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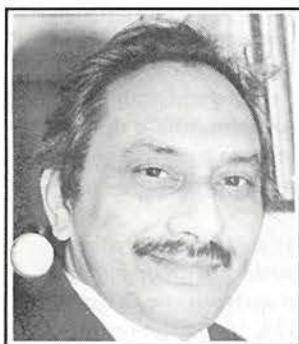
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Lakehead University Agora

THUNDER BAY, ONTARIO VOL. 6 NO. 3 MARCH 1989

Sarbadhikari appointed to Centres of Excellence

Dr. Pradip Sarbadhikari, a professor of political science, has been appointed to the Canadian Centres of Excellence Committee. He has attended a few meetings in Ottawa, but



"things are in the early stages," he said. The committee is busy setting out criteria for selection. "The panel will assess proposals made by universities for funding under this program."

Sarbadhikari estimates that eight to 10 Centres of Excellence will be created with the help of the Canadian International Development Agency. "CIDA will make available \$10 million to aid

in their creation," he said. These centres will be established at universities with "world class standing in teaching, training and research in international development."

This type of project could "strengthen Canada's capacity to respond imaginatively to the opportunities and challenges in this respect," he said. Areas of interest include geography, agriculture, environment, education, and development studies.

His interest in international development is keen, in part because he spent his early years in India. "On the question of development in the Third World, critical questions have been raised as to whether the types of development pursued in the 50's, 60's and 70's should be changed," Sarbadhikari said. CIDA has become involved with "self-sustaining growth as a strategy of development projects."

"Human resources are the most valuable resources in those countries," he said, commenting that "material goods are not the most important thing; relationships, families and people are (the) most important."

"Development has to be very carefully done because of (possible) social and cultural costs," he said. "At the same time there is no denying the need for technology." He noted that it's a matter of priorities since one must weigh ecological and environmental concerns, economics, and human and social costs.

Sarbadhikari is a graduate of the London School of Economics and has served on the board of Canadian Association of Asian Studies.

Research, teaching awards given

Three professors have been accorded distinguished awards by Lakehead University Senate committees.

Dr. Penny Petrone has been given the Distinguished Instructor Award for 1988/89 by the Senate Committee on Teaching. Dr. Roger Mitchell and Dr. Inderjit Nirdosh share the Distinguished Researcher Award for 1988/89, as decided by the Senate Research Committee.

Professor Geoffrey Weller, Vice-President (Academic), announced the awards last month after accepting the recommendations of the two committees. Both awards come with grants of \$3,500 to help the recipients in their work. Weller has issued an invitation to each of the winners to give a public lecture on a topic of their choice.

Dr. Penny Petrone, professor in School of Education: "I'm delighted," she said of her award. She said it means a great deal because she has spent "a lifetime trying to be the best teacher I can be." She has been a part of the School of Education since 1969. Petrone recently published a book, *Northern Voices*, which is a collection of Inuit literature. This follows her successful *First People, First Voices*.

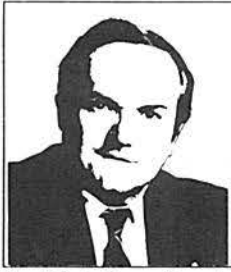


Dr. Inderjit Nirdosh, professor of Chemical Engineering: "This is a very big encouragement," he said. "But this is a recognition of all of us, not just myself." Nirdosh said "research is never a one-man show -- it's always teamwork." He joined the University in 1981 and has been involved in researching the processing of uranium ores to separate and monitor radioactive substances.

Dr. Roger Mitchell, professor of Geology: "This is a useful recognition of one's work," he said. "In a university environment there should be some form of recognition." Mitchell has been with Lakehead since 1972. His area of research is the petrology and geochemistry of kimberlites and alkaine rocks. His research has both scientific and economic implications.



Report From The President



Dr. Bob Rosehart

Many thanks to readers who identified a critical "not" word processed out of my last month's article. To repeat: "The shortcomings of the American (or Connell) system of social inequality of accessibility and highly variable academic standards are aspects that I would not wish on any future generation in this province."

Lakehead's Minaki

Some of you will realize that Lakehead University is in possession of a "research facility" located at Black Sturgeon Lake about 90 miles from the campus. About 10 years ago, the facility was mothballed and has seen very limited and specialized use since then. Most people who visit the facility (including myself 6 or 7 years ago) feel that it has potential but distance and priorities have always placed the facility on the back burner. If Black Sturgeon is to have a future, the institution is going to have to become pro-active in terms of dealing with the place, and specific uses will need to be identified that relate to our various academic programs. I propose to set up a Black Sturgeon Study

Below left: Lakehead University's own Minaki. The search is on for a study group to look at 'Minaki's' potential. Below right: The proposed structure for the new Student Centre.



Group that would report to me by the end of the summer with specific recommendations. If you are interested in serving, please give Linda Phillips a call.

Campus Development

(a) Residence

The first floors are completed on most of the units, and I expect that by the time you read this article, the second floors will be visible. Work has progressed well in spite of the cold weather.

(b) Forest/Biology Building

Tenders for the much simplified re-designed building are currently out for tender. A decision on this project is expected by the end of March.

(c) Student Centre Complex

The proposal I mentioned in this column last month is currently under discussion as a referendum question for this year's L.U.S.U. elections. The concept under consideration is shown below.

Academic Undergraduate Review

It is encouraging to see many schools and departments reviewing and updating their curricula. In some programs, this has created a tremendous amount of good, healthy academic debate. In the end, our future generations of students will benefit from your long and exhaustive meetings.

Passings

During this past month, John Spence

and Eleanor Hrynyk, two valued employees of Lakehead University passed away. The sadness and grief that accompanies death is difficult to express and influences each one of us in a different way. One of the strengths of this institution is its family environment which, at times like these, includes the sharing of grief.

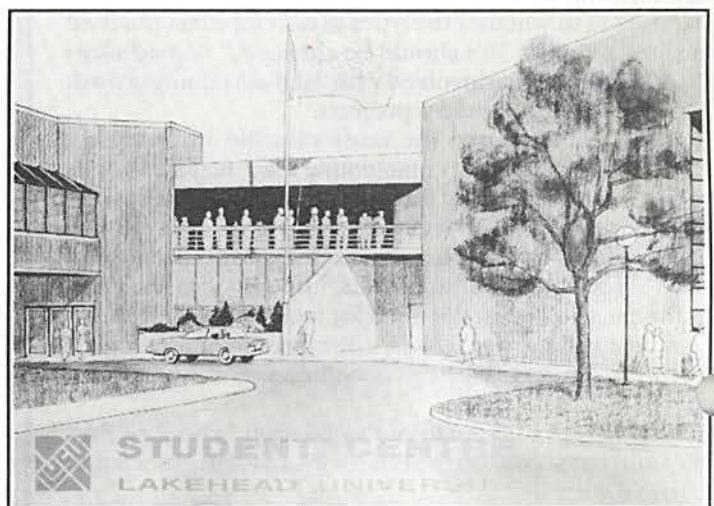
Northern Studies: Logo design contest

The Centre for Northern Studies would like to announce a logo competition. The competition is open to individuals and agencies both on and off campus.

The Centre's activities will focus on the following areas: Northwestern Ontario, Northern Ontario, the North of other Canadian Provinces, the Circumpolar North and the High Arctic. Themes that would be applicable for the logo include the northern perspective, interdisciplinary studies and research. Northern research streams that are being developed by the centre are environmental studies, service delivery and economic development. The research program will emphasize regional applicability within Northwestern Ontario.

The artist who submits the winning logo will be awarded a prize of \$500. Submissions must arrive at the Centre by 4 p.m. on March 22, 1989. The proposed logo should be submitted on a standard sheet of paper or card, 8 1/2 x 11. Applicants may submit more than one design for consideration. All submissions will become the property of the University to use at its discretion.

Further information on the Centre's activities can be obtained by calling 343-8360.



Hidden treasures

...down in Davey Jones' Locker

Deep in the recesses of Lakehead University is Davey Jones' Locker -- a place where a dying art is practised.

Davey Jones is the University's resident glass blower. With slow, but sure, movements he works with fire to bend glass to his will.

"I didn't come here to do this, you know," he said. "I came to be chief technician in chemistry." However, when Ken Sumpter, the original glass-blower, retired, Jones' talents were called on. Jones has been the University's master of glass for the past 11 years.

He hesitates to call himself a glass-blower. "Glass-blowing is a bit of a misnomer," he said. One can work with glass without necessarily blowing-glass.

"I started doing after doing this after I went to serve his late Majesty," he said. After serving in the Navy he joined a glass factory in Birmingham, England and became an apprentice. "They had three chaps there...who were born, I think, with a piece of glass in their mouth and they taught us."

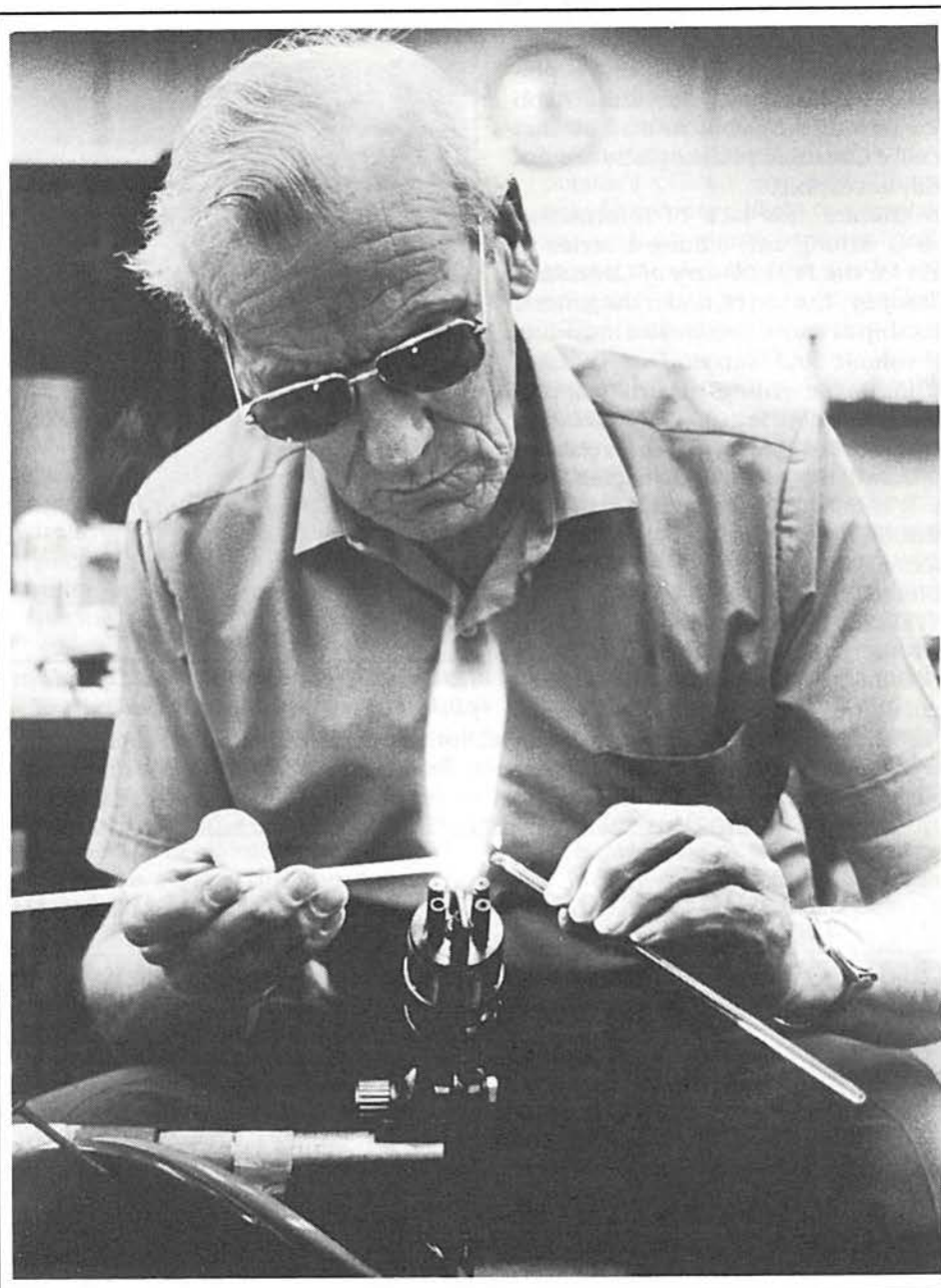
The process of learning this art took about five years, but "you never finish learning any job," Jones said. "I (was) 22 when I started and I'm 64 now. That's about 40 years."

Glass-blowing is not the easiest of crafts to learn. He noted that if there were 20 students in a class, perhaps 10 would return after a coffee break. If even one person returned the next day, that was considered a good turnout. "People were afraid of the fire," he said. Jones sports several fine white scars on his arms -- souvenirs of incautious movements near the flame.

"It's tedious to start and you have to stick with it," he said. One must repeat a particular procedure for weeks before moving on to something else. "But I tell you, you never forgot that step."

As with any precision work, "you've got to have a lot of patience," Jones said. "You've got to have a particular frame of mind: if it breaks, it breaks." Jones jokes that, when glass is brought in to be repaired, he tells people "I'll either fix it or break it worse."

Jones has done custom work for the scientific community at Lakehead, creating everything from tubes to jars. However, much of what was once hand-crafted can now be found in sets sold by such companies as Corning. "Glass at one time



Master of glass: "You have to let your left hand know what your right hand is doing," said Davey Jones, Lakehead's glass-blower. He said the largest pieces one can comfortably do by hand is two-inches; anything larger must be done on a special lathe.

was one of the cheapest man-made materials," he said. Costs today are sky-rocketing.

"You'll find a few specialty workshops but outside of those, it's only in places like this where you find it's still being done by hand," he said. "Unfortunately, it's a dying art."

Jones' talents are not restricted to meeting scientific needs. In just a few minutes, he can create ducks and geese

in flight, and fragile swans. Carefully unwrapping one of his treasures, he reveals a small boat in a glass bottle. "This is a little something I did," he said. "To do this you need a growing boat -- not a rowing boat but a little growing boat. You drop it into the bottle and wait 'til it grows to the right size."

Truly, the magician of Davey Jones' Locker is in a glass by himself.

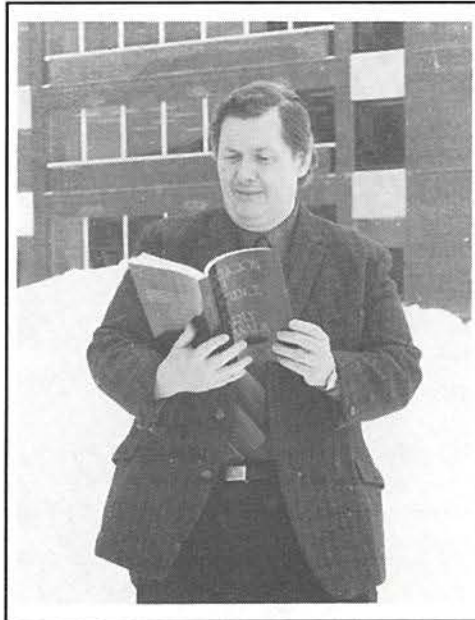
New series to fill gap in access to Canadian philosophy

Canadian universities have been "ignoring our intellectual heritage," said Dr. Douglas Rabb, Chairman of the Philosophy Department at Lakehead University.

"Early Canadian philosophy has been largely ignored by contemporary philosophy departments," he said. Rabb noted part of the problem may be that works of Canadian philosophers are not readily accessible.

To counter this lack of information Rabb is writing and editing a series of books for the *Frye Library of Canadian Philosophy*. The series, under the general editorship of Rabb, contains an introductory volume and subsequent volumes focusing on the writings of particular philosophers. "There are uniquely Canadian philosophical theories on the relationship between science and religion," he said. It is this uniqueness that may have contributed to the view of Canadians as peacemakers.

Volume 1, *Religion and Science in Early Canada*, is now available. According to the write-up on the book: "This work is intended, in part, as a general introduction to the *Frye Library of Canadian Philosophy*. This volume presents selections from the works of a number of early Canadian thinkers centred around a common theme, the impact of science on the religious beliefs of the day. The introductory essays in this volume locate the selected



Douglas Rabb, a Northern Canadian philosopher – his book, snow and all.

work in relation to the philosopher's thought as a whole, and present a preliminary analysis of that thought."

Rabb said his original idea was for only one book, not a 10-volume series. "Several years ago I approached a publisher with a particular volume in mind," he said. "The publisher suggested a series might be more useful." They devised a series on early Canadian philosophy (1850 to 1950). "The book I actually proposed will be volume 2, which is now at press," Rabb said. The book centres on William Albert Crawford-Frost (1863-1936). Rabb will also write volume 6 on Herbert Leslie Stewart (1882-1954).

"I'm trying to republish the works of these early Canadian thinkers," he said. "Their books are not available at all." Rabb hopes his work will help spark a renewed interest in the works of early Canadian philosophers.

The series is a reference for those wishing to study Canadian philosophy. "LU is one of four universities in all of Canada that offers courses in Canadian Philosophy," Rabb said. "The other three (universities) are Ottawa, Acadia and Carleton."

Referendum to decide fate of Student Centre: LUSU president

Lakehead University's student union has decided that the proposed Student Centre has been under discussion long enough -- it is time to decide the Centre's fate.

Roch Letourneau, LUSU president, said the general election on March 7 and 8 will include a referendum question on whether to go ahead with the construction. He expressed confidence that the students will "respond with a resounding 'yes,'" he said.

According to a feasibility study conducted by Fraser Browne Architects and revisions by the Student Centre Committee, the project has been divided into two phases and will cost about \$3 million.

Phase one will see the construction of a licensed Main Events Hall with a capacity of more than 500 people, a new office for the Argus, construction of an Atrium between the existing Study and Main Events Hall and installation of an elevator in the stairwell adjacent to the Study.

Phase two includes renovating the

Study to a quiet bar and study area, conversion of the Games Room to a music listening and TV lounge, and the conversion of the Bookstore to LUSU offices, Resource Centre and Information Centre.

To help finance this project Student Centre fees would be increased by \$5 per course in 1989-90 and an additional \$5 per course in 1990-91, up to a maximum of five courses per year. This could see the fee jump from the present \$25 to \$75 in two years. Letourneau said this would yield the funds needed to finance a mortgage towards the Centre.

If approved, construction could begin as early as the fall of 1989. If the proposal is turned down, then it is possible the project will never be completed. "If it doesn't fly this year, then we could kiss it goodbye," he said.

President Bob Rosehart said if the Centre is not started soon, students may never be able to keep on top of the rising construction costs.

Letourneau said the fate of the Student

Centre rests with the students who vote March 7 and 8.

Nock's book gets publication boost

The Executive Committee of the Canadian Federation for the Humanities has approved a subvention of \$3,243 to assist the publication of *A Victorian Missionary and Canadian Indian Policy, Cultural Synthesis vs. Cultural Replacement* by Lakehead University professor David Nock.

Nock's book was published late last year by Wilfrid Laurier Press. *A Victorian Missionary* covers the life of E.F. Wilson, who was a forerunner in Canadian Indian policy.

Lakehead appoints University's first Ombudsperson

Lakehead University graduate Mary Jane Slater is the first ombudsperson appointed at the University.

Slater found help in setting up Lakehead's office at a recent eastern division meeting of ombudspersons. "It was



Mary Jane Slater

parity in the handling of various situations but feels that "what is being done here is the best way for Lakehead University to approach putting this office in."

The two-day conference "solidified my view of what this office would and should do for this University," Slater said. "It solidified my belief that the office must work with what is in place at Lakehead University."

"Having the ombudsperson responsible to a committee is the most effective way," she said. The committee has representatives from different groups on campus. In this way the ombudsperson is not identified with only one particular group, which "helps with perceived neutrality," Slater said. "The office is able to help anybody but is not an advocate of one particular group." Slater sees neutrality as one of the most important aspects of the office because complaints and requests for help can come from any person within the University.

Slater has owned several businesses and was a photographer. While living in Victoria, B.C., she owned a business before deciding to return to Thunder Bay. Once here, she made the decision to attend university. Slater graduated last year with an HBCommerce and was appointed to her position January 1989.

Slater is enthusiastic about the office. "Initiation of the Ombudsperson's office

indicates a desire of the university to ensure fair treatment of its members and to recognize their unique problems," she said.

The office of the ombudsperson will mean "fewer formal expensive grievance procedures because of informal resolution through the ombudsperson's office," she said. "Because people are more likely to complain to an ombudsperson sooner and in greater numbers he/she may be able to prevent situations getting out of hand."

The ombudsperson helps co-ordinate the efforts of the complainant to resolve his complaint. Often problems arise because the person complaining is new to the university and is not familiar with the rules and regulations, Slater said. It is also possible that the staff of one area of the university may not be familiar with rules and regulations in another area. She noted that few students are aware of grievance procedures. "The ombudsperson office will fill a need for neutral, confidential, impartial information," Slater said.

Mary Jane Slater is temporarily located in the Black Shack and can be reached at 343-8061. Office hours are as follows: Monday 2:30 to 7:30 p.m.; Tuesday 8:30 a.m. to noon; Wednesday 2:30 to 7 p.m.; Thursday 8:30 a.m. to noon; and Friday 2:30 to 4 p.m.

Obituaries

Mr. John Leo Spence, age 56, died unexpectedly on Monday, February 13, 1989. John had been at Lakehead University in the Purchasing Department for the past 4 1/2 years. Prior to that he had been employed with A & P for 28 years. A native of Sexsmith, Alberta, John moved to Timmins in 1945 and the Lakehead in 1956. The University community sends condolences to his entire family, especially wife, Catherine, daughters Debbie, Kathleen, Susan, Nancy, Corinne, Colleen and Maureen.

Mrs. Eleanor Hrynyk, age 60, died Saturday, February 18, 1989 after a long illness. Born and raised in Fort William, she had been a bookkeeper prior to 1970 when she began her career at Lakehead University. She was employed as an accounts payable clerk and moved up the ranks to accounts analyst. Eleanor will be remembered for her helpfulness and beautiful handcrafts. Heartfelt sympathy is extended to her family.



Three young women attending the career symposium took advantage of Gregory Sorbara's attendance to obtain an autograph. It was a rather special signature for Joan Post, right, who was a legislative page last year and was missing only his name. Cailin Nelson is on the far left and behind her is Kathryn Grace, a Rotary Club Exchange student from South Africa.



Career Options For Women

A 2-day career information fair is held in the Agora on February 8th and 9th. The Status of Women Committee secured funding to carry out Employment Equity Action Strategies for female students. According to the project coordinator, Jane Livingston, the primary goal was to develop awareness and support for increased contribution of women in professions presently dominated by men. More than 60 women from the community, representing more than 25 career options, participated in the event. Keynote speakers included, Gregory Sorbara, Minister of Labour and Sister Eva Solomon, SJ and Liz Poulin, special assistant to Lyn McLeod, Minister of Colleges and Universities.

What's a Woman To Do?

... Anything She Wants!



Nursing Professor Liz Diem (photo right) changed hats and took time to talk to students about her part-time occupation with the army reserve. She holds the rank of lieutenant-colonel and is the Commanding Officer of 18 (Thunder Bay) Medical Company. Another popular booth (photo left) was 'Women and the Law'.

Who?

The 16-year old lad in last month's column fooled a good many people but not Linda Phillips. For recognizing Don Lough, she has won a month's holiday in Hawaii. Don's our master technician in the machine shop - note the curls and friendly twinkle in his eyes.

This month's mystery couple are well-known figures around Lakehead University but here are a few hints:

- Florence Nightingale and Prince Charming, eh?
- A romance novel writer and the perfect hero (ine)
- A debutante and her "athlete of the year" escort
- Neil Sedaka and a famous country and western singer





Papers/Publications & Special Projects

Dr. Yves Prevost, School of Forestry was invited to address the Faculty of Forestry at the University of Toronto to give a talk on the Chemical Interactions between Trees and Insects on Oct. 3, 1988.

He was invited to address the Entomological Society of Manitoba annual meeting in Winnipeg on Nov. 4, 1988. The title of his talk was "Environmental Architecture-Planning for Spruce Budworm".

Recently a paper was accepted for publication in "The Canadian Entomologist" and its title is "Seasonal damage of insects and squirrels to female reproductive structures of black spruce, *Picea mariana* (Mill.) B.S.P.". Dr. Prevost is the senior author and the co-authors are Dr. J. E. Laing for the Department of Environmental Biology University of Guelph in Guelph and Mr. V. F. Haavisto from Forestry Canada in Sault Ste. Marie.

Alain Nabarra, Department of Languages presented an invited paper to the international colloquium on "The Press and the Revolution", held in Vizille, France, June 26 - July 3, 1988. This colloquium was organized by the Universities of Lyon and Grenoble, under the sponsorship of the French National Council for Scientific Research (CNRS), and was part of the official celebrations to mark the bicentenary of the 1789 French Revolution. It was held at the "Chateau de

Vizille", an XVIIth Century castle which has been converted into a museum dedicated to the French Revolution. Entitled, "La Presse coloniale devant la Revolution", my paper dealt with the role of the press in the revolutionary struggle in the French colonial territories. The main papers presented at the colloquium are in the process of being published in book form.

I have also been asked to serve as Canadian Correspondent for the "Societe francaise d'etude du XVIIIe siecle", replacing Professor J.M. Moureaux, from the University of Montreal, who is retiring this year.

Dr. Neil Weir, Chemistry, was one of the main invited speakers at the Polymer Degradation Symposium held at the Polytechnic University, Brooklyn, New York (January 26-28). His topic was "Long-wave Photo-reactions of styrene polymers".

Dr. K. J. Charles, Professor of Economics, presented a paper entitled "The World Economic Crisis and the New International Order" at the annual conference of the Indian Economics Association held in Calcutta, December 29 - 31, 1988. It is published in the Conference Volume of the association.

In a two-volume book entitled, "Indian Economic Issues", Dr. Charles has contributed one chapter in Vol 1, entitled, "North-South Relations: The Persisting Unequal Exchange". The book has just been released and is published by Pointer Publishers, Jaipur, India.



Dr. H. Rasid, Associate Professor, Geography, has published the following: 1987 "Geomorphic effects of flood-control channel works",

Bulletin of the Association of North Dakota Geographers, Vol. 37 (in press); 1988 "Urban floodplain management in Thunder Bay: protecting or preventing floodplain occupancy?", Canadian Water Resources Journal, Vol. 13, pp 26-42; 1988 "Morphologic response of flood-control channel works: Can it be predicted?", Papers and Proceedings of the Applied Geography Conferences, Vol. 11 pp. 105-117; 1988 **D. Baker and H. Rasid** 1988 "Coping with high lake levels and erosion in Park Point", Superior Advisory Note No. 26, pp. 1-4; **H. Rasid, R.S. Dilley, D. Baker, P. Otterson**, 1989 "Coping with the effects of high water levels on property hazards: north shore of Lake Superior", Journal of Great Lakes Research, Vol. 15 (in press); **H. Rasid and J. Hufferd**, 1989 "Hazards of living on the edge of water: the case of Minnesota Point, Duluth", Human Ecology, Vol. 17 (in press).

Fond Farewell Dinner

in honour of

Marg and Don Lough

at the Airline Motor Hotel

April 6, 1989

at 6:30 p.m.

Buffet dinner/Cash Bar

\$25/person; \$45/couple

*Tickets available March 15
from:*

*Susan Unger,
Biology secretary
8460;
Dr. Ozburn;
Gerry Hashiguchi.*

Visitors on campus



Continuing Education received some help last month from two workers from the Employment Training Centre. Seated are helpers Belva Conway and Bruce Sandberg from the training centre. Standing are Dan Pakulak, director of Continuing Education, Wendy Bons, secretary, and David Heald of the Training Centre.

Linda McKay

Linda McKay is an assistant professor in the School of Nursing. She graduated from the University of Saskatchewan with a basic degree, and received her Masters of Nursing from the University of Calgary. Part of that degree was done at the University of California at San Francisco. Linda's special area of interest is in pediatric oncology, in which she has a special studies diploma. Linda is doing research with a colleague into adolescent risk taking and health promoting behavior in Northwestern Ontario. She noted that this is the furthest east she has ever lived. "I've always been a westerner," she said. Now that she is here, Linda said she is looking forward to exploring other eastern areas, such as Ottawa and Quebec.



Cindy Frattolin



Cindy Frattolin has been on campus since May but in the School of Education since September. She is the secretary for the Co-ordinator of Field Experience. In this job, Cindy assists in placing students in schools for practice teaching. Away from work she has a number of interests to hold her attention. She is married and "if you consider pets kids, then I have two of them," she said. "I like camping, skidooning and all that good stuff." Cindy said she enjoys working with computers and meeting new people; "I guess that's why I like it here so much." "I'm a positive person," Cindy said. "I like to help people think positive and be happy." She firmly believes "there's always a way."

Bob Welsh

Bob Welsh is not exactly a new face in the School of Education. Since 1976 he has been involved in extension programs and, although he has taken a day job, he still teaches extension programs in Marathon on weekends. "It's a learning experience to be here," he said, "in every sense of the word." Bob is a product of Lakehead University's Teachers' College. He has two degrees from the University and did graduate work in Nashville, Tenn. "I've spent 26 Septembers in front of classrooms," he said. "There's only nine left until I retire." Bob is excited at the prospect of retirement. "I can hardly wait because then I can start a new career," he said.



David Wright



David Wright is the Academic Advisor in Computer Services. He offers assistance, and does some analysis and development assistance. This means "when you come to a part in a program where you don't know what it's doing, even though you wrote the program, I sort of nudge you in the right direction." David came to us from Melbourne, Australia. He graduated from Waterloo last May, joined SWAP and toured Australia. He stopped in Melbourne when the money ran out and got a job. "I spent four months playing games." Actually, his job was to test computer games. David is an aspiring writer who hopes to be published one day.

Patricia Jasen

Patricia Jasen has joined the History Department on a Canadian Research Fellowship. She arrived last July after a one-year stay in Calgary. Her three-year term combines teaching and research. Pat is studying the historic preservation movement in Ontario. Although she is doing some research at Old Fort William, she will be doing some travelling this summer to other parts of the province. "As with anyone who does lengthy research, you hope to write a book," she said. At the University she will teach both Canadian and British history. Away from work Pat keeps very busy with her son, family events and "a little bit of cross-country skiing."



Wendy Bourke



Wendy Bourke returned to Lakehead University last August, first in the Mathematics Department and now in Engineering. Wendy is a graduate of Lakehead University in English and the Faculty of Education. Outside of work she is kept very busy with her four children. "If I have one extra-curricular activity that I try to apply myself to, it's writing," she said of her short stories and articles. Wendy would like to own her own business one day. "The business would do word processing for small agencies that don't have the processing back-up they need." However, that is far into the future and Wendy is very happy where she is.

Research News

FROM THE
OFFICE OF
GRADUATE
STUDIES AND
RESEARCH



**Trish
McGowan**

Research Officer:

Ontario Graduate Scholarship 1989/90 Selection Panel Members

A number of our faculty members have been selected to serve on the Ontario Graduate Scholarship (OGS) 1989/90 Selection Panels. The following faculty have agreed to serve: Ken Allan (Psychology), Bill Eames (Mathematical Sciences), Alan Hughes (Chemistry), Bob Isotalo (Business Administration), Werden Keeler (Physics), Peggy Knowles (Biology/Forestry), George Kondor (Economics), Norm LaVoie (Physical Education & Athletics), Gerd Schroeter (Sociology), and Ed Setliff (Forestry).

A great deal of work and dedication is involved in the OGS selection process, and we appreciate the contribution which these faculty make. Their presence on the selection committees ensures that applications from sister universities are reviewed equitably.

Northern Studies Graduate Awards

The first Northern Studies Graduate Awards competition has been held, and sixteen stipends, valued at \$3,000 each, have been awarded to first- and second-year students.

The winners and their thesis titles are: Seth Agbo (Education), "A Study of Satisfaction of Teachers: A Comparative Analysis of Teachers in Native School Settings and Rural Non-Native School Settings in Northwestern Ontario"; David Ip (Forestry), who is conducting a study of Armillaria root rot disease; De-Wei Li (Forestry), for a study of the use of fibrous pulp waste as a "mycomulch" medium that would serve both as the inoculum for the standard peat-vermiculite mix and as a partial substitute for these expensive ingredients; Thomas Mulja (Geology), "Platinum - Group Metals of the Geordie Lake Intrusion, Coldwell Complex, Northwestern Ontario"; Glen Niznowski (Forestry), "Site Quality Evaluation for Jack Pine in Northern Ontario"; Victoria Reid (Psychology), for an evaluation of the potential of a new paradigm for identifying individuals who are exhibiting signs of impaired cardiovascular functioning in terms of their inability to recover from everyday stressful situations; Robert Spark (Geology), "Boundary Structure and Meta-

morphism between the Shebandowan Greenstone Belt and Quetico Gneiss Belt"; Douglas Thur (Sociology), for a study of the history of the Lumber and Sawmill Workers Union from its beginning in the 1920's to the present; Gary Warwick (History), "A Study into the Impact of the Great Lakes - St. Lawrence Seaway on the Thunder Bay Harbour"; Rob Bowen (Forestry), "An Evaluation of the Shigometer on Paper Birch"; Allan Harris (Biology), for a study of aspects of the vegetation, chemistry and hydrology of a bog-fen northwest of Thunder Bay; Mainul Haque (Economics), for an examination of the availability of natural resources and a determination of the demand for natural resources on the world market; Tak-Shing Liu (Physics), for a theoretical study of some of the properties of metals, particularly nickel, using positrons as a probe; John McNutt (Forestry), "Ground Speed: Its Influence on Direct Seeding with the Bracke Scarifier"; Allan Vinni (Economics), "Modelling Short-Run Bulk Carrier Rates for the Movement of Grains"; and Stephen Warrington (Forestry), "Effect of Post Bud Set Fertilization on Bud, Root and Cold Hardiness Development in Second Crop Black Spruce Container Stock".

We would like to congratulate these students on their success, and wish them well in the conduct of their research.

Eligible applicants are full-time graduate students whose thesis research focuses on regional development or problems and issues of particular importance to northwestern Ontario on the broader Canadian and circumpolar north. The next competition, for the 1989/90 Entrance Awards, is directed at students who may be recruited to begin graduate training in the spring or fall of 1989. Decisions will be based largely on research proposals described by faculty members and will be conditional upon attracting a student of high academic standing to do the study. These awards will have a value of \$5,000.

Application deadline is:

March 13, 1989.

NEWS FROM SSHRC

The Canada Research Fellowships Program

The Social Sciences and Humanities Research Council of Canada has just completed a review of the Canada Research Fellowships Program. A fourth and last competition will be held in 1989; a maximum of 40 fellowships will be awarded. Council anticipates that, by the time this cohort has completed its period of tenure, the program will have met its objective. To date, 193 fellowships have been awarded.

The CRF Program was initiated in 1986 in response to the federal government's matching funds policy. It was designed to promote excellence in research, to improve career opportunities for promising researchers in

the social sciences and humanities, and to ensure an adequate supply of highly qualified personnel for faculty and research appointments in Canada in the next SSHRC pays half of the Fellow's salary and research allowance; this is matched by private sector contributions to the university.

This is an excellent opportunity for departments to supplement their faculty resources with talented young researchers, at minimal cost to the University. Recent doctoral graduates are nominated by universities which will benefit from the Fellow's proposed research.

The deadline for the submission of nominations is:

October 1, 1989.

SSHRC Strategic Grants

SSHRC funds Strategic Research Grants in the following five thematic areas: The Family and the Socialization of Children; The Human Context of Science and Technology; Managing the Organization in Canada; Women and Work; and Education and Work in a Changing Society. Three types of grants are available: seed money grants, strategic research grants, and research workshop grants.

The application deadline for these grants is:

April 3, 1989.

SSHRC: The Past, the Present and the Future

On January 12, 1989, the Social Sciences and Humanities Research Council of Canada (SSHRC) hosted a one-day national conference in Ottawa entitled "Taking the Pulse: Human Science Research for the Third Millennium." The conference was a celebration of the Council's first decade of existence and an opportunity for a critical assessment of its accomplishments and its future role in Canadian society. Invited to the conference were researchers, users of research, supporters and disseminators of research. Dr. Connie Nelson, Chairman of the Senate Research Committee, and I attended.

The conference was launched by Marcel Cote, President of SECOR, a Montreal consulting company and Dr. William Eliot, President of the University of Prince Edward Island, who both addressed the issue: "The Human Sciences: Strengths, Weaknesses, Priorities." The speakers pondered the achievements of Canadian human scientists and reflected on the social utility of these academic accomplishments. They focused the participants' attention on the human sciences as servants of society. Participants

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were then divided into seven workshops to discuss in detail both sides of the metaphor: the ability of social sciences and humanities research in Canada to respond to society's demands; and the role of the human sciences (as critic and counsellor) in measuring the health of Canadian society.

The discussions centred on a number of key issues: 1) Is Canadian research in the human sciences "world class"? What are its relative strengths and weaknesses? 2) How well have we managed the dialectic between human science research and society? 3) What are the recent trends in research and research policies, and what do they portend? and 4) What are the priorities for research in the human sciences over the next decade, and how should the social challenge be taken up?

No attempt was made at the conference to draw any formal conclusions; the conference was intended simply as a forum for the discussion of a broad range of issues, in order to provide Council with "grass roots" feedback, which Council can then use in establishing its direction for the next decade. The discussions ranged over many topics and demonstrated a great diversity of thinking. Highlights of these discussions include:

The International Nature of Current Issues

Many of the issues with which our scholars in the human sciences are grappling are global issues. The problems of technology, ethics, the degradation of the environment and the preservation of internal cohesion vis-a-vis continental integration are not specific to Canada. Canadian human science scholars are operating in the international marketplace of ideas, as are Canadian policy makers, who often look to Europe and the U.S. for new policy initiatives.

Constraints To The Contribution Of Canadian Scholars

Canadian scholars produce approximately 3-4% of international ideas. This figure must be viewed in the light of our relatively small population. There are, indeed, intellectual "giants" in Canada, but our great scholars are isolated from one another. A further problem we experience is one of scale: there are fields in which there is insufficient critical mass.

The Centre Of Excellence Model As A Solution

The Centre of Excellence model, whether the centre is created by networking or by the physical proximity of scholars, is gaining prominence nationally as a solution to

the problems of isolation and scale. This trend is threatening to smaller universities, which often do not have the critical mass required for such a centre, and which fear that, because they do not have a Centre of Excellence, they will be perceived as being "Centres of Mediocrity". Another concern is that there are many types of research which do not require large bureaucracies; such bureaucracies may, in fact, impede the creative and flexible environment that is needed to sustain quality work.

Ways To Stimulate Research

SSHRC could provide challenges to Canadian researchers by encouraging exchanges with the public and private sector. Human science research might also be stimulated in universities across Canada by sending teams of top-notch researchers around the universities to encourage and motivate their colleagues, much as NSERC Grant Selection Committees do on their site visits. In addition, universities should be encouraged to place increased emphasis on the value of research as a complement to teaching.

The Provision Of International Opportunities

Delegates felt that the role of Council must be to sponsor the development of world-class research. Council, therefore, must be more aggressive in funding research of international calibre. In addition, it was argued that Canadian scholars often lack opportunity or challenge. As a solution to these problems, Council should provide more opportunities to graduate students and scholars to work, study or conduct research abroad, for, to be world-class, Canadian researchers must work in the international environment.

The Impact Of The Decentralization Of The International Travel Program

Conference delegates expressed the concern that the decentralization of Council's international travel program has been harmful, having had a negative impact on the quality of research performed at universities. By giving universities block grants for international travel, it was argued, Council is encouraging mediocrity, for internal committees may make decisions on funding distribution based on local political concerns. Further, in some institutions it was felt that all faculty get a share of the pot if they apply, regardless of the quality of their work. The underfunding of international travel has also decreased the amount of collaboration and cross-fertilization of ideas in the Canadian human science community.

Faculty Renewal

One of the greatest problems faced by the

human sciences is the aging of its academic population. As researchers age, their energy for and interest in research may decline. Before the year 2000, Canada will experience a talent deficit, as insufficient numbers of new scholars are coming through the system. There are fears that the research enterprise will fail. One of the reasons for this talent deficit is that the number of graduate scholarships offered by Council is "ridiculously low"; students in the human sciences, one delegate claimed, "must agree to be poor". We cannot progress, it was argued, unless we integrate graduate students into our research programs, encourage greater scholarship funding by government, and encourage collaboration.

The Emerging Importance Of Inter-Disciplinary Research

It is becoming increasingly important to move away from the traditional research model of a theoretical professor assisted by several graduate students, and move towards a more collaborative, inter-disciplinary approach. With the complexity of the global issues which challenge human science scholars, it is becoming necessary to break out of the more narrow discipline-based research to further understanding of these issues and to discover new strategies for their solution. Such an approach would no doubt require internal institutional change, to assist in the breaking-down of disciplinary boundaries.

Interference Of Government

Concern was expressed by workshop participants about the direct interference of government in research funding. The increasing emphasis on the applied sciences puts a great deal of pressure on the SSHRC disciplines. Government pressure, it was argued, has distorted the research effort to applied areas. The focus now is on political, economic and social utility. Government is notoriously short-sighted; it de-values education in its insistence on relevance. The nature of our institutions has changed as a result of the obsession with technology transfer and the financial incentives to increase research collaboration with industry. Universities are, in fact, losing their autonomy as they scramble to meet government's demands.

Government can impose its direction by allocating funding among agencies, but it should not impose direction on funding decisions made within these agencies. The government has signalled its priorities through its level of funding to the national councils. Currently, SSHRC's budget is less than 10% of 1% of Canada's gross domestic product. In order for SSHRC to secure increased funding, the human sciences must

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... More Research News {continued from page 10}

win recognition from the public and the policy makers by confirming their role openly and urgently. They must encourage government to increase the proportion of the national research effort dedicated to human science research.

Strategic vs Curiosity-Driven Research

The job of SSHRC, then, is to resist this distortion, for the long-term stability and health of our society depend significantly on the maintenance of the values out of which our social organization evolved. In making decisions about the future allocations of its budget to its various initiatives, therefore, Council's fundamental priority must remain curiosity-driven research. Strategic research ought to be done in order to understand the fundamental problems that assail our society and, to be sure, the human sciences should maintain certain strategic priorities in order to fulfil their mandate as servants of the people. Furthermore, strategic research maintains a certain degree of credibility and an outward appearance of utility and relevance in order to quiet the critics. Nevertheless, Council should not increase the proportion of its budget dedicated to strategic research.

Alternative Means of Funding Strategic Research

There are already mechanisms within government which identify priorities and respond to social pressures. If there is a need for research in a particular field, then government

could establish a special fund for its support; Health and Welfare Canada, for instance, has funded special research competitions on high-priority issues such as AIDS. It was suggested that the government could ask SSHRC to administer such funds judiciously; Council would then act as an arm's-length contracting-out agency for government-targeted research needs (just as the Association of Universities and Colleges of Canada administers some of CIDA's programs).

Yet, the human sciences must be determined not to allow the shackles of relevance and scale to hobble them. "If", as Dr. Eliot claimed, "we must justify the existence and experience of education in terms of economic development, then God help our country!" The value of the humanities and social sciences are threefold: they contribute a sense of value and heritage to the world in which we live; they contribute to the development of a free conscience; and they promote the role of independent thought and the usefulness of intelligent curiosity. The most fundamental task of Council, then, is to add value to the lives of Canadians. And the value of the Social Sciences and Humanities Research Council is, in Dr. Eliot's words, "not to be measured by the contribution to public policy but to the degree that it awakens each one of us to the wonders of being human".

DAILY FOREIGN TELEVISION NEWS
Direct from Tokyo, London, Moscow,
Jerusalem, Paris and other centres.
9 a.m. to 5 p.m. Monday to Friday
BB2011

Food service changes hands; Beaver replaced

Beaver Foods has been replaced as the body responsible for the food services contract on campus.

Lakehead University President Bob Rosehart announced last month that Versa Services Limited will be taking over from Beaver Foods as of May 1, 1989. The decision was made by the University Food Services Committee, which represents a cross section of the University community.

In a written statement, Rosehart noted there was a great deal of interest in the competitive bidding processes. "The accepted recommendation is for change," he said.

"In announcing the successful firm, I would like to acknowledge the service given to Lakehead University for the past 14 years by Beaver Foods," Rosehart said. "During the next few months, Versa Food will be working with Beaver Foods in order to ensure an orderly transition, giving due consideration to the employees and the quality of service during the change-over."

Free Concert
Tuesday, April 4
Cornwall School Recital Hall CS 1006
Penny Clarke - Flute
Elizabeth Ganiatsos - Virginal

Ask Dr. Weir



Dr. Neil Weir

Professor,
Department of Chemistry

Q The battery in my car is just nine months old, and has given no trouble, until, during this cold spell it behaved as if it was "lead". Does the voltage decrease all that much when the temperature drops to minus 27deg. celcius; or is there something else wrong?

A The battery in your car is the so-called lead-acid type, which consists of six cells joined together. Each cell consists of a lead (or lead-calcium alloy to reduce damage due to vibration) anode and a lead oxide cathode. Both electrodes are immersed in the electrolyte, which is sulphuric acid. (about 40% by weight). When the battery is fully charged, each cell produces 2 volts, and the specific gravity of the electrolyte is 1.2 gm/cm³. The acid is consumed when the battery delivers power, and this figure will decrease. The specific gravity, as indicated by a hydrometer, is thus a good indication of the condition of your battery.

It is known from thermodynamics that the voltage (or more correctly, the e.m.f.) of a cell decreases with decreasing temperature. However, the e.m.f. of a lead-acid battery decreases by 0.0015 volts per Celcius degree. Thus, a temperature drop of 50 Celcius degrees reduces the e.m.f. by only 0.0075 volts, which is insignificant, and which cannot be measured, unless a sensitive voltmeter is used.

To understand why the battery does not

function well at low temperatures, we must look at its operation in a bit more detail. When the ignition circuit is activated, a current flows from the anode through the circuit, and back to the cathode. However, to complete the circuit, current must flow through the electrolyte. This current is carried, not by electrons (as in the external circuit) but by ions, positively and negatively charged particles, (e.g. hydrogen, sulphate and lead).

At normal temperatures, e.g. above 0 degrees celcius, these ions move rapidly and the conductivity of the electrolyte is very high. However, as the temperature decreases, two things happen. Firstly, the ionic mobilities are decreased, but more importantly, the viscosity of the electrolyte increases; i.e. it becomes more syrupy. It is this increased viscosity which leads to a much more dramatic decrease rate of movement of ions in the electrolyte; and this is reflected in a lower conductivity and in a decrease in power output of the battery.

Campus Calendar

To include your Department's event or activity in the Campus Calendar, please call Flo Sherren at 8300 or mail your information to SN1002. **Deadline for the April Agora is March 15, 1989.**

March

WEDNESDAY, 8

FREE PUBLIC LECTURE

Speaker: **Dr. John Naysmith**, Director,
School of Forestry, LU
Topic: "Nepal: Conservation Perceived
From A Himalayan Setting"
1 - 2:30 pm BB 1021

SATURDAY, 11 & SUNDAY 12

LUSU FILM NIGHT

Who Framed Roger Rabbit
8:00 pm RB 1042
\$2:00 Students \$2:50 Others

SUNDAY, 12

CORNWALL CONCERTS

Senior Student Recital (Piano)
Cornwall School - Recital Hall CS 1006
3:00 pm FREE ADMISSION

TUESDAY, 14

CONFERENCE & SEMINAR CENTRE

Making a Career Change
Seminar Leader: **Mr. Irmo Marini**, MA
Senior Counsellor, LU
7:00 pm - 10:00 pm - Conference &
Seminar Centre
\$15.00 per person

CORNWALL CONCERTS

Student Lecture/Recital
(Canadian Music for Flute)
Cornwall School - Recital Hall CS 1006
8:00 pm FREE ADMISSION

WEDNESDAY, 15

FREE PUBLIC LECTURE

Speaker: **Dr. Paul Watts**, Director,
Centre for Northern Studies, LU
Topic: "Circumpolar Polar Bear
Management"
1 - 2:30 pm BB 1021

LU STATUS OF WOMEN COMMITTEE

Noon Hour Bring-Your-Own-Lunch Series
RB 1047 11:45 - 1:00 pm
Women In Art

THURSDAY, 16

SATURDAY, 18 & SUNDAY 19

LUSU FILM NIGHT

The Dead Pool
8:00 pm RB 1042
\$2:00 Students \$2:50 Others

TUESDAY, 21

CONFERENCE & SEMINAR CENTRE

Motivation Seminar
Seminar Leader: **Dr. Daniel Klassen**,
M.Ed., PhD - LU
Conference & Seminar Centre
7:00 pm - 8:30 pm \$19.95 per person

CORNWALL SCHOOL CONCERTS

Heather Morrison - Piano
Cornwall School Recital Hall - CS 1006
12:30 pm FREE ADMISSION

WEDNESDAY, 22

CONFERENCE & SEMINAR CENTRE

Women and Stress
Seminar Leader: **Mr. Irmo Marini**, MA
Senior Counsellor, LU
Conference & Seminar Centre
7:00 pm - 9:00 pm \$15.00 per person

FREE PUBLIC LECTURE

Speaker: **Dr. Winifred Sidle**, National
Wildlife Ecologist, U.S. Forest
Service, Logan, Utah.
Topic: "The Ecosystem Approach To
Forest Management"
1 - 2:30 pm BB 1021

THURSDAY 23

MEETING

Board of Governors
4 p.m.

WEDNESDAY, 29

FREE PUBLIC LECTURE

Speaker: **Dr. M. Sellick**
Topic: "Psychotherapy as Artwork"
2:30 - 3:30 pm SN 1015

FREE PUBLIC LECTURE

Speaker: **6, Professor**
University of Wisconsin
Topic: "Reflections On Forest
Pathology Research"
1 - 2:30 pm BB 1021

CONFERENCE & SEMINAR CENTRE

Positive Thinking Seminar:
Seminar Leader: **Mr. Irby Stewart**,
MBA Positive Communications Inc.
Conference & Seminar Centre
7:00 pm - 10:00 pm \$15.00 per person

THURSDAY, 30

CONFERENCE & SEMINAR CENTRE

**"How to Plan Your Association's
Conference Successfully"**
Seminar Leader: **Mr. Ron Spina**, M.Ed
Director of Residence &
Conferences - LU
Conference & Seminar Centre
7:00 pm - 8:30 pm FREE

April

SATURDAY, 1 & SUNDAY 2

LUSU MOVIES

Animal House
RB 1042
Students, \$2.00 - Others \$2.50

SUNDAY, 2

CONCERT

Lakehead University Wind Ensemble
Bora Laskin Theatre
8:00 pm \$2.50

Agora

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celebrating
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