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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 9

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November 1994

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**Friends of Dr. Tom Miller say Thanks –** Past and present members of Lakehead University's History Department gathered to celebrate Dr. Tom Miller and the newly established scholarship fund, named in his honour. Seated (left to right) Dr. Helen Smith, Dr. Tom Miller, Dr. Pat Jasen. Standing (left to right): Dr. Peter Raffo, Dr. Bruce Muirhead, Mary Humphrey, Dr. Elizabeth Arthur, Professor Victor Smith, Dr. Ernie Epp, Dr. Ernst Zimmermann and Dr. Min-Sun Chen. Story on page 10. Photo: Katherine Shedden



### **NATIVE ACCESS PROGRAM GETS A BOOST**

The President of General Electric Canada, **Mr. Robert Gillespie**, visited Lakehead University earlier this month to present the initial installment of a \$50,000 grant from the General Electric Foundation toward Lakehead University's Native Access Program for Engineering (NAPE). He is shown (left) with Lana Williams, one of 35 students currently enrolled in the program.

NAPE is an academic program designed to assist Native people in making the transition into Engineering diploma and degree programs at Lakehead University. According to Gillespie, Lakehead's unique program is "making an important contribution to the Canadian fabric", and he hopes that someday G.E. Canada will see graduates of the NAPE program hired on as employees.

Gillespie is President of the Association of Professional Engineers in Ontario, an organization representing approximately 58,000 professional engineers across the province.

**Inside This Issue: Profile on Declan Barry...University Organization Chart...Staff Perceptions of Racism**

# STAFF'S PERCEPTIONS AND EXPERIENCES REGARDING RACISM AT LU

## Notes from the LUARC Report

*"I strongly support the idea of cultural training or sensitizing for staff and faculty and students. This should be mandatory. Ignorance of other cultures can and is often perceived as racism when often it may be that we just don't know better."*  
-- a staff quote from the LUARC Report

Of 406 questionnaires distributed to staff, 95 were completed and returned, representing a 23% response rate. Almost half of the respondents wrote in comments, issues and recommendations. The most frequently raised comment was the need for inter-cultural, racial awareness-raising and education.

### The major findings include:

- 13% of the respondents identified themselves as a visible racial minority or of Aboriginal ancestry;
- 63% of the respondents were female, 38% male (closely reflecting the actual distribution of LU staff by sex 60% F 40% M);
- 12% of the respondents indicated having initiated a racial incident on campus;
- 38% of the respondents have experienced a racial incident on campus;
- 46% of the respondents have observed a racial incident;
- 23% of the respondents have seen hate literature about minorities at LU;
- only 2% reported a racial incident if they were a victim; 6% if they observed an incident, most (20%) ignored it, followed by 15% who communicated their displeasure with the incident.

Respondents believed that the contributions of members of racial minorities are valued in their workplace (70%) and that persons of all racial and ethnic backgrounds have equal chances of being elected to important decision-making positions (60%). Only 50% feel comfortable speaking out against racism on campus, and 61% believe that staff should be required to become sensitized to intercultural and interracial issues.

### Other recommendations included:

- ensure that visible minority groups are represented within faculty, staff and students
- define what constitutes racism and what does not
- investigate this issue and do the best to eliminate racial incidents
- ensure that new policies are sensible enough to have community support and are enforceable
- ensure consistency when dealing with complaints

### What's next?

A discussion paper by Lakehead University Anti-Racism Committee (LUARC) will summarize the observations, conclusions and recommendations from LUARC's work. It is hoped that consultations on the discussion paper will be held in January, which will allow for validation, revisions and amendments to the audit work and guide the development of the anti-racism policy.

Previous issues of the *Agora* have contained excerpts from the reports that LUARC has released regarding perceptions and experiences of racism at Lakehead University by students and faculty. Copies of the *Report on Staff's Perceptions and Experiences Regarding Racism at Lakehead University* are available in the Chancellor Paterson Library and the Gender Issues Centre.

# LAKEHEAD TO HOST INTERNATIONAL BIOMECHANICS IN SPORT CONFERENCE

## JULY 18 - 22, 1995

The XIII International Symposium for Biomechanics in Sport (ISBS) will be hosted by the School of Physical Education and Athletics and held at Lakehead University next summer.

Dr. Tony Bauer, the Chair and organizer of the Conference, will be supported by Scientific Organizing Committee members chosen from the School of Physical Education staff, as well as members from McMaster University and the University of Windsor's School of Kinesiology.



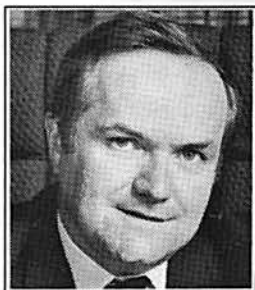
The objective of the conference is to provide a forum for researchers, teachers, coaches and practitioners in sports biomechanics. The number of delegates is expected to reach 200, representing most Eastern and Western European countries, plus Australia, New Zealand, South Africa and U.S.A.

The ISBS is an annual conference with the host country alternating between Europe and North America.

Previous conferences have been held in Budapest, Hungary, Boston, Massachusetts, and Milano, Italy. An extensive academic and social program is being prepared to provide delegates with a memorable experience during their stay at Lakehead.

This is the first international conference hosted by the School. Tony Bauer will be working closely with Conference Services and would like to thank Lakehead University for the initial support funding given to assist the extensive planning process.

For more information about the Conference please contact Tony Bauer at (807) 343-8654.



*Dr. Robert Rosehart  
President  
Lakehead University*

### VICE-PRESIDENT (ADMINISTRATION)

As most of you know, Fred Poulter, Vice-President (Administration), is scheduled to retire from Lakehead University on June 30, 1995. After reviewing the status of this position, and having input from a range of sources, I



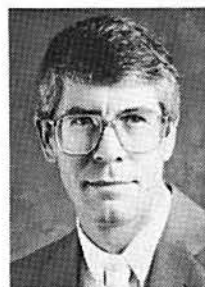
have recommended, and it has been accepted by the Board of Governors, that Mr. Poulter be given a one-year term as Vice-President (Administration) effective July 1, 1995 on the basis of 60% of time and 60% of salary. This arrangement will allow Lakehead University to continue to benefit from his fine service and, at the same time, will allow Fred the opportunity to have more time to himself and family. This type of term appointment is consistent with the Board of Governors' policy on mandatory retirement and could be renewed.

In order for this appointment to function efficiently, it will be necessary to reduce the number of people reporting directly to the Vice-President (Administration). Therefore, for the duration of this arrangement, the position of Director of Services will be eliminated and a new position entitled Executive Director, University Services, will be established which will include the day-to-day responsibilities for the Department of Campus Development. In effect, Mr. Jim Podd, as Director of Campus Development, will, as of June 30, 1995, report to Grant Walsh, University Services, on a day-to-day basis.

Many challenges will need to be faced in the coming year and Lakehead University will be able to continue to benefit from the good direction and advice of Fred Poulter.

### ISETA PRESIDENT TO BE FROM LAKEHEAD UNIVERSITY

Ken Brown of our Office of Teaching and Learning (and Faculty of Forestry) is the President-Elect of the International Society for Exploring Teaching Alternatives. ISETA uses a variety of vehicles to focus on and enhance teaching effectiveness in higher education.



### AXWORTHY REFORMS

There is not much definitive news on this topic since last month. AUCC continues to push for alternative direct funding of research infrastructure. The most vocal opposition seems to be coming from the PQ and the three major Quebec unions. The parliamentary committee to hold hearings on the proposal *will not be coming to Thunder Bay!* A local group has been given money to facilitate local input. Obviously, we will participate, but I am dubious about the impact.

This comes down to a fundamental moral and ethical question about the future investment in our youth and our society. In targeting post-secondary education for such significant reductions, I believe the federal government is making a grave mistake -- a mistake driven largely by fiscal budget desperation. The current federal budget deficit has been analyzed by some to have been structurally implemented during the middle '70s by the Trudeau government. It would seem to me, therefore, that a full public debate with all government programs on the table would be in order.

I am particularly concerned with the plight of our Aboriginal post-secondary students at Lakehead University who, on the one hand, will see tuition increase, and, on the other hand, will see Aboriginal post-secondary funding frozen. This would seem to have, over the long-term, an obvious impact on accessibility.

### GEOFFREY WELLER TO RETURN TO TEACHING AND RESEARCH

I spoke with Geoff Weller recently and he has announced that this summer he will be stepping down as President of the University of Northern British Columbia. After taking a sabbatical, he plans to return to teaching and research on Northern B.C. themes. Geoff is a prolific writer and I am sure that the last four years will have produced much material for future publication. Incidentally, I have been asked to sit on the AUCC review team that will formally consider UNBC for full AUCC membership in January or February.

Lakehead students are an integral part in the research being carried out by Dr. Declan Barry on the reliability of semiconductor devices.

## *Irradiation and Pacemakers: Measuring the Effects*

by Denis Onen

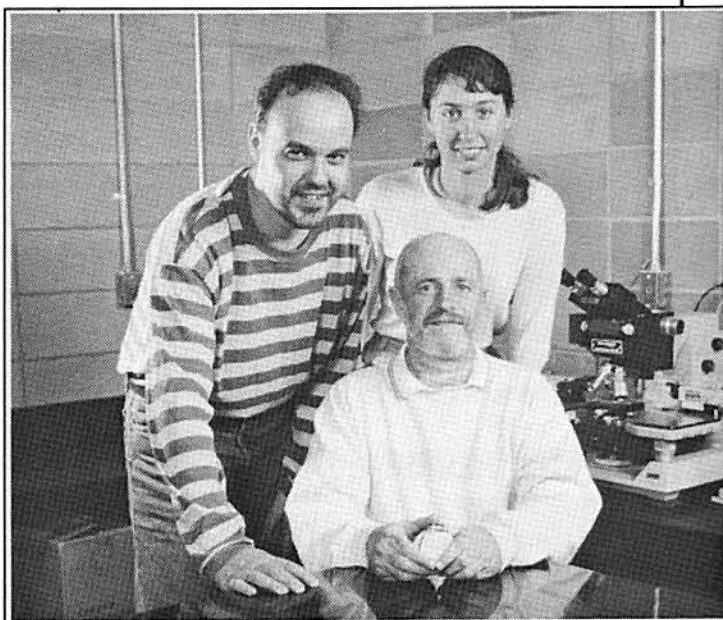
Consider the case of a cancer patient who has a pacemaker and requires radiation therapy to treat thoracic cancer. The radiotherapy may shrink the tumour, but what effect will the high energy X rays have on the electronics contained within the pacemaker? This is one of the research goals of Lakehead University's Dr. Declan Barry, professor of electrical engineering.

Dr. Barry, who was educated at the National University of Ireland and did two years of postdoctoral research at the University of Cambridge in high energy beam physics, developed an interest in reliability while teaching at the University of Bradford, England. Since coming to Lakehead in 1981, Dr. Barry has pursued research in the irradiation of semiconductor devices in cardiac pacemakers and dosimeters.

Dr. Barry conducts his research in collaboration with final year undergraduates in electrical engineering, and the Ontario Cancer Treatment and Research Foundation in Thunder Bay. As well, Dr. Barry has set up a research committee consisting of a reliability engineer, an oncologist, a cardiac specialist, and a medical physicist.

"People are being given pacemakers much earlier in life these days," says Dr. Barry. "The baby-boomer generation is aging and people are living longer ... so we'll see more problems with people with pacemakers (coincidentally) developing thoracic cancer. Physicians don't have a background in semiconductor physics ... that's why we're involved ... to advise the medical profession and the people who make pacemakers."

A pacemaker helps control a person's heart rhythm by sensing the heart rhythm and providing an electrical stimulus to the heart if it is arrhythmic (misses a beat). Internally, pacemakers contain electronic memory, switching devices, and sensors. "Pacemakers are very robust and reliable devices," says Dr. Barry. "They have a titanium shield through which plastic tubes come out for sensing blood flow ... and this is where the radiation can come in." When a tumour is irradiated, for example in the oesophagus or lungs, the radiation is directed at the tumour but there is always some "overspill" to neighbouring tissues or the pacemaker.



*Alina Dinca (right) and other Lakehead engineering students are part of a team examining the reliability of semiconductor devices. The research is being supervised by professor of Electrical Engineering Dr. Declan Barry (centre) with the assistance of LU graduate Dr. Marco Meniconi (left). The project was made possible thanks to the cooperation of Dr. Jan Kotalik and Dr. Mathew Al-Ghazi, two medical doctors who have been associated with the Ontario Cancer Treatment and Research Foundation in Thunder Bay.*

The electrical engineering students who work under Dr. Barry's supervision for their undergraduate theses perform the experiments and help analyze the resulting data. Prior to irradiation, the electronic components are tested with a semiconductor analyzer to measure all the major electrical parameters. The components are then coated with wax to simulate human flesh and irradiated at the Cancer Clinic, with the assistance of the technologists and physicist at the Clinic.

The components are tested again with the semiconductor analyzer and changes in electrical parameters are recorded. Faults, for example, may be randomly distributed through the device's array of memory cells.

This irradiation and testing process is repeated weekly for several weeks. The electronic components may then be "decapsulated": the plastic shell is stripped from the electronic wafer by a chemical process developed in collaboration with Dr. Neil Weir of Lakehead's Department of Chemistry. Thus, the physical reasons for failure may be ascertained by visual inspection of the wafer under a high powered microscope.

A preliminary finding is that for the same total accumulated dose, failure rates are higher for electronic components that have been subjected to a series of small doses, than for components that have been subjected to a series of large doses.

*continued on page 5*

According to Dr. Barry, failures are propagated in a manner which may be analogous to the way an epidemic spreads through a population, and in fact, Dr. Jim Betts of the University of Bradford is involved in the advanced statistical analysis of these results. Furthermore, it is apparently the formation of "free radicals", which are harmful to humans, that damage the components. These free radicals are formed by the fast electrons that are generated by the effect of irradiation.

Dr. Barry is quick to point out that these tests are conducted at radiation levels that are far higher than those used for treating humans. The experiments are "accelerated tests" in which the data is analyzed to produce a "local model" of the behaviour of the components under high levels of irradiation. Then, using advanced statistical methods developed by Dr. Marco Meniconi, the local model is used to forecast a "global model" which can be used to predict the behaviour of the components at lower radiation levels.

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**"PHYSICIANS DON'T HAVE A  
BACKGROUND IN SEMICONDUCTOR  
PHYSICS ... THAT'S WHY WE'RE  
INVOLVED ... TO ADVISE THE MEDICAL  
PROFESSION AND THE PEOPLE WHO  
MAKE PACEMAKERS."**

**-- Dr. Declan Barry**

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Dr. Marco Meniconi (BEng'86) is a former graduate student and research associate of Dr. Barry. He was one of the first LU students to enrol in a PhD program at another university and to carry out most of his research at Lakehead. Dr. Meniconi subsequently received his PhD from the University of Bradford and in October returned to his second alma mater to take up a position as Lecturer in Engineering.

Recently the Ontario Cancer Treatment and Research Foundation in Thunder Bay received a large grant that has enabled the Foundation to update their equipment to levels which will considerably aid Lakehead's pacemaker and dosimeter research. "In the end," says Dr. Barry, "Research into the reliability of semiconductor devices will help oncology and cardiac specialists in patient management."

Dr. Declan Barry's research has been sponsored by the Canadian Microelectronics Corporation, and the Natural Sciences and Engineering Research Council.

*Denis Onen is enrolled in the final year of the Electrical Engineering degree program. He is one of several Lakehead students participating in S.P.A.R.K - LAKEHEAD, a writing program coordinated by the Department of External Relations in conjunction with the Department of Graduate Studies and Research.*

## **SOCIAL SCIENCE FEDERATION REPORT**

by Livio Di Matteo  
SSFC Representative



The meetings of the Social Science Federation of Canada (SSFC) were held in Ottawa over the weekend of September 30-October 2, 1994. A number of interesting developments and initiatives were discussed at the meetings.

Lynn Penrod is the new President of SSHRC and she presented an address to the meeting of university representatives on Saturday, October 1. The stated themes of her presidency will be consultation and public accountability and she will seek "equilibrium and balance" in her policies. During a vigorous question and answer session, Penrod argued that we should accept the reality of a shrinking financial pot and "strive for balance" in what we do as social scientists.

In response to a question on the matter of SSHRC being biased against small universities in its research grant awards, Dr. Penrod's reply was that she understood the frustration of small universities and that they should keep on trying. At the same time, she felt that adjudication committees took all kinds of differences and information into account in making their decisions and that she trusted their wisdom.

We hope to have the pleasure of a visit by Dr. Penrod in the near future so that she can personally share her views on social science research with the Lakehead research community.

The SSFC also discussed the new "50% Rule" recently imposed by SSHRC. As stated in SSHRC's June 1993 addendum to its Programs Guide: "In cases where the adjudication committee finds that an applicant's proposed budget exceeds by 50 per cent or more the total amount which the committee deems the minimum funding essential to carry out the program of research, the applicant automatically will not qualify for a grant." For example, if a researcher requested a grant of \$100,000 and the committee felt that the minimum funding necessary for the program of research was only \$40,000, then the researcher would automatically be disqualified. The committee would have to set the minimum funding for this request at more than \$66,000 to avoid it being disqualified.

The intent of this rule is to help ensure that applicants submit realistic and well-justified budget proposals. The impact of this rule would be to guarantee a minimum 66% funding floor for successful grant requests and under most scenarios would reduce the total number of successful grant applications (See Table on Page 9). The SSFC will be writing a letter to SSHRC protesting this decision. It should be noted that Lynn Penrod announced that new scholars would be exempt from this rule.

The meetings also saw a report on the Data Liberation Initiative currently underway. The SSFC is working with Statistics Canada and government departments to put together

*continued on page 9*

## Intervarsity Sports

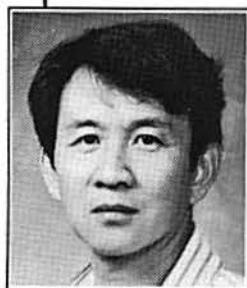
Fast and powerful. That's how Lakehead's new Women's Volleyball Coach **Kelong Wu** is accustomed to playing the sport in his native country. And if he has his way, that's how Lakehead will be performing when the team begins its season in November.

Wu has always loved volleyball. Growing up in China, he took part in a special educational program for young athletes and eventually became a member of China's National Team. He also worked as Assistant Coach of the Women's Volleyball Team, the National Junior Men's and Women's Teams and the National University Team.

Wu left Beijing in 1989 shortly after the student riots in Tiananmen Square. He spent three years in Greece as Head Coach of the National Women's

Volleyball Team before emigrating to Canada with his wife Jessi who is now a graduate student at Lakehead.

Four of Lakehead's strongest women's volleyball players graduated last May so Wu is now faced with the task of having to rebuild the team. "European style volleyball emphasizes offensive play," says Kelong Wu. "While in Japan, they play a defensive game. What I hope to do at Lakehead is to give the players more options and to introduce new defensive techniques."



## Call for Nominations

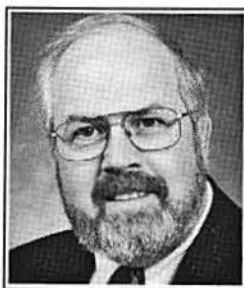
The University is soliciting nominations for the Fellow of the University Award to be conferred at the May 1995 Convocation. Candidates should have:

1) given service to the community of Thunder Bay or Northwestern Ontario through active participation in service clubs, community organizations, business and professional groups or charitable organizations. It is intended that such service should be above and beyond the demand of a career, and should be of the nature where no pecuniary reward is expected; and/or

2) contributed substantially to Lakehead University through one or any combination of the following: service on the Board of Governors, a financial or in-kind donation, efforts that assisted in the growth and development of the University, or extraordinary employee service which extended beyond the scope of what was expected.

Nomination forms are available from Mrs. D.E. Miller, Secretary to the Board of Governors, Room UC 2007 or by calling (807) 343-8614. Nominations must be received no later than Wednesday, January 18, 1995.

## PAT O'BRIEN ELECTED CHAIR OF THE BOARD OF GOVERNORS



At the first meeting of the 1994-95 academic year in September, LU graduate **Pat O'Brien** was elected Chair of the Board of Governors for a one-year term.

O'Brien graduated from Lakehead University in 1970 with a BA in Economics and English. He joined Ontario Hydro in 1972 as a Public Relations Officer and is now the company's Senior

Stakeholder Relations Officer. In addition to serving as Chair of the Board of Governors, O'Brien is a member of the Northwestern Ontario Associated Chambers of Commerce, a member of the Board of Directors of the 1995 Nordic World Ski Championships, and Chair of the Marketing, Promotion and Media Division of the 1995 Nordic World Ski Championships.

In 1985, O'Brien joined the Lakehead University Board of Governors as the Alumni Association Representative. He was elected to the Board in 1988 and has served on a variety of committees including the Executive Committee, Financial Planning Committee, Human Resources Committee, Nominating Committee, and Audit Committee.

O'Brien succeeds **Tony H. Seuret** in the position of Chair. **Maureen Doig** was elected first vice-chair and **Steve Hessian** second vice-chair.

At the same meeting, five new members were elected to the Board: **Mrs. Cheryl Balacko**, who has worked in the University's Bookstore for 17 years, will represent the unionized staff of the University; **Mr. Joseph Baratta**, principal of Corpus Christi School in Thunder Bay and past-president of the Lakehead University Alumni Association, will serve as the Alumni Association Representative; **Dr. John Griffith**, head of the LU's Department of Mathematical Sciences and past-president of the Lakehead University Faculty Association, will serve as the representative of Senate. **Mr. Ian Middleton**, a past-president of LUSU, will serve a second term as a representative of LUSU. Also representing LUSU is **Mr. J.J. Davis**, a fifth-year Chemical Engineering student. (Balacko, Baratta and Griffith have been elected for three-year terms. Middleton and Davis are serving one-year terms.)



C. Balacko



J. Baratta



J. Griffith



I. Middleton



J.J. Davis



# Lakehead University Organization 1994-95

## BOARD OF GOVERNORS

Ms. Cheryl Balacko  
Mr. Joe Baratta  
Mr. Donald Caron  
Mrs. Mickey Christiansen  
Mr. J.J. Davis  
Mrs. Maureen Doig  
Mr. Trevor Farrell  
Mrs. Christine Frank  
Dr. Laurie Garred  
Mr. Paul Gordon  
Dr. John Griffith  
Mayor David Hamilton  
Mr. Steve Hessian  
Rebecca Johnson  
Mr. Tom Jones  
Mr. Bill McDermott  
Mr. Ian Middleton  
Mrs. Dusty Miller  
Mr. Richard Morris  
Mr. Fred Nowgesic  
Mr. John O'Brien  
Mr. Patrick O'Brien  
Mr. Robert Paterson  
Mr. Eric Powell  
Ms. Mary Jean Robinson  
Dr. Robert Rosehart  
Mr. Douglas Scott  
Mr. Anthony Seuret  
Mr. Fred Stille  
Prof. Jan Thatcher

## OFFICERS OF THE BOARD OF GOVERNORS

Chair: Mr. Patrick O'Brien  
Past Chair: Mr. Anthony Seuret  
First Vice-Pres.: Mrs. Maureen Doig  
Second Vice-Pres.: Mr. Steve Hessian  
President: Dr. Robert Rosehart  
Secretary: Mrs. Dianne Miller

## Lieutenant Governor's Appointment

Mr. Trevor Farrell  
Mrs. Christine Frank  
Ms. Mary Jean Robinson

## Executive Committee

Mrs. Maureen Doig  
Dr. Laurie Garred  
Mr. Paul Gordon  
Mr. Steve Hessian  
Mr. Ian Middleton  
Mrs. Dusty Miller  
Mr. Fred Nowgesic  
Mr. John O'Brien  
Mr. Patrick O'Brien, Chair  
Dr. Robert Rosehart  
Mr. Anthony Seuret  
Mr. Fred Stille

## STANDING COMMITTEES OF THE BOARD OF GOVERNORS

### Audit Committee

Mr. Don Caron  
Rebecca Johnson  
Ms. Mary Jean Robinson  
Mr. Douglas Scott, Chair  
Mr. Fred Stille

### Campus Development Committee

Mr. Trevor Farrell  
Mrs. Christine Frank  
Mr. Paul Gordon, Chair  
Mr. Fred Nowgesic  
Mr. Eric Powell  
Dr. Robert Rosehart (ex officio)

### Financial Planning Committee

Mrs. Cheryl Balacko  
Mr. Joe Baratta  
Mr. Don Caron  
Mrs. Maureen Doig, Chair  
Dr. Laurie Garred  
Rebecca Johnson

### Fund Raising Committee

Mrs. Mickey Christiansen  
Mayor David Hamilton  
Mr. Tom Jones  
Mr. Bill McDermott  
Mrs. Dusty Miller, Chair  
Mr. Eric Powell  
Dr. Robert Rosehart (ex officio)

### Human Resources Committee

Mr. J.J. Davis  
Dr. John Griffith  
Mr. Steve Hessian, Chair  
Mr. John O'Brien

### Investment Committee

Mr. Steve Hessian  
Mr. Bill McDermott  
Mr. Patrick O'Brien, Chair  
Mr. Robert Paterson  
Prof. Jan Thatcher

### Nominating Committee

Dr. James Colquhoun  
Mr. Steve Hessian  
Mrs. Florence Johnston  
Mr. Fred Nowgesic  
Mr. Eric Powell  
Mr. Anthony Seuret, Chair  
Prof. Jan Thatcher

## SENATE

President and Chair: Dr. R. G. Rosehart  
Vice-President (Academic):  
Dr. J. H.M. Whitfield  
Chief Librarian: Mr. F. H. McIntosh  
Registrar: Mr. P. A. Paularinne  
Deans of Faculties:  
Dr. J. H. Gellert (Arts & Science)  
Prof. K. R. Hartviksen (Business Administration)  
Prof. J. D. Bates (Education)  
Dr. J. G. Locker (Engineering)  
Dr. J. Naysmith (Forestry)

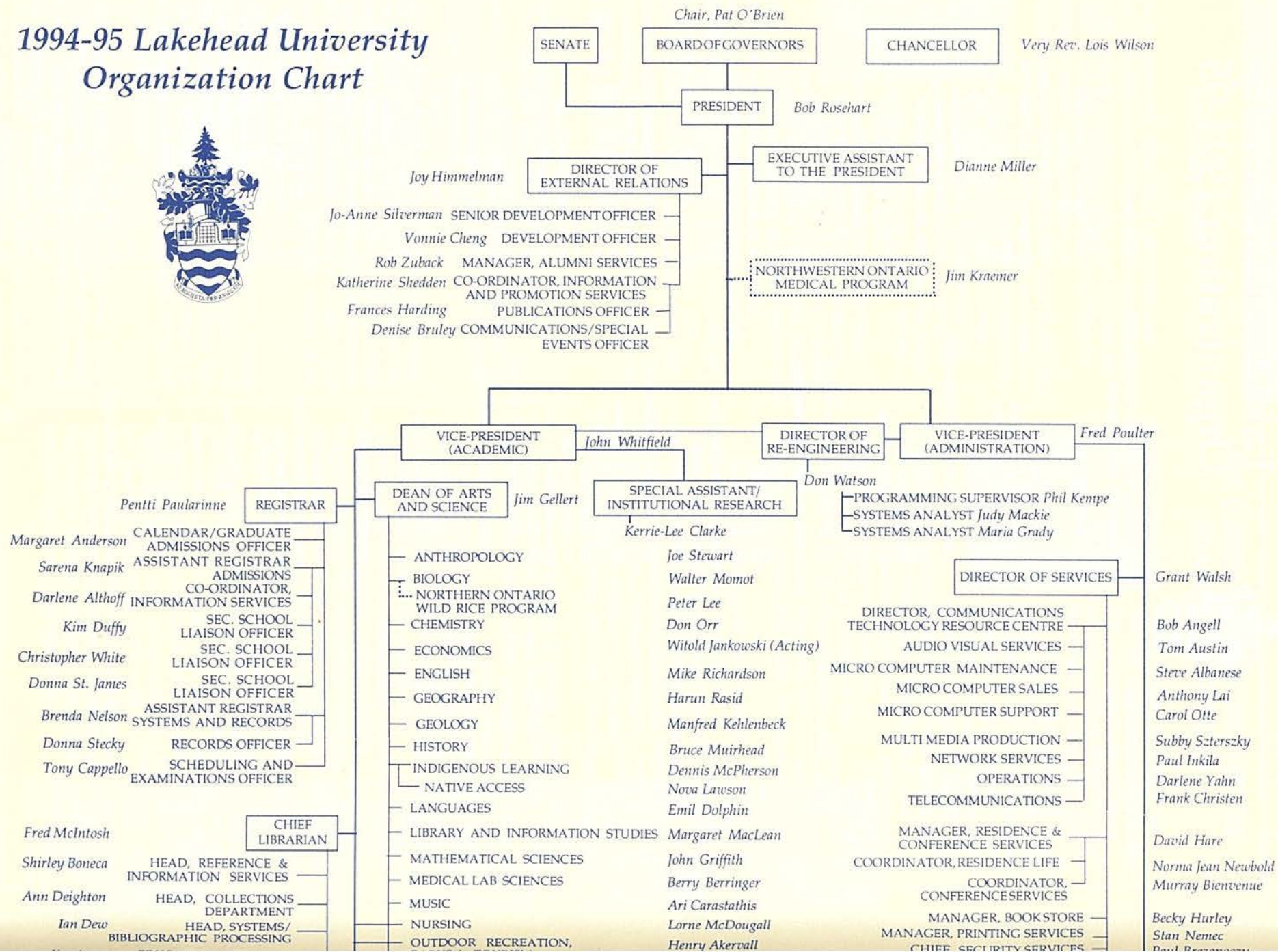
## Heads of Teaching Departments

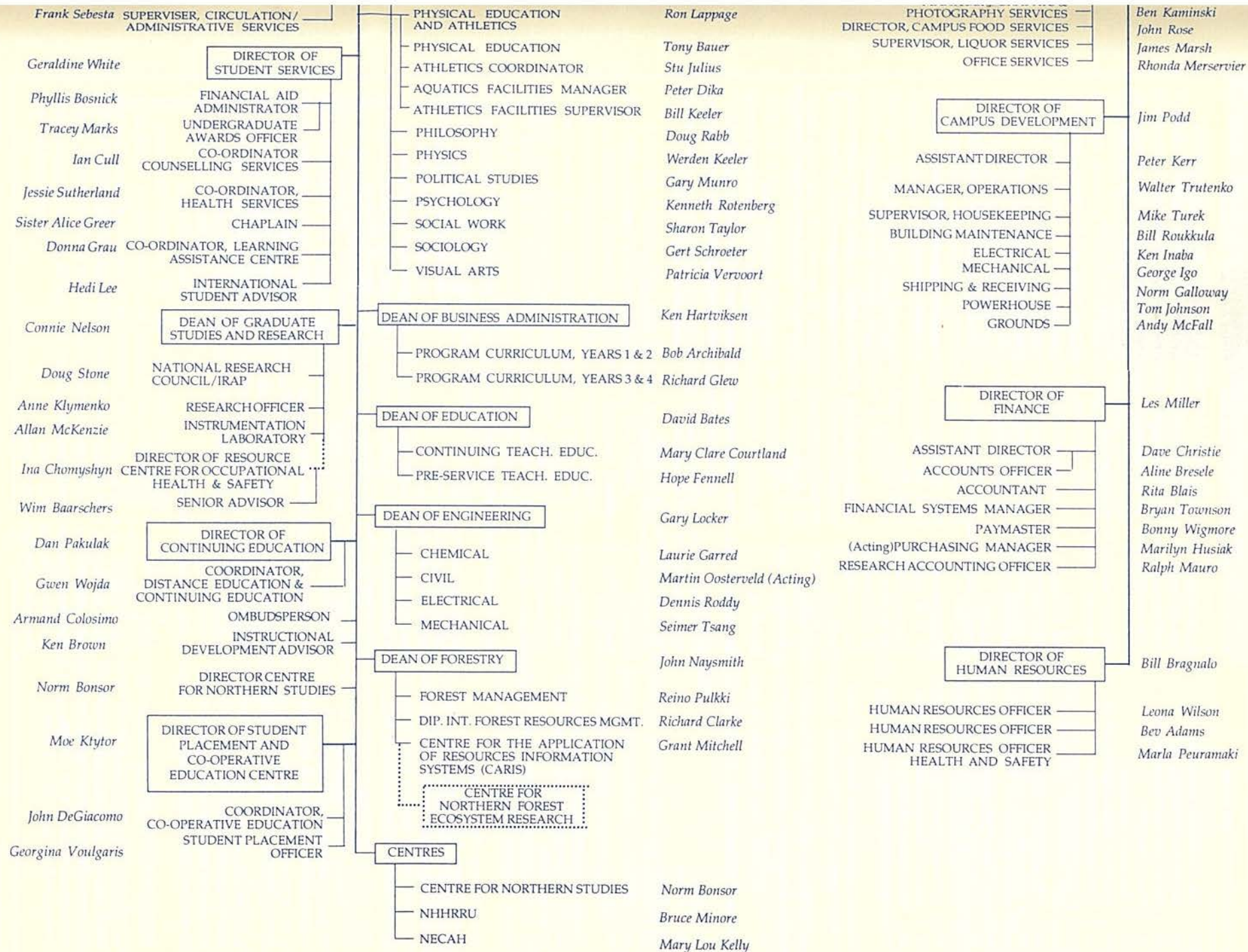
Dr. J. Stewart (Anthropology)  
Dr. W.T. Momot (Biology)  
Dr. D.E. Orr (Chemistry)  
Dr. W. Jankowski (Economics)  
Dr. J. M. Richardson (English)  
Dr. H. Rasid (Geography)  
Dr. M. Kehlenbeck (Geology)  
Dr. B.W. Muirhead (History)  
Prof. D. McPherson (Indigenous Learning)  
Prof. E. Dolphin (Languages)  
Prof. M. MacLean (Library and Information Studies)  
Dr. J. S. Griffith (Mathematical Sciences)  
Dr. A. Carastathis (Music)  
Dr. L. McDougall (Nursing)  
Dr. H.A. Akervall (Outdoor Recreation, Parks & Tourism)  
Dr. J.D. Rabb (Philosophy)  
Dr. R. Lappage (Physical Education and Athletics)  
Dr. A. Bauer (Physical Education)  
Dr. W.J. Keeler (Physics)  
Dr. G. Munro (Political Studies)  
Dr. K. Rotenberg (Psychology)  
Prof. S. Taylor (Social Work)  
Dr. G. Schroeter (Sociology)  
Prof. P. Vervoort (Visual Arts)  
Dr. B. Archibald (Curriculum, Years 1 & 2)  
Prof. R. Glew (Curriculum, Years 3 & 4)  
Dr. M.C. Courtland (Grad. Studies and Cont. Teacher Education Program)  
Dr. H. A. Fennell (Pre-Service Teacher Educ Program)  
Dr. L. Garred (Chemical Engineering)  
Dr. M. Oosterveld (Civil Engineering)  
Prof. D. Roddy (Electrical Engineering)  
Dr. S. H. L. Tsang (Mechanical Engineering)  
Dr. R. Pulkki (Forest Management)  
Prof. R. Clarke (Diploma Integrated Forest Resources Management)

## ELECTED FACULTY MEMBERS

Dr. J.S. Griffith  
Prof. M.L. Kelley  
Prof. G. Knutson  
Prof. C. Loos  
Prof. D.B. Parsons  
Dr. V.R. Puttagunta  
Prof. R. Thayer  
Dr. P. Tripp-Knowles  
Dr. E. R. Zimmermann

# 1994-95 Lakehead University Organization Chart





### **Chairs of Senate Committee**

Dr. J. H. M. Whitfield (Academic)  
Dr. L. Garred (Academic Appeal)  
Dr. H. Rasid (Academic Regulations)  
Dr. D. Steven (Budget)  
Prof. T. Stevens (Computing)  
Mr. D. Pakulak (Continuing Education)  
Dr. R. G. Rosehart (Executive)  
Dr. C. Nelson (Graduate Scholarships and Bursaries)  
Dr. C. Nelson (Graduate Studies)  
Dr. J. M. Richardson (Honorary Degrees)  
Dr. A. Bauer (Library)  
Dr. B.A.M. Phillips (Nominations)  
Dr. J. Jamieson (Organization)  
Dr. P. W. Fralik (Research)  
Dr. H. A. Fennell (Teaching and Learning)  
Dr. L. Thomson (Undergraduate Studies)  
Ms. J. Himmelmann (Undergraduate Scholarships and Bursaries)

### **Elected Representatives From The Board of Governors**

Mrs. M.V. Christiansen  
Mayor D. Hamilton  
Ms. M.J. Robinson

### **Student Representatives**

Ms. P. Brady  
Ms. K. Eryou  
Ms. S. Friar  
Mr. I. Middleton  
Ms. T. See  
Ms. S. Roy

### **FACULTY MEMBERSHIPS ON SENATE COMMITTEES**

#### **Senate Academic Committee**

Arts & Science - Prof. P. Vervoort  
Arts & Science - Dr. C.T. Hoang  
Professional Studies - Dr. F. Blaikie  
Professional Studies - Dr. L. Thomson

#### **Senate Academic Appeals Committee**

Arts & Science - Dr. A. Thompson  
Arts & Science - Dr. R. Ruiperez  
Professional Studies - Dr. L. Garred  
Professional Studies - Prof. R. Kirk-Gardner

#### **Senate Committee on Academic Regulations**

Arts & Science - Dr. H. Rasid  
Arts & Science - Dr. M. Kehlenbeck  
Professional Studies - Dr. R. Pulkki  
Professional Studies - Prof. M. Boone

#### **Senate Budget Committee**

Arts & Science - Dr. M. Hawton  
Arts & Science - Dr. G. Hayman  
Professional Studies - Dr. D. Steven  
Professional Studies - Dr. A. Gilbert  
Immediate Past Chair - Dr. G. Munro

### **Senate Continuing Education Committee**

Arts & Science - Dr. R. Berg  
Arts & Science - Dr. E.R. Zimmermann  
Professional Studies - Dr. L. McDougall  
Professional Studies - Dr. N. Lavoie

### **Senate Graduate Scholarships and Bursaries Committee**

Arts & Science - Dr. C. Southcott  
Arts & Science - Dr. J. Tan  
Professional Studies - Dr. I. Newhouse  
Professional Studies - Dr. Y. Prévost

### **Senate Graduate Studies Committee**

|                         |                             |
|-------------------------|-----------------------------|
| Dr. C. Nelson           | Dr. J. Ryder                |
| Dr. P. W. Fralik        | Dr. T. Thompson             |
| <u>Arts and Science</u> | Dr. N. Weir                 |
| Dr. W. Allaway          | Dr. C. Southcott            |
| Dr. G. Borradaile       | <u>Professional Studies</u> |
| Dr. D. Carpenter        | Dr. R. Archibald            |
| Dr. E. Epp              | Dr. M.C. Courtland          |
| Dr. F.M. Holmes         | Dr. J. Kayll                |
| Dr. W. Keeler           | Dr. R. Thayer               |
| Dr. B. Moazzami         |                             |

### **Senate Committee on Honorary Degrees**

Arts & Science - Dr. A. Chen  
Arts & Science - Dr. J. M. Richardson  
Professional Studies - Dr. T. Bauer  
Professional Studies - Dr. D. Twynam

### **Senate Library Committee**

Arts & Science - Dr. D. Kemp  
Arts & Science - Dr. M. Rappon  
Professional Studies - Dr. A. Bauer  
Professional Studies - Dr. Y. Prévost

### **Senate Nominations Committee**

Arts & Science - Dr. A. Chen  
Arts & Science - Dr. G. Kondor  
Arts & Science - Dr. W. Sears  
Arts & Science - Dr. B.A.M. Phillips  
Professional Studies - Prof. T. King  
Professional Studies - Dr. J. Epp  
Professional Studies - Dr. B. Dadgostar  
Professional Studies - Dr. S.A. Mirza

### **Senate Organization Committee**

Arts & Science - Dr. J. Jamieson  
Arts & Science - Dr. G. Schroeter  
Professional Studies - Dr. A. Bowd  
Professional Studies - Dr. L. McDougall

### **Senate Research Committee**

Arts & Science - Dr. L. Di Matteo  
Arts & Science - Dr. A. Mallik  
Arts & Science - Dr. B. W. Muirhead  
Arts & Science - Dr. P. W. Fralik  
Professional Studies - Dr. H. Saliba  
Professional Studies - Dr. M. Courtland  
Professional Studies - Dr. J. Kayll  
Professional Studies - Prof. C. Loos

### **Ethics Advisory Committee**

Arts & Science - Dr. G. Hayman  
Arts & Science - Dr. P. Jasen  
Arts & Science - Dr. B. Kent  
Arts & Science - Prof. D. Tynan  
Professional Studies - Dr. R. McLeod  
External - Dr. S. Allain

### **Senate Committee on Teaching and Learning**

Arts & Science - Prof. D. Martin  
Arts & Science - Prof. A. Clarke  
Professional Studies - Dr. J. Taylor  
Professional Studies - Dr. H.A. Fennell

### **Senate Undergraduate Scholarships and Bursaries Committee**

Arts & Science - Dr. P. Jasen  
Arts & Science - Dr. M. Johnston  
Professional Studies - Dr. S. Mansour  
Professional Studies - Dr. T. Bauer

### **Senate Undergraduate Studies Committee**

Arts & Science - Dr. J. Lynes  
Arts & Science - Prof. P. Vervoort  
Professional Studies - Dr. L. Thomson  
Professional Studies - Prof. J. de Cangas

### **Academic Colleague to COU**

Dr. K.P. Satinder  
Alternate - Prof. G. Knutson

### **MEETINGS 1994-95**

#### **Board of Governors**

September 16, 12:30 p.m.  
November 17, 4:00 p.m.  
February 16, 4:00 p.m.  
April 27, 4:00 p.m.  
June 15, 4:00 p.m.  
September 21, 4:00 p.m.

#### **Senate**

September 26, 9:30 a.m.  
October 25, 2:30 p.m.  
November 23, 9:30 a.m.  
January 23, 2:30 p.m.  
February 21, 9:30 a.m.  
March 22, 2:30 p.m.  
April 27, 9:30 a.m.  
May 12, 2:30 p.m.

Associate Professor **Dr. Jane Taylor** and LU graduate **Daphne D'alton** recently prepared a video entitled *Terry Robinson: Adaptations for Outdoor Sport* which Dr. Taylor presented at the 3rd International Medical Congress on Sport for the Disabled in Quebec City last May. Dr. Taylor has been devoting much of the past two years to a national inclusion project which has a mandate of preparing and distributing instructional manuals to 15,000 schools in Canada. As a member of the Adapted Special Interest Group of the Canadian Association for Health, Physical Education, Recreation and Dance, she has written, edited or coordinated the writing team for two of the comprehensive manuals -- *Maximizing Opportunities for Students with Multiple Disability* and *Maximizing Opportunities for Students who are Physically Awkward* and two of the abridged versions including *Maximizing Opportunities for Students with Cerebral Palsy*. On October 8, she co-presented a paper entitled "The Inclusion of Students with Multiple Disabilities in Regular Physical Education" to the North American Federation of Adapted Physical Activity at Michigan State University. Dr. Taylor also represented NECAH at the Canadian Association on Gerontology's annual meeting in Winnipeg, where she chaired sessions on "Well Being and Health Promotion" and "Death and Dying". She recently initiated the first graduate courses in gerontology and adapted physical activity in the School.

Associate Professor **Dr. Bob Thayer**, graduate student **Joe Collins** (School of Physical Education) and **Angeli Gupta** (Biology) presented a paper at the Canadian Society for Exercise Physiology in Hamilton, last October entitled "Histochemical and electrophoretic analyses of human skeletal muscle in endurance trained subjects". Recently, Dr. Thayer was the primary author for a chapter in a book entitled *Principles of Exercise Biochemistry*, 2nd rev. ed. Medicine and Sport Science, Basel, Karger 1994, vol. 38, pp. 25-50. The chapter in the book is entitled "The Fiber Composition of Skeletal Muscle".

As a member of the International Symposium for Biomechanics in Sport, Associate Professor **Dr. Tony Bauer** was an invited speaker at this year's conference in Budapest, Hungary. The topic focused on the area of Dr. Bauer's research: "A Biomechanical Review of Human Power Measurement". In addition, Dr. Bauer and **Carlos Zerpa**, the Engineering Technologist in Physical Education at Lakehead, presented a paper at the Symposium entitled "A video analysis method for the calculation of power". The paper will be published in the Conference proceedings.

Associate Professor, **Dr. Ian Newhouse**, has recently co-authored a chapter in a book entitled *Sports Nutrition: Minerals and Electrolytes* to be published by CRC Press Inc. Dr. Newhouse and Dr. D.B. Clement (University of British Columbia) have contributed a chapter from their area of expertise: "The efficacy of iron supplementation in iron deplete women".

The School of Physical Education and Athletics has established itself as an innovative and unique academic unit. Its distinct dedication to applied and practical scholarly orientation has won it international acclaim.

Two major degree programs are offered:

1. The Honours Bachelor of Physical Education Degree is a four-year, science-based, practitioner-oriented program offering a broad base of studies with elected specializations which allow in-depth development.

2. The Master of Arts or Science Degree in Applied Sport Science and Coaching emphasizes elite athletic coaching and development of high performance athletes.

— Lakehead University Calendar 1994-1995

**Dr. Jim McAuliffe** presented a paper entitled "The role of visuo-spatial information and temporal KR in the performance and acquisition of a linear positioning movement" at the Canadian Society for Psychomotor Learning and Sport Psychology's annual conference in Hamilton, Ont., on October 27-30, 1994. In addition, Dr. McAuliffe collaborated with Dr. Eric Buckolz (University of Western Ontario), Dr. Cam O'Donnell (University of Alberta) and Scott Stevens on two papers which were presented at the Conference. The papers were entitled "The Spatial Precue Effect for Foveal/Detection Tasks: Factors Affecting" and "The Simon Effect: Evidence of a Response Interference Contribution". The work presented is a result of a joint research effort between Dr. Buckolz, Dr. McAuliffe and Dr. O'Donnell.

Dr. McAuliffe has been appointed Vice President Technical of Squash Canada for a two-year term beginning in June, 1994. Dr. McAuliffe's portfolio includes Sport Science, National Team Selection and the National Coaching Certification Program.

## Faculty of Business Administration

**Dr. B. Dadgostar**, Professor and Research Coordinator for the Faculty of Business Administration, was invited by the Canadian International Development Agency (CIDA) and the Association of Deans of Southeast Asian Graduate School of Management (ADSGM) to visit Thailand as an International Visiting Scholar from June 1 to September 7, 1994. Dr. Dadgostar taught and participated in the program development of a newly established PhD program in Finance at Chulalongkorn University in Bangkok. This is a joint effort of CIDA and ADSGM to establish doctoral degrees in Business Administration in Southeast Asia.

During his tenure at Chulalongkorn University, Dr. Dadgostar taught Advanced Corporate Finance, and Financial Innovations and Development (Options, Futures and Swaps). During this period Dr. Dadgostar also participated in the extensive review and revision of the five-year-old program. As well, Dr. Dadgostar has accepted the invitation to be a member of the PhD Thesis Supervisory Committee at Chulalongkorn University.

During his stay in Thailand, Dr. Dadgostar presented three research papers. The first paper was presented to the faculty and graduate students in Business and Economics at Chulalongkorn University. The second was a public presentation at Assumption University attended by the faculty and students and by a number of executives in the Thai financial sector. The third lecture was presented to the faculty and students of Business and Economics at Thammasat University.

Dr. Dadgostar was also invited by a number of private financial sector companies in Bangkok to provide expert advice as a consultant during his stay in Thailand.

The invitation to teach in Thailand was made to Dr. Dadgostar after a Canada-wide search for professors

who were qualified and willing to participate in the Southeast Asian Joint Doctoral Program. Dr. Dadgostar's invitation to participate as a visiting professor recognizes and enhances the reputation of the Faculty of Business and Lakehead University at national and international levels within the academic and business communities.

## Faculty of Engineering

**Dr. V.R. Puttagunta**, Professor of Chemical Engineering, was elected to the Fellowship of Chemical Institute of Canada and (its constituent society) the Canadian Society for Chemical Engineering. The Fellowship is a senior class of membership which recognizes outstanding merit by those who have made a sustained and major contribution to the science or to the profession of Chemistry or Chemical Engineering.

The Fellowship certificate was presented to Dr. Puttagunta at the 44th Canadian Chemical Engineering Conference held in Calgary, Alta., on October 3, 1994.

## Department of Political Studies

**Dr. Laure Paquette**, Assistant Professor, recently gave a paper on the Korean nuclear crisis, at a conference on preventive diplomacy at Dalhousie University. This paper was one of two to be published in a collection edited by David Black and Timothy Shaw of Dalhousie University. The paper was based on research conducted while Dr. Paquette was Visiting Research Fellow at the Japan Forum on International Relations, Inc. in Tokyo earlier this year. The Japan Forum will be publishing the other paper, entitled "Nihonjin no Hinjaku na Anzen Tooron" (Sterility in the Japanese Security Debate) in Japanese later this year.

Dr. Paquette is also the recipient of a Faculty Research Award from the Ministry of Education of the Republic of China (Taiwan), which will allow her to research "Security Challenges Facing the Republic of China" *in situ*. Dr. Paquette also fell victim to federal government

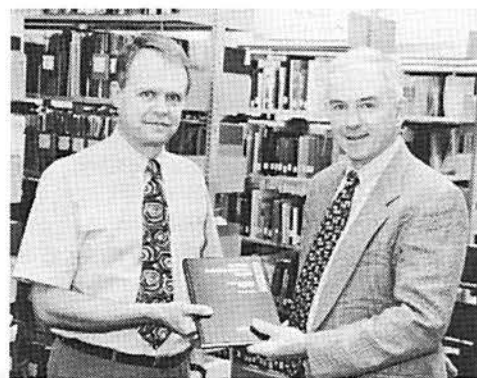
cutbacks when a research grant, which had been awarded in full by the Cooperative Security Competition Program of Foreign Affairs and International Trade Canada, was cancelled with the rest of the granting program.

## Department of Geography

In September, the second edition of **Dr. David Kemp's** book *Global Environmental Issues: A Climatological Approach* was published simultaneously in London and New York by Routledge. The book originally appeared in 1990 and was reprinted in 1991, 1992 and 1993. By the end of last year more than 8500 copies had been sold. The second edition is 70 per cent longer than the original with a significant increase in the number of figures and tables.

*Global Environmental Issues* deals with those environmental issues which include a climatological element in their make-up, with chapters on global warming, ozone depletion, atmospheric turbidity, drought and desertification. It is designed for undergraduates in environmentally based disciplines, but it has been written in such a way that it should be suitable for the general reader also.

As a spin-off from this book, Dr. Kemp has been asked to submit a proposal for a dictionary suitable for use in environmental studies programs. His submission is currently under consideration by the editorial board at Routledge.



Lakehead is proud of its collection of books by faculty. Professor David Kemp (above left) presents Chief Librarian Fred McIntosh with the second edition of his book for the Northern Studies Resource Centre.

## Department of English

Associate Professor **Dr. Claude Liman** was inducted into the Athletic Hall of Fame at Harvey School in Katonah, New York, the school he attended from 1952-57 up through Grade 8.

In conjunction with his visit, Dr. Liman spoke to the school body and read some of his poems. He has been invited back to Harvey to give other readings and to work with the school's creative writers.

The anthology *Reconcilable Differences: The Changing Face of Poetry by Canadian Men since 1970* has just been published by Bayeux Press of Calgary with 10 of Dr. Liman's poems in it. His selections include poems from *Landing* and *Becoming My Father*, his first two books, as well as some new work from *Home-made Hill*, the collection on which he is currently working.



## CLARIFICATION

The Nordic Sport Research and Testing Institute, currently under construction at Big Thunder National Ski Training Centre, will be operated under the direction of Lakehead University's Department of Graduate Studies and Research.

In addition to being used as a clinical training platform for Lakehead graduate and undergraduate students, the facility will be available to local, regional, national and international groups, both private and public.

Director of the Institute, Dr. Moira McPherson, sees the opportunity "to create a new industry in Thunder Bay". As an applied sport biomechanist, she sees potential linkages with the medical and engineering professions and has already made contact with the McMaster University Medical Program to explore ways the facility might be used when it is completed this summer.

## SOCIAL SCIENCE FEDERATION REPORT

continued from page 5

a system of accessible and affordable data access. Universities and colleges will subscribe to a consortium-like organization which will purchase data files on a cost-shared basis with Statistics Canada. Subscriptions will be based on the size of institutions and their research profile. At present, the suggested pricing system is: \$12,000 per annum for large institutions with a comprehensive set of graduate programs, \$7,200 for medium-sized institutions with some graduate programs and \$3,000 for small, primarily undergraduate institutions. For Lakehead, this proposal would allow access to more data than we currently have at a lower price than we now pay.

The SSFC has also been promoting the role of social scientists in the Federal Science and Technology Review currently underway. Social scientists have gained an important role in this review because of the realization that science and technological change are "social" processes.

The Learned Conferences Secretariat which is operated by the SSFC and manages the Learned Societies Conference has announced locations for future conferences. They are:

|      |                                 |
|------|---------------------------------|
| 1995 | UQAM                            |
| 1996 | Brock                           |
| 1997 | Memorial                        |
| 1998 | Sherbrooke/Bishop's (tentative) |

The theme of the 1995 Learned's will be "The Worker" while the theme of the 1996 Learned's will be "Identity, Citizenship and Democracy".

Marshall Conley, a political scientist at Acadia University is the new SSFC president-elect. He has a background in international human rights and refugee issues.

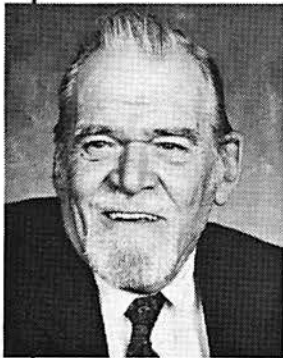
Finally, the SSFC Book Prizes for 1993-94 were announced. The Jean-Charles-Falardeau Prize went to Louis-Edmond Hamelin for *Le rang d'habitant: le réel et l'imaginaire* while the Harold Adams Innis Prize was awarded to Bettina Bradbury for *Working Families: Age, Gender, and Daily Survival in Industrializing Montreal*.

If there are any questions or concerns about social science research or the SSFC, please do not hesitate to contact me at ext. 8545 or via e-mail: [ldimatte@flash.lakeheadu.ca](mailto:ldimatte@flash.lakeheadu.ca)

**Table**  
Number of Successful Grants under the SSHRC "50% Rule"  
under Varying Scenarios  
(% Change from 1993-94 Competition in Brackets)

| Average Funding Success Rate | Percentage Decrease in Average Grant Request* |            |            |           |
|------------------------------|-----------------------------------------------|------------|------------|-----------|
|                              | 0                                             | 5%         | 15%        | 25%       |
| 66%                          | 570(-4.7)                                     | 600(0.3)   | 671(12.2)  | 761(27.3) |
| 75%                          | 502(-16.1)                                    | 528(-11.7) | 591(-1.2)  | 669(11.9) |
| 85%                          | 443(-25.9)                                    | 466(-22.1) | 521(-12.9) | 591(-1.2) |

\* The percentage decrease in the average grant request is a potential response of researchers to the new SSHRC 50% rule.



# FRIENDS OF DR. TOM MILLER SAY THANKS

*"Clearly the world is also divided into the friends of Tom Miller, and those who haven't met him yet."*  
-- Patrick Wesley, friend and former LU faculty member

Intellectual provocateur. Canadian war hero. The best friend in the world. A GREAT teacher. Those were just a few of the accolades bestowed upon Thomas Breech Miller at a recent dinner hosted by the Department of History, to celebrate their founding Chair and the establishment of a scholarship named in his honour.

"A scholarship for people that are partway through and determined to go on," says Dr. Tom Miller, "will be a very, very healthy thing."

Tom Miller, now Professor Emeritus of History, completed a Bachelor of Arts degree at the University of Toronto and a doctorate in History at the London School of Economics. During the Second World War he served in the RCAF and was awarded the George Medal for rescuing two men from the burning wreckage of a plane. Later that year his plane was shot down into the North Sea. Miller was captured, and he spent the next three years in a number of PoW camps

In 1954, Tom and his wife Dusty came to Thunder Bay, or rather "The Lakehead" as the twin cities of Port Arthur and Fort William were then called. His job, according to friend and former MP Douglas Fisher, was "to teach English, History, Philosophy, and Political Economy at Lakehead Technical Institute" -- then just a "drafty, grimy shack" on Cumberland Street. By 1957, LTI had evolved into the Lakehead College of Arts, Science and Technology, and by the mid-sixties had become a full-fledged, degree-granting university.

Professor Victor Smith, a friend and a colleague in the History Department, remembers Tom from those early days as "a one-man faculty of arts" and "the architect of the plan and procedure for converting LTI into LU." Tom just thought it was part of the job!

By the time he "retired" in 1986, Dr. Tom Miller had played an enormously significant role in the development of Lakehead University. His accomplishments include having served as first director of Lakehead University's summer school and off-campus programs; Chair of the History Department; Founding Chair of the LU Faculty Association; Board member of the Lakehead Social

Planning Council; President and Executive Officer of the Port Arthur NDP Riding Association; Board Member of the Thunder Bay Community Auditorium; Campaign Chair of the Thunder Bay United Way in 1975; Honorary Chair of the Alumni Annual Fund campaign in 1991; Executive of the Lakehead Unitarian Fellowship; Executive of Cambrian Players; and Founding Chair and now Honorary Chair of the Thunder Bay Branch of the Canadian Institute of International Affairs.

**"I can remember Dr. Miller telling us that 'We weren't up to much if we let a little water get in the way of our understanding of Kant's Categorical Imperative.'"**

— Jim Foulds

For Professor Smith, Tom Miller's most endearing qualities are his humour and his humility. Others, in their after-dinner speeches, praised Tom Miller for his kindness and generosity, his joyful approach to life, and for always encouraging people to take what they were doing seriously, *but not themselves.*

Stories of the blue-eyed, bearded professor abound. One former student recalls that Dr. Miller always challenged his students, even in the little things. "When we started to bellyache because of the melting ice which leaked through the roof ominously into buckets and washtubs in the classroom and hallways," says Jim Foulds, "I can remember Dr. Miller telling us that 'We weren't up to much if we let a little water get in the way of our understanding of Kant's *Categorical Imperative*.'"

Another friend, Patrick Wesley, says "Tom had a phrase. Whenever he saw something apt, or ironic, or had one of those insights that he had so often into the foibles of humanity, he would say: 'Oh Hell Yes'. Tom's life, when you think about it, is apt. Oh Hell Yes!"

— Frances Harding

*Those who wish to make a tax-deductible contribution to the Tom Miller Scholarship Fund are invited to make cheques payable to Lakehead University and forward them to Jo-Anne Silverman, c/o Lakehead University Development Office (807) 343-8910.*

## HEALTH AND SAFETY

### LU Injury Statistics: January 1 to October 31, 1994

#### COMPENSABLE INJURIES

|                             | Jan. 1 - Oct. 31<br>1994 | Same Period<br>Last Year |
|-----------------------------|--------------------------|--------------------------|
| <b>Medical Aid Injuries</b> |                          |                          |
| Approved                    | 43                       | 25                       |
| Pending Decision by WCB     | 6                        | --                       |
| <b>Lost Time Injuries</b>   |                          |                          |
| Approved                    | 7                        | 9                        |
| Pending Decision by WCB     | 0                        | --                       |
| <b>Number of Days Lost</b>  |                          |                          |
| On Approved Claims          | 45                       | 307                      |
| On Claims Pending           | 0                        | --                       |

**SAFETY NOTE:** The Ministry of Labour's November, 1993 Health & Safety Guidelines, entitled "Rest Breaks for Video Display Terminal (VDT) Operators" offer sound advice to anyone who uses computers on the job, or at home. The Guidelines note: "People who do continuous, intensive VDT work ... are at increased risk of developing a number of health problems. These include: visual fatigue, headaches, repetitive strain injuries (ie. carpal tunnel syndrome), and back pain."

The Guidelines suggest the following precautions: appropriate work station design, proper lighting, training and the use of suitable equipment. In addition, the Guidelines note that:

*"When work is intensive (ie. continuous keyboarding for an hour or longer, uninterrupted by other activities), good work station design should be augmented by having the operator take a 5-minute break away from VDT operation in each hour."*

*"The 5-minute break should not be accumulated. This is because short, frequent breaks are much more effective in preventing excessive fatigue and possible injury than longer, less frequent breaks."*

The University, as an employer, has the general duty of taking every reasonable precaution for the protection of workers under the *Occupational Health & Safety Act*. The "5-minute break" represents a reasonable precaution. If you are interested in receiving a copy of the Guidelines, please contact Marla Peuramaki, Human Resources Officer - Health & Safety, at 343-8671.

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

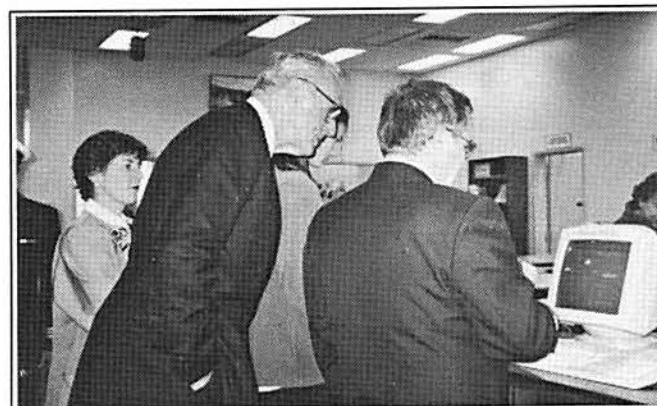
**Comments? Suggestions? News? Story Ideas?**

**The Agora would like to hear from you!**

**Call (807) 343-8300**



Ron Brunelle and Dr. Jane Taylor took part in a Wheelchair Race, one of the many activities held on campus last month during the third annual Special Needs Awareness Days. Organized by the Learning Assistance Centre and LUSU, the two-day event included an Agency Fair and an Access Day where participants are given an opportunity to experience the challenges that people with disabilities face each day. For more information on Dr. Taylor's work on maximizing opportunities for students with disabilities, please see page 7.



A tour of the library and a tree-planting ceremony in the Agora circle were part of the itinerary for the Lieutenant Governor of Ontario when His Honour Henry N.R. Jackman (centre) visited Thunder Bay last month. In addition to seeing the campus, he took part in the gala fundraising dinner in honour of the Chair of Italian Studies Project at Lakehead University.

## CAMPUS CALENDAR

To include your Department's event or activity in the Campus Calendar, please call Frances Harding at the Information Office at 343-8193 or mail your information to Avila Centre. Deadline for the December Agora is December 5, 1994.

### NOVEMBER/DECEMBER

#### NOVEMBER 26

#### DEPARTMENT OF SOCIAL WORK 20TH ANNIVERSARY DINNER

Lakehead alumni, staff, faculty and friends are invited to attend a dinner to celebrate the 20th Anniversary of the establishment of the Department of Social Work.

Location: Faculty Lounge

Time: 6:00 PM

Tickets are priced at \$16 and can be purchased at the Department of Social Work 343-8576.



#### NOVEMBER 27 LAKEHEAD SOCIAL PLANNING COUNCIL CHRISTMAS FEST'94

The Lakehead Social Planning Council will present its seventh annual Christmas Fest at the Thunder Bay Community Auditorium, Sunday, November 27 from 11:00 am to 4:00 pm. Don't miss the best in gourmet food, entertainment, crafts and family fun, including a visit from Santa Claus! Tickets are \$3 for adults, \$2 for children and seniors, or \$7 for families and are available at the door. For more information call the Lakehead Social Planning Council at 626-9650.

#### NOVEMBER 29 HEALTH CARE SEMINAR

The NHHRRU-Lakehead Site, together with the School of Nursing, is sponsoring a seminar on "Downsizing and Restructuring in Health Care: An Australian Perspective" by Professor Jenny Bichell, Faculty of Health, Queensland University of Technology.

The seminar will be held on November 29, 1994, from 4:00 pm to 5:00 pm in room 1002, Health Sciences North, Lakehead University. A reception from 5:00 PM to 6:00 PM will follow. There is no registration fee but seating is limited.

To confirm your attendance and guarantee a seat, call Connie Hartviksen at (807) 343-2135.

#### DECEMBER 1 PUBLIC LECTURE

Dr. V.V. Paranjape, recipient of the LU Distinguished Researcher Award for 1994, will present his lecture: "Artificial Solids"

Location: Regional Centre Room 1001

Time: 4:00 PM to 5:00 PM

Refreshments and Cash Bar to follow in the Faculty Lounge. Everyone welcome.

#### DECEMBER 8 LU ANNUAL HOLIDAY CELEBRATION

Place: Tiberio Room, Airline Motor Hotel  
Program: 6:30 PM Symposium; 7:30 PM Buffet Dinner; 9:00 PM Dancing to the Music of Private Eyes  
For tickets and information contact Linda Phillips 343-8200.

#### THE CHANCELLOR PATERSON LIBRARY EXTENDED HOURS

Extended Hours will apply from November 14 until December 17, 1994

Monday to Friday 8:00 AM to 11:30 PM  
Saturday 10:00 AM to 11:30 PM  
Sunday 12:00 noon to 11:30 PM

## 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, businesses and friends of the University. Credit is appreciated when material is reproduced or quoted.

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Graphics: Ben Kaminski, Nicole Sutherland

Printing: LU Print Shop

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