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LAKEHEAD UNIVERSITY



# AGORA

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Thunder Bay

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Ontario, Canada

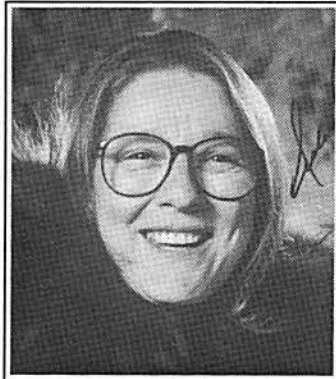
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Vol.11, Number 5

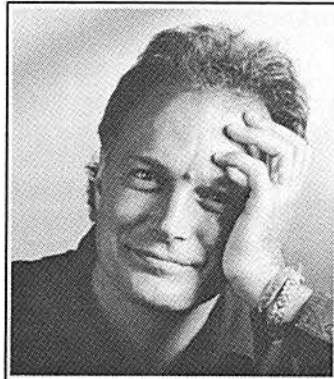
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May 1994

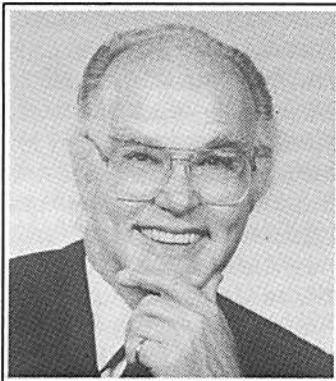
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Nellie J. Cournoyea  
The Degree of Doctor of Laws  
Honoris Causa



Ian Tamblyn  
The Degree of Doctor of Laws  
Honoris Causa



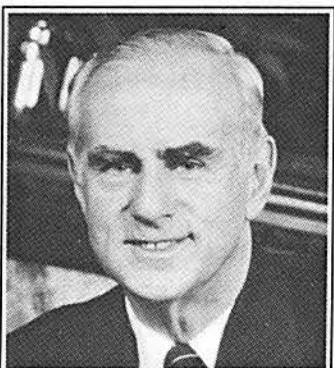
James MacNeill  
The Degree of Humane Letters  
Honoris Causa



Ursula M. Franklin  
The Degree of Humane Letters  
Honoris Causa



Elizabeth Chalmers  
The Title of Fellow of the University



The Honourable Henry N.R. Jackman  
Lieutenant Governor of Ontario

## Lakehead Celebrates 30th Convocation

**Saturday, May 28, 1994  
at the Thunder Bay Community  
Auditorium**

More than 1,800 degrees and diplomas will be conferred by Lakehead University this year making the Class of '94 the largest in the University's history with a significantly higher number than last year's total of 1,628.

Four honorary degrees will be awarded, one more outstanding Northerner will be given the title of Fellow, and the Lieutenant Governor of Ontario will take part in celebrating the University's 30th Convocation. As well the University will honour two of its generous benefactors at separate dedication ceremonies on campus -- the first at the Avila Centre and the second at the School of Nursing. For details please see the Convocation Day Program on page 2.

### INSIDE

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## The Honourable Nellie J. Cournoyea

Nellie Cournoyea has represented the Western Arctic riding of Nunakput since 1979 and has served as Premier of the Northwest Territories since 1991, guiding northerners through what might well prove to be the most significant period of change in the history of the north. She has played an important role in economic development, land claims, national constitutional discussions, and broadcasting in the north.

## Ian Tamblyn

Thunder Bay-born Ian Tamblyn has been praised as one of the most creative singer-songwriters in Canada. He is an accomplished instrumentalist, accompanying himself on piano, guitar, synthesizer and hammered dulcimer. His recent recordings incorporate field recordings of Canadian wilderness sounds which have brought him recognition as a new age musician.

## Elizabeth Chalmers

Betty Chalmers is a leader in the area of health and social services in Northwestern Ontario, especially in services for the elderly. Before retiring in 1983 she worked for the Thunder Bay District Placement Coordination Service and was responsible for all placements into Homes for the Aged, Nursing Homes and Chronic Care Facilities. Mrs. Chalmers continues to make her ideas known in the expanding field of Gerontology through her research, writing, and radio commentary.

## Ursula M. Franklin

Fans of the CBC radio program *Ideas* may know of Dr. Franklin through her 1989 Massey lecture series entitled *The Real World of Technology* and other programs including *Democracy, Technology, and Terrorism* and *Nuclear Peace*. She has a PhD in experimental physics from the Technical University of Berlin and has been professor of Metallurgy and Materials Science at the University of Toronto's Faculty of Engineering from 1967 until her retirement in 1989. Dr. Franklin is an inspiration to women in society, in the university in general, and especially in the scientific, technological and engineering fields.

## James MacNeill

Jim MacNeill is an international consultant and policy advisor on environment and sustainable development who was the principal architect and major authority in the World Commission's report *Our Common Future* which sets out a new global agenda for sustainable development. Prior to serving as Secretary General to the Geneva-based World Commission on Environment and Development, he was for seven years the Director of Environment for the Organization for Economic Cooperation and Development (OECD) headquartered in Paris, France.

## The Honourable Henry N.R. Jackman

The Honourable Henry Newton Rowell Jackman is Ontario's 25th Lieutenant Governor since Confederation. He was appointed by the Governor General in Council, and was sworn into office on December 11, 1991.

## CONVOCATION DAY PROGRAM

### Morning ceremony: 9:00 AM

Nellie Cournoyea will give the Convocation Address. Honorary Degrees will be conferred upon **Nellie Cournoyea** and **Ian Tamblyn**. The Title of Fellow of the University will be conferred upon **Elizabeth Chalmers**.

Degrees will be conferred as follows: MA, MSc, HBA, HBFA, HBMus, HBSW, HBSc, BA, BSc, HBScN, HBOR, Diploma in Library and Information Studies.

**Chancellor's Luncheon:** The Chancellor welcomes graduates, members of the LU Alumni Association, faculty and guests to a luncheon in the Main and Residence Cafeterias between 12 noon and 2:00 PM.

**Dedication Ceremony:** The Chancellor invites graduates, members of the LU Alumni Association, faculty and guests to a dedication Ceremony of Halliday Hall, Avila Centre at 12 noon.

### Afternoon ceremony: 2:30 PM

The Honourable **Henry N.R. Jackman**, Lieutenant Governor of Ontario will bring greetings. Ursula Franklin will give the Convocation Address and Honorary Degrees will be conferred upon **Ursula Franklin** and **James MacNeill**. Degrees will be conferred as follows: MA, MSc(Applied Sports Science and Coaching), MScF, MEd, HBComm, BAdmin, BEd, Native Language Instructors' Diploma, Bachelor of Engineering, Diploma in Engineering Technology, HBScF, Diploma in Integrated Forest Resources Management, HBPE.

### 5:00 p.m.

**Dedication Ceremony:** The Chancellor invites graduates, members of the LU Alumni Association, faculty and guests to a dedication ceremony of The Olga Merz School of Nursing Building.

## CONVOCATION EVE CELEBRATION

The Alumni Association cordially invites the graduating class and their guests to its annual Convocation Eve Celebration

Friday, May 27, 1994

7:30 - 10:00 PM in the Faculty Lounge

Special guests include Chancellor Lois Wilson, the Honorary Degree Recipients and the

**1994 recipient of the Alumni Honour Award -- Professor Dennis McPherson**

Staff and Faculty are welcome to attend. For information contact Denise Bruley 343-8372

## DEDICATION CEREMONIES HONOUR TWO UNIVERSITY BENEFACTORS

### The Olga Merz School of Nursing Building



Olga Merz was born Olga Andruczyk on April 19, 1914, in Fort William, Ontario. She was the only child of Harry and Mary Andruczyk, who were originally from Craz, Poland. Mrs. Merz grew up in Thunder Bay where she attended high school. She particularly enjoyed the study of languages. While in school, Mrs. Merz worked the bottling line at her father's 7-Up Bottling Company.

In 1945, Mrs. Merz moved with her mother to Chicago, Illinois. Shortly after her arrival in the United States, Mrs. Merz met her husband, William.

Mr. Merz was born in Seitingen, West Germany in 1907. He emigrated to the United States in 1927. At the time William met Olga, he was employed as a surgical instrument manufacturer. They were married in 1935. Shortly after World War II Mr. Merz went to work for a division of Baxter International and continues to work there as of this date. During his tenure at Baxter International, Mr. Merz has become renowned for his contributions to the field of Neurological Surgery, specifically for his efforts in improving the surgical treatment of patients through his work with surgical instrumentation.

Olga and William Merz were married for fifty-five years. On June 20, 1992, Mrs. Merz died at the age of seventy-eight. Mr. Merz has chosen to commemorate her life by establishing the generous Olga Merz Endowment Fund at Lakehead University which will provide in perpetuity financial support to deserving students who wish to attend Lakehead.

To acknowledge Mr. Merz's leadership gift in memory of his wife, Lakehead University will officially name *The Olga Merz School of Nursing Building* in a special dedication service at 5:00 PM on Saturday, May 28, 1994.

### Diploma Frames... Videotapes... Books and Gifts

The Alumni Association is offering a Degree Framing Service in the lobby of the Community Auditorium all day on Saturday, May 28. Graduates may purchase a polished gold-coloured frame complete with a mat with the official colours and logo of the University for the special price of \$47 (including taxes). Videotapes of morning and afternoon Convocation ceremonies will be sold by the staff of the Communications Technology Resource Centre. The Alumni Bookstore and Intersection will be open between 11:00 AM and 3:00 PM.

### Halliday Hall

Evelyn Halliday was born in Dumfriesshire, Scotland, on April 20, 1918, the only child of Scottish parents, Alexander and Evelyn Halliday. Her father, an accountant and outdoorsman, first visited Fort William, Ontario, in 1911 and found the area much to his liking — Lake Superior reminded him of the ocean and the Kaministiquia River and Mount McKay were like the rivers and rolling hills of the south of Scotland.



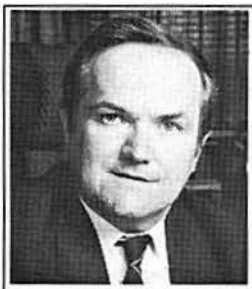
When World War I broke out, Alexander Halliday joined the 8th Battalion of the Royal 90th Winnipeg Rifles — the "Little Black Devils" — one of first Canadian contingents to fight in the trenches of France. In 1917 he married Evelyn Beattie Skilling in Scotland and after the war the couple emigrated to Canada, where Mr. Halliday worked as Assessment Commissioner and Tax Collector for the City of Fort William.

Miss Halliday was educated at Central School, Isabella Street School and Fort William Collegiate Institute. It was while she was at school that Miss Halliday developed a love of language, literature and art instilled in her by her parents. She also developed lasting friendships with many of her teachers who kept in touch with Evelyn long after her graduation.

Shortly after World War II was declared, Evelyn joined the Canadian Air Force and was sent for training to southern Ontario. There she met and became engaged to a young Scottish officer. Evelyn was in England when she learned her fiancé had tragically lost his life in a bombing raid over Europe.

When the war ended, Miss Halliday returned to Thunder Bay and worked for Great Lakes Paper until 1947 when she was diagnosed with cancer and began a program of radium treatments. Her strong will, determination and courage have seen her through many health-related tribulations over the years. Evelyn Halliday also played a key role in ensuring that a memorial was built at the Thunder Bay Airport to commemorate the people of Thunder Bay who served in The Battle of Britain. She is an avid reader and keeps a passionate interest in the issues of the handicapped.

A long-time supporter of Lakehead University's Awards Program, in October 1991 Miss Halliday made a leadership gift in honour of the Share Our Northern Vision Campaign. In recognition of her generosity, Lakehead University will officially name the fellowship residence portion of Lakehead's newly acquired Avila Centre, *Halliday Hall*. A dedication ceremony will be held at 12:00 noon on Saturday May 28th at the Avila Centre.



*Dr. Robert Rosehart  
President  
Lakehead University*

## Convocation 1994

A record number of graduates will be on stage at the Community Auditorium on Saturday, May 28, 1994 as well as four honorary degree recipients and a Fellow recipient. This is a special day for the graduates, and they would be most honoured to share it with you.

## Contribution to Teaching Award



A special congratulations to **Dr. K. Natarajan** of the Department of Electrical Engineering who has been named by the Senate Committee on Teaching and

Learning as the recipient of the 1994 Contribution to Teaching Award. Congratulations on a job well done!

## 1994 Operating Budget

On Tuesday, May 17, 1994, we took the 1994 Operating Budget to the Board of Governors for approval. As I write this on May 16, Lakehead has yet to receive its detailed allocation from the Province but, operationally, we have decided to move forward with our estimates on income. Considering that the fiscal year for government starts on April 1, it is hard to believe that every year it takes so long to inform the transfer agencies of their allocations. There has been much written about accountability in recent months, and this process is one that should be looked into for efficiency.

## Ideas for Savings

In the various deliberations that led up to the recommended budget, a considerable effort was made by LU's Task Force on Funding to look at the suggestions for saving money submitted by members of the Lakehead University community. (You will remember that this input was part of the process outlined in our Social Contract Agreement.) The Task Force has considered all of the suggestions and has informally ranked them as being either "short-term" or "long-term" savings. As well it was noted whether the suggestions were for a "one-time" savings or a "recurring" savings. Vice-President Fred Poulter and Vice-President John Whitfield will now take a more detailed look at implementing the suggestions and, in a future column, I will report back on some case studies.

## Anti-Racism Project

Work on this initiative, co-ordinated by Linda Penner, continues. During the coming months some of you will be randomly selected and asked to participate in a voluntary and confidential campus survey. I would encourage you to take the time to participate.

## External Relations



Joy Himmelman has assumed the position of Director of External Relations and is on secondment from her position as Director of Student Services. The former Director of External Relations, John Russell, left Thunder Bay on April 27th to take up a new position at a University in England. It is very important that the ongoing fund-raising and Alumni initiatives continue without interruption and Joy will fill the vacancy created by John Russell's departure. The position of Director of Student Services, vacated by Ms Himmelman, was posted internally and the selection committee will fill the secondment position in the very near fu-

ture. I expect an appointment will be made in Student Services prior to the end of May.

I wish Joy all the best with her new responsibilities and I am sure that she would be interested in your suggestions or comments with respect to Advancement, Information and Alumni activities (343-8000, Avila Centre).

## Royal Fellow - Dr. Roger Mitchell

Although it is somewhat "old" news by now, I would like to offer my special congratulations to Dr. Roger Mitchell of the Department of Geology on being named the first Lakehead University faculty member to be elected to the Royal Society of Canada.

## Donated Vacation Update - Social Contract

As you know, a key part of our Social Contract Agreement has been additional voluntary vacation time without pay. This past year, our target was \$200,000, and we achieved approximately \$125,000. Although we did not reach our goal, combined with additional income and savings, we did manage to achieve our desired budget without the need to take involuntary "Rae Days".

For the 1994-95 fiscal year, starting on May 1, 1994, our donated vacation target in Year Two of the Lakehead University Social Contract is \$100,000. To date, very early in the year, we already have commitments for approximately \$25,000. I would encourage anyone who is interested in additional donated vacation time to put the request in writing to their immediate supervisor who will forward the approved request to Human Resources for processing. As was the case last year, for the first month taken, Lakehead University will continue to pay benefits and pension contributions. Beyond one month, you would have to make arrangements to pay benefit premiums and the appropriate pension contributions (if desired). If requested, payroll deductions for donated time may be arranged over extended periods of time.

*continued on page 5*

## Report from the President continued from page 4

We have had some difficulties in the past with employees being able to arrange specific dates with their supervisors. However, I have sent a strong message to management to be as flexible as possible with request dates. We have been able to accommodate most, but not all, requests. Problems have arisen in small units when a minimal number of staff is needed for continuing operations. If you are having any difficulties in this regard, please talk about your concerns, in confidence, with Bill Bragnalo, Director of Human Resources, at 343-8757.

## ABORIGINAL PEOPLES' CONFERENCE

October 14, 15, 16, 1994  
at Lakehead University

### Call for Papers & Presentations

All proposals will be considered  
Suggested areas include, but are not limited to:

- Treaties and land claims
- Legal issues and strategies
- Survival of Native Languages
- History, Anthropology, Archaeology
- Indigenous Philosophy
- Indigenous Art
- Economic development
- Education
- Non-status Issues
- Literature
- Science and Technology
- Cultural Traditions

For more information contact:

Dr. Douglas A. West  
Department of Political Studies  
Lakehead University  
955 Oliver Rd  
Thunder Bay, Ont. P7B 5E1  
Telephone (807) 343-8304  
Fax (807) 346-7831

Deadline for submission is  
**JUNE 15, 1994**



## DOUBLE HONOUR FOR MITCHELL

Geologist receives highest mineralogical award and is the first LU professor to be inducted into the Royal Society of Canada

It's been a great year for Dr. Roger Mitchell. Shortly after learning that he had been awarded the 1994 Past Presidents' Medal by the Mineralogical Association of Canada, he received a letter notifying him that he had been elected a Fellow of the Royal Society of Canada, the prestigious learning society founded in 1882. Dr. Mitchell's primary field of research is with diamond-bearing rocks. The 'rock man' has travelled extensively -- Siberia, Africa, Australia and the United States -- studying diamond deposits. In the next six months he will undertake field trips to Russia and Romania. Roger Mitchell was born in England and earned three degrees from Manchester University (including a DSc) and his doctorate from McMaster. Dr. Mitchell joined the faculty at Lakehead University in 1972 publishing extensively, conducting extensive field work across the globe and completing two books.

Obviously pleased with the awards, Mitchell admits that as a kid he was a "rock hound". Despite rock-collecting adventures in the moors of Yorkshire, he argues that his career in geology was strictly by fate. "I was all set to go into organic chemistry but apparently they didn't like the way I sketched the naphthalene molecule at the interview and I ended up studying geochemistry." After all his education, teaching and research, he sums up his lifetime of work in geology: "I like the intellectual challenge of the very complicated diamond-bearing rocks." Dr. Mitchell was quick to say that no accomplishment stands alone and he praised the work of colleagues Al Mackenzie of the Instrumentation Lab and Anne Hammond, a technician in the geology laboratory.

Fellows nominated into the Royal Society of Canada "are elected on the basis of distinction in their field and include many of the most creative and productive minds in the nation." Dr. Mitchell joins an outstanding group of scientists including Nobel Prize recipients. The induction will take place in October at Rideau Hall in Ottawa with Governor General Ramon Hnatyshyn presiding. Upon his return Dr. Mitchell has agreed to share the fascinating and mysterious world of diamonds through a public slide show and lecture.

The Past President's medal, awarded annually from the Mineralogical Association of Canada, is for excellence in research and is given to a scientist who has made outstanding contributions to the mineralogical sciences in Canada. Dr. Mitchell was cited "as one of the world's leading authorities on alkaline rocks" and given the award "for his work over the past 25 years directed towards the detailed understanding of their origin and evolution. His experimental work is characterized by diverse methods of investigation and his attention to detail -- from field work to extensive analytical characterization." The Medal recognizes the breadth and universality of these contributions (in mineralogy, applied mineralogy, petrology, crystallography, geochemistry or the study of mineral deposits), rather than a narrow area of expertise. He will receive that award in May at the annual meeting in Waterloo. -- K. Shedden

*"With these awards, Lakehead researchers have shown what a broad range of expertise we can bring to the question of how to achieve forest sustainability in Ontario." -- Dr. Duinker, Chair of Forest Management and Policy*



**Enhancing Sustainable Forestry Development:** Nine research projects in Forestry, Biology, and Outdoor Recreation, Parks and Tourism have received a total of \$1,015,700 in funding under the Canada-Ontario Northern Ontario Development Agreement--Northern Forestry Program (NODA-NFP) to conduct studies that will foster sustainable forestry development. The research projects cover a broad range of topics in the areas of integrated resource management, silvicultural practices, forest protection, environmental impact, and planning and forest resource management. Researchers include **Dr. Peter N. Duinker** (seated in centre), Chair of Forest Management and Policy, School of Forestry; (Left to right): Adjunct Professor **Laird Van Damme**, Forestry; **Dr. William H. Parker**, Forestry; **Dr. A. Rodgers**, Centre for Northern Forest Ecosystems Research; **Dr. Harold Cumming**, Forestry; **Dr. Azim Mallik**, Biology; Missing from photo: **Dr. K. Abraham**, Centre for Northern Forest Ecosystems Research; **Dr. David Robinson** and **Dr. G. Twynam**, Outdoor Recreation, Parks and Tourism.

## Taking care: A Lakehead University committee ensures the ethical use of animals in teaching and research

The Lakehead University Animal Care Committee is a President's committee which was established in the early 1970s to ensure the ethical use of animals used in teaching and research. The Committee composition and Terms of Reference are governed by the Canadian Council on Animal Care and the Ministry of Agriculture's Animals for Research Act. The administrative office for the Committee is the Office of Research and Graduate Studies.

The Committee meets at specific times in September, December, February, April and July to review research protocols. The Committee's role is to ensure that all animal care and experimentation is conducted within the guidelines of the Canadian Council on Animal Care and the Ontario Animals for Research Act. Project forms must be completed for all animal use including research, teaching, testing and field studies. The forms may be obtained from Lynn Wilson, the Committee Co-ordinator, in the Office of Research and Graduate Studies. For further information contact Lynn Wilson at 343-8283.

## OCUA TO PREPARE DISCUSSION PAPER ON UNIVERSITY FUNDING

An open meeting was held on campus on April 27 with members of the Ontario Council on University Affairs to discuss the Resource Allocation Review of the funding system for Ontario Universities.

This review of the system for distributing operating grants to Ontario universities was initiated by the Honourable Dave Cooke, Minister of Education and Training, as a result of projections that the demand for university-level education will continue to increase for the foreseeable future while public sector funding will remain at current or reduced levels. This reference anticipates that changes to the funding system will be required in order to realize the objectives which the Minister asked Council to consider. These objectives are:

- increased accessibility
- a stronger emphasis on teaching
- the transfer of credits between universities, and between colleges and universities
- ways to encourage cooperation, rationalization and sharing to increase quality and accessibility to universities and
- a funding system which encourages accessibility, adaptation, and restructuring.

The Minister further requested that in the course of its consideration of a revised funding mechanism, Council "examine issues in achieving an appropriate balance among teaching, research, administration and community service and in developing mechanisms for accountability in the use of resources in these areas."

The meeting was attended by over 70 people, mostly staff and faculty, and a lively discussion ensued. Chair of the Committee **Dr. Jill Vickers** stated that by July 30 the task force will produce a discussion paper as a result of widely held meetings and discussions. After July 30, there will be another round of discussions. It is expected that the final report will be completed in November.

## NSERC GRANTS TOTAL \$781,578

The Natural Sciences and Engineering Research Council recently released the results of the 1994-95 Operating and Equipment Grants Competition. The Office of Research and Graduate Studies is pleased to report that 39 NSERC eligible researchers at Lakehead University were awarded grants totalling \$781,578. Unfortunately, this is a decrease of 14% over last year. Approximately 33% of NSERC eligible faculty members hold NSERC grants.

In this year's NSERC competition, two of Lakehead's new researchers were successful in receiving grants. They are: **Dr. Meilan Liu, Department of Mechanical Engineering and Dr. Wendy Huang, Department of Mathematical Sciences.**



Dr. Meilan Liu



Dr. Wendy Huang

The successful researchers in this year's operating and equipment grants competition (new grants and renewals) are as follows:

**DEPARTMENT OF BIOLOGY**

Dr. R. Freitag - "History of the North American Cicindelidae".  
 Dr. M. Lankester - "Parasitic diseases of Northern Ungulates".  
 Dr. L. Malek - "Dry seed proteasome and related proteins".  
 Dr. D. Morris - "Habitat selection, population dynamics and community structure of northern vertebrates".  
 Dr. R.J. Omeljaniuk - "Neurochemical receptors, actions, and mechanisms in fish brain: pituitary axis".

**DEPARTMENT OF CHEMISTRY**

Dr. T. Garver - "The chemistry of lignin transformations".  
 Dr. A. Hughes and Dr. D.G. Holah - "Reactions of transition metal-phosphine systems with hydro-borate and other reducing agents in the presence of carbon monoxide and isonitriles".  
 Dr. S. Kinrade - "Aqueous chemistry of SiV".  
 Dr. M. Rappon - "Photoinduced reactions of dyes".  
 Dr. N.A. Weir - "Studies of photodegradation of polymers".

**DEPARTMENT OF CHEMICAL ENGINEERING**

Dr. L. Garred - "Hardware and software development and simulation studies to exploit spent dialysate for urea kinetic modelling in hemodialysis".  
 Dr. I. Nirdosh - "Removal of radionuclide and heavy metal contaminants from low-level radioactive waste".  
 Dr. V.R. Puttagunta - "Generalized one-parameter correlation for crude oils, hot water slurring of oil sands".

**DEPARTMENT OF CIVIL ENGINEERING**

Dr. S. Easa - "Highway geometric design for safety".  
 Dr. D. Eigenbrod - "Measurement of pore water pressures in freezing and thawing fine grained soils".  
 Dr. S.A. Mirza - "Strength and stiffness of slender composite steel-concrete beam-columns".  
 Dr. U.S. Panu - "Extension of pattern recognition based methodology for infilling of missing values in streamflow records".

**DEPARTMENT OF ELECTRICAL ENGINEERING**

Dr. K. Natarajan - "Aspects of discrete time periodic control systems".

**DEPARTMENT OF MECHANICAL ENGINEERING**

Dr. M. Liu - "Finite element analysis of nonlinear shell structures; random vibration analysis of general nonlinear structures" and an equipment grant for an Engineering Workstation.

Dr. H.T. Saliba - "Experimental and theoretical free vibration analysis of thin plates with various shapes, boundary conditions and complication factors".

Dr. A. Sedov - "Ultrasonic transducer and flaw modelling for non-destructive evaluation applications".

Dr. B. Singh - "Scaling criteria for jet cutting of oil sands".

**SCHOOL OF FORESTRY**

Dr. W. Parker - "Focal point seed zones and adaptive variation of North American conifers".

**DEPARTMENT OF GEOLOGY**

Dr. G. Borradaile - "Rock physics and deformation".  
 Dr. P.W. Fralick - "Paleogeographical interpretation of archean sedimentary sequences in Northwestern Ontario".  
 Dr. R.H. Mitchell - "Petrology and geochemistry of kimberlites and alkaline rocks".

**DEPARTMENT OF MATHEMATICAL SCIENCES**

Dr. M.W. Benson - "Parallel iterative methods".  
 Dr. C. Graham - "Topics in functional and harmonic analysis".  
 Dr. C. Hoang - "Recognition and optimization algorithms for perfect graphs".  
 Dr. W. Huang - "Equipment grant for a Sun Workstation".  
 Dr. S. Li - "Distributed logic programming language design and implementation".

Dr. T. Miao - "Amenability of locally compact groups and properties of the fourier algebra".

Dr. Y. Yao - "Sun workstation".

**DEPARTMENT OF PHYSICS**

Dr. M. Hawton - "Physics of membranes and absorbed water".  
 Dr. W. Keeler - "Optical spectroscopy of semiconductor heterostructures and heterogeneous materials".  
 Dr. V.V. Paranjape - "Research in solid state physics".  
 Dr. W.M. Sears - "The electrical properties of the surface-gas interface of wide band gap semiconductors".

**DEPARTMENT OF PSYCHOLOGY**

Dr. G. Hayman - "Separating episodic and semantic contributions to memory performance".

Dr. M. Wesner - "Mechanisms of complex colour perception".



**Dr. Chris Southcott**, of the Department of Sociology, is happy to announce the publication of his edited book *Provincial*

*Hinterland: Social Inequality in Northwestern Ontario* by Fernwood Publishing of Halifax. A large number of Lakehead and former Lakehead faculty have combined to provide a comprehensive picture of life in the north. Contributions include **Thomas W. Dunk**, **David Nock**, **James Stafford** and **Chris Southcott** from Sociology, **Paul Driben** of Anthropology, former Lakehead faculty **G.R. Weller**, **Stephen McBride**, and **Sharon McKay**, **Mary Ellen Hill** (a doctoral candidate at Vanderbilt University with an M.A. from the Sociology department) and **Miriam Wall**, a local Economic Development Consultant.

Topics include hinterland politics, unemployment, women and development, healthcare inequalities, retirement,

Lakehead University as a hinterland institution, fishing and natives, and racism and regionalism, all in the context of Northwestern Ontario.

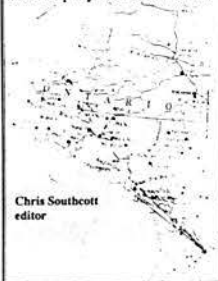
Editor

Southcott wrote his own chapter on "Hinterland Healthcare Inequalities," contributed an introduction, and saw the project through to its completion.

Northwestern Ontario has until recently been overlooked by social scientists, either because they live in other regions or had other interests. Students were likely to hear about "elsewhere" because good local materials did not exist. Now this is changing.

-- David A. Nock

**Provincial Hinterland:**  
Social Inequality in Northwestern Ontario



Chris Southcott  
editor

**Dr. Thomas M. K. Song**, Professor of the School of Physical Education and Athletics, Coordinator of Human Performance Laboratory, has published the paper entitled "Twin Resemblance in Somatotype and Comparisons with Other Twin Studies" in the *Human Biology*, Volume 66, Number 3, pp. 453-464, 1994. The study was collaborated with Drs. C. Bouchard and L. Pérusse, Laval University, Québec, and Dr. R. Malina, University of Texas, Austin, Texas.

**Dr. Laurie J. Garred**, Professor and Chair of Chemical Engineering, presented a paper in April entitled, "Simple Equations for Protein Catabolic Rate Determination from Pre-Dialysis and Post-Dialysis BUN" at the 40th annual meeting of the American Society for Artificial Internal Organs in San Francisco. The co-authors include Mr. David Barichello whose work as an NSERC summer student was a major element of the research presented. As well, Dr. Garred was invited to the University of California, Davis campus, to present a research seminar to the Department of Nephrology entitled, "Erythropoietin Therapy: Insight From Mathematical Modeling".

### Chemical Engineering Conference "A day full of learning and fun"

The Second Annual Chemical Engineering Conference on March 26 organized by the LU Student Chapter of the Canadian Society for Chemical Engineering was attended by more than 50 delegates comprised of undergraduate students, alumni and faculty. The undergraduate student presentations were enjoyed by all. Mr. Dale Smith, Bleach Plant Superintendent, Avenor Inc., Thunder Bay, presented the keynote address entitled "Quality and the Engineer", which was the highlight of the conference and set the tone for the very animated discussion that followed. Next year's conference will be held on March 25, 1995 at Lakehead University. For further information contact Dr. I. Nirdosh, Faculty Advisor at (807) 343-8343.

## BIODIVERSITY

Two Canadian natural resource scientists and a socio-environmental activist were invited to a Conference on building cooperative approaches to Ecologically Sustainable Forest Management in the Lake Superior Region, held at Hotel Chequamegon, Ashland, Wisconsin in April 1994. **Dr. Azim Mallik** from the Biology Department was one of the three invited participants.

Dr. Alan Honey, Dean of School of Natural Resources, University of Wisconsin-Stevens Point; Mr. Gary Larsen, Senior Policy Analyst for Natural Resources, President Clinton's Council on Sustainable Development; and Laura Rose, Manager, Lake Superior Project, Natural Wildlife Federation; emphasised the need for multidisciplinary and cooperative approach in sustainable forest management.

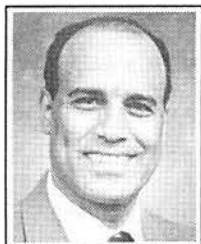
The challenge of accommodating ecological, economic, social, cultural and ethical issues in natural resource management and maintenance of biodiversity in the Lake Superior watershed was discussed at length. It was agreed that although it is often difficult to achieve consensus among landowners, natural resource scientists, economists and managers, building a cooperative approach would be the best way to deal with this complex issue of ecologically sustainable watershed management. The stage two report of the National Wildlife Federation's Lake Superior Biodiversity project indicates that with good intention and hard work it is possible to achieve such cooperation from the diverse interest groups, landowners, natural resource managers and scientists to develop a workable land-use plan for a large watershed like the Lake Superior basin. The report will be publicized in the near future.

Last month the *Agora* reported Ron Greidanus, a fourth-year student in the Honours Bachelor of Music program, had been accepted at the prestigious Mannes College of Music in New York City. Since then we have received word that he has also been accepted to the Peabody Conservatory of Music in Baltimore, another one of the top five American music schools.



Now Greidanus faces the tough decision about which school he will attend. One solution he is considering is attending Peabody for one year and then transferring to Mannes, as he can defer acceptance for one year.

Greidanus came to Thunder Bay from the small community of Londesbrough, Ontario, and was attracted to Lakehead because of the northern climate as well as the quality of instruction in the Department of Music. He will be bringing his career at Lakehead to a poignant end with the performance of the Rachmaninoff Piano Concerto No. 3 at 3:00 p.m. on May 22, 1994 in the Jean McNulty Recital Hall.



**Dr. Said Easa**, Professor of Civil Engineering, attended the Leadership Conference of the Transportation Division, American Society of

Civil Engineers, March 25 and 26, 1994, which was held in Las Vegas, Nevada, and chaired the Planning Committee meeting which was held in conjunction with the conference. The purpose of the conference was to discuss future directions and activities of the Division in light of the environmental, technological, and institutional challenges faced by urban transportation.

Dr. Easa authored an article, entitled "Transcontinental Highways Overseas A Reality", in *Canadian Civil Engineering* magazine, Vol. 11, No. 4, pp. 6-7. The article is co-authored by Dr. A.O. Abd El Halim of Carleton University.

## Technical Sessions for the Midwest Branch of the CANADIAN PULP AND PAPER ASSOCIATION

Airlane Hotel  
June 2-3, 1994

Technical sessions for the Midwest Branch of the Canadian Pulp and Paper Association will be held at the Airlane Hotel on June 2-3, 1994. Representatives from local mills and allied industries will present 13 papers on developments in papermaking, pulping, bleaching and process control. The meeting is open to anyone involved in the pulp and paper industry. Registration forms and information may be obtained from the Centre for Northern Studies at Lakehead University (807) 343-8360. At the members' dinner on the evening of June 2, 1994, Robert Chambers will speak on "The Future of the Pulp and Paper Industry in Northwestern Ontario". An exposition of services and products for the pulp and paper industry will take place concurrent with the technical sessions from 12:00 noon on June 2 until 4:00 PM on June 3, 1994. For more information contact: Dr. Theodore M. Garver, Department of Chemistry (807) 343-8619.

### FUN CAMP FOR AGES 7-12

2-week sessions starting July 4  
8:30 AM to 4:30 PM  
For information call 343-8656

### GIRLS VOLLEYBALL CAMP

August 29 - Sept. 2  
Ages 14 - 19  
Cost \$97

### NOR'WESTER BASKETBALL CAMP

**Boys' Camp:** Mini-camp August 9-12  
Ages 10-12 \$50 Day Camp: August 15-19  
Ages 12-15 \$97  
**Girls' Camp:** Day Camp August 22-26,  
Ages 12-15 \$97  
Evening Camp: August 22-26, Ages 16-19 \$55  
Registration deadline: June 30, 1994

### NOR'WESTER SUMMER HOCKEY CAMP

Power skating skill development Ages 9-12 \$70; Bantam & Midget Development Camp Ages 14-17 \$80; Defenseman's Development Ages 10-15 \$80; Advanced Skills Ages 11-15 \$80; College/Junior Professional Camp \$80 August 29-Sept. 2  
Registration Deadline: June 30, 1994

### FIELD HOUSE HOURS

**May - June**  
Monday to Friday  
8:30 AM to 9:00 PM  
Saturday  
9:00 AM to 2:00 PM  
Sunday - closed

**July - August**  
Monday to Friday  
8:30 AM to 8:00 PM  
Sat & Sun Closed

**Closed:**  
May 21, 22, 23, July 1, August 1  
September 3, 4, 5

**Office Hours:**  
Monday - Friday  
8:30 to 4:15 PM

**Pool Schedule**  
April 1 - June 30, 1994

**Monday to Friday**  
8:30 AM to 10:00 AM  
11:30 AM to 1:00 PM  
2:30 PM to 4:00 PM  
7:00 PM to 8:30 PM  
**Saturdays**  
12:30 PM to 1:45 PM  
**Closed:**  
All Sundays in May and June

## BOARD OF GOVERNORS MEETING

April 21, 1994

**Re-appointment:** Dr. M. Kehlenbeck was re-appointed as Chair of the Department of Geology for a three-year term commencing July 1, 1994.

**Approval of Tenure effective July 1, 1994:**

### *Faculty of Arts & Science:*

Dr. M. Johnston, Geography/CNS  
Dr. P. Jasen, History  
Prof. M. MacLean, Library and Information Studies  
Dr. C. Hoang, Mathematical Sciences  
Dr. A. Caristathis, Music  
Dr. W. Sears, Physics

### *Faculty of Professional Studies:*

Prof. S. Cole, Business Administration  
Prof. M. Forbes, Business Administration  
Dr. J. Epp, Education  
Dr. H. Fennell, Education  
Dr. I. Newhouse, Physical Education & Athletics  
Dr. J. Taylor, Physical Education & Athletics  
Prof. M. Morton, Nursing  
Prof. L. McKay, Nursing

**Renewal of Probationary Appointments:**

### *Faculty of Arts & Science:*

Dr. T. Garver, Chemistry  
Dr. M. Shannon, Economics  
Dr. J. Lynes, English  
Dr. D. West, Political Studies  
Dr. C. Netley, Psychology  
Dr. M. Wesner, Psychology  
Dr. K. Brownlee, Social Work  
Prof. S. Taylor, Social Work

### *Faculty of Professional Studies:*

Prof. J. Christy, Business Administration  
Dr. M. Rahim, Education  
Prof. R. Slipperjack-Farrell, Education

**Student Code:** The Board of Governors accepted the revised Code of Student Behaviour and Disciplinary Procedures. Copies of the Code are available in the Office of the Secretary of the Board and will be available for wide distribution in late June.

**Appointment of Adjunct Professor:** Dr. Michael Kral of the University of Windsor was ratified as an Adjunct Professor in the Department of Psychology for a three-year period commencing July 1, 1994.

## SENATE MEETING

April 21, 1994

**Recommendation of Senate Committee on Academic Regulations:** Senate decided that in the computation of a First Class Standing Average, in addition to having attained a minimum overall average of A in the transfer credit courses, students who have completed credits at another institution must have completed at LU a minimum of 2/3 of the courses used in the calculation of the First Class Standing.

**Faculty Elections to Senate:** Elections of faculty members to Senate have been completed and the successful candidates to serve as elected faculty to Senate for the term 1994-1997 were:  
Prof. M.L. Kelley  
Dr. V. Puttagunta  
Dr. E.R. Zimmermann

**Recommendation of Senate Academic Committee:** Senate decided to create the following faculties headed by a dean:

Faculty of Business Administration  
Faculty of Education  
Faculty of Engineering  
Faculty of Forestry

Senate decided to dissolve the Faculty of Professional Studies.

Senate endorsed an administrative structure in which the Schools of Nursing, Outdoor Recreation, Parks & Tourism and Physical Education & Athletics be associated with the Faculty of Arts and Science as independent and autonomous schools. The plan is to implement this model by July 1, 1994, with the Vice-President (Academic) appointed to work out the details.

**Nominations Committee Report:** Senate approved the election of faculty members to standing committees.

**Faculty Equity:** Dr. Whitfield reported on the statistics relative to gender balance in the faculty as a whole, in appointments over the past seven years, and in applicants for tenure who were successful over the same period. These statistics are available in the Institutional Statistics Book (p.40) which is on LUCI. They are reproduced in the table below:

### Lakehead University Faculty Appointments over the past 7 years

| Year | Males Granted Tenure | Females Granted Tenure |
|------|----------------------|------------------------|
| 1989 | 4                    | 2                      |
| 1990 | 12                   | 2                      |
| 1991 | 12                   | 2                      |
| 1992 | 8                    | 3                      |
| 1993 | 9                    | 4                      |
| 1994 | 4                    | 10                     |

# DOWN UNDER

## Important Phone Numbers

Just a reminder of important on-campus phone numbers that all staff should know:

### Security Emergency:

all Emergencies: 24 hours 8-991  
except:

From Forestry Biology & Health Sciences  
North 9-343-8911  
from pay phones & private phones on  
campus 343-8911

### Security Business Line:

24 hours 8569\*

### Health Services

8361

### Emergency First Response Team:

24 Hours 8569\*\*

### Direct External Emergency Assistance

(Fire, Police, Ambulance) 9-911

except:

from Forestry Biology & Health Science  
North, from pay phones & private phones  
on campus 911

Note:

\*The Security business phone number is incorrectly listed in the front of the LU Internal Telephone Directory as 8596 -- please correct this page of your directory.

\*\*The Emergency First Response Team is active during the Fall & Winter sessions only (September to April). First aid assistance is available through Security (24 hours per day, year-round) and through Health Services (during regular business hours).

**Did You Know** that the dispensing fee at the Superstore is only \$2.99?

**Quote of the Month:** A young fellow was filling in an application form for the post of lifeguard at the local swimming pool. At the end of the form was a space for "any further information that might show your suitability for the job". He wrote the following: "Depth of swimming pool - six feet six inches. Height of applicant - six feet seven inches."

## Holiday Schedule

Monday, May 23 Victoria Day  
Friday, July 1 Canada Day  
Monday, August 1 Civic Holiday  
Monday, September 5 Labour Day  
Monday, October 10 Thanksgiving Day  
Christmas Break:

The University will be closed at noon on  
December 23, 1994 to and including  
Monday, January 2, 1995

## Human Resources:

Telephone 343-8334  
Fax number 346-7701

**Question:** What do I do to show my medical coverage when I go to the hospital?

New insurance cards for Prudential Insurance will be printed and sent to each employee over the summer. If you go to the hospital in the meantime, all they will need is the policy number (71999 - which is printed on all claim forms) and your social insurance number.

## LAKEHEAD UNIVERSITY

### INJURY STATISTICS:

January 1 to April 30, 1994

### COMPENSABLE INJURIES

|                             | Jan. 1 - April 30<br>1994 | Same Period<br>Last Year |
|-----------------------------|---------------------------|--------------------------|
| <b>Medical Aid Injuries</b> |                           |                          |
| Approved                    | 18                        | 9                        |
| Pending Decision by WCB     | 10                        | --                       |
| <b>Lost Time Injuries</b>   |                           |                          |
| Approved                    | 4                         | 2                        |
| Pending Decision by WCB     | 1                         | --                       |
| <b>Number of Days Lost</b>  |                           |                          |
| On Approved Claims          | 34                        | 41                       |
| On Claims Pending           | 2                         | --                       |

**SAFETY NOTE:** The Workplace Hazardous Materials Information System, or WHMIS, is a program legislated under Ontario's Occupational Health & Safety Act. The system is designed to provide access for employees to information concerning hazardous chemical products used in the workplace. Under this "Right-to-Know" legislation, information concerning products used in the workplace is conveyed through product labelling, access to Material Safety Data Sheets (MSDS's), and employee education.

For more information on WHMIS in your department, contact your supervisor, a member of the Joint Occupational Health & Safety Committee, or the Human Resources Officer - Health & Safety.

**REPORTING INJURIES:** Prompt reporting of workplace injuries is both a University policy and a legal requirement.

**Employees:** If you have been injured or disabled on the job, contact your supervisor immediately.

**Supervisors:** Contact Human Resources (343-8671) as soon as you have been notified of an injury or of a work-related disablement.

*"Working toward a safe and healthy environment for work and study."*

To include your Department's event or activity in the Campus Calendar, please call Betty Hygaard at the Information Office at 343-8300 or mail your information to Avila Centre. Deadline for the June Agora is May 30, 1994.

## JUNE

### Friday, June 3 Seniors Day on Campus

Senate Chambers  
1:00 PM - 4:00 PM  
An informal afternoon to enjoy for older adults on campus at Lakehead University. Meet university staff, faculty and students, learn more about the University and the Northern Educational Centre for Aging and Health. Mrs. Betty Chalmers, a Fellow of Lakehead University, will be the keynote speaker.

### Sunday, June 5 Laughter is Good Medicine

All are invited to a "Tea Party" Sunday, June 5, 1994, at 2:00 PM at the Health Sciences Centre, Lakehead University

This event features a series of portrayals, giving a light-hearted look at the serious problem of misuse and overuse of medication among the older adult population.

If you, or anyone you know takes medication, this afternoon of laughter and learning is for you - and your parents - and your grandparents.

Open to the public. Free Admission  
Information: Ivy Isherwood 344-5080

### Mark your Calendars

### Alumni Mixed Golf Tournament Sunday, July 17

Centennial Golf Course  
\$35 per person  
includes green fees and steak dinner  
To register call 343-8155

### 6th Annual Maintenance Choice Golf Classic Friday, June 24



Centennial Golf Course  
Best Ball. Shotgun Start. 1:30 p.m. Tee-off. \$35 per person includes a Steak Dinner to be served in the Faculty Lounge, Cash Bar, and Prizes. Shuttle Van Service to and from the golf course. Drive-home service also available. Everyone welcome. To register contact Don Malcolm or Wayne Hainrich at 8920.

### LIBRARY HOURS - SPRING (MAY 2-JUNE 16)

Chancellor Paterson Library:  
Mon. to Thurs. 8:00 AM - 10:30 PM  
Fri. 8:00 AM - 8:00 PM  
Sat. 11:00 AM - 5:00 PM  
Sun. 1:00 PM - 9:00 PM

Education Library:  
Mon. to Fri. 8:30 AM - 5:00 PM  
EXCEPT Tuesdays May 10, 17, 24, 31 & June 7 when the library will be open from 8:30 AM - 8:30 PM

Information Desk: Spring/Summer Hours  
Mon. to Thurs. 8:30 AM - 5:00 PM,  
6:30 PM - 8:30 PM

Friday 8:30 AM - 5:00 PM

### International Friendship Days

August 5, 6, 7, 1994  
The Thunder Bay/Duluth Friendship Games  
To get involved contact the Thunder Bay Parks & Recreation Department

### Could you be a Host Home Family?

The Office of Continuing Education is once again looking for families to entertain a Japanese student in their home for one week this summer:

**August 13th through to August 20, 1994.**

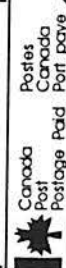
Previous families have found it to be a wonderful experience sharing their Canadian customs with a Japanese guest. For further information, please call Susan Burton at 343-8068.

## AGORA

The AGORA is produced by the Information Office, Department of External Relations, Lakehead University, Thunder Bay, Ontario. It is published monthly (except July and August) and is distributed free of charge to the University's faculty and staff, local government, media, business and friends of the University. Credit is appreciated when material is reproduced or quoted.

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