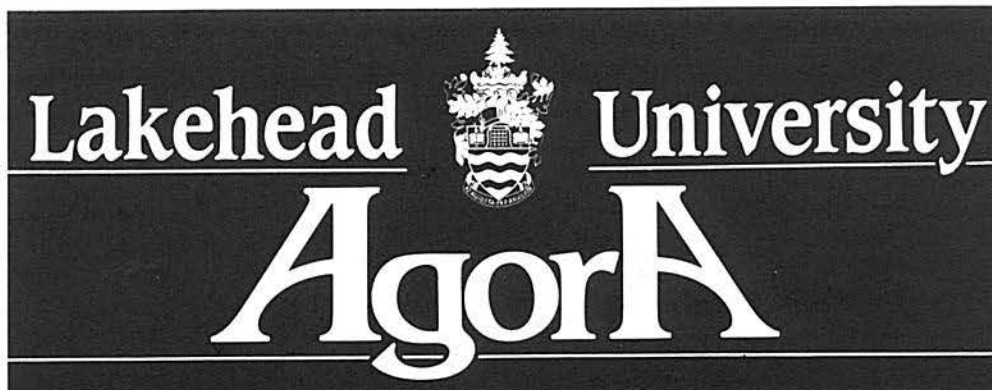


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THUNDER BAY, ONTARIO VOL. 8. NO.10 NOVEMBER 1991

The Long Wait is Over - Student Centre Opens

On October 30 the Lakehead University Student Union held the official opening of the new \$3.75 million student centre. The afternoon celebration was hosted by current student union president Ian Middleton and past president Roch Letourneau. Invited guests included administration, student union representatives, and the people responsible for the design and construction of the facility. The spanking new building houses student union offices, club space, a games room, a convenience store, the Gender Issues Centre, Financial Aid, Student Services and Native Support Services. The centre is also the site for the new pub/events hall facility, recently named "the Outpost" in a student referendum. The pub, with its full service road-house-style menu and the largest dance floor in Northwestern Ontario, has already proven to be one of the busiest places on campus.



Minore named Site Director



\$2 million to research recruitment and retention of health care workers in the North

Lakehead and Laurentian Universities will each receive \$1 million spread over five years to research chronic shortages and the maldistribution of health care workers throughout the northern part of the province. The funding for this research comes from the health system-linked research

unit within the Ministry of Health. A 22-member advisory committee was set up and quickly identified the establishment of a research unit as a high priority. Members include researchers from the two universities, members of District Health Councils and Hospital Associations and Nishnawabe Aski Nation (N.A.N.). Both universities will involve researchers from cross disciplines and develop the research agenda in consultation with health providers and consumers of the services.

A news conference was held to announce the funding and appointment of Dr. Bruce Minore, Director of the Lakehead Site of the Northern Health Human Resources Research Unit. Dr. Minore is Associate Professor of Sociology and has been at Lakehead since 1974. The focus of his research in the last seven years has been on the delivery of human services in single industry towns and native communities in the region.

More specifically, he has worked on the N.A.N. youth suicide consultation, the impact of the Young Offenders Act on native youth and native broadcasting programs.

Minore identified several targeted research areas: "First, we need to find out the factors that effect students' choices to go into a health-related career, especially northern students. There is research showing a higher success rate of recruitment and retention when the student comes from the North". Dr. Anita Chen, Department of Sociology, will conduct a retrospective study of career choice nurses in Northern Ontario. Another study will look at training programs that expose caregivers to the northern experience. Research in that area will attempt to find out if students who train in the north stay in the north.

Dr. Andy Dalrymple, Director of Research at the Lakehead Psychiatric Hospital, will spearhead a study on recruitment and retention of psychologists and psychiatrists in Northern Ontario. Dr. Minore and Professor Boone will work with N.A.N. researchers Mae Katt and Peggy Kinch on retention of front line health workers in the Nishnaawbe Aski First Nations. Minore explored that both studies are seeking to find out how we can keep health professionals already working in the North employed here.

Dr. Minore will be setting up offices in the new Health Sciences Resource Centre in the very near future.

Report From the President



Smith Commission Versus Maclean's

Recently, there have been two significant reviews of the Canadian university system - the Smith Commission Inquiry on Canadian University Education and the Maclean's Magazine expose. The Smith Commission, which cost nearly \$1 million, is a credible report, the Maclean's treatise is, at best, apples and oranges rubbish.

Smith Commission

Smith, in declaring that the system is "fundamentally healthy", has issued a strong warning to universities that they are not putting enough focus on teaching and enough of their tenure-stream professors in the classroom. He is very concerned that we are drifting quickly to the research intensive and tiered American system. Smith outrightly rejects this approach as the wrong way to go. He supports the guaranteed quality of a publicly-funded system but argues for increased tuition fees and a major revision to the student loan program that would see repayment tied to future income.

Stuart Smith, the Commissioner, has done a thorough job. During the term of his work, he held extensive public hearings and visited many Canadian universities, including a day spent at Lakehead. Lakehead University is featured in three key citations in the final report of the Smith Commission. Smith was impressed with the way in which Lakehead University has responded to its regional mandate in terms of being a university "in and for" the development of Northwestern Ontario. Specifically, Smith cites "The curricula at Lakehead University... have(sic) been admirably tailored to meet the needs of the society and

economy of a specific region namely Northwestern Ontario ...".

In the same vein, Smith was also complimentary of the progressive action that Lakehead University has taken to provide professional program access for our Native peoples. Specifically, "The Commission was pleased ... with native-oriented programs at Lakehead University".

And finally, one of Lakehead University's niches in the Canadian university system has been the development of unique post-diploma programs which allow community college graduates in programs such as engineering, business, nursing, social work, and forestry to further their studies to the university degree level in the shortest period of time. Specifically, "Another major area of concern brought to the Commission (partly, admittedly, by the Commissioner, who has written on the matter in the past) is the need for co-ordination between colleges and universities. Lakehead University, with its "Invest your Diploma in a Degree" program, can provide examples which deserve to be emulated".

And now on to Maclean's!

Maclean's

We seem to be catching an unfortunate illness from south of the 49th, i.e., the compulsive need to "rank" things. While Stuart Smith is warning us not to further emulate the U.S. college and university system with its highly variable quality, Maclean's has launched forth with a national ranking effort that, while not completely useless, is highly flawed with its apples and oranges comparisons. A major concern of the Maclean's ranking exercise was its over-reliance on variable data sets and the fact that, with a very few

exceptions, little on-campus research was undertaken.

Linda Frum, to her credit a few years ago, did visit, I believe, each and everyone of the university campuses about which she wrote.

It is hard for me to know where to start with the Maclean's analysis. Firstly, Lakehead University finished 38th of 46 institutions ranked. I should add immediately that Canada has about 90 degree-granting institutions, but Maclean's only based their analysis on B.A. and B.Sc. programs. No analysis involving the professional programs within an institution was made. In the case of universities like Lakehead University and several others in Canada, this has obviously put us to some considerable disadvantage. In all fairness to Maclean's, they did try to treat the institutions statistically the same. Part of the Maclean's summary was a Presidential rating of the top 10 institutions. I refused (along with the President of Concordia University) to participate in this highly subjective exercise as I felt and still feel that it has absolutely no credibility. It would be interesting, for example, to know how many of the 44 (of 46) Presidents who did complete the survey have actually visited and studied the other 43 institutions.

Maclean's made an effort to subdivide the analysis into four categories.

Student Body

The two categories involved in this section are highly misleading as they do not at all take into account the population sample from which each university draws its student body, and it also ignores (in a negative way) accessibility initiatives that individual institutions may have made with special access initiatives such as education equity (handicapped, learning disabilities, Native participation, etc.). As well, although parameters such as entering averages are ranked, the absolute variations are not major. For example, in Arts and Science at Lakehead, the entering average is about 5 percentage points lower than the provincial average, but 10 percentage points above the provincial minimum.

Faculty

I have no great argument with the parameters used in this section, but one must exercise some caution as, although arts and science programs were being analyzed, most of the data was university-wide. Lakehead University did well on all categories and ranged from 15 to 30 in four sub-categories).

Continued on page 11...

Around Campus

Student Callers Make a Difference

Thanks to the efforts of Phone-a-thon Co-ordinator Maureen Doyle (3FA '90) and a first-rate staff of 18 students, the Alumni Association is right on target for the 1991-92 campaign. As of October 24, 1991 the Association has raised \$60,000 towards its \$150,000 goal.

In addition to asking for tax-deductible contributions, the students are updating files, promoting the LU Mastercard and sharing campus news with over 11,000 alumni all across Canada.

On November 6 and 7 Dr. Connie Nelson is planning a special night targeting over 1,000 graduates of the Graduate Student Scholarships at Lakehead University.

Highlights of the season? guest appearances of Campaign Co-Chair Geraldine White, Chief Librarian Fred McIntosh, and Registrar Pentti Paularinne. Oh, and the sighting of a bear feeding on crabapples just outside Alumni House in early October. It's

great to be a northerner!

Special thanks to our corporate supporters for donating pizza, pop and donuts: Papa Piccolinos, Coca-Cola Ltd., and Robin's Donuts.

The Alumni Phone-a-thon continues

through November. For those faculty and staff members who wish to support the Annual Fund this year, please send your cheque (payable to the Alumni Association of Lakehead University) to Alumni House.



Geraldine White (back row, second from right) gets the Phone-a-thon swarm from callers

Ah...winter



WHAT'S HAPPENING IN THE LIBRARY!

The Northern Studies Resource Centre

The Northern Studies Resource Centre in The Chancellor Paterson Library collects materials for northern and regional research. The Centre houses several special collections; Regional, North, University, Faculty and Seaway. The following is a selection of titles relevant to the ethnic development of Thunder Bay. These titles, along with titles pertaining to other aspects of the development of Thunder Bay and Northwestern Ontario are in the Regional or University collections of the Northern Studies Resource Centre:

The Polish-Canadian Community at the Lakehead. Zawadowski, Leo.

Presents a history of the Polish-Canadian community in the Lakehead, discusses European continental immigration to Canada, and provides information for the general reader interested in the history of Canada's culture.

Project Bay Street: Activities of Finnish-Canadians in Thunder Bay Before 1915. Metsaranta, Marc (ed).

A historical study of Finnish immigration to Thunder Bay before World War I. Specific attention is given to the history of local Finnish churches, temperance societies, workingmen's associations and introductory information on Finnish history and culture.

The Italian Immigrant Experience. Potestio, John and Antonio Pucci (eds)

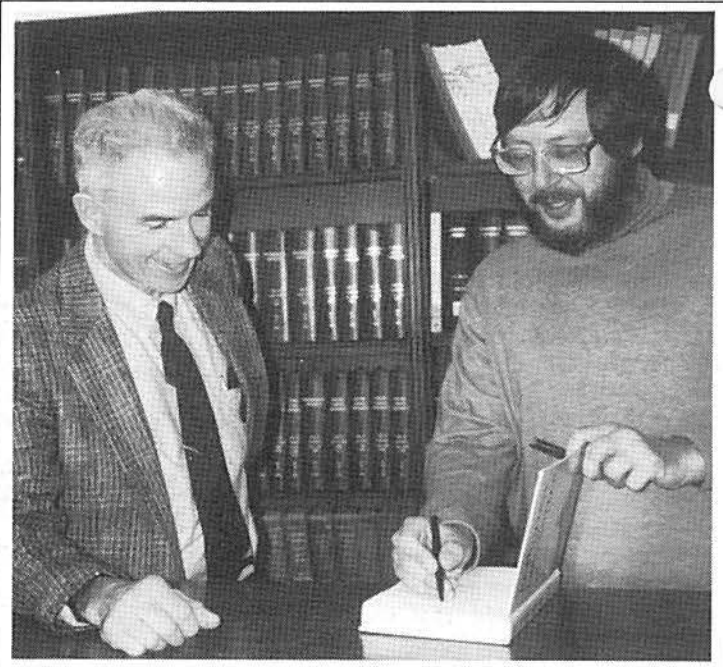
A collection of papers which relate to the Italian immigrant experience in North America, and specifically in the Lakehead.

Polyphony: The Bulletin of the Multicultural History Society of Ontario. vol. 9, no. 2 1987. Special Issue: Thunder Bay's People.

This special issue of Polyphony gives the reader a portrait of the rich ethnic diversity of Thunder Bay.

For more information on The Northern Studies Resource Centre, or to arrange for a guided tour, contact the Centre at 343-8728.

Publishing Profs donate books

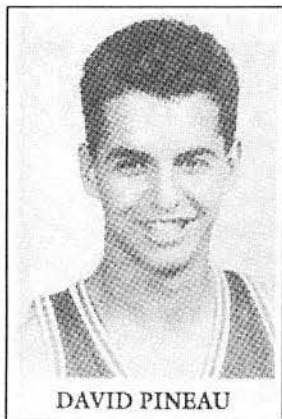


In the midst of what seems to be a publishing flurry, one author thought it would be a good idea to donate a copy to the university library. According to Fred McIntosh, the Chief Librarian, "these donations are very important to the library. First, it is a great way to increase our acquisitions but more important it ensures that the work of our faculty is in the library." The donor in this case is geology professor Roger Mitchell, shown autographing his new book, *Petrology of Lamproites* co-authored with Steven Bergman.

To find out more about the works of our own faculty, check the display in the Bora Laskin Building. It's a very diverse collection of books written or edited by professors from the School of Education. Later this month there will be a book launch for three new books of interest to residents of Northern Ontario written by geography professors Brian Lorch and Brian Phillips and alumna Elinor Barr.

Nor'Westers recognized for academic success

David Pineau, a student in his third year of the Physical Education and Athletics programme was recently named an academic all-Canadian for 1991-92 by CIAU. Pineau plays varsity basketball for Lakehead University. In order to qualify for the honour, the student must be a varsity athlete and maintain academic first class standing. Pineau has maintained an A average throughout his academic career. At last year's awards banquet, Pineau was named the Nor'Westers' most improved player and is on the starting lineup this season. Pineau is a graduate of St. Patrick's High School in Thunder Bay.



DAVID PINEAU



GERALDINE BERGMANS

Geraldine Bergmans, a member of the Lady Nor'Westers volleyball team, and a student enrolled in the Honours Bachelor of Science program, was named an academic all-Canadian by the CIAU. This is the first year the CIAU has recognized academic excellence in this manner. Bergmans is the starting middle blocker for the volleyball team and has been and her strong performances this season have been key factors in the team's successes. Bergmans received a Lakehead University entrance award for academic excellence and a Canada scholarship offered to first class students entering science programs.

Martha Gingerich

Martha Gingerich was recently appointed Executive Assistant to the President. As Executive Assistant Gingerich is secretary to the university Board of Governors and the Senate as well as Electoral Officer for Faculty elections. Originally from Southern Ontario, Gingerich relocated to Thunder Bay four years ago. She has since worked part-time for the community organization, the Women's Health Information Network, and presently holds a seat on the Board of Directors. Gingerich received her undergraduate degree in Geography from Simon Fraser University in 1980, worked in the mining industry for three years and returned to university, this time Carleton, to pursue graduate studies. After taking a break to raise her three children, Gingerich says "I'm really enjoying being back in a university community. Working with the Board of Governors and the Senate will be stimulating." Gingerich enjoys camping and skiing and when she has a rare free moment, likes to curl up with a long historical novel.



Chuk Odiah



Chuk Odiah is a new assistant professor in the department of Social Work. Born in Nigeria, Odiah moved to Finland when he was five years old. His father was a diplomat and by nature of the business was required to move frequently. "My father thought that we should stay in one place and complete our schooling," Odiah remained in Finland, receiving his Masters degree from the University of Tampere. He worked in various areas of social welfare, including international consultancy firms, before continuing with his schooling in Canada. "I was offered a fellowship to teach and go to school at the same time". Odiah received his PhD in Social Work from the University of Toronto in 1990. Odiah's research interests lie with international social work, social policy and research. One of his main interests, cross cultural social work, deals with how to adapt social work experience to a country's specific cultural identity. In his spare time Odiah collects and restores antique cars - "mostly Mercedes, Jaguars and Volvos. It's an expensive hobby and because of the expense of moving them all here, I had to sell some."



Representing more than 275 members . . .

A few of the members of the 1991-92 LUFA Executive Committee pose for a group photo prior to the General Meeting. From left to right Ian Dew, Treasurer, Glenna Knutson, Chief Grievance Officer, Jim Stafford, Pension and Benefits Chair, Chris Southcott, Elected Member, John Griffith, President, Colin Graham, OCUFA Salary Chair, Darlene Steven, Faculty-Board Relations Chair, Gerry Vervoort, Past President and Lisle Thomson, Membership and Services Chair. Executive members absent: John Futhey, Vice-President and Raoul Ruiperez, Secretary.

Academic Planning Update - Senate

The Senate Academic Committee charged with the responsibility of reviewing the existing Academic Plan and developing a revised plan. The process for this has been developed and was published in the September Agora. Six working groups have been formed to receive input, analyze proposals and draft recommendations. They will be carrying out their work over the next four months. The Working Groups first task will be to produce, together with the Senate Academic Committee, an issues or "green" paper. This will include a call for input to the working groups. The working groups together with a brief indication of their mandate are:

1. Academic Programming

Lakehead University offers a wide range of undergraduate programs and a growing number of graduate programs. The **Academic Programming Working Group** will review current programming, receive and analyze five-year plans from departments and schools, and formulate recommendations for new programming initiatives and directions.

R. McLeod (Chair)	J. Gellert
C. Nelson	P. Paularinne
D. Common (C.Benson, Alternate)	D. Pakulak

2. Teaching and Learning

The 1987 Academic Plan recognized good teaching as an integral component of providing a high quality education experience for its students. The **Teaching and Learning Working Group** will evaluate the initiatives that have been undertaken and propose new initiatives and directions to support and evaluate the teaching and learning enterprise of the University.

K. Brown (Chair)	K. Feddersen
G. White	I. Middleton
J. Haines	

3. Research and Scholarship

The University has the stated goal to enhance the quality and quantity of its research and scholarship. The **Research and Scholarship Working Group** will review the progress made in reaching this goal. In addition, the Working Group should consider the development of research and scholarship and the necessary infrastructure to support this endeavour.

W. Keeler (Chair)	K. Hartviksen
C. Nelson	C. Loos
B. Morrison	G. Borradaile

4. Internal Environment and Resources

The University is committed to providing the best possible environment for its students, faculty and staff as they learn, work and live on campus. The **Internal Environment and Resources Working Group** will examine the state of the internal environment on campus. Further, it will make recommendations concerning the appropriate level of physical and human resources required to support the primary activity of scholarship and learning as well as providing a suitable environment in which these activities can flourish.

B. Handford (Chair)	G. Walsh
F. Poulter	T. Stevens
M. Lankester	B. Nelson
J. Lawson	F. McIntosh

5. External Environment and Community Relations

For the University to reinforce its role in the regional, national and international community, it is necessary to understand the political, economic, social and technical forces that impinge on it. The **External Environment and Community Relations Working Group** will examine these factors, our role as a university in and for the north and the expectations of our constituent communities.

P. Duinker (Chair)	L. DiMatteo
A. Fiorenza	J. Russell
R. Slipperjack-Farrell	D. Pakulak
A. Macdonald	S. McCartney

6. Governance

Following from the Touche-Ross Report and the 1987 Academic Plan, the Board and Senate approved changes in academic governance and administrative structure ranging from department chairs in Professional Studies sitting on Senate to the creation of two Faculties and an office of Vice-President (Academic). The **Governance Working Group** will review the effectiveness and appropriateness of these changes and consider recommendations for further changes or refinements of the academic administrative and governance structure.

G. Engholm (Chair)
M. Page
E. Zimmermann
J. Thatcher



Change of Command. On September 21, 1991, Lieutenant Colonel E.C. (Liz) Diem (seated left) turned over command of the 18th Thunder Bay Medical Company to Major G. Perales (seated right). Colonel B. Bruce of Manitoba and Northwestern Ontario Militia District witnessed the signatures. The Honorary Lieutenant Colonel Margaret Page (standing left) and Honorary Colonel S. Graham (standing right), oversaw the signing ceremony. Liz Diem, of the School of Nursing, had been the commanding officer since 1986.

RESEARCH AND GRADUATE STUDIES CONTACT NUMBERS

Director: Dr. Connie Nelson..... ext. 8793
Research Officer: Ms. Anne Fiorenza.
..... ext. 8223
Special Projects Officer: Mrs. Kelly Morris
..... ext. 8939
Graduate Studies, Graduate Awards, Animal Care:
Mrs. Kris Delorey..... ext. 8785
Secretary: Mrs. Lynn Gollat..... ext. 8283

RESEARCH NEWS

NOVEMBER 1991

INNOVATIVE EVOLUTIONARY ECOLOGY THRIVES AT LU

The simplest ecological communities are composed of dozens, if not hundreds, of interacting species. The most complex contain thousands or, perhaps, tens of thousands of species. Lakehead evolutionary ecologist Douglas Morris, Centre for Northern Studies and his students, are attempting to understand the rules that govern these complicated systems.

The evolutionary perspective is essential. Each species is the product of millions of years of evolution. Natural selection has gradually moulded adaptations to the environmental conditions that each species has been exposed to. A good example for the evolutionary viewpoint comes from Doug's research on life history. One of many ongoing projects attempts to understand the evolution of reproductive rates in small mammals.

Many small mammal species have evolved adaptations that allow females to mate immediately following parturition. As the female nurses one litter to independence, another is already developing in her womb. Why has evolution produced such a demanding life history?

The answer required an estimate of the most elusive of ecological parameters, evolutionary fitness. Females that produce the most descendants have the highest fitness. Or, put another way, genes that produce the greatest number of viable copies will become more frequent in the population. But how do you determine which females, or which genes, have been successful at producing descendants?

Doug, with assistance from his spouse Kelly, built several hundred wooden nest boxes and located them in fencerow and forest habitats. The boxes were soon occupied by nocturnal white-footed mice. Doug and his assistants have checked every box several times each spring and autumn breeding season for more than a decade. All mothers and their nursing offspring have been uniquely marked by small numbered ear tags. Throughout the study, nearly one thousand litters, and thousands of animals, have been marked. Doug has thus been able to measure fitness directly, and with large samples. He knows the number of descendants produced by different females as a function of their reproductive history.

It soon became clear why females breed as frequently as possible. Most litters, regardless of their size, yield no descendants at all. The vast majority of young mice die before becoming adults. Doug likens this to a lottery where the tickets are litters, and the prize is the holy grail of immortality. The more litters a female produces, the greater are her odds in the lottery of litter success. Adult white-footed mice have a short and hazardous lifetime. Females with a genetic disposition to produce many litters in a short period of time would leave more copies of their genes than would females

that delay reproduction. The frequent, iterated reproduction that we observe is, in hindsight, a predictable result.

At the same time, however, there has also been selection on litter size. In the population at large, females that produce litters with five siblings leave more descendants than females producing litters of any other size. We should expect, then, that litters of size five should soon come to be the most frequent litter size in the population. Contrary to this expectation, the most frequent litter size is four, not five. Although Doug's study is the first to document this pattern in mammals, a similar pattern has been frequently observed in the clutch sizes produced by birds. The most frequently observed clutch size is often less than the clutch size that produces the greatest number of fledglings.

Theoretical ecologists have proposed several possible explanations for this apparent anomaly. All assume that the estimate of fitness is incomplete. It may be, for example, that females producing large broods have lower survival than females producing smaller broods. Their chances of producing future broods are reduced by the survival costs of the current brood. As a result, throughout their lifetime, they may leave fewer descendants than other females that trade-off their chances of maximizing recruitment from the current brood in favour of maximizing their chances to survive and reproduce in the future. Without a simultaneous measure of maternal survival, the estimate of reproductive success is incomplete.

Doug has tested alternative models and found none to be a completely satisfactory explanation for the evolution of litter size in white-footed mice. It appears, instead, that rather than paying a cost of reproduction, females of many species may have been selected to produce a brood size corresponding to the resources that they have available for reproduction (Doug's theoretical model for this phenomenon is called the optimal investment hypothesis). This is what we should expect for a species like the white-footed mouse. Females that produce the greatest number of litters, and hence the greatest number of descendants, are those that simultaneously maximize their reproductive lifetime while minimizing the interval between successive reproductions.

This interpretation leads to an interesting prediction. Females living in high-quality territories or habitats should have more resources available



Dr. Doug Morris

for reproduction, or they should at least be more efficient at harvesting the resources that are available, than females living in low-quality sites. We expect females in the high-quality territories to produce larger litters than females living elsewhere. In white-footed mice, the opposite appears to occur.

Females living in forest produce twice as many descendants per litter as do females living in fencerows. But, the average litter size produced by fencerow females is greater than that in the forest! The reason for the success of forest litters has little to do with the size of the litter produced. Instead, a voracious predator, the long-tailed weasel, forages for mice extensively, and with great effectiveness, in the fencerows.

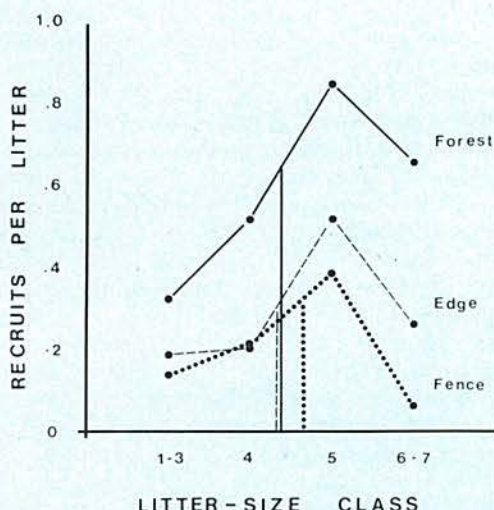


Fig. 1. Some of the complexities of litter-size evolution in white-footed mice. The graph compares the number of adults produced by litters of different sizes in three different habitats. Litters of size 5 produce far more recruits to the population than do litters of any other size. For each litter produced, females occupying forest, recruit twice as many descendants as do females that reproduce in either edge or fencerow habitats. Yet, average litter size (vertical lines) tends to be smaller in the forest than in the nearby fencerows.

Females, weighing as it were, their evolutionary options, should preferentially choose to live in forest. Preference for forest tends to increase the population density of animals living there, and reduces the average quality of forest territories. As a consequence, the relatively small average size of forest litters is not an anomaly at all. It makes perfect evolutionary and ecological sense. But it makes sense only in hindsight, and only because a scientist's curiosity about nature was allowed to develop unfettered by current paradigms and targeted research priorities.

There are those among us who would suggest that such topics as the evolution of litter size are too academic" and that university research should be directed more towards societal needs. Too often, they forget the basic human need to know. Yet, with reflection, it is apparent that Doug's "basic research" is highly applied. It points toward new research protocols that will help resource managers and conservationists allocate their limited resources more productively. They can use Doug's research on the life history of white-footed mice as an empirical guide through the myriad of interactions that modify life histories, and that are ultimately responsible for

the productivity of natural populations, and their chances of survival in a rapidly changing world. Who could have foreseen these direct applications of fundamental research on white-footed mice?

Others, promulgating a common misconception about current tests of ecological theories, suggest that the test of explicit hypotheses is reductionist, and more applicable to the physical world than to ecosystems. Doug's research stands as a stark counterpoint. Tests of specific hypotheses revealed a wealth of interactions influencing the evolution of life history. The tests quantified the crucial role that predators and habitat play in the evolution of reproductive rates and litter sizes of white-footed mice. The effects of predators and habitat are not additive. Remove the predators, or change the habitats, and the evolution of the life history is forever modified. What could be more holistic than that?

To the theorist, Doug's research points toward the need to explicitly incorporate habitat selection into models of life history evolution. To the empiricist, it demonstrates how important it is to collect long-term data in a design that allows their sources of variation to be thoroughly analyzed and interpreted. To the applied ecologist, and to the policy maker, it demonstrates the need to tolerate, should we say encourage, a fundamental curiosity about nature.

The evolutionary story doesn't end here. Habitat selection itself evolves in response to a variety of environmental conditions operating across a wide spectrum of temporal, spatial, and organizational scales. Research on habitat selection has taken Doug and his students from the forests of central Labrador and the barrens of Newfoundland, to the Rocky Mountains and prairies of Alberta, and more recently, to the coast of Hudson Bay and the boreal forests of north-western Ontario. We will explore those studies, and their implications, in a future issue.

GREEN PLAN FUNDING ANNOUNCED FOR ENVIRONMENTAL RESEARCH AND TRAINING

The Government of Canada has committed \$50 million of Green Plan funding to Canadian Universities over the next six years to create a funding program for Research and Training in Environmental Studies. The program will help meet the urgent need for qualified environmental scientists and engineers across the country.

Funding will be awarded in three categories: fellowships, to increase the number of doctoral students concentrating on environmental studies; research chairs, to attract world-class professors in the environmental sciences to Canadian universities; and ecosystem research grants, to create partnerships and teams that would integrate skills from the social and natural sciences, engineering, and health sciences in the study of regional ecosystems in Canada. Together, these three elements will provide a training ground for Canada's future environmental scientists and engineers. Both large and small universities are expected to participate in and benefit from the program. This is the first program to be jointly administered by all three research councils: NSERC, SSHRC and MRC. Although, guidelines and application procedures have not yet been released, researchers interested in applying are encouraged to begin fostering partnerships and formulating a draft proposal. The Office of Research and Graduate Studies will inform researchers when the guidelines and application form have arrived.

RESEARCH OPPORTUNITIES

CANADA-ASEAN CENTRE

Academic Institutional Support Fund

The Canada-ASEAN Centre is a CIDA funded Centre in Singapore mandated to serve as a catalyst linking Canadian and ASEAN interest groups in a wide range of activities. These include the strengthening of academic links to increase knowledge and understanding by Canadians of the ASEAN region (Brunei, Indonesia, Malaysia, Philippines, Singapore and Thailand).

The Canada-ASEAN Centre's Academic Institutional Support Fund aims to increase the mutual knowledge and understanding of Canadian educators by enhancing the capacity of Canadian academic institutions to teach about ASEAN issues, and to ensure there are abundant courses and materials to facilitate the teaching process. Financial assistance will be provided to Canadian educational institutions to cover part of the costs of: 1) Conferences - meetings, conferences or workshops on an ASEAN theme, to invite speakers from ASEAN institutions and to produce and disseminate reports; 2) Exchanges - reciprocal exchanges to promote collaboration in courses, publications and other academic areas; and 3) Publications - preparation of publications directly related to the enhancement of teaching or learning about ASEAN.

Priority subject areas are: ASEAN Studies, Gender Studies and Women's Issues, Strategic Studies, Business and Investment and Environmental and Resource Management Studies. Deadline: January 15, 1992.

CENTRE FOR STUDIES IN DEFENCE RESOURCES MANAGEMENT

The Centre for Studies in Defence Resources Management (CSDRM) was established in 1979 within the Department of National Defence to provide training in and conduct studies pertaining to defence resources management. As part of the evolution of the CSDRM research function, a solicited research program has been established to help fund Canadian researchers doing work in the field of defence economics. The program is designed to sponsor research projects that contribute to an understanding of defence resources management issues and in particular projects which would further the Department's efforts to ensure efficiency and effectiveness in the carrying out of its responsibilities. Deadline: December 15, 1991

CIDA PROFESSIONAL AWARDS

Up to 25 awards are available on an annual basis to Canadians interested in deepening their understanding of the economic and social forces which influence international development. Applicants must develop their own short-term work/study projects which will bring them to a developing country for a minimum of two months. Projects may receive funding of up to \$25,000. The awards program has a mandate of improving the professional, technical and cross-cultural skills of Canadians by encouraging their participation in work/study projects which will be of benefit to both the individual and the host country chosen for the fieldwork. The program hopes to promote better linkages and contacts with developing countries and to encourage long-term partnerships and cooperation. Previous overseas experience is not required. Those who do have overseas experience are encouraged to develop projects which will bring them to new areas of the world and develop new skills, thereby maximizing the learning experience. Deadlines: January 15 and April 30.

NATO FELLOWSHIPS PROGRAMS - 1992-93

The aim of NATO Fellowship Programme is to promote study and research leading to publication on aspects relevant to the North Atlantic Alliance. The programme comprises Individual Grants intended more particularly for individual research work and Institutional Grants concerning research projects designed to stimulate cooperation between relevant university departments or recognized centres of strategic and international studies.

For the Individual Grants Program, each fellow will be awarded the sum of \$240,000 Belgian francs (or the equivalent in the currency for any other member state, inclusive of cost of transportation). Applicants must be nationals of a member State (Canadians eligible). They should pursue their work in one or more member countries in close liaison with recognized academic institutions. Candidates must have at least a working knowledge of the language of the country, or countries, in which they propose to do research. Further information on the Institutional grants are available in from the Research Office. The deadline for both programmes is December 13, 1991.

ONTARIO-QUEBEC UNIVERSITY EXCHANGE PROGRAM - 1992-93

The Ontario-Quebec Commission for Cooperation is dedicated to promoting cooperation and exchange between the two provinces in educational and cultural matters. One of the principal educational objectives of the Commission is to encourage co-operative efforts in scholarship and research, as well as the exchange of students, faculty and staff between the universities of Ontario and Quebec.

Of greatest priority are co-operative and joint research projects concerning technology, pollution studies and those that are industry related. However, other research topics, educational exchanges to teach (faculty) or study (students) are also welcomed. An Exploratory one- or two-day visit to a university in the other province to plan an exchange project is also eligible. Deadline: January 13, 1992.

PUBLICATIONS

Dr. Azim Mallik, Department of Biology has presented two papers at conferences in 1991: 1) "Morphology and anatomy of Vegetative regeneration of *Kalmia Angustifolia*" presented at the Canadian Botanical Association annual Conference, University of Alberta from June 23-27 in Edmonton; and 2) "Ericaceous shrubs and the modified landscape of the Northern Ecosystem" presented at the World Congress of Landscape Ecology, Carleton University from July 19-25 in Ottawa.

GRADUATE STUDIES NEWS



Dr. Gary Murchison, School of Forestry has been appointed an Associated member of the University of Guelph's Faculty of Graduate Studies. Dr. Murchison will be involved as a member of the Advisory Committee for graduate student, Tesfaye Teshome.

UPCOMING DEADLINE DATES

NSERC Programs

Agriculture Canada/NSERC Research Partnership - December 1, 1991
Department of Fisheries and Oceans/NSERC - December 13, 1991
Forestry Canada/NSERC Research Partnership Program - December 1, 1991
Forestry Postdoctoral Assistantships - June 1, December 1
International Collaborative Research Grants - March 1, 1992
International Fellowships - December 1, 1991
International Scientific Exchange Awards - March 1, 1992
Research Partnerships Program - Open
Scientific Publications - October 1 and April 15
Strategic Grants - May 1, 1992

SSHRC Programs

Aid to Occasional Scholarly Conferences in Canada - July 1, November 1, April 1
Doctoral Fellowships - November 15, 1991
Strategic Partnership Development Grants - November 1, January 15, April 15
NSERC/SSHRC Master's Scholarships in Science Policy - December 1, 1991

SENATE RESEARCH COMMITTEE

NSERC Internal Programs

Conference Travel Program - January 15, 1992
Travel to do Research Program - January 15, 1992
Graduate Student Support Program - March 10, 1992
Research Projects Program - March 10, 1992
Visiting Scholar Program - March 10, 1992

SSHRC Internal Programs

Conference Travel Program - January 15, 1992
Research Projects Program - March 10, 1992
Visiting Scholar Program - March 10, 1992

OTHER RESEARCH PROGRAMS

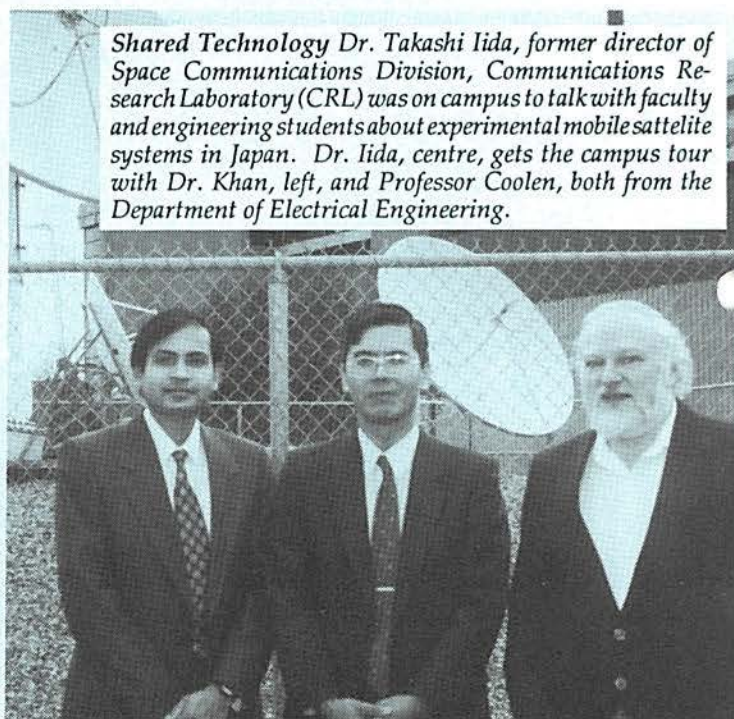
Association for Canadian Studies; Intercultural/ Interregional Exchange Program (September 15, 1991 and December 15, 1991); Canadian Studies Writing Program (November 15, 1991).
Canada-ASEAN Centre: Academic Institutional Support Fund - January 15, 1992
Canadian Fitness and Lifestyle Research Institute - December 1, 1991
Canada - United States Fulbright Scholar Program - November 30, 1991
Centre for Studies in Defence Resources Management - December 15, 1991
CIDA Professional Awards - January 15 and April 30
Educational Centre for Aging and Health; Fellowships/ Bursaries - January 1, April 1, July 1, October 1.
Imperial Oil Ltd., University Research Grants - December 1, 1991
International Society of Arboriculture - December 1, 1991
L.S.B. Leakey Foundation - November 1 and February 1
NATO Fellowships Programme 92-93 - December 13, 1991
Ontario Heritage Foundation: Niagara Escarpment Program - December 1, 1991
Ontario Mental Health Foundation; Fellowships (November 29, 1991)
Ontario Ministry of Health - Nursing Innovation Fund - January 1, May 1, September 1
Ontario Ministry of Natural Resources; ORRRGP - November 15, 1991

Ontario Ministry of Northern Development and Mines; Geoscience Research Grant - November 15, 1991
Ontario Ministry of Tourism and Recreation; Recreation Research Grants - September 20, 1991 and December 31, 1991
Ontario-Quebec University Exchange Program - January 13, 1992
University Research Incentive Fund - January 31, 1991
World Wildlife Endangered Species Recovery Fund - January 1, April 1, July 1, October 1

GRADUATE SCHOLARSHIP OPPORTUNITIES

Canada - United States Fulbright Scholar Program - November 30, 1991
Government of Canada Awards - Deadlines vary by country
Izaak Walton Killam Memorial Scholarships - February 1, 1991
1992-93 NSERC Postgraduate Scholarship Applications: November 15, 1991
1992 Rhodes Scholarships, Oxford University - November 15, 1991.
Medical Research Council; Studentships - December 1, 1991
Ontario-Jiangsu Educational Exchange - October 25, 1991

Shared Technology Dr. Takashi Iida, former director of Space Communications Division, Communications Research Laboratory (CRL) was on campus to talk with faculty and engineering students about experimental mobile satellite systems in Japan. Dr. Iida, centre, gets the campus tour with Dr. Khan, left, and Professor Coolen, both from the Department of Electrical Engineering.



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

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

People/Papers/Publications

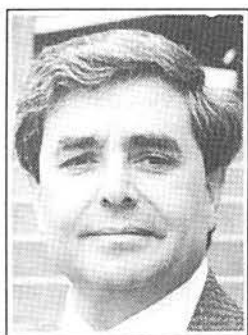
Special Projects/Awards

Dr. Darlene Steven, Associate Professor, School of Nursing and **Mrs. Lyne Soromaki**, Staff Nurse, The General Hospital of Port Arthur recently published the following article: Soromaki, L., & Steven, D. (1991). Performance appraisal systems: Development of a tool. *Canadian Journal of Quality Assurance*, 8(3), 92-96. (refereed).

The paper was prepared while Lyne was a student in N4262 - Nursing Leadership. The authors wish to acknowledge the assistance and support of Mrs. P. Mastroianni, Assistant Executive Director, Patient Services, Joan Scott and Sharlene Kuzik, Nurse Managers, at Hogarth Westmount Hospital, where Lyne completed her leadership practicum.

Dr. Said Easa, Professor in Civil Engineering, is co-author of a paper entitled "Regulatory Reform and Freight Mode Choice", *Transportation Journal*, Vol. 18, 1991. The paper is authored by Dr. Afi Soliman of the University of Manitoba and Dr. Ahmed Gadi of the University of Tripoli, Libya.

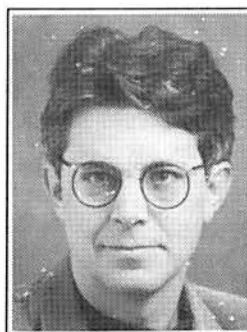
Dr. H.T. Saliba, Associate Professor, Department of Mechanical Engineering, has had two refereed conference papers presented in the thirteenth Canadian Congress of Applied Mechanics. The conference took place at the University of Manitoba in Winnipeg from June 2 to June 6, 1991. The first paper, entitled "Experimental Free Vibration Analysis of Square Cantilever Plates with Rigid Point Supports", was presented by Miss S. Stangier. The second, entitled "Experimental Free Vibration Analysis of Simply Supported Square Plates with Rigid Point supports", was presented by Mr. D.J. Michelussi. Both Miss Stangier and Mr. Michelussi are students working under Dr. Saliba's supervision.



Professor Jose de Cangas from the School of Nursing presented 5 papers at The Third Congress of the World Association for Psychosocial Rehabilitation. All papers were refereed by an international scientific panel of experts composed of psychiatrists, psychologists, nurses, social workers, recreational therapists, occupational therapists and psychobiologists. The Promethean Muse: The Development of a Tool to Measure the Helping Behaviours of Case Managers. The

Client as Therapist: A Program for the Training and Empowerment of Consumers. A Comprehensive Evaluation Method for Psychosocial Rehabilitation Community Mental Health Programs for the Chronically Mentally Ill client. Quality of Life and Effective Psychosocial Rehabilitation: Results of an Experimental Study of a Psychosocial Rehabilitation Program. Social Reinsertion: Beyond Case Management and Psychosocial Rehabilitation.

The papers were delivered in Spanish and English, with simultaneous translation in French. The congress was held in Montreal, P. Q. October 13 to 17, 1991. The World Association for Psychosocial Rehabilitation is affiliated with The World Health Organization. 1,500 scientists from all over the world attended the event which was opened by the Premier of Quebec and the Chairman of WHO. The next Congress will be held in Dublin, Ireland in 1993.



Dr. Thomas Dunk of the Department of Sociology and the Centre for Northern Studies recently published two books, *It's a Working Man's Town: Male Working-Class Culture in Northwestern Ontario* (Montreal: McGill-Queen's University Press, 1991), 192 pp., and an edited volume entitled *Social Relations in Resource Hinterlands: Papers from the 27th Annual Meeting of the Western Association of Sociology and Anthropology* (Thunder Bay: Centre for Northern Studies, Northern and Regional Studies Series, volume 1, 1991), 235pp.

Dr. Min-sun Chen, Professor Emeritus and Sessional Lecturer, Department of History, recently received special recognition for his distinguished contributions to Asian Studies in Canada from the East Asia Council, Canadian Asian Studies Association (CASA). At the 1991 Annual Conference of the East Asia Council held at Brock University, October 4-6, Dr. Chen was honoured and awarded a gift of appreciation for his co-editorship of the following three CASA books: *China Insight* (1985), *East Asia Insight* (1988), and *East Asia Inquiry* (1991).

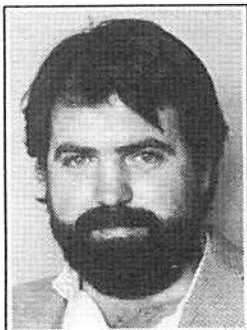


The *East Asia Inquiry* contains Dr. Chen's lengthy article on Dr. Norman Bethune in China as well. A condensed version of this article had appeared earlier in the February 11-17, 1991 issue of the *Beijing Review*, the leading English weekly published in China. During the conference at Brock University in October, Dr. Chen also presented a paper entitled "Dr. Richard F. Brown, Bishop Ronald O. Hall and the Failed Western Missionary Attempt to Influence the CCP, 1938-1939."

Dr. Bill Morrison and **Dr. Margaret Johnston** of the Centre for Northern Studies received a Canadian Studies Research Tools Grant of \$26,650 from SSHRC for their project entitled "Inventory of Archival Resources in Northwestern Ontario." The Northern Tourism conference held at Lakehead University in September attracted 42 participants, 15 of whom gave papers. Lakehead Faculty who gave papers were: Professor Robert Dilley, "Thunder Bay Tourism: Opportunities and Attitudes"; Dr. Margaret Johnston, "The Myth of the North and Northern Tourism"; Dr. Bob Payne, "The Future of Remote Tourism in Northern Ontario"; and Dr. Dave Robinson, "Tourism Impacts in the Nepalese Himalaya: Lessons for Northern Canada". Dr. Wolfgang Haider, of the Centre for Northern Forest Ecosystem Research, Ontario Ministry of Natural Resources, presented "Effects of Timber Management on the Choice Behaviour of Tourists and Recreationists in Northern Ontario." The conference was organized by Dr. Haider and Dr. Johnston. The conference proceedings, which will be refereed, are to be published by the Centre for Northern Studies in about eight months.

Publications

continued from page 7

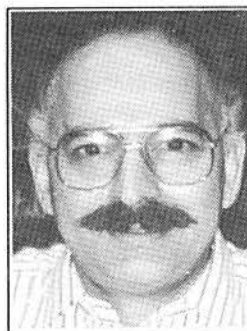


Professor Bruce Muirhead has recently had his book, *Canadian Trade Policy, 1945-57: The Decline of the Anglo-Canadian Option*, accepted for publication by McGill-Queen's University Press. His paper presentation at the Canadian Historical Association meetings of the Learned Societies Conference this past June, "The Politics of Food, 1947-48: The 1947 Anglo-Canadian Food Negotiations as a Case Study in the Disintegration of a Relationship", as chosen

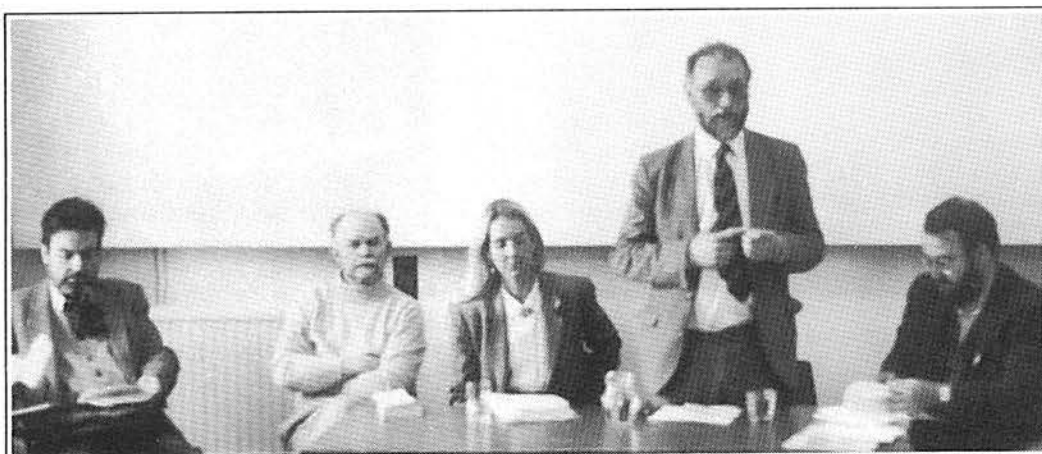
by the CHA as one of the twelve best presented and is included among those being published by the Association in the *Journal of the Canadian Historical Association*. He has also had an article, "Canada, the United States and the 1954 GATT Review Session: A Clash of Perceptions", accepted for publication in the country's top-ranked History journal, the *Canadian Historical Review*. As well, he has an article coming out in the January 1992 edition of the *British Journal of Imperial and Commonwealth History* entitled "Canada, Britain and the Collective Approach to Freer Trade and Currencies, 1952-57". Finally, Professor Muirhead had his article, "Perception

and Reality: The GATT's Contribution to the Development of a Bilateral North American Relationship", published in the *American Review of Canadian Studies*, Vol.20, 1990.

With respect to paper presentations, Prof. Muirhead presented "The Decline of the Anglo-Canadian Relationship During the 1950s" at the British Association of Canadian Studies Conference held at the University of Nottingham, England in April 1991. As well, he gave the paper mentioned above at the Learned Society in June 1991. Finally, together with Prof. McBride of the Political Studies Department and Kjell Lundmark of the University of Umea, Sweden, their paper, "The Politics of Exclusion", was selected as an official paper at the International Political Science Association meetings in Buenos Aires, Argentina in July 1991.



Dr. S.Y. Mansour, Associate Professor of Electrical Engineering, presented a paper entitled, "Power Systems Economic Bus Voltages by State Estimation", at the Canadian Conference on Electrical and Computer Engineering which was held in Quebec City, September 24-27, 1991.



Members of the international panel from left to right, Owen Dudley-Edwards (University of Edinburgh), Ken Mitchell (University of Regina), Elspeth Cameron (University of Toronto), Ged Martin (Director, Centre of Canadian Studies, University of Edinburgh, standing), and Professor Nock. The proceedings of the conference are to be published by Dundurn Press of Toronto and the editor is to be R.B. Fleming who helped in the organization of the conference.

Professor David A. Nock presented a paper entitled "E.F. Wilson and the Social Construction of Text", at the international colloquium held at the University of Edinburgh this past May 2-4. Dr. Nock was also invited to be part of a concluding panel on the nature of biological truth. The conference was hosted by the Centre of Canadian Studies and its theme was Biography and History in the Canadian and Irish Contexts.

Noticed Any Spots?



The AGORA is pleased to announce that it has gone green! This means that due to imperfections in the recycled paper, tiny flecks may appear throughout text. The university is currently investigating ways to initiate "blue bag" paper recycling but in the meanwhile, individual offices or departments may wish to initiate their own recycling programs.

Acting Herbarium Curator Safeguards Vision

The word herbarium is derived from the Latin word *herbun* originally grass later, an edible plant. An herbarium was a place or cabinet where dried plants were kept. Originally, they would have been for culinary or medicinal purposes. In the medieval monastery it was a repository for medicinal herbs and, as the early botanic gardens were associated with the art of the apothecary, the term herbarium became associated with their libraries of pressed plant specimens kept for reference purposes. Today, university departments, botanic gardens, museums, colleges, libraries and schools all over the world have herbaria to assist in teaching and research.

The Claude E. Garton Herbarium was begun by Claude Garton in 1933 as his personal collection. It was not until 1951 that he began to collect really extensively. He became well known in Canada and the United States as an expert on the plants of the Thunder Bay area, as a dedicated collector and for the production of exceptionally fine specimen sheets.

On his retirement as a school principal in 1967, he donated his collection, by then over 10,000 specimens to Lakehead University. He became curator of the herbarium which was named for him. He was later awarded an honorary doctorate. He continued to collect plants

until 1989. Often, he worked on research projects over the summer for various agencies. These took him to different parts of Northwestern Ontario and increased both the size and value of the herbarium holdings. He also collected replicates of each numbered sample which were exchanged for plants from other herbaria round the world. Thus increasing the size and diversity of the collections which now number over 97,000 and include bryophytes, lichens and pteridophytes as well as flowering plants. His specimens may be found in the National Herbarium of Canada, the Royal Ontario Museum, many Canadian universities and, as far afield as the University of Helsinki and New Zealand.

Claude retired due to ill health in the spring of 1990, although he still enjoys getting out and naming every plant he sees. In December 1990 a committee, drawn from the Biology and Forestry departments, was formed to direct the activities of the herbarium in future. In January 1991, Joan Crowe was appointed acting curator. The committee has decided to concentrate on the regional aspects of this herbarium - serving the needs of Northwestern Ontario between Lake Superior and Hudson Bay.



Acting Curator Joan Crowe

Lakehead University founds Northern Educational Centre for Aging and Health (N.E.C.A.H.)

Lakehead University's Northern Educational Centre for Aging and Health was established on September 1, 1991. The new office is the outcome of collaboration between Lakehead and McMaster Universities in the field of gerontology and is funded and supported by McMaster's Educational Centre for Aging and Health until September 1993. After that time N.E.C.A.H. will continue independently.

The mandate of the Northern Educational Centre is:

- * To support collaborative activities in gerontological education and research among Northwestern Ontario educators, researchers and direct practitioners.

- * To facilitate ongoing academic and clinical exchange with McMaster University's Educational Centre for Aging and Health and other centres of expertise in geriatrics and gerontology.

Goals of the Centre include:

- * the establishment of a clinical Teaching

Unit in Northwestern Ontario

- * sponsoring and organizing a gerontology conference in 1992

- * developing an interdisciplinary research program in gerontology

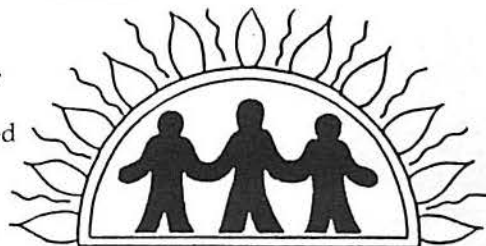
- * providing administrative support for the Lakehead University

Gerontology Study group, an interdisciplinary group of 15 faculty members

The Centre is staffed by a full-time Director, Mary Lou Kelley and a part-time secretary, Julie Wojciechowski. Mary Lou is an Associate Professor at Lakehead University and has been a member of the Department of Social Work since 1980. Prior to that she worked as a medical social worker in an acute care setting.

The proceedings of the very successful Gerontology Forum '91

held in Thunder Bay on May 8, 1991 will be available soon from the Centre office. This 200 page report includes a panel presentation, poster abstracts, research papers and the report of a workshop on clinical Teaching Units. Presenters were from Northwestern Ontario and McMaster University. The Forum publication should be of interest to educators and researchers interested in familiarizing themselves with gerontological practice, research and education in Northwestern Ontario.



Forum

At Home in the Serengeti

Editor's Note: LU Alumni Rob Foster and wife Lana Bresele are having the time of their lives. Rob penned off a note to the Information Office recently. He is on hiatus from Oxford University, doing field research in Tanzania.

Here in the Serengeti ecosystem of East Africa my wife Lana Bresele and I are a long way from our roots in Thunder Bay, and even farther removed from conventional, urbanized life. For the past year and a bit, we have been living in our tented camp on the border of Tanzania's Serengeti National Park and Ngorongoro Conservation Area while I conduct field research for my postgraduate degree in zoology.

Our camp in the *Acacia* woodlands surrounding Lake Ndutu, borders on comfortable, depending on the definition. Home consists of a 9' x 13' canvas universe which is a bedroom, office, lab and garage tent all in one. A solar panel lights up our nights, and powers the laptop computers on the office side of the tent. A well-travelled 1972 Woods tent serves as our kitchen although, weather permitting, we cook and dine out of doors. "We" also includes Ally Kitangwa, the one-man gang, who acts as field assistant, cook, Swahili instructor etc., and appropriately sleeps in a 4-man nylon tent. With most "modern" amenities inconspicuously absent, we have adapted to the local environment. Rainwater collected off the tents and stored in drums serves as our source

of potable water, and an adequate supply of diesel fuel had to be trucked in at the start. With no refrigeration, fresh produce must be brought in every couple of weeks from the nearest village, whereas we go to the nearest town for dry goods only once every 6 weeks or so since it is a 6-7 hour drive to get there.

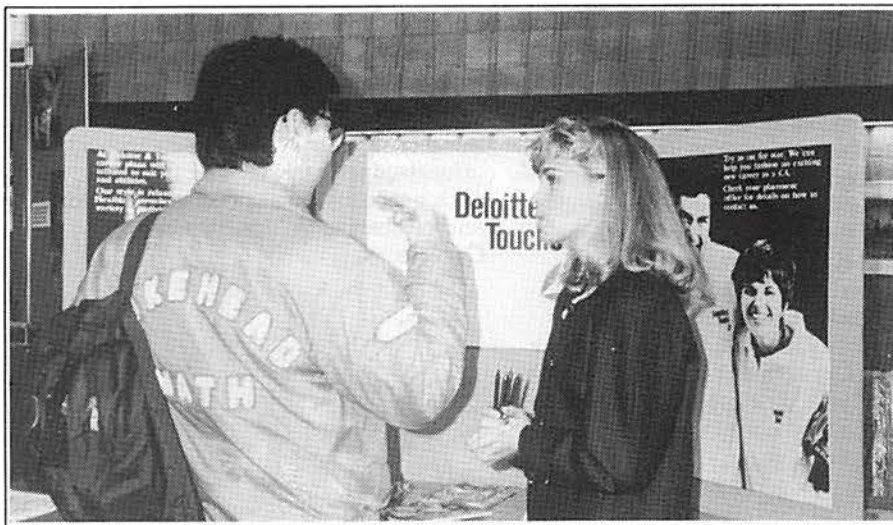
What we lack in luxuries however, our surroundings make up for in excitement. Four inch long scorpions and 8 foot cobras make for interesting trips to the biffy at night, especially when the flashlight batteries run down. Spotted hyenas frequent our camp almost every night but are much less dangerous than the four lions who came for dinner (we had to chase them off with the Land Rover and a spotlight aimed at their eyes). Not all our visitors are "nasties", as we have mosque swallows nesting under our tent's verandah and diminutive dik-diks which mark our camp with their territorial dung heaps. As a result, I usually have little trouble finding the dung beetles which are my subject of study and ticket to fame and big money. And the valley which our camp overlooks is often filled with a variety of wildlife; from noisy guinea fowl which look like animated bowling balls when they run, to elephants which definitely act with a little more self-respect.

Situated as we are in the middle of 25,000 square kilometres of protected wild lands, we are above all very fortunate to be able to witness a biological spectacle which has no other equivalent left on earth. The Serengeti ecosystem supports over 25 species of

large, herbivorous mammals but none nearly so abundant as the wildebeest. With over 1.5 million crowding onto the short grass plains near our camp during the wet season, they dominate the landscape. When surrounded on the plains by the overwhelming mass of hoof and horn, one cannot help but feel insignificant. And saddened as well. As impressive as 1.5 million wildebeest are, I can't help but think of what the Great Plains of North America must have looked like when the estimated 60 million bison and 30 million pronghorn antelope blanketed them. Those multitudes are gone forever. For that matter, about one quarter of the endangered birds and mammals in Canada are found in the prairie provinces, and undisturbed prairie is one of the most endangered habitats in Canada*.

It is a tribute to the far-sightedness of the Tanzanians that they have managed to preserve the Serengeti despite the many pressures to develop it as we did our grasslands. In comparison, one of the best patches of tall-grass prairie left in Canada is only about 10 hectares in size and is found within Winnipeg's city limits*. Even more worthy of respect is the fact that more than 11% of Tanzania enjoys protected status, a figure endorsed as a guideline by the United Nations Environment Program. Canada's National Park System encompasses 1.8%. Considering all the advantages Canada enjoys, economic and otherwise, we still have a long way to go in protecting our natural heritage.

*Monte Hummel. 1989. *Endangered Spaces*. (Toronto: Key Porter Books Limited), pp. 280.



The International Association for Students in Economics and Commerce (AIESEC) presented Career Day 1991 on Wednesday, October 23 in the university Agora. National and international companies representing the banking industry, government, business, forestry and many others met with potential LU grads to discuss their job futures. It was especially gratifying that many recruiters were our own LU graduates.

Report from the President

Continued from page 2

Financial Resources

This category of four parameters focused on residence space, student services, scholarships and operating budget. These are important parameters and, again, Lakehead University ranked overall in the 14 to 31 range and, on a provincial basis ranked 10th, 5th, 4th, and 5th respectively. (The relative ranking of Ontario, in general, as 9th in per student funding is noteworthy and indicative of the Ontario underfunding problem in general).

Reputation

This section involved two components, the Presidential Ranking and another parameter that related to the percentage of foreign and out-of-province students. I have commented earlier on the Presidents' ranking and would only suggest that, if this effort is done another year by Maclean's, at least they should supply the Presidents with the statistical data base in order to assist in the ranking. The approach this year broke every rule in survey research. The second parameter, related to percentage of foreign/out-of-province students, is

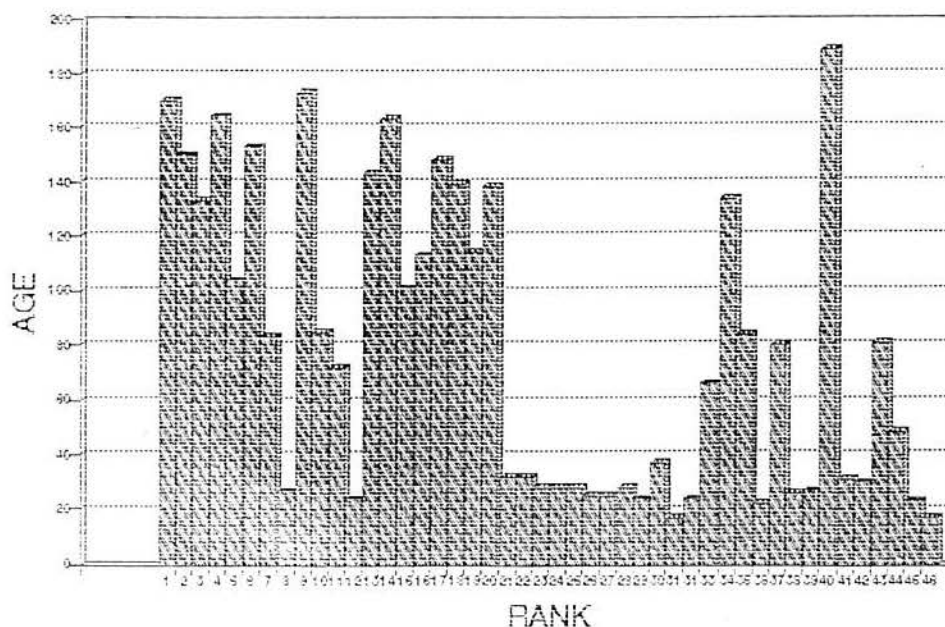
highly misleading particularly when you look at the nature and role of various institutions and the motivations for students to attend out-of-province institutions (for example, low tuition fees).

An interesting observation has been made about the Maclean's ranking and the "age" of the institutions. To the extent that age influences the perception of excellence, Maclean's might have saved the institutions a lot of work and ranked by age as shown in the table.

Personally, I feel Maclean's missed the boat by not putting more focus on the diversity of youth within our university system. As well, they have fallen (probably for budget reasons) into the "urban" trap which is all too common in Canada. If revisited in future years, I would encourage Maclean's to spend enough investigative journalism money to really try to get the "pulse" of the institutions.

In summary, Stuart Smith gets an "A" rating for a job well done, Maclean's gets a "C-". More effort is required next time.

MACLEAN'S UNIVERSITY RANKING
INSTITUTION AGE VERSUS RANK



- 18 of the first 20 institutions are over 50 years old
- 15 of the first 20 institutions are over 100 years old
- of the remaining 26 institutions, only 6 are over 50 years old
- of the remaining 26 institutions, only 2 are over 100 years old

Last Writes

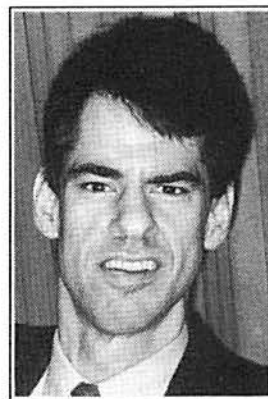
by Katherine Shedden

Norman Kunc is a most interesting man. He has style - and passion. I've never heard the term "the right to be disabled", or "help is a 4-letter word" but Norman has a good repertoire of one-liners to help get his message across. Brought to campus by the Learning Assistance Centre, Kunc is a seasoned speaker who gives presentations and conducts workshops dispelling myths about the needs of the disabled population. And he can talk tough when he needs to. Why doesn't he support Telethons? "Screw wheelchairs, we need jobs!" he argues.

Kunc is the author of *Ready, Willing and Disabled* and is working on a second book about rehabilitation. Norman's own advocacy actions for persons with disabilities began when he realized "that segregation programs maintain the prejudices, and perpetuate the myth that we are different but with rehabilitation we will get better, which translates to 'normal like us'." From that understanding Norman began to argue that he had a right to be just who he was, that his disability did not diminish his "personal worth".

I especially enjoyed being reacquainted with Maslow's hierarchy and hearing Kunc talk about the importance of the feeling of connectedness, the sense of belonging. Kunc challenged the university administration to investigate how it contributes to society, not just how many graduates it can punch out each year. Kunc passionately believes that by making universities more accessible to people with all kinds of disabilities, the entire society will benefit not only the individuals attending. Quoting Plato, and sprinkling his talk with anecdotes, Kunc delivered his message with a plea to get rid of labels, move away from valuing perfection and start to recognize the

inherent gifts in each individual. "Admiration doesn't necessarily mean equity", he told the audience. "Never underestimate the abilities of people with disabilities".



Campus Calendar

To include your Department's event or activity in the Campus Calendar, please call the Information Office at 8300 or mail your information to SN1002. Deadline for the December Agora is November 18, 1991.

CHANCELLOR PATERSON LIBRARY HOURS

Monday to Thursday 8:00 a.m. to 11:30 p.m.
Friday 8:00 a.m. to 9:00 p.m.
Saturday 9:00 a.m. to 9:00 p.m.
Sunday 11:00 a.m. to 10:00 p.m.

NOVEMBER

Thursday, 7

FREE PUBLIC LECTURE

Speaker: Gwynne Dyer
Topic: After the Wars
Upper Lecture Theatre
8:00 p.m.

Wednesday, 20

2:30 p.m.
Senate Meeting (Approval of Graduands)

Friday, 22

Program Day '91
1:00 pm to 3:00 pm
Bora Laskin Building

Monday, 25

FREE PUBLIC LECTURE

Speaker: Professor Joan Dolphin
Topic: Multiple voices, Multiple Truths? An Exploration of Michael Ondaatje's, In The Skin of the Lion.
Ryan Building, Rm 1022 - 7:30 p.m.

Food Drive to support Shelter House / Thunder Bay

Friday, November 29
7:00 pm
C.J. Sanders Fieldhouse
Nor'Wester Wrestling Team vs. the University of Western Ontario Mustangs
Benefit dual meet
Non-perishable foods and donations

1991 VARSITY HOME SCHEDULE

November

November 1-2
Pizza Hut Men's Basketball Tournament
Women's Basketball vs. Brandon
November 3
Women's Volleyball vs. Sheridan College 10:30 a.m.
November 8-9
Women's Volleyball vs. Wilfrid Laurier 7:00/7:30 p.m.
Men's Basketball vs. Northland College 9:00 a.m./2:00 p.m.
November 15-16
Women's Basketball vs. St. Scholastica 7:00 p.m.
November 27
Men's Basketball vs. St. Scholastica
November 29
Wrestling vs. Univ. of Western Ontario 7:00 p.m.

Thunder Bay Art Gallery

October 18 - November 17
Recent Acquisitions
TBAG

October 11-November 10
Barbara Hepworth: Sculpture and Works on Paper
Art Gallery of Ontario

October 11-November 6 and Nov. 21-December 15
Benjamin Chee Chee
TBAG

November 19 - December 15
Satyrs, Cardinals, and Beggars
National Gallery of Canada

November 20 - December 15
Extension Services, Art Gallery of Ontario

The Thunder Bay Art Gallery is offering tours to interested groups. Whether your group be from a public school, a high school, a special interest group or an organization with specific needs. The Gallery's education department can plan a tour that fits your requirements. Contact the Education department at 577-6427.

Cornwall Concert Series 1991/92

All Concerts are held in the Recital Hall, 210 S. Algoma St. and are on Tuesdays at 12:30 PM unless otherwise noted. Tickets are available at the door.

November 5

Lubomyr McNyk, piano (Sweden). Co-sponsored by Definitely Superior Art Gallery, assisted by the Ontario Arts Council and the Canada Council. \$5.00

November 12

Victor Schultz, violin; Erica Schultz, piano (New York). \$5.00

November 19

8:00 p.m.
The Gents (Toronto), vocal sextet. \$8.00

Agora

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Director of External Relations:
John Russell,
Editor: Katherine Shedden
Assistant: Denise Bruley
Calendar: Lynn Spenceley
Photography: Peter Puna
Graphics: B. Kaminski
Printing: Rainbow

Address correspondence to:
Editor/Agora
Information Office SN1002
Lakehead University
Oliver Road, Thunder Bay, Ontario,
P7B 5E1
(807) 343-8631 or 343-8300
FAX 807-343-8192

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