale for the nomination. All nominations will be considered by the Committee which will then make its recommendations to Senate.

Please send the nominations to Mrs. L. Phillips, Secretary, Senate Committee on Honorary Degrees, c/o President's Office. Please note that the nominations must be received on or before September 7, 1999 to be placed on the agenda for the September 1999 meeting of the Committee.

CD Trojan Devel. & Alumni Affairs