



AGORA

Thunder Bay

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DR. NEIL WEIR NAMED DISTINGUISHED RESEARCHER

by Vonnie Cheng

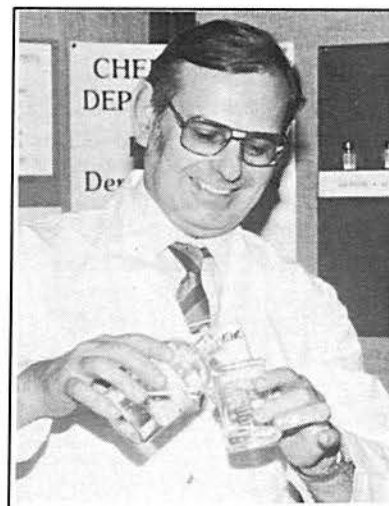
Two recognitions within the same month!! Congratulations to Dr. Neil Weir for receiving the University's Distinguished Researcher Award for 1992-93 and the Doctor of Science degree from Glasgow University.

Dr. Weir came to Lakehead University in 1970 from Scotland after six years of teaching at Heriot-Watt University in Edinburgh. During the twenty-two years he has been at Lakehead, Dr. Weir has published over 80 papers in international journals, 24 of these and one book chapter in the last five years. He has developed two graduate courses and supervised numerous postdoctoral fellows, Ph.D. and M.Sc. students in the Chemistry Department. He is also a Ph.D. supervisor for the University of Salford (U.K.), a Ph.D. examiner for three universities in the U.K. and Poland, a member of the Editorial Board of an international journal, as well as a grants referee for NSERC, NATO, and the Polish Academy of Sciences. Dr. Weir's speciality is polymer science, a subject generally considered by students to be "very difficult." In addition to teaching Chemistry at both undergraduate and graduate levels, Dr. Weir teaches courses in Engineering as well. This year, he has

an "intimate" class size of over 160 students in his class.

Lest we think that he is a wee bit lopsided in his interests, Dr. Weir is the Coordinator of the graduate studies program in Chemistry. He has served on various committees including the Senate Research Committee. Besides English and Scottish Gaelic which he was brought up to speak, he has in his command several languages including German, French, "some" (his word, not mine) Polish, "some" Hungarian, and "some" Russian. As one of the leading experts in Polymer Science in Canada, he has been in great demand as a lecturer both at home and abroad. So far, he has given lectures in Quebec City, Toronto, United States, Czechoslovakia, Sweden, Britain, Poland, and Germany.

If funding is an index of a researcher's worth in the eyes of the granting bodies, then Dr. Weir is clearly in the heavy-weight category. His research in Polymer and Lignin Photochemistry has always been exceeding well funded. In the last five years alone, he has received more than a quarter of a million dollars from NRC/NSERC and the Centres of Excellence. He was also invited to participate in the Centres of Excellence's National Network (Mechanical Wood Pulp program) two years ago. The Network joins together approximately 30 scientists across Canada including Dr. David Holah (Chemistry), Dr. Allan Gilbert (Engineering), and Dr. Krishnamoorthy Natarajan



(Engineering) at Lakehead University. Dr. Weir is the Participant Leader for the LU National Centres of Excellence research projects. As a principal investigator his part of the project focuses on lignin, specifically the photodegradation properties of lignin which make white paper turn brown on exposure to sunlight. Dr. Weir is assisted by Dr. George Arct, his partner in the project, and by Alfredo Ceccarelli, a graduate student whom he supervises. Since lignin has a very complex molecular structure and it cannot be extracted from the wood tissue without altering its chemical composition, Dr. Weir and his team had to start from scratch by making and using less complicated organic molecules to help them piece together the puzzle.

*more about Dr. Weir on page 1 of
Research News*



*Getting in the mood for the
holiday and the office move,
Agora staff move books, files,
trees and people! From the
External Relations staff we wish
everyone a*

Happy Holiday

IN THE NEXT ISSUE:

- ❖ Dr. Bill Heath - Named Distinguished Instructor for 1993
- ❖ Retirees and 20-year pin recipients and photographs from the Holiday Celebration

Early Christmas Present from Ontario Government

Most of you will know that because of continuing economic woes and priorities, the Ontario Government has reneged on its 2% funding commitment for 1993/94. Base funding was announced by the Treasurer recently as 0%. A further \$10.5 million was skimmed off the top by the Minister so that the effective allocation to Lakehead University next year is a base reduction of 0.75%.

The good news, if you can call it good, (our students don't) is that tuition fees are going up 7% and with our healthy enrolment situation, this does provide some compensation - but at a price. It is expected that the fee increase, coupled with the continued economic tough times and announced O.S.A.P. changes, will have a negative impact on enrolment in 1993/94. We are currently working on budget models which factor in a 5% reduction in Year 1 intake.

In November the Board of Governors passed the 1993/94 Budget guidelines which will direct the final budget preparation, scheduled for approval at the April 1993 Board meeting. The guidelines emphasize fiscal caution, the maintenance and stability of enrolment, priority consideration for the library and a commitment to maintain faculty and staff employment levels. This is achievable for 1993/94 if we have very strict guidelines for expenditures including salaries and other costs. Another part of the jigsaw will be put in place in late February when we get the student application data from O.U.A.C. (Guelph). During the next four months, the Senate Budget Committee, the Labour/Management Committee and the Task Force on Funding will be reviewing a variety of budget scenarios for next year based on the Board-approved guidelines.

Following the positive reception to last year's voluntary staff holiday program, the Board guidelines for 1993/94 see a continuation of this successful program. I have recently commented to all Budget centres that they should show maximum flexibility for those people seeking additional voluntary holidays. It is clear that his program needs to be

augmented with staff training to permit flexibility.

Budgets will continue to be tight but are manageable if we all can continue to pull together in the interest of the future of Lakehead University. In the longer term, I expect 1994/95 to be as tight but by 1995/96, the spill-over effect of the U.S. economy recovery, coupled with an expected Ontario election, may see some relief. (It does, however, seem like a long way off.)

The M.C.U. Restructuring Committee continues to be a puzzle. This group, well stacked with University stakeholders, has recently embarked on an expected eighteen-month study to examine how the Ontario university system needs to be restructured to "cope" with the future needs of Ontario society. Somewhat puzzling is the 2% restructuring fund allocated in the 1993/94 transfer payment announcement. How can money be spent to implement a restructuring plan when the plan itself cannot be completed in the fiscal year? More in a future column.

Quick Trip

In late November, I made a comprehensive 11-day visit to three countries to seek additional funding and programs to add to our international activities.

First stop was Gifu University in Japan, the source of our Japanese summer program students. En route to Japan, I spent part of a day in Vancouver fund-raising for the Sea-to-Sea Project as well as visiting B.C.I.T. (British Columbia Institute of Technology) to meet with prospective college transfer students, primarily in engineering technology and business.

The formal visit to Gifu University was somewhat exhausting. The overall impression is one of very positive feeling towards the Lakehead University programs. The visiting faculty and Japanese students very much enjoy Lakehead University and the Thunder Bay community. Our meeting included a two-hour video taping session where Dan Pakulak and I answered questions which will be used for a Japan-wide promotion for the summer programs, as well as a press conference with the local newspaper and a symbolic presentation to a few

of the students who attended Lakehead University last summer.

Our meeting with the University President and the President of the Board went well, and we have been asked to prepare a proposal for a fourth program that possibly could start as early as this summer. As well, Gifu University will most probably undergo a major expansion in two years and additional program options were discussed. At a time of reduced government operating support, these types of programs become increasingly important. Our hosts covered all of our expenses in Japan which was much appreciated. Lakehead University presented our hosts with plaques to recognize the spirit of our co-operative activities.

Although Japan is suffering from the same world-wide recession as Canada, it has a much more positive and aggressive outlook on the future.

En route to Finland, Dan Pakulak and I spent 2 1/2 days, including one very long night in Russia. Again, we were the complimentary guests of our Russian hosts. Russia is in a very difficult transition for which the final outcome is far from predictable. In a future Nor'Wester column, I will focus more on my political and economic observations during our visit. As you know, Lakehead University has an exchange agreement with Tyumen University and, after looking at some alternatives, I feel that we should continue the Tyumen relationship accepting the fact that it may be difficult on a regular basis to achieve reciprocal student exchanges. There is faculty interest, particularly in History, and I expect to see that some long-term research projects will evolve from this relationship.

At this point, I travelled late at night on a short flight to Helsinki where I was to meet Pentti Paularinne. However, Pentti missed his flight and ended up arriving 24 hours late. In Helsinki, Pentti and I met with Kalervo Siikala, Director of International Relations in the Ministry of Education. It was Mr. Siikala who, in an earlier visit I made in 1988, approved the short-term visiting faculty program. Our meeting with Mr. Siikala went very well. We were directed to submit a proposal to renew the visiting

continued on page 7

Happy Anniversary Computer Centre

The first computer, an IBM 360/40 arrived at Lakehead University in November 1967. Over the ensuing twenty-five years, computers have gone from room-sized to lap-top, punched paper cards and tape have vanished, laser printers have quietly replaced impact printers, the cost has gone from millions to thousands of dollars and the speed from slow to fast. Several generations of students, staff and faculty have become familiar with computers and their capabilities.

Focus on Wellness

Beginning in January, Campus Recreation will offer a 4-part series of talks by fitness and health professionals. Faculty from the School of Physical Education and Athletics and members of the District Health Unit will conduct lifestyle assessments and involve participants in exploring the many factors that affect wellness. The program is open to faculty, staff and students. To register call 343-8808 after January 6 or drop by the Campus Recreation Office in UC 2014.

Canadian Reference books donated

Thanks to the generosity of a Canadian publisher one hundred 4-volume sets of encyclopedia have been donated to Lakehead University. Many academic departments took advantage of the offer and an additional 50 sets will be distributed to students through the Argus.

Provincial money to counter wife abuse and sexual assault

Lakehead University will receive some of the nearly \$72,000 announced by the Rae government for First Nations and community organizations in the Thunder Bay area. Initiatives directly affecting the university include: two grants totalling \$7,500 for the Gender Issues Centre for resource materials; and \$4,700 grant to University researcher Julie Wolt, Department of Social Work, for a comparison study of two police approaches to dealing with family violence. Sexual assault prevention initiatives will help six city groups through grants totalling \$27,500. Ten local wife assault prevention projects are receiving \$44,410. The aim of these projects is to make outreach and self-help programs more accessible to victims of assault and increase public education and awareness.

LU speaks up after Macleans article

Members of the University community were interviewed following the Macleans' article on Canadian University rankings. The feature will be shown on Spectrum on December 20 at 6 pm on the local channel.

ENROLMENT STATISTICS: How many students are there and what are they studying?

"When the economy gets tough, Canadians go to university" announced a recent newspaper article. According to Statistics Canada, a record 572,000 full-time students are



Lyn McLeod, MPP and Leader of the Opposition, spoke to faculty members at the LUFA general meeting on Monday, December 14. Talks included the Provincial Government's budget cuts and how they are affecting universities.

enrolled in Canadian universities this year an increase of 3.2 per cent over last year. Part-time enrolment was also up by 2.5 per cent to 321,000. A decrease in the number of withdrawals was also encouraging.

Lakehead University experienced another growth year with a 12.5 per cent increase in full-time students (5,293) and a 1.6 per cent increase in part-time enrolment (2,200). Albeit a small department, the greatest increase (57%) was in the Library and Information Studies, followed by Science at 25.8 per cent, Outdoor Recreation, Parks and Tourism at 19.9 per cent, then Arts 19.2%, Education (16.2%), and Physical Education (11.4%). Decreases in enrolment were experienced in several areas. Off campus enrolment is down 12.9% and there was a slight decrease (2.9%) in the number of fulltime graduate students (182) students. Interestingly, parttime graduate enrolment increased 13.0%. The Business Administration program saw a decrease in enrolment (-29.7%) as well as in the Diploma in Forest Technology (-12.8%) and Nursing (-3.5%). Moe Kytter, Director of Student Placement and Cooperative Education, says the courses students are choosing "go hand in hand with the current economic climate and reflect public awareness about the environment."

Hats Off To Six Special Grads

Students who graduate in the fall are invited to Convocation ceremonies the following spring. However, faculty in the School of Nursing can't wait to send for spring to send their congratulations to new graduates from the Honours Bachelor of Science in Nursing program. And just what makes these six students so special? They earned their degrees by Distance Education while balancing careers, families and course work. Congratulations to Faith Fawcett, Susan Ellen Griffiths, Gillian Hearn, Kathryn Sager, Karen Anne Serediuk and Annette vanden Brand (Ignace).

Thanks LU

A pledge of \$4,794 to the United Way from University employees brings us one step closer to our goal of \$950,000.
Jerry Cox, 1992 Campaign Chair

BOOK SALE EARNS MONEY FOR THE LIBRARY

The recent sale of withdrawn library books earned \$1700 for the purchase of new library materials. Many thanks to Becky Hurley and the bookstore staff for making the sale a success.

ATTENTION DIALUP USERS

The Library's Online Catalogue has undergone a software upgrade. In order to continue searching the Online Catalogue using your PC, it may be necessary to upgrade your microcomputer communication package. Your communication package must allow for VT220 emulation. If your software does not have this capability, you can obtain a copy of the new communications software from Microcomputer Support Services in BB1059 (343-8549). You must provide your own floppy disk.

CONFERENCES ATTENDED

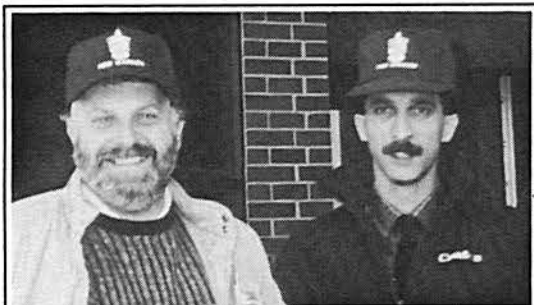
Anne Deighton, Collections Development Librarian and Joan Seeley, Circulation/Interlibrary Loans Librarian attended the Collection Management and Development Institute Conference in Toronto, October 22-25, 1992. Over the four days,

attendees were given an overview of the major issues in the planning, development and management of library collections.

Jim Arnot, Education Librarian, attended the semi-annual conference of the Ontario Teacher Education Library Association held in Toronto at the Ontario Institute for Studies in Education, in November.

Louise Wuorinen, Northern Studies Librarian and Ian Dew, Head, Systems and Bibliographic Processing attended a conference sponsored by CAUT. It was entitled "Academic Librarians: Perceptions and Realities" and was held in Halifax this past November. Ian, along with Bob Moore of CAUT, conducted a workshop on Academic Librarian contracts in Canada.

Gisella Scalese, Orientation/Continuing Education Library travelled to Waterloo, Ontario in December for a two day OCUL Internet Training Workshop.



19 buildings in 4 days! Occupational Health & Safety Officer Marla Peuramaki said there was "an excellent response" from employees and students during the recent fire drills. "It helps us to evaluate the effectiveness of our evacuation plan and we were pleased with the results and will make changes where necessary". Al Wrightsell and Bob McCluskey, Fire Prevention Officers, together with security and electrical staff assisted with the drills. And who got out fastest? "The people in the School of Nursing - hands down, in only 6 minutes! Above, John Bonofiglio and Ben Kaminski oversee the evacuation of the Nursing Building. Ms. Peuramaki refused to say who came last.



Dr. David Suzuki was on campus to talk about his new book *Wisdom of the Elders*. The photographer captured Dr. Rosehart, Suzuki and Professor Doug West on their way to a meeting with Native leaders and students.

Ski For Hope

The second Ski for Hope will be held Sunday, March 14, 1993 from 9:00 am to 5:00 pm at the Big Thunder National Ski Training Centre. The event is presented by the Canadian National Institute for the Blind in conjunction with the Lakehead University Alumni Association and with the financial support of Ernst and Young.

Funds raised through Ski for Hope are shared by the CNIB and Lakehead University and are used to assist blind and visually impaired residents of Northwestern Ontario as well as students with special needs at LU. Participants raise a minimum of \$50 in pledges and ski for the day. A hot lunch is provided and participants are eligible to win many exciting prizes.

To register and receive a pledge form, contact the CNIB at 345-3341 or the Office of Alumni Services at Lakehead University at 343-8155.

RESEARCH NEWS

CONTACT NUMBERS:

Director: Dr. Connie Nelson ext. 8793
Research Officer: Anne Klymenko ext. 8223
Special Projects Officer: Kelly Morris ext. 8939
Graduate Studies Assistant: Lynn Gollat ext. 8785

DECEMBER 1992

Dr. Neil Weir Distinguished Researcher 1993

by Vonnie Cheng

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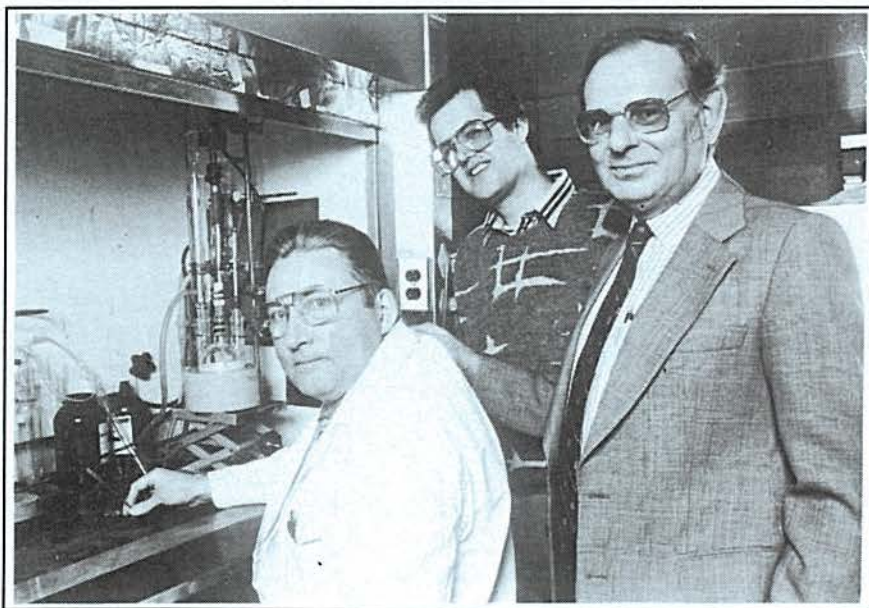
Dr. Arct does the "cooking" of these "simpler" lignin-like model compounds. So far, he has over 20 in stock, most of which are brand new. It takes no less than three computers to monitor and chart the photochemical behaviours of these models in the lab. According to Dr. Weir, the whole process is extremely time-consuming and it may take years before anyone can fully understand the coloration mechanisms or begin devising mechanical means which are economically and environmentally feasible to stop the nasty complex in lignin from degrading lily white paper in broad daylight. Dr. Weir's team, however, has already begun to see some light. The empirical data to date, he said, are on track with his theories.

The Distinguished Researcher Award is certainly a major feather in Dr. Weir's cap. The D.Sc. degree, on the other hand, has a more global significance. According to Dr. Alan Hughes, Chairman of Chemistry, the D.Sc. degree is not an honorary but an earned degree. Only a few of these degrees are given out each year by a handful of the universities in the Commonwealth to recognize scientists of the highest order for their contributions to their particular disciplines. The criteria for selection are very much like those for the Distinguished Researcher Award but more encompassing. The evaluation process, undertaken by internationally renowned scientists, is extremely vigorous. Among other things, it takes into consideration the

public impact and consistency of the candidate's contributions to research and scholarly performance as documented by refereed and non-refereed publications, research grants, contracts, and fundings from various granting bodies, organizations, or professional committees. The candidates are required to provide supporting documents for all of the above plus a paper (more like a mini-thesis) detailing how they think their works have contributed to their particular disciplines. Since the candidates' achievements are measured and evaluated against their peers at the international level, the D.Sc. degree, as Dr. Hughes pointed out, has "several orders of magnitude." It validates Dr. Weir's standing as Distinguished Researcher and one of the best minds at the University. More importantly,

the hard-earned degree bespeaks the calibre of talent and the kind of supernova which the University, with the help of various funding sources, has brought forth to shine so magnificently. Well done, Dr. Weir! Well done, Lakehead University and everyone in the academic community!

The Distinguished Researcher recognition comes with a grant of \$3,500 for Dr. Weir to further his research interests. To make him work some more for his pay, Dr. Weir has been invited by Vice-President Whitfield to give a public lecture on a topic of his choice during the Winter 1993 term. Dr. Weir has quite a great sense of humour despite his quiet demeanour. So look out and look forward to hearing his lecture.



Dr. Neil Weir is shown in the Chemistry Laboratory with George Arct, his research assistant, (sitting) and Alfredo Ceccarelli one of his graduate students.

PEOPLE/PAPER/PUBLICATIONS



Dr. Bahram Dadgostar, School of Business Administration has had the following four research studies published in 1992. The first research paper entitled, "Fisher Hypothesis: A long-run proposition," was authored with Dr. Moazzami and Dr. Jankowski, Department of Economics in the Administrative Science Association of Canada "Conference Proceeding" in June 1992. The second paper was

entitled, "Factors Affecting Time Spent by Near-Home Tourists in City Destination" in the Journal of Travel Research, Fall 1992, and coauthored with Robert Isotalo, School of Business Administration. The third study entitled, "Analysis of Farm-Retail Price Spread for Food" was published in Economic Affairs, January 1992. The fourth publication is a book entitled, "The Economy of Northwestern Ontario: Structure, Performance and Future Challenges," Lakehead University, Fall 1992, third print. This book was coauthored with Dr. Jankowski and Dr. Moazzami, Department of Economics.

Dr. Chris Jecchinis, Professor Emeritus of Economics has written a chapter (with Th. Koutroukis) in the recently published book on Labour Relations in Education - International Perspectives (Bruce S. Cooper, Ed.), Greenwood Published Group, 1992.



Professor Rhonda Kirk-Gardner and Dr. Darlene Steven, Associate Professors, School of Nursing, presented an invited paper at the Ontario Public Health Association meeting in Toronto on November 16, 1992. The title of the paper was "An Analysis of the Ontario Health Survey from a Cardiovascular Perspective".

The researchers received \$24,910 in funding from the Ministry to complete the study. The Ontario Health Survey is a joint project of the Ministry of Health and the Premier's Council on Health, Well Being and Social Justice. The \$4.5 Million cost for the survey was funded by the Health Innovation Fund.

Risk factors for cardiovascular are widespread in the Ontario population. Results of the survey indicate that one-quarter of the population are smokers and that the prevalence of heavy smoking is increasing; one-quarter of the population are overweight, three-quarters of the population are inactive; and that one-quarter of the population consume more than seven beverages per week. Results of the survey indicate that for every 100 residents of Ontario, four have heart disease, ten have hypertension, three have circulatory disease, and three have diabetes. The prevalence of cardiovascu-

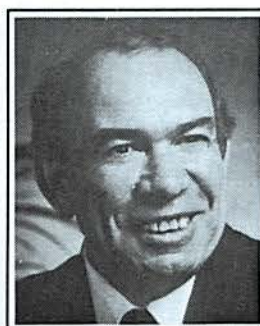
lar risk factors vary among public health catchment areas. Six recommendations to reduce the prevalence of cardiovascular risk factors and the mortality and morbidity of cardiovascular disease are presented for consideration by the Ministry.

Copies of the report have been distributed to agencies in Northwestern Ontario.

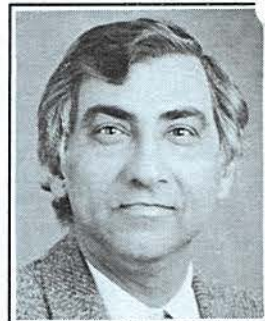
The researchers wish to acknowledge the assistance given by Dr. John Jamieson, Department of Psychology, and Miss Lorlei Anderson in the data analysis.



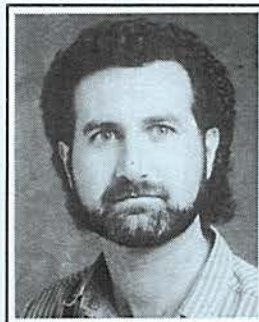
Dr. Medhat H. Rahim, Associate Professor, School of Education, presented a paper entitled "LOGO Computer Assisted Instruction (CAI) Sessions for Middle & High School Mathematics" for the International Society for Technology in Education annual meeting, Technology in the Rockies Conference in Denver, Colorado, October 1 - 4, 1992.



Dr. S. Ali Mirza, Professor of Civil Engineering, was recently elected Fellow of the Canadian Society for Civil Engineering. The honour was conferred on Dr. Mirza in recognition of his research on concrete and composite structures and for services he rendered to the profession of structural engineering. He is also Fellow of the American Concrete Institute and the American Society of Civil Engineers.



Dr. Aris Carastathis, Department of Music has recently published three musical works. His compositions *Arrays* for Viola, *Variables* for Clarinet and *Intimations I & II* for Oboe and Piano were published by new Art Music Editions, Winnipeg, Manitoba.



WHAT IS RESEARCH?

Or, Second-Guessing the Tax Man

Lada Malek, Chair
Senate Research Committee

More and more frequently, the Senate Research Committee (SRC) is being asked to evaluate the **Leave/Non-Leave Research Grant Applications**. These grants are funded by the researchers themselves in the form of a "research grant in lieu of salary". This in turn is associated with a tax benefit to the researcher.

Diversion of one's salary into support of research is commendable, given the limited availability of research dollars. However, the perception seems to exist with many Lakehead University faculty members, that any activity automatically qualifies as research, and therefore for the above form of a tax benefit. This is not necessarily so, and applicants are strongly urged to read and comply with the university guidelines. In its deliberations, the SRC tends to apply the NSERC/SSHRC/MRC criteria defining research, but acknowledges that there exist legitimate research activities outside the purview of such granting agencies. The SRC committee is obliged to interpret the broad definition of research provided by the Taxation Act:

"Research must involve a critical or scientific inquiry having for its aim the discovering of new facts and their correct interpretation of their practical applications. It does not include research carried out for the sake of acquiring the experience or skill of conducting research, . . ."

Income Tax Interpretation Bulletin IT-75R2

The second sentence is self explanatory. The first sentence, however, leaves any human activity potentially open to definition as research. It is then up to the applicant to convince the SRC (and ultimately the tax officials) that the activity will be "critical and scientific". Each application should include the research question being asked, the hypothesis being tested, the data acquisition and analysis methods to be used, and the relationship between the cost of proposed research and the proposed budget. Statements (perhaps elaborated) such as: "I want to write a book on HIV epidemiology in North Western Ontario. . ." are simply not adequate in defining research activity.

What is the bottom line? All academic disciplines have a concept of what acceptable research topics and methods are. Please conform to the standards of your discipline in making research proposals to SRC. Thank you on behalf of current and future members of SRC.

NSERC NEWS

NEW COLLABORATIVE RESEARCH PROGRAM POSTPONED!

Unfortunately, NSERC, like all other federal agencies and departments, did not escape the government's most recent effort to control the escalating growth of the federal deficit. While NSERC's grant budget was not cut by 10%, as were those of many others, NSERC will not receive the 4% increases in

program funding announced in last February's budget for 1993-94 and 1994-95. NSERC's Executive Committee has therefore decided to **postpone** at least for one year the introduction of the new Collaborative Project Grants Program. Teams of Researchers that were planning to submit applications to the program are asked to keep their proposal ideas in mind; knowing the unpredictability of government funding, the above program may be resurrected at any time!

NSERC LIST OF AWARDS NOW AVAILABLE ON COMPUTER DISKETTE

The Office of Research and Graduate Studies recently received NSERC's List of Scholarships and Grants in Aid of Research 1991-92 in IBM compatible diskette form. Copies can be obtained by contact Anne Klymenko at ext. 8223.

RESEARCH OPPORTUNITIES

ENVIRONMENT ONTARIO

Environmental Education and Awareness Program

Awareness is the key step in the resolution of any problem. With this in mind, the Ministry supports various awareness activities through its Environmental Education and Awareness Program (EEAP). The goal of this program is to encourage environmentally friendly lifestyles through education. The EEAP provides financial assistance to projects supporting the mandate of the Ministry of the Environment which is "to protect and enhance the quality of the environment for the present and the future well-being of the people of Ontario and the ecosystem in which they live." Projects qualifying for assistance range from conferences, workshops and theatrical presentations to newsletters, fact sheets and technical reports. **Deadlines: March 1, June 1, September 1 and December 1.**

Environmental Research Program

Consideration under this program is given primarily to pure and applied research directed towards environmental protection and human health-related issues. Some major program areas are:

- Pollution Prevention
- Water Management
- Air Issues
- Waste Management
- Analytical Instrumentation
- Environmental Socio-Economics
- Risk Assessment
- Biotechnology
- Pest Control
- 3 R's
- Zebra Mussel Control
- Acid Mine Drainage

More specific information is provided in the Environmental Research Priorities document available by contacting Anne Klymenko, Research Officer at ext. 8223. **Deadline: January 15, 1993.**

RESEARCH PUBLICATIONS

Congresses of the International Geographical Union, like the Olympics, meet once every four years. This year it was the turn of the United States to host the event, which was based in Washington, D.C. in August. Before and after the main Congress, meetings were held all over the country of the various Commissions and Study Groups that bring together people interested in specific aspects of Geography. Two of these were attended by members of Lakehead's Geography Department. The Commission on Changing Rural Systems met, in all the sweltering heat of a midwestern August, on the campus of Kansas State University, Manhattan, Kansas. There, Dr. Robert Dilley presented a paper on "Restructuring a Shoreline Recreation Area: Thunder Bay, Ontario". Two weeks later, the Commission on the Geography of Leisure and Recreation convened in the luxury resort of Telluride, Colorado. Here, 8000 feet up in the San Juan Mountains, Dr. Margaret Johnston gave a paper entitled "Authenticity and the Consumption of a Cultural Commodity", and chaired a session on "Sport and Recreation as a Field of Studies in Geography and the Social Sciences: Change and Challenges". Robert Dilley was also present, and delivered a paper co-authored with Professor Ken Hartviksen of Lakehead's School of Business Administration and Dr. Doug Nord of the University of Minnesota, Duluth, on "Short-Term Cross-Border Tourism: the Mutual Attractions of Duluth, Minnesota and Thunder Bay, Ontario". The presentations might be described as "breath-taking", since at that altitude no one had much breath, anyway.

GRADUATE SCHOLARSHIP OPPORTUNITIES

Canada-ASEAN Centre/Asia Pacific Foundation

Graduate Student Travel Grant Fund - \$5,000 - January 10, 1993

Canadian Northern Studies Trust

Deadline: 31 January 1993

Studentships in Northern Studies -

\$10,000 each

Royal Canadian Geographical Society
Studentship in Northern Geography - \$10,000

Research Support Opportunity in Arctic
Environmental Studies - funding for Accommodation - Facilities - Services
Special Awards for Northern Residents - \$5,000 each

Chevron Canada Resources Special Award
in Public Administration/Community Affairs
\$5,000 each - residents of Northwest
Territories

Cooperatives Award - \$2,000

Caribou Research Award - \$3,000

Commonwealth Scholarship Plan 1994

New Zealand and Australia - 31 December
1992

Government of Canada Awards
Deadlines vary by country

International Development Research Centre (IDRC)

Young Canadian Researchers Award - \$20,000 per year - No Deadline

John G. Bene Fellowship in Social Forestry - \$7,000 per year - Deadline: 15 January
1993

Lakehead University

1993-94 Internal Graduate Scholarships - 30
March 1993

Ministry of Colleges and Universities

Sir John A. Macdonald Graduate Fellowship
in Canadian History - \$8,500/year - March
19, 1993

Ontario-Quebec Exchange Fellowship
Program - \$12,000 - Ph.D. and \$10,000 -
MA - January 19,
1993

Soroptimist Foundation of Canada

Canadian Soroptimist Grants for Women - \$5,000 - Deadline: 31 January 1993

Transportation Association of Canada (TAC)

Deadline: 1 March 1993

DELCAN Scholarship - \$4,000

Pavement Management Systems/Stamley

Technology Group Scholarship - \$3,000

Federal/Provincial/Territorial Governments of
Canada Scholarship - \$3,250

Lea Associates Group Scholarship - \$4,000

International Road Federation (IRF)

Fellowship - \$6,000 US

Organization of American States

OAS Regular Training Program Fellowships
- funding for Travel Expenses, Tuition Fees,

Study Materials, Subsistence Allowance -
Deadline: 1 March 1993

Association of Universities and Colleges of Canada

Deadline: 1 February 1993

Cable Telecommunications Research
Fellowship - \$5,000

Post-Doctoral Fellowships in Military
History - \$24,000 per year

Military & Strategic Studies (MSS) Intern-
ship Program - \$16,000 - 12 months

Military & Strategic Studies (MSS) Lan-
guage Program - \$16,000 - 12 months &
\$8,000 tuition fees

Military & Strategic Studies (MSS) R.B.
Byers Postdoctoral Fellowship - \$27,000

Military & Strategic Studies (MSS) Re-
search Awards - \$7,500

Military & Strategic Studies (MSS) Scholar-
ship Program - \$16,000 - Ph.D. and
\$13,000 - MA

Petro Canada Graduate Research Award -
\$10,000

Frank Knox Memorial Fellowships -

Harvard University - \$11,180 US

Emergency Preparedness Canada

Research Fellowship - \$15,000 per year

Richard J. Schmeelk Canada Fellowship -
\$15,000

Rick Hansen Man in Motion Legacy Fund
1993 Spinal Cord Injury Research -
Deadline: 1 February 1993

University of Manitoba

Graduate Fellowship \$10,000 - Ph.D.,
\$8,000 - MA Thesis and \$6,000 - MA
Course

Deadline: 15 February 1993

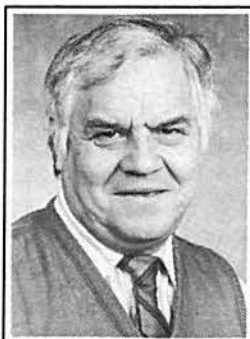
The Office of Research and Graduate Studies, in conjunction with the Office of Information Services, is asking all faculty to share with us interesting research stories to feature in the RESEARCH NEWS. We would like to hear from you if you are currently involved in innovative research, have attended an interesting conference, are collaborating with industry or the community or if you would just would like to profile your research expertise. RESEARCH NEWS enjoys an audience of approximately 2000 and can be a valuable vehicle for communicating your research endeavours to the community at large.

For further research information call Anne Klymenko at ext. 8223 or drop by the Office of Research and Graduate Studies. For information about Foundations, call Jo-Anne Silverman, Foundations Officer at ext. 8910 or drop by Alumni House.

RAOUL MCKAY

New Department - New Chair

Dr. Raoul McKay has been appointed to head the Department of Native Studies. In September, the first students enrolled in degree and certificate programs in Native Studies. Students will be able to earn a 3-year degree with a Native Studies double major, a certificate in Native Studies or a Native language minor program. Programs offer students fundamental knowledge of First Nations' history, cultural and traditional values, political, constitutional and sociological issues and economic relationships with the mainstream society.



Professor Raoul McKay brings to the department a diverse background in many educational areas. Born in Manitoba, McKay was the first person in the Metis community of St. Eustache to complete his entire schooling there before attending St. Paul's College in Winnipeg. As a full and part-time student, he earned a Bachelor of Arts degree, a Bachelor of Education degree and a Master of Arts from the University of Manitoba. Most of the work in his M.A. program focused on the history of Native people: his thesis was on the history of Treaty Four. In 1991, Raoul received his Ph.D. in History from the University of Toronto. His thesis was on the history of the Cree of Treaty Five from 1875 to 1930. Most of Dr. McKay's career has centred on education. He taught at the elementary, high school and university level. He taught Native Studies at Trent University in Peterborough, Ontario, and was the first department head of Native Studies at the University of Manitoba. Consistent with his educational philosophy, Raoul hired native people as professors and seminar leaders. He says his goal at Lakehead will be the same, although he strongly believes that it is important to have Native and non-natives in the courses. Current enrolment in the Native Studies programs is 70. While serving on the Association of Canadian Universities' Northern Studies committee, established to develop guiding principles in research in northern communities, Raoul introduced the idea of creating bursary funds specifically for Native Studies. Most recently, Raoul served with the national working group of Pathways to Success which gives Native people a voice in their training program for post-secondary education.

Raoul was heavily involved in sports in this early years which he maintains helped him cope with university life. In addition to managing and coaching sports teams, he served with many community organizations. Dr. McKay is married to Iris and they have three grown children.

Dr. McKay's office is in the lower level of the University Centre (UC-1003) Telephone number is 343-8934 or 8902.

JOSEPHINE TAN



Dr. Josephine Tan recently joined the Department of Psychology. Born in Malaysia, Tan pursued her academic career in Canada, receiving her undergraduate degree from the University of Alberta. She received her Master of Arts and her PhD from the University of New Brunswick and calls that province her Canadian home. Tan's program was two-fold, both clinical and applied. "The program emphasizes the scientist/practitioner approach - doing research and at the same time, clinical work."

Tan carried out her pre-doctoral training at the Children's Hospital of Eastern Ontario and her post-doctoral work at Ottawa General. Her research interest is extensive but focusses on depression and mental health in women. "I think Psychology has been ignoring sex differences. I'm investigating the rates of depression in women and how they relate to sex roles and bias in the mental health system." Tan's research also includes interpersonal attraction. She recently submitted a paper to the *Journal for Abnormal Psychology* which looks at how people respond to depressed people on the basis of gender. She is working on a manuscript that will synthesize these findings. Tan's interests include dance - ballet, ballet jazz and lyrical, as well as classical music. Welcome to Lakehead Professor Tan. Tel: 343-7751. Office: SN 1042B

IN MEMORIAM

Kathleen (Kay) Margaret Hakala passed away December 7, 1992 after a lengthy illness. Born in Coldwell, Ontario in 1933, Kay attended local schools, worked at radio stations in the city and married Arnold Hakala in 1955. They raised three children: John and Doug (both graduates of Lakehead University - John



works with Campus Development) and a daughter Barbara. Kay started working part time at the University in 1969 becoming Office Manager in the Admissions Office in 1974. In 1976 Kay became Secretary to Claude Smith, Director of Physical Plant (now Campus Development). She retired in 1989 due to ill health but never let it affect her terrific sense of humour or quick wit. Kay was a very generous, warm-hearted and compassionate person. She would always go to bat for the underdog, so to speak, as anyone who attended Kay's retirement party (1989) would remember. A very dedicated and hardworking employee, Kay had many friends at LU and we will miss her and her friendship.

Condolences to husband Arnold and the entire family.

As I prepare for Christmas and the long car trip home to Saskatchewan, my thoughts turn to those who cannot be with family at this special time of year. Those who have suffered the loss of a loved one will often experience intense and confused emotions. My thoughts also flash back to the powerful emotions I felt watching the premier performance of *Sleeping Children Awake*. This is a 50-minute documentary which tells the story of native Canadians who lived through the horrors of the residential school system in Canada.

The production follows a convoluted path. Film producer Rhonda Kara Hanah came in contact with artist Shirley Cheechoo and her play "Path with No Moccasins". She believed it would make a great documentary and convinced Shirley the play would make the perfect narrative framework for the video. The collaboration further included a television manager who believed in the project and recognized a story that needed telling to a larger audience - enter Thunder Bay Television's Tony Seuret. If you want to check the educational potential of a project why not check in with a University President - enter Bob Rosehart. He could envision a multitude of educational uses and thus began the successful collaboration with Thunder Bay Television, Magic Arrow Productions and Lakehead University. The show was aired for public broadcast by Thunder Bay Television on December 10.

The film traced a government system which took Native children from their homes and communities and placed them in residential schools run primarily

by religious orders. In many cases children did not see their families for many years. When they returned the family structure had broken down. Parents and children were strangers. The loss of identity encouraged a cycle of abuse, violence, cultural confusion and repressed anger. The visionaries who made this film happen deserve credit. The next job undoubtedly belongs with the elders who will help with the healing and recovery process for those victims still struggling to understand how that experience has shaped their lives.

At the premier showing, a packed house sat in riveted silence as the haunting images and voices of those interviewed recalled and relived the pain. The most poignant responses I heard after the show indicate that this is part of the history of the aboriginal peoples of Canada that must not be forgotten. Tears streaming down her face, one woman simply said, "I was number 22" a reference to the system of numbering the children rather than using their native names. One of the most ironic comments came from a visiting South African professor who said, "I need more information. I simply cannot understand how this happened."

I'll give my children an extra hug this Christmas. A reminder never to take any family relationship for granted. And perhaps a grieving for the atrocities committed against cultures - past, present and future.

For information about the educational distribution policy for *Sleeping Children Awake*, contact the Information Office at 343-8300.

Sleeping Children



Awake

Sleeping Children Awake is a documentary video portraying the residential school system for Native Canadians in operation until the late 1980's.



Wanted: Recipe Submissions Win a Cook Book

The Northwestern Ontario Amateur Wrestling Corporation (under the auspices of the LU Varsity Wrestling Program) is producing a fundraising cook book. NOAWC is a non-profit organization which helps fund the Northwestern Ontario Wrestling Club. All proceeds from the book will go towards travel and accommodation to Provincial and National competitions.

Submissions must be by January 15. However recipes can be submitted on an ongoing basis for future publications.

Each person who has a recipe published will be entered in a draw for a cook book to take place immediately after publication. There will be five draws.

The organization is hoping for a wide variety of recipes, representing the different cultures on campus.

Recipes can be sent to "Recipe Book", c/o Chris or Sharon, School of Physical Education & Athletics. For further information contact Francis Clayton at Ext. 8513.

Procrastinators Beware!

Last month Agora staff promised highlights of the strategic plan and a feature story on the graduate program in Social Work. Blame it on the rain, our impending move across the road, restructuring meetings, chest colds, or a number of other excuses. These articles are still "on hold" for upcoming issues.

Contact North Changes Locations

Contact North has moved from the university campus to 1139 Alloy Drive. The mailing address at the new facility is

Contact North/Contact Nord
1139 Alloy Drive, Suite 104
Thunder Bay, Ontario
P7B 6M8
Telephone: (807) 343-1616
Fax: (807) 343-2390

faculty program and were assured that it would be looked upon favourably. We were able to brief Mr. Siikala on the Finnish Chair Project and he made a commitment to seek funds to make a contribution to the Chair Project in the name of the 75th Anniversary of Finland. At this point, we travelled north to Rovaniemi, the home of the University of Lapland and the site of the 3rd Conference of the Association of Circumpolar Universities. Pentti and I had a tour of the new facilities of the University of Lapland (I believe we have 4 students on exchange from Lapland here this term), and we discussed constitutional issues related to the Association of Circumpolar Universities. Unfortunately, I had to return to North America but Lakehead University was well represented at the Circumpolar Conference. The 4th Conference will be hosted by the University of Northern British Columbia.

It was a somewhat hectic trip, but one which I expect to bring some rewards. Incidentally, costs not covered by our hosts were covered by the Japanese Program budget.

External Relations Departments to be United

With the movement of Contact North out of the Bora Laskin Building to larger space in one of the new office buildings on Balmoral (I believe the one with the large white columns), several space domino moves are set to take place. Firstly, the School of Education will re-occupy the Bora Laskin space vacated by Contact North. The large Contact North portable will be relocated to the Alumni House area which will see, for the first time, the two Divisions of External Relations - Information Services and Alumni and University Development, located in the same area. In the space to be vacated in the School of Nursing Building by Information Services, space relief will be provided to the A.V. and Microcomputer Repair areas as well as allocation to academic space. No additional costs are involved in this re-organization with the major change being to reporting relationships and the focus on a more task-oriented approach.

Tidbits

Task Force on Space Utilization - I have asked Pentti Paularinne, on behalf of the University Space Committee, to look seriously at utilizing a computer program developed at the University of Ottawa to develop the Lakehead University timetable. During the next two months, test runs will be made on the 1992/93 timetable to compare with our existing timetable and explore the options for 1993/94.

U.C.T. Upgrade - Some of the M.C.U. renovation fund monies allocated this year will be used during the next few months to upgrade the U.C.T. so that it can be utilized for lectures on a more regular basis. Modifications will include lighting, acoustics, tab arms and the installation of an advanced A/V system.

In closing, I would like to wish everyone a Merry Christmas and a Happy New year. Have a **good time** and a **safe time** during the holiday season.

A Seasonal Message from the Chancellor

My Christmas card list includes many friends who live in countries other than Canada. I wonder what they'll be doing on Christmas Day.

Take Annathaie who lives in Sri Lanka. Her country continues to be torn apart by a decade-long civil war. If there's one thing worse than a country with two official languages it's a country with a policy of one of having only one official language which does not accommodate substantial minorities - such as the case in Sri Lanka. Annathaie will have invited both Tamils and Singalese to her home for Christmas Day.

I think of Raoult in Cuba. The collapse of Eastern Europe has had drastic consequences for Raoult and his family. Probably his Christmas dinner will be the 3 to 4 pound chicken he gets by ration every 10 days. He would also have been saving his monthly ration of two ounces of coffee for a real celebration. At least his daughter still gets daily milk because she's under seven years of age.

Then there is Virginia in South Africa. The wonderful thing is she will celebrate this Christmas with hope. However, while she rejoices in the signs of apartheid crumbling, she is also very much aware that many of her friends won't know what voting is when the time comes. Her children have been forced to attend inferior black only schools all their lives and are therefore poorly prepared for the vast changes on the Africa horizon.

So Christmas for these folks will be a time of mixed emotions as it is for most of us also. Christmas reminds us not only of our helplessness through the coming of the helpless baby, but also of our confidence in the future through the birth of that same baby.

A Merry Christmas to you all.

The Very Reverend Lois Wilson



Dr. Bob Rosehart presents a plaque recognizing the co-operation of Lakehead University and Gifu University in Japan to Gifu University President Hashigume. Dr. Rosehart was in Gifu in late November.

CAMPUS CALENDAR

To include your Department's event or activity in the Campus Calendar, please call the Information Office at 8300 or mail your information to SN 1002. **Deadline for the January Agora is January 8, 1993.**



CHANCELLOR PATERSON LIBRARY CHRISTMAS HOURS

December 19 - 9:00 am to 5:00 pm
December 20 - CLOSED
December 21-23 - 8:30 am to 5:00 pm
December 24 - 8:30 am to 12:00 noon
December 25-27 - CLOSED
December 28-31 - 9:00 am to 5:00 pm
January 1-3 - CLOSED
January 4-5 - 8:30 am to 5:00 pm
January 6 - Regular hours resume

CORNWALL CONCERT SERIES 1992-92

All concerts are held in the Jean McNulty Recital Hall in the Music & Visual Arts Centre (Tuesdays at 12:30 pm unless otherwise noted). Tickets are available at the door.

January 12, 1993
Catherine Wilson's Trio - \$7.00/\$5.00
January 26, 1993
Krista Buckland, violin; Heather Morrison, piano - \$7.00/\$5.00

1992-93 NOR'WESTER HOME SCHEDULE

January 8 - LU vs. McMaster Wrestling Dual Meet - 6:00 pm
January 9 - Garvie Memorial Wrestling Festival - 8:00 am - 5:00 pm
January 9 - Lakehead Highschool Volleyball Tournament - 5:00 pm - 11:00 pm
January 10 - Lakehead Highschool Volleyball Tournament - 8:00 am - 9:00 pm
January 15/16 - Wilfrid Laurier at Lakehead Basketball - Women/Men - 6:30 pm/8:30 pm
January 22/23 - Waterloo at Lakehead Volleyball - 7:00 pm

JANUARY

MONDAY, 11

Video
Topic: "Alzheimer's Caregivers Forum"
Hosted by Fran Adderley, Manager, Alzheimer Day Centre, St. Joseph's Heritage. In this video, a panel of Thunder Bay and area caregivers speak out about what it is like to be a caregiver to a spouse with Alzheimer's Disease.
Time: 12:00 noon - 1:00 pm
Place: Health Sciences North - Room 2022

MONDAY, 18

English Lecture Series
Topic: Oedipus and the Sphinx: The Riddle of the Relations Between Men and Women.
Speaker: Professor Richard Berg
Time: 7:30
Place: Ryan Building Room 1044
For further information about the series, please contact Prof. Joan Dolphin at ext. 8292.

MONDAY, 25

Topic: "There is Someone Out There"
Hosted by Fran Adderley. A twenty minute video describing the Alzheimer Day Centre, St. Joseph's Heritage Centre. No charge.
Place: Health Sciences North, Room 2022
You are welcome to bring a bag lunch and drink.



RL Zuback
Alumni

THUNDER BAY ART GALLERY

Until January 10

Exhibition

Alison Kendall: The Big Front Yard
A striking display of quilts.

Organized by the Thunder Bay Art Gallery.

CLOSED Christmas Day and Boxing Day

January 15 - 17

Annual Stamp Club Exhibition

January 15 - February 14

Thunder Bay Art Gallery Regional Juried Art Exhibition

January 20 - February 14

Carl Beam: The Columbus Boat

AGORA

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First
Class

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