

WEEK

a publication of the Lakehead
University information office

VOLUME 6
NUMBER 14
DECEMBER 13, 1973

MERRY CHRISTMAS

Five Companies Provide Awards

Five companies have recently provided generous financial awards to the Lakehead University Physical and Health Education and Athletics Departments. The awards which will aid deserving students and assist in the further development of Physical and Health Education and Athletics programmes, were provided by Shell Canada, Labbatt's Breweries of Canada, Lever Brothers of Canada, The Canadian Salt Company, and The Great Atlantic and Pacific Company.

Two of the awards were formally presented at the beginning of the Nor'Westers basketball game on Friday, December 7th.

Dr. Jim Widdop, Chairman of the Departments of Physical and Health Education and Athletics, acted as Master of Ceremonies for the presentations. Mr. Gordon Kyle, District Representative for Labatt's Breweries, presented a 1,000 dol-



David Shannon, Dean Kerr, Gordon Kyle and Grant Thompson.

lar award on behalf of his company. Mr. David Shannon, Shell District Manager presented a cheque for 1,000 dollars which will be used to set up two 2,000 dollar student-athletic awards this year. The Shell Company will continue this award for two more years for a total of 12,000 dollars. These awards will be given an-

nually to any LU student who maintains a good scholastic record and has exhibited proven ability or potential in a nationally recognized sport.

Mr. Grant Thompson, Vice-President (Finance), and Mr. John Kerr, Dean of Students, accepted the awards on behalf of the university.



Pat Zurkan is a laboratory technician in Geology Lab CB0026E. She prepares sedimentological samples for analysis by Dr. John Mothersill and economic mineral samples for Dr. Jim Franklin. A lab, by any other name is "home" (for eight or so hours a day). So, Pat has turned CB0026E into a warm and friendly place: a scientific/human interface.



Dr. Mothersill recently returned from a sabbatical year in Africa where he carried out analyses of Lakes Victoria and Chad. This year, as it has in the past, his research work will focus on Lake Superior.

Profile: Geology Lab CB0026E

Midnight mist shrouds a lonely castle. Deep within its walls, two men, barely discernable in the meagre light of afflickering candle, hunch over a grimy bench that is littered with diabolical paraphernalia. Lightning flashes, briefly illuminating these strange, darkness-craving creatures. One looks up, startled. It's body, clothed haphazardly in greasy rags, is oddly, horribly misshapen. It's face is a contorted mask of scar tissue and fear.

"Igor," barks the thing's evil-seeming companion: a tall, skeletal man, clad in a long, once-white coat. Madness fills his eyes - the single, terrifying, sign of life in his curiously dead countenance.

Again, lightning crashes - its deadly tendrils ripping through a turret window to strike, with unholy power, the huge apparatus that looms in a far corner of the dungeon-like room. The electrical charge courses through the infernal machine. Generators growl into life. Giant chemical-filled tubes pulsate with an eerie glow. And, on a table at the base of the machine, a monster stirs.

And that, courtesy of American International Pictures and Odeon Theatres

Saturday - Matinee - Horrific - Film - Festival, was my introduction - as an impressionable 11 year old - to the world of science, scientists and laboratories. Of course, being an intelligent, perceptive youth, I did not long believe in this celluloid version of science. In fact, my transition from gullible youth to world weary sophisticate occurred in a single day: the day I became a HIGH SCHOOL STUDENT.

It was in that rarified atmosphere of higher learning and swaggering pseudo-adulthood - during the 1950's - that I was made aware of the "true" nature of scientists and their work environment. School books, guidance films and magazines showed me the true face of science: extremely clean-cut young men and women with dedication and unimpeachable faith in the future - a future they would mold-written on every handsome countenance.

How proud they looked in their snow-white lab coats. How their importance was magnified . . . intensified by the stainless steel and polished glass that were profligate in their sterile laboratories. These supermen and women manipulated ultra complicated equipment with the casual aplomb of a child throwing a baseball. Obviously, they held the secrets of the universe at their (exquisitely molded) fingertips.

Begone Peter Cushing, Boris Karloff, Lon Chaney and the rest. For, as the mists of night are dispelled by the morning sun, I have seen truth and I know its face.

Maybe

My high school sophistication did not stand the test of time - or reality. The real world forced itself into the cracks that had appeared in the veneer of my sophistication

and tore it away. I learned. I changed.

Yet, because I had little contact with people or things scientific, my 50's image of scientists and laboratories remained, inviolate. Until I came to LU. Until I met Dr. John Mothersill. Until he took me to the geology lab - tucked deep in the heart of the Centennial Building - and introduced me to Pat Zurkan.

The photos that surround this article show - not the real, trueface of science, for there is no such thing - but one facet of the multi-faced scientific community. And, community means people. And, by God, scientists, and those who work with them, are PEOPLE. To be sure, they are dedicated - in an off-hand sort of way. But they are not celluloid villains who produce zombies, or zombie-like supermen who create miracles with the flick of a test tube. They are people like Dr. John Mothersill and Pat Zurkan who bring a little piece of themselves and their personalities to their work: work that is often tedious, seldom miraculous but always necessary.

by O'Dwyer



Physical Fitness Test Project Gets LIP Grant

Among the Thunder Bay Local Initiatives Projects recently announced by Robert Andras (December 4th) was a grant of 8,977 dollars to develop a Physical Fitness Testing Programme. Dr. Norm Lavoie, an Assistant Professor in the Lakehead University Department of Physical Health and Education will head up the fitness project.

The programme, according to Dr. Lavoie, will be open to members of the community: "The testing facilities are set up and ready to go. We will be letting the people of Thunder Bay know, very shortly, how they can take advantage of the fitness tests."

Three additional staff members-with a background in Physical Health education-

will be hired and trained to assist in the project.

People who take the tests will be given a run-down on the degree of their physical fitness and, for those who fair poorly in the tests, a programme that will increase their fitness.

The over-all test results will be compared with the results of similar tests being done across Canada. "We will then," said Dr. Lavoie, "have a good reading on the degree of physical fitness enjoyed by most Canadians. If, as we fear, Canadians are not physically fit, we hope the results will encourage people to increase their level of activity."

Film Animation Workshop

Saturday, November 24, the students in the School of Library Technology were introduced to the art and techniques of film animation. Mr. Ian McCutcheon, Representative of the National Film Board of Canada, conducted a one-day workshop during which he not only demonstrated how 8mm films may be made using single-frame exposures but also described a film-making experiment which had been conducted with children at the Scarborough Public Library. The results of this experiment were a number of imaginative and entertaining films.

Following a brief session of instructions, the students proceeded to create four 8mm films themselves using both cut-out

and Plasticene figures. A fifth film was made without the use of a camera through the drawing of abstract designs on bleached 16mm film.

Enthusiasm was so great that future filming projects are now being considered by the School of Library Technology. It is hoped that the skills learned may be used by the future technicians in providing more varied and more effective library service particularly among children.

The School is very grateful to both Mr. McCutcheon and Mr. D. McLean, the Thunder Bay Representative of the National Film Board for allowing us to participate in a most rewarding and enjoyable learning experience.

Library Technology Society

Executive of the Library Technology Student Society for 1973-74:

President	- Mr. Joseph Winterburn
Vice-President	- Ms. Cathy Mellerup
Secretary	- Ms. Kathy O'Neill
Treasurer	- Ms. Donna Yorke

Counsellor - Ms. Wende Hunt

The Student Society have an office that is housed by the School of Library Technology's Facilities (L-5011) on the fifth floor of the University Library Building.

Bruley Speaks at Seminar

A seminar and workshop on the Basic Technology of the Pulp and Paper Industry and its Waste Reduction Practices was sponsored by The Water Pollution Control Directorate, Environment Protection Service, Environment Canada and held at the Pulp and Paper Research Institute of Canada, Pointe Claire, Quebec during November 14, 15 and 16, 1973. The purpose of the seminar was to familiarize Environment Protection Service personnel with the many phases of pulp and paper technology to examine the sources and composition of

mill effluents and to examine the latest technology of waste reduction practices. It was looked upon as a major contribution toward improving understanding and communication between the regulatory bodies and the industry. A. J. Bruley, Associate Professor in Chemical Engineering along with an Industrial Consultant, Mr. S. Shastri of Toronto were the principal lecturers for the first two days. The third day highlighted a lively panel discussion with management representatives from industry and tour of PPRIC.

Study of Athletic Programmes

A study of athletic programs in Canadian universities and colleges and how they fit into the broader picture of Canadian contemporary sport will be jointly sponsored by the Association of Universities and Colleges of Canada (AUCC) and the Canadian Intercollegiate Athletic Union (CIAU). The study is being financed by the Department of National Health and Welfare and is endorsed by Sport Canada.

The study will examine the role of universities and colleges in contemporary sport. It will determine the scope of current university athletic programs, both intramural and extramural, and examine their strengths and weaknesses. The philosophy of university administrators with regard to their athletic programs will be examined as will be the inter-relationship of these programs with physical education and other academic programs.

While the programs conducted under the auspices of the CIAU and its member organizations will be of direct interest, the study will also examine how these programs relate to those conducted by amateur sport governing bodies at the provincial, national, and international levels. With Canada hosting the 1976 Olympic Games, timely consideration will be given in this study to the part the universities play in upgrading standards of excellence and how their facilities and their athletes relate to the international scene.

Chief investigator in the study is A. W. Matthews, dean emeritus of the faculty of pharmacy, The University of British Columbia. Assistant investigators have yet to be appointed.

The study will be advised by a steering committee with wide representation across Canada. Dr. L. H. Cragg, president of Mount Allison University, New Brunswick, will act as chairman of the committee.

In the first phase of the study, submissions will be invited from AUCC member universities and colleges; officials of sport governing bodies; provincial, regional and national athletic associations; and others. At a later stage, many university and college campuses will be visited by the investigators. The mailing address for the study is AUCC-CIAU Study of Athletic Programs Research Division, AUCC, 151 Slater Street, Ottawa, Ontario K1P 5N1.

It is expected that the study will be available July 31, 1974.

1973-74

Undergraduate Scholarships, Bursaries and Awards

Allied Chemical Canada Ltd. Scholarship
Daniel E. Kleemola

Alumni Association Scholarship

Jo Ann Kalyniuk
Judith Anne Kalyniuk
Martin Hellsten
Markku Murtonen

J.P. Bickell Foundation Scholarship
Larry George Kainulainen

Canadian Studies Scholarship
Elizabeth Ann Secor

*Chemical Institute of Canada
Lakehead University Scholarship*
Jo Ann Kalyniuk

City of Thunder Bay Scholarship
Anna D'Arienzo

Murray Flemming Engineering Scholarship
Robert James Mclean

*Dr. Crawford C. McCullough Memorial
Scholarship*
Felisa Tan

*Construction Association of Thunder Bay
Scholarship*
Alick Hing Kong Cheng

Peter McKeller Spence Memorial Scholarship
Jo Ann Kalyniuk

Tim Ryan Memorial Scholarship
Mary Liljestrom

*Bachelor of Physical and Health Edu-
cation Scholarship*
Grant Lavallee

Headway Corporation Ltd. Scholarship
John R. Mott

C.J. Sanders Scholarship - Continuation
Carol Anne Forbes

UNDERGRADUATE BURSARIES AND AWARDS

Abitibi Paper Company Bursary
Bruce Staus

Association of Natural Resources Bursary
Thomas James Nash

Atkinson Charitable Foundation Bursary
Lorraine Belliveau
Gary Bloomfield
Judith Patricia Brown
Roxana Chow
Carson Herrick
Gregory Holm
Judith Ann Kalyniuk
Delia Laforet
Roger McCurdy
Alan Moorhead

*I.B.M. Thomas J. Watson Memorial Bur-
sary*

Gary Bloomfield
Jagat Janin
Michael Karpowich
Daphne McKellar
Gwen Pantoulis
Alan J. Rittman
Henry Seeliger

Walter Wiekowski
Charlotte Zulianello

*Interprovincial Pipeline Company Bur-
sary*

Donald Carson
Bernard Chapman
William Fauconnier
David Goss
Gary Gusta
Jo Ann Kalyniuk
Ernest Kreutz
Ruth Liljestrom
John Lung
Dave Parsons
Diane Precosky

Lake Superior Chapter IODE Bursary
Linda Grice

The Paterson Bursaries

Jagat Jain
Clyde McGuire
Terence Milkie
Lorna Nelson

Princess Beatrice Chapter IODE Bursary
Roxana Chow

*Professional Engineers' Wives Association
Bursary*
James Crichton

*Thunder Bay Chamber of Commerce
Bursary*
Torben Drewes

Thunder Bay Foundation Bursaries
John Gilhooly
Bernard Jeudy-Hugo
Jerald Paquette

Jessie Mackey Memorial Award
Dianna Bartholomew
Lois Pronger

*Iris Jean Richards Memorial Award
(Economics)*
Patrick Liu

*Iris Jean Richards Memorial Award
(English)*
Marilyn Grudinski

National Council of Jewish Women Award
Patricia Ann Young

Fleming Scholarship Presented

Robert J. McLean of Thunder Bay was recently awarded the J. Murray Fleming Engineering Scholarship which is presented annually, on the recommendation of the School of Engineering, to a final year student in the Engineering Degree Programme who shows a high degree of academic excellence. Presentation of the \$700 scholarship that bears his name was made by Mr. J. Murray Fleming who is Chairman of the Board for the C. D. Howe

Company and a long-time member and past chairman of the Lakehead University Board of Governors. On hand to witness the awarding of the scholarship were Dr. George K. Fleming, Chairman of the Department of Engineering, and Dean of Students, John Kerr. Mr. McLean intends to pursue a career in Industry after graduation. According to Dr. Fleming, he is "an excellent student who should do well in his chosen profession".

Norman S. Grace Entrance Scholarships

Dr. Norman S. Grace, while he was a visiting professor at Lakehead University, donated funds to the Faculty of Science. An entrance scholarship is awarded on the recommendation of the Department of Chemistry to a first year student of high academic standing who registers

as a Chemistry Major.

The Scholarships and Bursaries Committee is pleased to announce that Mr. Barry Wayne Kobryn has been awarded the Norman S. Grace Scholarship for the 1973-74 academic year.

Fellowship and Scholarships

The Sir John A. MacDonald Graduate Fellowship in Canadian History

The Province of Ontario will again be offering the Sir John A. MacDonald Graduate Fellowship in Canadian History for the 1974-75 academic year. With this fellowship the government wishes to pay tribute to the contribution of a great Canadian to the history of this country and to stimulate graduate study in this field. One fellowship of the value of \$4000 is tenable for two years, making the maximum value of each award the sum of \$8,000.

Please contact the Dean of Students Office regarding the conditions of the award and the application procedure. Applications must be submitted by January 15, 1974.

International Nickel Company Participating Scholarships

The International Nickel Company of Canada, Limited provides annually a number of undergraduate scholarships tenable at Canadian Universities for selected studies in engineering and the physical sciences. Known as the International Nickel Company Participating Scholarships,

these awards are available annually and are tenable at Canadian universities for students who will enter the penultimate year of a baccalaureate programme in science or engineering in one of the following courses: Chemistry, geology (including geophysics and geo-chemistry), and chemical, civil, electrical, geological mechanical, metallurgical, and mining engineering. Applications are especially solicited from students in a four or five year course of undergraduate studies in geology physical chemistry, mining and extractive metallurgy.

Awards are made on a year-to-year basis, and may be considered for renewal for one additional year.

Each award provides for:

- (a) tuition and fees for the recipient plus a grant of \$300 for miscellaneous expenses, and
- (b) an aid-to-education supplement of \$500 to that department or division of the faculty in which the student is enrolled.

Applications and brochures for the International Nickel Company Participating Scholarships are available in the Dean of Students Office. The deadline date for applications is January 31st, 1974.

Commerce Student Receives Scholarship

The School of Business Administration is pleased to announce that the Headway Corporation Limited Scholarship has been awarded to Mr. John Mott. Mr. Mott is a student in the 4th year of the Honours Bachelor of Commerce program.

The award was made for outstanding

academic and extra curricular activities. Mr. Mott has been active in University Government and has served as Director of Finance for the Alma Mater Society.

In addition, Mr. Mott is involved in a small business venture in Thunder Bay.

Cooperation Between Colleges and Universities

For the past eight months, the Joint Committee on Cooperation Between Universities and Colleges of Applied Arts and Technology has been at work collecting information on cooperative arrangements between colleges and universities and discussing areas in which cooperative ventures could be established or expanded. At its October meeting, COU received an interim report from the Joint Committee outlining the very extensive cooperation now under way. The report suggested that general patterns of collaboration should not be imposed. Instead, colleges and universities in reasonable geographic proximity should develop arrangements among themselves. To this end, the report urged that regional conferences be held to discuss cooperative undertakings.

Over the next several months, the Joint Committee will study other issues of concern to universities and colleges. These will include transferability of credits and the success of transfer students, admission dates, joint appointments of faculty, and the aims of, and differences between, degree and diploma programmes.

McCullough Appointed Assistant Deputy Minister

The Honourable Jack McNie, Minister of Colleges and Universities recently announced the appointment of J. Douglas McCullough as Assistant Deputy Minister with responsibility for cultural affairs.

Mr. McCullough has been supervising the work of the Cultural Affairs Division of the Ministry since February, 1973. He joined the Department of University Affairs in 1964 as Director of Architectural Services and subsequently served there organized Ministry as Director of the Capital Support Branch.

As Assistant Deputy Minister for Cultural Affairs, Mr. McCullough will be working closely with the provincial cultural and educational agencies reporting through the Minister of Colleges and Universities. Those include the Ontario Arts Council, the Ontario Heritage Foundation, the Ontario Science Centre and the Ontario Educational Communications Authority. In addition, he will be the Ministry's liaison with the Royal Ontario Museum, the Art Gallery of Ontario, the McMichael Canadian Collection and the Royal Botanical Gardens, which receive funds from the provincial government.

The Cultural Affairs Division of the Ministry also includes the Historical and Museums Branch and the Provincial Library Service.

weekly events meetings

Thunder Bay Symphony Orchestra presents their Christmas Concert at the Selkirk High School Auditorium on Saturday, December 15, 8:30 p.m. and Sunday, December 16, at 3:00 p.m.

Christmas Party

If you've been putting it off - you're lucky - because there are still a few tickets available for LU's Seventh Annual Christmas Party. But they're going fast. So, get your order in now.

Contact:

Gerda Laser Jean Helliwell
Dave DeKnock Brian Phillips
Donna Hardy John Ryder

Price: \$6.00 per person

Where: Royal Canadian Legion, Ortona Branch, 1700 Dease Street, Thunder Bay P, Ont.

New Travel Subsidies for Northern Pupils

A new program of subsidies designed to assist grade 7 and 8 students of Northern Ontario schools visit the provincial capital has been announced by the Ministry.

The program, called Ontario Young Travellers, will make it considerably easier for students located long distances from Toronto to spend at least two days in the city and to benefit from the unique educational and cultural facilities that are available there.

Classes of grade 7 and 8 in schools located north of a line running from Mattawa through Callander and along the French River will qualify for subsidies in the first year of the project.

The subsidies in the Young Travellers program are based on the estimated bus transportation costs from the school to Toronto, and the greater the distance to be

travelled, the greater the subsidy.

Schools located more than 600 miles from the city will receive extra funds to compensate for a second day of travelling time each way.

As an example, a class of 32 pupils from Thunder Bay, accompanied by the teacher and two other adult chaperones, would receive a subsidy of about \$1,800 from the 1,700 mile round trip.

The subsidies are not intended to pay for the entire cost of the trip. As with students from Southern Ontario who visit the provincial capital, classes will be expected to raise their own funds to pay for accommodation, meals and admissions.

The program is a pilot project to which the Ministry has allocated up to \$100,000 for the present school year.

Summer Employment

Atomic Energy of Canada Ltd. (Pinawa, Manitoba) Whiteshell Nuclear Station. Deadline for applications is January 31, 1974.

Defense Research Board. Deadline for applications is December 15, 1973. Both

of the above organizations are interested in Honours Science and Engineering students (all majors) in at least their Third Year. Applications and job descriptions are available at the Student Placement Office. Interested persons should apply AS SOON AS POSSIBLE?

NORTHERN
STUDIES
RESOURCE
CENTRE