



Agora

A NEWSLETTER FOR LAKEHEAD UNIVERSITY STAFF & FACULTY

Thunder Bay, Ontario, Canada
October 1995, Vol. 12, No. 7



The Lakehead University Business Association (LUBA) hosted its Fourth Annual Orientation for first-year business students in September. Over the years, the student club has developed a tradition of planting tree seedlings around the campus in keeping with the University's five-year plan for the renewal of trees on campus. Story on page 4. Photo: Peter Puna

LAKEHEAD UNIVERSITY TO BE PART OF A NETWORK OF CENTRES OF EXCELLENCE IN SUSTAINABLE FOREST MANAGEMENT

The Natural Science and Engineering Research Council of Canada (NSERC) recently announced funding for a Network of Centres of Excellence in Sustainable Forest Management, and Lakehead University is participating as one of the Centres of Excellence.

Between 40-50 researchers working within 10 universities across Canada will join with government and industry representatives to study Canada's boreal forest ecosystems in an interdisciplinary fashion.

Dr. David Euler, Dean of the Faculty of Forestry, welcomes the award saying that it will put Lakehead

University "on the frontier of research and of new ways of thinking."

Lakehead University's Chair in Forest Management and Policy Dr. Peter Duinker is encouraged by the federal government's recognition of the importance of sustainable forest management to both the environment and the economy. Being part of the Network of Centres of Excellence, he says, will facilitate much-needed collaboration and cooperation among forest-management researchers across Canada.

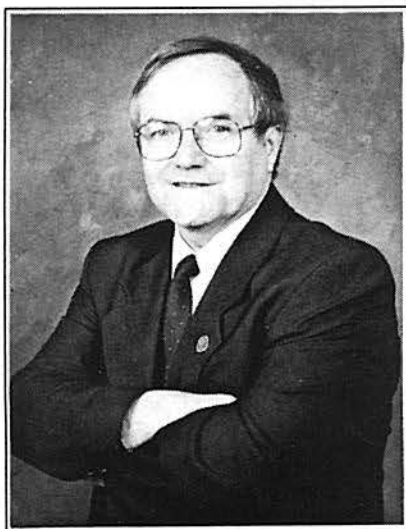
Dr. Rob Rempel, an Experimental Design Scientist with the Ministry of Natural Resources Centre for Northern Forest Ecosystem Research (CNFER) and an adjunct professor with the Faculty of Forestry, will join with Duinker over the coming months to seek out the necessary funds to initiate a variety of research projects.

This is the second Centre of Excellence for Lakehead University under the NSERC program. In 1990, the University joined the Network of Centres of Excellence in Mechanical and Chemimechanical Wood Pulp.

COMING UP

Political Science is hosting a roundtable discussion on the Quebec Referendum on October 27.

Details on page 12.



by Dr. Robert Rosehart
President
Lakehead University

1995-96 BUDGET DEVELOPMENT

As you know, Lakehead University, like all other provincial institutions, is faced with serious funding reductions which are targeted for announcement by the Ontario Government in late November, 1995. The Ontario Economic Statement is expected to clarify the nature and extent of the cutbacks.

The development of this year's budget will be extremely challenging and, as well, will shape the future direction of the institution more than similar efforts in recent years. It is important that the vision of Lakehead University, being a unique northern and regional institution with a broad mandate for post-secondary education, research, scholarship, and community and regional service, be reinforced in this exercise.

The actual budget development will be focused, as in prior years, on the *Task Force on Funding* which, this year, will be augmented by the three senior officers of the Board of Governors. In order to assist this effort, a "Green Paper" options paper is being prepared and should be ready, as well, near the end of November. The focus of the Green Paper will be to present a number of options and to explore the associated fiscal savings. It will not recommend a prescribed course of actions. It is also widely felt that there will be no one "approach" that will translate into the necessary savings but, rather, that we should focus on a package of options which, in total, and over a prescribed time, will generate the necessary results. A key requirement of our approach will be the need to maintain our enrolment at close-to-current levels.

The time-line process for budget development is given on the next page. You will note the two opportunities for general University community input (December 7, 1995 and April 2, 1996). I would encourage the participation of all members of the University community in these important meetings.

For your information, the *Task Force on Funding* is comprised of the following members and individuals:

- ♦ all members of the Senate Budget Committee
- ♦ The Chair, Vice-Chair (Financial Planning), Vice-Chair (Human Resources) of the Board of Governors
- ♦ 2 Vice-Presidents and Chaired by Mr. Poulter, Vice-President (Administration)
- ♦ Grant Walsh, Executive Director, University Services
- ♦ all Deans
- ♦ Chief Librarian
- ♦ Bruce Muirhead, President, LUFA
- ♦ Jack Drewes, Labour/Management
- ♦ Cheryl Balacko, Labour/Management
- ♦ Les Miller, Director of Finance
- ♦ Bill Bragnalo, Director of Human Resources
- ♦ Pentti Paularinne, Registrar
- ♦ Sonja Hansen, Vice-President, LUSU
- ♦ Kerrie-Lee Clarke, Institutional Research

I would encourage all of you to follow up and give input to the work of the *Task Force on Funding* during this very important period.

BRIEFLY

Honorary Degree nominations are sought by the Senate Committee on Honorary Degrees. Please direct questions and/or nominations to Mrs. Linda Phillips in my office as soon as possible.

ACCIDENT CLAIMS OFF-CAMPUS REPRESENTATIVE

We have learned recently of the death of Bonnie Sternkens, one of our off-campus representatives from Red Lake, who was killed in an auto accident. Bonnie was an off-campus representative for approximately ten years and will be sadly missed by her family and our students in the Red Lake Area.



A SNOWBIRD'S SALUTE

Snowbird pilot and Lakehead graduate Captain Ian Searle (BScF'84) surprised first-year Forestry stu-

dents and faculty while they were heading off to Field School last month. Searle got on one of the buses and, after talking to the students, asked trip leaders where they were going then gave the map a quick check. Just after lunch, the Snowbirds flew overhead in perfect formation and did two loops especially for the LU group. -- Katherine Shedden

PROCESS FOR DEVELOPMENT OF 1996-97 BUDGET

The Process will evolve through:

1. The development of a Green Paper outlining options for consideration, and responses to the Green Paper from the University community;
2. The Task Force on Funding which will comprise the representation as utilized in prior years, but augmented by the Chairs of the Board of Governors.

The process and timetable are provided below.

The timing of some actions may be adjusted depending upon the actual date of the Government's Economic Paper announcement and other external factors.

GREEN PAPER

ACTION	DATE
1. Release of Survey Results by President	Sept. 95
2. Discussion of options by Senior Management (VP Academic)	Oct. 95
3. Consider Provincial Government's Economic Paper - Senior Management	Nov. 22 (est)
4. Release Green Paper	Nov. 24(est)
5. Open meeting for University community	Dec. 7
6. Responses to Green Paper	Dec. 15
7. Direct summary of responses to Task Force	Dec. 20

TASK FORCE ON FUNDING (TFF)

ACTION	DATE
1. Familiarization with current environment for TFF	Oct. 95
2. TFF establishes interim multi-year budget guidelines	Nov. 3
3. TFF reports to Board of Governors' Financial Planning Committee	Nov. 6
4. Labour Management receives budget guidelines	Nov. 7
5. Financial Planning Committee reports to Board of Governors	Nov. 16
6. Budget development begins based on Interim Guidelines	Nov. 17
7. TFF considers Provincial Government's Economic Paper and Green Paper	Nov. 20 (est)
8. Senate Budget Committee reports to Senate	Nov. 22
9. TFF receives Green Paper response summary	Dec. 20
10. TFF considers and recommends revised budget guidelines	Jan. 19/96
11. Senate Budget Committee reports to Senate	Jan. 22
12. TFF report to Financial Planning Committee	Feb. 6
13. Board of Governors considers revised Budget guidelines	Feb. 15
14. Management completes multi-year Budget development	Mar. 1
15. TFF begins consideration of proposed multi-year budget	March 8
16. Final Budget considered and recommended by TFF	March 26
17. Labour Management receives proposed budget	March 27
18. Open meeting with University community	April 2
19. Proposed budget received by Financial Planning Committee	April 3
20. Senate Budget Committee reports to Senate	April 25
21. Financial Planning Committee recommends proposed budget to Board of Governors	April 25
22. Budget implementation begins for May 1	April 26



**MARK YOUR CALENDARS
TO ATTEND TWO
OPEN MEETINGS
FOR THE
UNIVERSITY COMMUNITY
THURSDAY, DECEMBER 7, 1995
AND
TUESDAY, APRIL 2, 1996**

LUBA STEPS IN (CONTINUED FROM PAGE 1)

About 150 tree-seedlings were planted by first-year business students along the perimeter of the grounds surrounding the Northern Studies building and on the southwest side of the river near Oliver Road.

The event was sponsored by Hill Greenhouses, Creekside Nurseries and the Ministry of Natural Resources.

LUBA thanks the volunteers who made this event possible: Professor R. Clarke and Nancy Luckai from the Faculty of Forestry, LU staff in Health Services, and Jim Podd of Campus Development.

UPGRADING SECURITY SKILLS

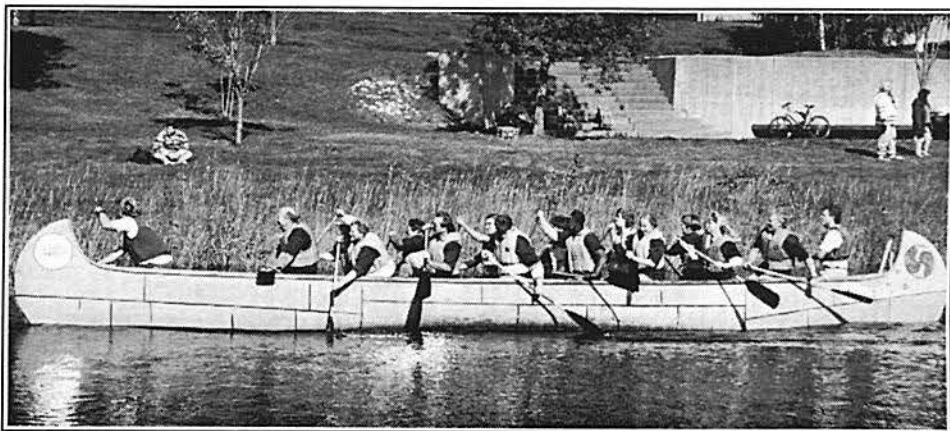


Congratulations to Security Officer John K. Hutton (right) who successfully completed a training course designed to upgrade the skills of Ontario Campus Security Officers.

The four-week course, given at Humber College in Etobicoke last summer, is the first of its kind in Canada and was developed jointly by Humber College and the Ontario Association of College and University Security Administrators. Topics included Human Relations, Criminal Law, Enforcement Practices, Related Legislation and Self Defense.

The cost of the course was covered by Lakehead University's Human Resources department and Chief of Security Paul Brezanoczy (left) anticipates that eventually all Lakehead University Security Officers will be able to take the course.

WHAT A TURN-AROUND!



For the last three years Lakehead University has been forced to take second place to Confederation College in the annual Canoe Challenge on Lake Tamblyn. But not this year! The Lakehead team shaved many precious seconds off their race time by simply turning *themselves* around at the half-way mark, and not their heavy canoe. Special thanks go to Athletic Facilities Supervisor Bill Keeler for organizing the event and to all the students, staff and faculty who participated.

ELECTRIC VEHICLE CONVERSION PROJECT BEGINS PHASE 2

Two years ago a Ford F-100 pick-up truck was donated to Lakehead by Thunder Bay Hydro. The idea was to convert the truck to an electric vehicle (E/V) powered by batteries, and to make the E/V an acceptable substitute for fossil fuel vehicles under the extremes of Thunder Bay's winters. Last month representatives from the utility company were on campus to present a cheque for \$15,000 for phase 2 of the project.

Two co-investigators from the Faculty of Engineering, Dr. Seimer Tsang and Dr. Sabah Mansour, are working with six fifth-year students to have the E/V up and running by this spring, at which time the converted truck is to be operated and evaluated by the maintenance crew of Lakehead University. Funding is being provided by Thunder Bay Hydro for the acquisition of the electric motor and controller, parts, batteries, components and instruments needed to complete this conversion. --Wayne Petersen

ALCOHOL AWARENESS MOVEMENT SALUTES LAKEHEAD

An alcohol awareness movement that links over 90 campuses across the country, has ranked Lakehead University in second place for the 1995 "Campus of the Year" title.

Residence Life Coordinator Norma Jean Newbold attributes BACCHUS CANADA's recognition of Lakehead to a number of activities held on campus last year including Alcohol Awareness Week, the Mocktail Contest, the MADD Red Ribbon Campaign, the Drinkwise Booth, and the Beer-Case- Equals-Tuition display.

SUDS (Students Unified for Drinking Sensibly) is the name of Lakehead's campus affiliate of BACCHUS.

It is a LUSU club with members from each house in residence as well as from the campus at large.

Congratulations to Shaun Berney, a first-year Outdoor Recreation, Parks & Tourism student, who was selected from over 300 applicants to attend the Tourism Industry Association of Canada (TIAC) Conference in Montreal this month.

MARY BJORKLUND ENDOWMENT FUND



Students with hearing disabilities will be getting some extra help in the future thanks to the generosity of Mary Bjorklund (right).

On the suggestion of her daughter Sharon (left), an endowment fund has been established to purchase a variety of assistive devices and services for hearing-impaired students.

The new equipment will be housed in the Lakehead University Learning Assistance Centre and will be available to any student who needs it.

The University currently has three types of hearing devices: a FM system with an octagon microphone that enables the hearing-impaired person to hear conversations in a tutorial; two sets of "Easy Listener" which aids one-on-one listening; and an Infrared Listening System which is installed in the University Centre Theatre.

Sharon Bjorklund, who is herself hearing impaired, has taken two half courses in Political Studies during her 27 years as an employee of the University. She encouraged her mother to make the contribution so the people of Northwestern Ontario would benefit.

Bjorklund credits Director of Student Services Geraldine White for encouraging her to attempt University study. "I never would have done it without her being so persuasive," she says. The Learning Assistance Centre is located in the basement of the Student Centre (SC0003).

FOSTER A SCHOLAR

In celebration of Lakehead's 30th Anniversary and in response to the ever increasing costs of post-secondary education, Lakehead University has set a goal of creating 50 endowed scholarships, bursaries or awards of \$5,000 each.

Senior Development Officer Jo-Anne Silverman says that since the program began this fall, several scholarships have been established, but many more are needed. "With over half of our students on OSAP and one in ten receiving financial assistance from Lakehead University, the need to alleviate financial difficulties is becoming even more critical," she says.

Silverman and Vice President Fred Poulter are currently meeting with the Thunder Bay business community to discuss ways companies can "Foster A Scholar." The reception to date has been excellent.

To establish a 30th Anniversary endowment, a minimum of \$5,000, payable in a lump sum or in installments, is required. An annual award is then paid out to the deserving student from the interest earned.

Lakehead University offers a generous recognition package to the potential donor including: a listing of the award in the University Calendar; an invitation to the annual Donors' Reception where the donor's name is prominently displayed on a donor board; the donor's name and the student recipient listed together once a year in an advertisement in The Chronicle-Journal; and a receipt for income tax purposes is issued for the amount of the gift.

Endowed awards usually carry the name of the donor or a name "In Memory."

Considering that the economic impact of Lakehead on the community is \$175 million, it is not surprising that individuals in the community are coming forward in support of Lakehead University. If you would like to establish an award, or if you know of someone who might like more information on the scholarship program, please contact the Development Office at 343-8910.

BOARD OF GOVERNORS

The following appointments were made at the September 21, 1995 Board of Governors' Meeting:

New Members:

Hank Akervall
Richard Andison
Bob Archibald
Allan Becker
Terry Robinson

Re-nominated:

J.J. Davis
Rebecca Johnson
Dusty Miller
Fred Nowgesic
John O'Brien
Douglas Scott

Officers of the Board of Governors:

Chair: Pat O'Brien
Past-Chair: Tony Seuret
First Vice-Chair: Maureen Doig
Second Vice-Chair: Steve Hessian
President: Robert Rosehart
Secretary: Bev Stefureak

Maureen Doig, Lakehead University's Vice-Chair of the Board of Governors, has been elected to the position of Vice-Chair of the Council of Chairs -- an organization representing Chairs of University Boards of Governors. Mrs. Doig will be Chair of the Council of Chairs when their Annual Meeting is held in Thunder Bay in 1997.

ANTI-RACISM PUBLIC FORUM OCTOBER 23

Lakehead is holding a public forum on Monday, October 23 at 1:00 pm in the University Centre Theatre to hear comments on the draft copy of the *Lakehead University Anti-Racism and Ethnocultural Equity Policy* which was published in the September 1995 issue of the *Agora*.

Joe Comuzzi, MP, Thunder Bay-Nipigon, was on campus last month to present a \$10,000 cheque from the Ministry of Canadian Heritage to assist the University in implementing its Anti-Racism policy. Vice President (Administration) Fred Poulter says the funds will be used for special lectures and workshops for faculty, staff and students to enable them to deal more effectively with race relations issues.

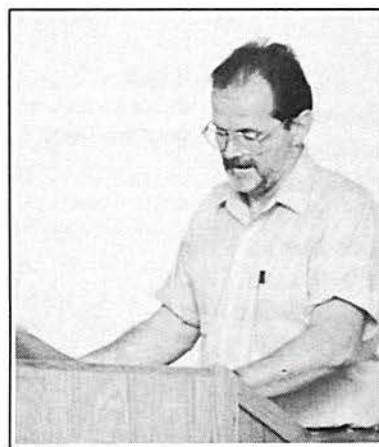
SSHRC International Summer Institute

In the fall of 1992, as part of its international strategy, the Social Sciences and Humanities Research Council of Canada (SSHRC) established the Summer Institute program to promote international and interdisciplinary research and to involve scholars of all levels of experience. Canadian Universities were invited to compete for the three grants to be awarded annually to host these theme-focused events. A year ago we received the exciting news that a Summer Institute with the theme "Challenge '95: Social Science Perspectives on Health Service Delivery Issues in Rural and Remote Areas" was to be hosted by the programs of Health Sciences North on the Lakehead University campus from August 14-24, 1995.

The Institute afforded Health Sciences North programs an opportunity to further their individual and collective objectives of fostering research relevant to northern Ontario. These inter-university programs comprise the Northern Studies Stream (McMaster), Northern Outreach Program (University of Western Ontario), Northern Educational Centre for Aging and Health (LU/McM), Northern Health Human Resources Research Unit (LU/Laurentian), Northwestern Ontario Medical Programme (McM/LU), and Family Medicine North: NWO (McM/LU). The Institute reflected the tenets that characterize Health Sciences North -- interdisciplinary activity, inter-institutional collaboration, and the bringing together of academic and practitioner members of the community. Principal Investigators for the SSHRC grant were Dr. Bruce Minore of NHHRRU and Dr. Paul Humphries of the Northwestern Ontario Medicine Programme.



Lakehead University hosted an intensive research retreat this summer focusing on health service delivery issues in rural and remote areas.



Challenge '95 was a natural outcome of the "Redressing the Imbalance" Conference organized by Lakehead University's Northern Health Human Resources Research Unit (NHHRRU) two years ago. Best described as a research retreat, the Institute adopted a unique approach by inviting preformed teams who largely determined the work to be accomplished and hence their own schedules.

This approach required a purposely designed yet flexible format, very different from that of a workshop or conference. Its planning and evolution generated considerable interest and excitement, and a major collaborative effort was required to bring it successfully to fruition. The event was supported not only by SSHRC, but also by Health Canada, the Medical Research Council of Canada, the Australian High Commission, the City of Thunder Bay, and the Universities of North Dakota, Manitoba and Western Ontario, in addition to Lakehead and McMaster Universities. Travel for the Australian team was made possible by the Australian Commonwealth Department of Human Services and Health.



Attending the Summer Institute were social scientists from different countries and with varying research backgrounds and expertise, as well as health care providers from rural communities. Scholars with international and diverse perspectives on rural health issues came together to share knowledge and compare experiences in both formal and informal settings, in addition to furthering their own research projects. Topics covered a broad spectrum of rural health issues and included frameworks for health service delivery, contextual evaluation of interdisciplinary training, women's involvement in the promotion of community health, decision-making in informal, formal and self-care of the elderly, and suicide prevention in the Eastern Arctic.



Primary responsibility for the day-to-day development, structure, and direction of the program rested with the research teams. Comprised of both seasoned and novice researchers, they met daily to discuss and develop detailed research proposals. Expert support came from several sources. Critical evaluation and scholarly guidance were provided by *mentors* -- senior researchers with expertise in different disciplines. Appraisal of the practical consequences of proposed research came from *practitioners* -- health care providers working in rural areas in the U.S. and Canada. Inspiration and direction were provided by *provocateurs* -- prominent researchers who delivered opening and closing addresses.

Opportunity for social interaction was an important part of the Institute to facilitate the development of ongoing international and academic relationships. The ability to play hard as well as work hard was evident throughout the two weeks. The participants had fun! An evening at Hazelwood Lake (complete with International Buffet), a Night on the Town (which the organizers preferred not to hear about!), a weekend at Quetico Centre, and a Farewell Banquet in le Canot du Nord at Old Fort William -- shared with Dr. Penrod, President of SSHRC, Mayor and Mrs. Hamilton, Dr. Rosehart and other invited guests -- were but a few of the activities enjoyed. A Sweetgrass ceremony added its own special and spiritual dimension. Memories endure of the early morning call of the loon at Quetico and the nearby forest fires,

initiation into the arts of canoeing and fishing (the fish won!), and Fred Ball's special talents at the piano which inspired the formation of an impromptu band and the debut of Health Science North's cancan dancers! It was impossible to remain unaffected by the mischievous humour of the Australian contingent. They broadened our understanding of the English language ("Sorry ocker the Fokker's chocker" translates as "Very sorry, sir, the plane is full"), and encouraged us to adopt their view of the world (upside down!).

The length of the Institute demanded an extended period of quality service from everyone involved, including the many contributing departments of the University. This was received in full measure and contributed significantly to the success of the Institute. All indications to date are that it was a very valuable experience, and many thanks are due to all concerned.

The outcome of two weeks of such intense and varied activity cannot be fully measured at this time. The true benefit of the team approach, bringing together academics and community workers to compare viewpoints, and the contribution of mentors and provocateurs, will become apparent only in the long term. The Institute was a catalyst in the research process, and the most important work for the teams lies ahead as they progress with their research and seek the requisite funds. Already we know that there have been preliminary talks of collaboration and visits between the University of Florida (Gainesville) and Laurentian/Lakehead Universities; that progress has been made with various research proposals, articles, and conference presentations; that an invitation has been received to submit a proposal to the NHRDP following review of a letter of intent, and that linkages have been established between the Australian team and the University of Washington in Seattle. Perhaps the most effective indicator of the success of the Summer Institute is the proposed development of a homepage on the World Wide Web, which would allow the participants and a growing network of researchers to collaborate on challenges associated with Health Service Delivery Issues in Rural and Remote Areas.

-- Jean Engholm, Connie Hartviksen and Carol MacDonald



CHEMICAL ENGINEERING

Dr. Laurie J. Garred recently delivered two papers at international conferences. "Urea Rebound Prediction Using A Continuous Sensor" was presented at the 32nd Congress of the European Dialysis and Transplantation Association held in Athens, Greece, in June.

In July, Garred presented a paper entitled "Long Term Variation in Lean Body Mass Estimated by Creatinine Kinetic Modeling" at the 13th International Congress of Nephrology in Madrid, Spain.

Two additional papers have been accepted for publication. "Dialysate-Based Kinetic Modeling" will appear in *Advances in Renal Replacement Therapy*. "Urea Kinetic Modeling - An Overview" will be published (in German) in *Klinische Nephrologie*.

Dr. V.R. Puttagunta prepared one chapter for the Encyclopedia of Fluid Mechanics at the invitation of its editor, Dr. Nicholas P. Cheremisinoff. The title of the chapter is "Viscosity Correlation for Unrefined Petroleum Liquids" and it includes Puttagunta's viscosity correlation which is proven to be the simplest and the most accurate one known to date requiring the least expensive input parameter.

The encyclopedia is expected to be released in November, 1995 by the Gulf Publishing Company. This work is co-authored by Dr. A. Miadonye, Senior Lecturer, Department of Chemical and Petroleum Engineering, University of Science and Technology, Port Harcourt, Rivers State, Nigeria.

In 1993, Dr. John J. McKetta, the editor of "Encyclopedia of Chemical Processing and Design, obtained permission from Puttagunta to include his viscosity work entitled "Heavy Oil Viscosity Range From One Test" in his encyclopedia. The co-authors of the above work are Dr. A. Miadonye and Dr. B. Singh, Professor of Mechanical Engineering, Lakehead University.



LU ENGINEERS KEEP THE WHEELS TURNING

Maurice Rubenick (left) of the Disabled Workers' Complex Case Network is working with Dr. Seimer Tsang (right) and Dr. Sabah Mansour to make improvements to the design of an electric wheelchair that will power David Shannon's cross country journey in 1997.

Shannon is a graduate of Lakehead University who was injured during a sporting event in 1981. Although fully paralysed from the neck and shoulders, he went on to complete a law degree at Dalhousie University and to study at the London School of Economics where he expects to receive a Master of Law degree in 1996. His goal in travelling 13,000 km from coast to coast will be to establish a Thunder Bay centred national foundation for persons with a disability.

Tsang and Mansour are working with five fifth-year engineering students to improve the electrical and mechanical design of the wheelchair that will power Shannon across the country. They estimate that between 10-15 wheelchairs will be required for the journey and are currently seeking funding for the research component of the project.

CIVIL ENGINEERING

Dr. U. S. Panu has published the following articles:

- 1) "Time Series Analysis in Hydrology and Environmental Engineering" with K. Hipel, V.P. Singh, and A.I. McLeod, Editors (1994) published by Water Science and Technology Division of the Kluwer Academic Publishers, Dordrecht, The Netherlands.
- 2) "Estimation of Mean Areal Evaporation in Northwestern Ontario," with T. Nguyen (1994) in *Canadian Water Resources Journal*, Vol. 19, No. 1, pages 69-82.

- 3) "Complement Method of Observation Lack of Discharge with Pattern Classification and Fuzzy Inference," with T. Kojiri, and K. Tomosugi, 1994, in *Journal of Japan Society of Hydrology and Water Resources*, Vol. 7, No. 6, pages 536-543.

Panu also presented the following technical papers at conferences:

- 1) "Effect of Infilled Streamflows on Flood Frequency Analysis," by U. Panu and B. McLarty, (1994). CSCE-1994 Annual Conference Proceeding, Vol. 1, pages 309-317.

2) "Predicting Agricultural Drought Based on Statistical Analysis of Rainfall and Soil Moisture Index." Proceedings of Fifth International Conference on Statistical Methods for the Environmental Sciences, U. Panu with V. Kumar, (1994): pages 139-141.

Panu also chaired the session: "Assessment of Interventions from Before and After Data" at the Fifth International Conference on Statistical Methods for the Environmental Sciences held at Burlington on August 11-15, 1994.

POLITICAL SCIENCE

Dr. L. Paquette has been invited to contribute an article to a special issue of Canada's leading journal on international relations: *The International Journal*. Her article is entitled "Canada's 1994 Defense White Paper and the Renewal of NATO" and will be published in the fall, 1995, issue.

Paquette spent part of her summer in Korea where she lectured at the Korea Institute for Defense Analysis (a government think-tank within the Department of Defense of the Republic of Korea) and the Korea National Defense University on the subject of strategic compatibility of North and South Korean foreign policy. Along with Lee Su-Hoon and Kwak Tae-Hwan, Paquette co-edited conference proceedings about Korean Security Issues for her host institution -- The Institute of Far Eastern Studies.

NURSING

Dr. Darlene Steven and Dr. Dhali Dhaliwal, Chief Executive Officer of the Thunder Bay Regional Cancer Centre, in conjunction with Dr. Margaret Fitch (OCTRF), Dr. Aileen Clarke (OCTRF), Professor Rhonda Kirk-Gardner (School of Nursing), Dr. Jim Stafford (Sociology), Professor Dennis McPherson (Indigenous Learning), Dr. Choudhry (Seneca College), Dr. Scott Sellick (TBRCC), Mrs. Heather Woodbeck (NWOBSP) and The Thunder Bay Immigrant and Visible Minority Women's Association, have received \$5,000 in funding from the Northern Ontario Health Research Programme to research "Knowledge, Attitudes, Beliefs and Practices Regarding Breast Screening and Clinical Cancer Screening in Selected Ethno-Cultural Groups in Northwestern Ontario."

Dr. Darlene Steven, Dr. Kotalik (Thunder Bay Regional Cancer Centre) and the research team also received \$2,000 from SSHRC Aid to Small Universities to conduct a literature review and develop the questionnaire.

KINESIOLOGY

Dr. Thomas M. K. Song presented a paper entitled "Fatness and Relative Fat Distribution of Youth with High and Low Physical Work Capacity" at the Annual Meeting of the American College of Sports Medicine, Minneapolis, MN, May 31-June 3, 1995. The study was done in collaboration with Dr. C. Bouchard, Physical Activity Sciences Laboratory, Laval University, Quebec, and Dr. R. Malina, Department of Physical Education and Sports Sciences, Michigan State University, East Lansing, MI.

Song has carried out research projects "Longitudinal Studies on Physique and Fitness in Middle-aged Males and Females" and "Genetic variation in elite endurance athletes" (which is an ongoing international joint research project) during his summer at Laval University, Quebec, as a visiting research professor. This year Song received the ninth consecutive Ontario-Quebec Exchange Program Grant and research grants from Laval and Lakehead University for his research work.

EDUCATION

Recent publications by Dr. Hope-Arlene Fennell include: "Women Principals: A Case Study" in the *Journal of School Leadership*; "Thinking about Teaching: A Case-Study of Pre-Service Teachers" in the *Journal of Professional Studies*, and "Women in Leadership: Metaphors for Power" in *Gender Issues in Educational Administration in Canada*. She also presented a paper entitled "Facilitative Power in Schools: Experiences of Women Principals" at the annual conference of the American Educational Research Association in San Francisco, CA, April 18 - 23, 1995.

Dr. Douglas Thom has had his article, "Conscience and Leadership," published in *International Studies in Educational Administration*, no. 60, Winter, 1994.

WOMEN AND SCIENCE



Lakehead University Biology and Forestry professor Dr. Peggy Tripp-Knowles will be featured in a film about women in science entitled "As if People Mattered: Women and the Creation of a New Science."

Tripp-Knowles's expertise is in Forest Genetics and Feminist Science Critique.

Co-director Gwynne Basen says the film is about Canadian women who are "finding their own ways of doing science." It features several notable scientists including Dr. Ursula Franklin (who received an Honorary Degree from Lakehead University two years ago), Karen Messing, a geneticist and occupational health specialist with Université du Québec à Montréal's Centre pour l'Étude des Interactions Biologiques entre la Santé et l'Environnement, Rosalind Cairncross, an environmental consultant originally from South Africa, and Reena McKillop, an engineering student at the University of Toronto.

Last summer a film crew was in Thunder Bay for six days to film Tripp-Knowles at home, in the classroom and in the forest. They were particularly interested in her methods of team teaching.

The film is being made by Artemis Films of Montreal and has received funding from Studio D of the National Film Board.

It is expected to air on the Discovery Channel in the fall of 1996.



NEW HEALTH & SAFETY VIDEOS

The health and safety area of Human Resources maintains a library of VHS format videos which are available for loan to University employees. Some of the new titles which we have obtained are:

- *Travelling Alone*: a personal safety video primarily focusing on women travelling alone, but with valuable information for all travellers.
 - *Due Diligence Strategies for Senior Management - An OHS Educational Program*: a video designed primarily for senior managers, but of importance to all employees. Understanding the concept of due diligence, and providing strategies to achieve due diligence are emphasized. Produced by Ryerson Polytechnic University, this video has a strong university-based focus.
- Call Judy Ward at 8022 to arrange to borrow a copy.

DISPOSAL OF WASTE CHEMICALS

Do you have waste or unwanted chemicals on inventory? Contact the Human Resources Department at 8022 and ask for a "Request to Dispose of Chemical Waste" form.

You will be asked to complete and affix one copy of the form to the chemical waste container, and to forward one copy to Human Resources. The Human Resources Department will take care of the rest!

We contract out the waste removal (including packaging, labelling, transport and disposal) to appropriately licensed waste carriers. The cost of the service is borne by the Human Resources Department - Health & Safety. There is no cost to your Department!

LAKEHEAD UNIVERSITY JOINT HEALTH & SAFETY COMMITTEE: WORKING FOR YOU

The Lakehead University Joint Health & Safety Committee [JHSC] is a group of employees representing both workers and management. Working together, the representatives are committed to achieving the goal of the Committee: to protect and promote the health and safety of workers.

The Committee members function within the context of the JHSC's three primary objectives: to identify actual and potential hazards in the workplace, to evaluate those hazards, and to make recommendations to management concerning ways in which the hazards can be eliminated or controlled. This means that the JHSC is a *working or operational* committee.

The Committee discusses and reviews health and safety issues on a monthly basis investigates accidents, incidents and work refusals, and conducts 74 workplace inspections annually. In addition, the JHSC takes on special projects, such as modified work, through its sub-committee structure, and sponsors special programs. During the 1995 - 96 academic year, the Committee will explore health and safety incentive programs, and the health and safety concern/complaint process.

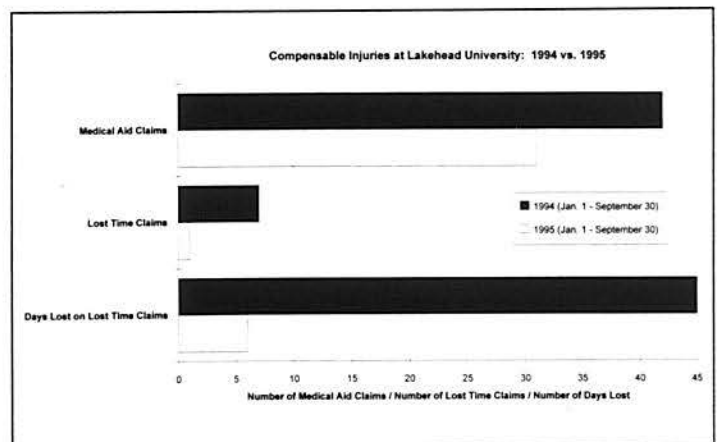
For more information about your Joint Health and Safety Committee, contact the Committee Secretary, Norma Gibson, at "0", or check the JHSC list in your Department for the name of a Committee member who represents you.

Note: Pat Buffington has replaced Duan Hu as the designated representative of CUPE on the University Joint Health & Safety Committee [JHSC].

WHEN YOU'RE HEARING BELLS ...

It's obvious that everyone has taken the simple message to heart: when the fire alarm sounds, it's time to leave the building.

Faculty, staff, students and fire wardens are to be congratulated for the exceptional cooperation demonstrated during fire drills conducted September 27 and 28. Once again, we were able to successfully test evacuation procedures in 25 University buildings in a just a day and a half. The same task took five days in 1992 because of technical difficulties and slower evacuations.



NEWS FROM HUMAN RESOURCES

Lakehead welcomes to the campus *Christine Nykanen* who has been hired on contract to work as a Technician in the Centre for Analytical Services (Instrument Lab); as well as *Allan Auld*, and *Azhar Laldin* who are both on contract with CTCR's Campus Tech.

Congratulations to the following people who now hold full-time positions in the University: *Gerry Crichlow*, formerly a Telecommunications Specialist with the CTCR, who is now CTCR's Senior Computer Technician; *Brenda Kemp*, a Shelver in the Library; *Christina Falcigno* a Mail/Printing Clerk in Printing Services; and *Christine Nielsen*, a Software Technician at the CTCR.

John Weiler, Member, Convention Refugee Determination Division Immigration and Refugee Board of Canada will give a public lecture on Tuesday, October 24, 1995 at 8:00 pm in the Senate Chambers (Room UC-10011) Admission free. Everyone Welcome. The lecture is being put on by The Thunder Bay Branch of the Canadian Institute of International Affairs.

DOWN UNDER

HOW DOES A LIF WORK?

A Life Income Fund (LIF) provides an alternative to a pension or the purchase of a life annuity at retirement. It allows for flexible payments subject to annual minimums and maximums up to age 80 but then requires that you purchase a life annuity. You may decide to purchase a life annuity at any time before age 80. A LIF is a good choice if you want some flexibility of income in the early years of your retirement with a more certain income in later years. It is also a good choice if you wish to purchase an annuity but want to wait for a time when rates may be more favourable. The major disadvantage to this option is that you are responsible for managing investments and thus you assume the risk of poor investment performance.

In the period from retirement to age 80 you must take income from the fund each year subject to a maximum and minimum recalculated every year:

$$\text{Minimum to age 70} = \frac{\text{Amount in fund at January 1}}{\text{Period to age 90 (90 minus age)}}$$

Example:

at age 65 with \$100,000 balance: $\$100,000 \div (90 - 65) = \$4,000$

For ages over 70, the minimum amount depends on age, as follows:

AGE	% OF FUNDS	AGE	% OF FUNDS
71	7.38	76	7.99
72	7.48	77	8.15
73	7.59	78	8.33
74	7.71	79	8.53
75	7.85		

$$\text{Maximum} = \frac{\text{Amount in fund}}{\text{Annuity certain to age 90 factor}}$$

Example:

at age 65 with \$100,000 balance: $\$100,000 \div 10.92 = \$9,150.80$

The factor of 10.92 above is the value of a term certain annuity paying \$1 per year until age 90. This factor will vary depending on interest rates at the time of calculation.

Christmas Closure: The Christmas closure for Lakehead University will be from noon on Friday, December 22, 1995, to and including Monday, January 1, 1996. The University will re-open on Tuesday, January 2, 1996.

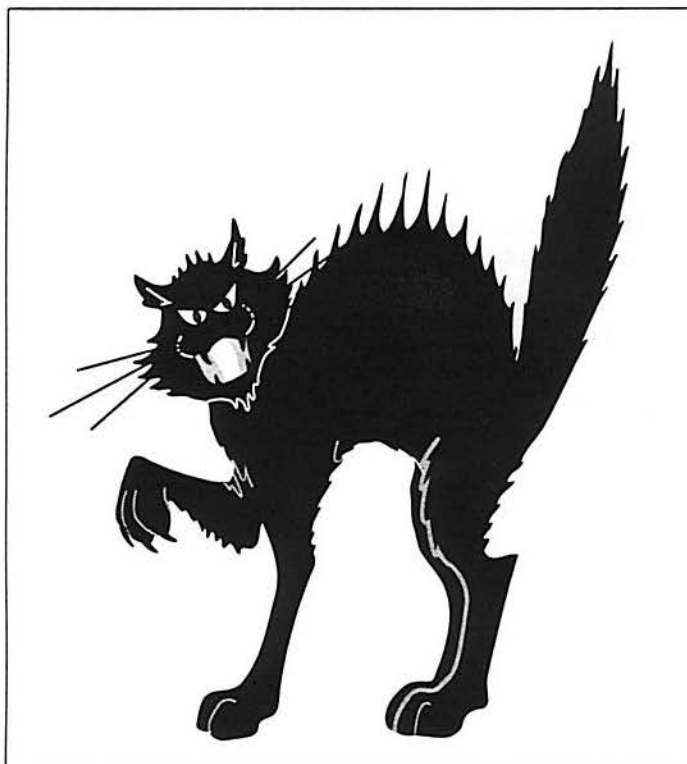
Human Resources

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346-7701

PENSION BOARD FOR PROFESSIONAL STAFF

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PREFERRED VISION SERVICES (PVS)

Preferred Vision Services entitles you to an extra discount on a wide selection of quality eyewear for yourself or your qualified dependents when you purchase them from a PVS network optician. **Sears Optical** and **Ham's Vision Centre** are PVS locations in Thunder Bay. When you visit these opticians, be sure to tell them you are a Lakehead University employee with benefits through Prudential, and ask about your PVS savings.

Quote of the Month:

Doing your best is more important than being the best.

❑ **A Public Forum on Lakehead University Anti-Racism and Ethnocultural Equity Policy** will be held in the University Centre Theatre on Monday, October 23 at 1:00 pm. Students, staff and faculty are invited to attend.

❑ **The Canadian Council for Small Business and Entrepreneurship** will hold its 12th annual conference in Thunder Bay, from October 25 to 27. The theme of this year's meeting is "Entrepreneurship in the New Economy." Keynote addresses will be presented by Grace White, the winner of the 1993 Canadian Woman Entrepreneur of the Year Award for International Competitiveness; Catherine Swift, president of the Canadian Federation of Independent Business; Charlie Coffey, senior vice-president at Royal Bank of Canada; and David Stewart-Patterson, financial editor for CTV. For more information contact Lisa Beckwick at 473-3841 or fax 623-9165.

❑ **Political Studies is hosting a Roundtable on the Quebec Referendum** on Friday, October 27 at 7:30 pm in the Faculty Lounge. Dr. Laure Paquette, Dr. Gary Munro and Dr. Douglas West will comment on and respond to questions on the Quebec Referendum. Free admission. Everyone welcome.

❑ **Dr. Jane Gentleman of Statistics Canada** will be visiting the campus on November 9-10 and will give two public lectures: one on Surgical Procedure Rates and the other on Life Expectancy and Divorce Rates. Times and locations to be announced.

YOU'RE INVITED TO THREE BOOK LAUNCHINGS

❑ **A new book by Penny Petrone** entitled *Breaking the Mould* is being celebrated on Thursday, November 2 with a reception from 8:00 to 10:00 pm in the Faculty Lounge.

❑ **Tory Tronrud and Ernie Epp** are launching a new book on the history of Thunder Bay entitled *Thunder Bay -- From Rivalry to Unity* in the Agora on November 9 at noon.

❑ **CBC broadcaster and humourist Arthur Black** will be signing copies of his new book entitled *Black Mail* in the Alumni Bookstore on Monday, November 20, from 11:30 am to 1:00 pm.



The LUSU annual Shinerama Campaign, organized this year by Jennifer Paddon, raised \$6,000 for Cystic Fibrosis Research and Treatment.

LAKEHEAD UNIVERSITY CONCERT SERIES (Fall Schedule)

All concerts, unless otherwise noted, are held in the Jean McNulty Recital Hall, William H. Buset Centre for Music and Visual Arts

Tuesdays, 12:30 pm

October 17: Allan Bevan, organ (Wesley United Church), **October 31:** Alexander Tselyakov, piano, **November 14:** Erika Raum, violin; Heather Morrison piano, **November 28:** Harold Wevers, bassoon, Joy Fahrenbruck, piano.

For tickets and information call:
343-8787

❑ **A Public Lecture on Minority Languages in Europe** will be given by Bert Edens on Wednesday, November 15, at 8:00 pm in the Regional Centre, RC0005. The lecture is being sponsored by the Department of Languages and the Dutch-Canadian Society of Thunder Bay.

**DEADLINE
FOR THE NOVEMBER ISSUE OF THE
AGORA
NOVEMBER 1, 1995**

Agora

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

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