

WEEK

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Deep Beginnings



Perhaps this rock doesn't look like much, but to a Geologist it is as precious as moon-glass. It is the largest of a collection of 200 rocks now in the possession of the Lakehead University Department of Geology. It is among the rarest rocks ever collected by man because it was dredged from the floor of the ocean near the Mid-Atlantic Ridge, 45 degrees N. Latitude, at a depth of around 4,000 metres.

According to prevailing geological theories, the superficial crust of the earth is divided into six major units called "plates". These plates comprise both continental masses and attached oceanic segments. For example, the two Americas form one rigid plate bounded on one side by the Mid-Atlantic Ridge, and on the other side by a deep submarine trough not far off the west coast of these two continents. The volcanic submarine ridge in the Atlantic runs faithfully at an equal distance between Europe and Africa on the one hand, and the Americas on the other. Following the contemporary hypothesis, these plates are continuously generated along the few submarine volcanic ridges (such as the Mid-Atlantic one) by constant basaltic eruptions. One could say that such ridges, so inaccessible because they are submarine, at great depths, are the birth place of the earth as we know it at the surface.

Within the scope of these theories, grouped under the expression "plate tectonics", Ken Lee, a recent honours graduate of the Department of Geology is currently pursuing graduate work in the Department of Geophysics at Dalhousie University.

During the past decade, this field of research has attracted Canadian scientists, through the Bedford Oceanographic Institute and the Geological Survey of

Canada, as well as other well-known international institutes, and now Lakehead University, to concentrate on this specific area of the Mid-Atlantic Ridge. As a result of this systematic plan of attack, Canada has become a world leader in submarine geology, along with the United States and the Union of Soviet Socialist Republics.

This past summer, the Geology Department of Lakehead University, represented by Dr. H. Loubat, and assisted by a National Research Council Grant, accepted responsibility for the petrological aspects of a 2 month exploratory cruise to the Mid-Atlantic Ridge, 500 miles due north of the Azores. There at 45 degrees N. Latitude recent volcanic basalts were dredged, drilled, and many geophysical measurements were accomplished (magnetism, heat flow, etc.)

Dr. Loubat's personal interest in such rocks is to develop a systematic comparison between those very recent submarine basalts and ancient volcanic rocks which are well-preserved in the Canadian Shield. The Northwestern Ontario terrain is amazingly rich in submarine rocks formed about three billion years ago.

Dr. Loubat says, "I foresee a long-range investigation and comparison between the most ancient submarine basalts and the most recent ones that we have dredged and drilled in the Atlantic. I foresee the possibility of deciphering a fundamental evolution concerning relationships between oceans and continents, and between the earth crust and the deeper "mantle" of our planet, from Precambrian times to our present time."

The Library Has Spoken!

The Ontario Royal Commission on Book Publishing will be holding a public hearing in the auditorium of the Faculty of Education Building, Lakehead University, commencing at 10 a.m. and 2 p.m. on Tuesday, September 28. In this regard the University Library has already taken part with other interested bodies in presenting briefs to the commission and otherwise providing it with information and facts concerning the purchasing of books by the University Libraries and its relationship to the Canadian publishing and bookselling industry.

The Ontario Council of University Librarians prepared a brief for the Commission, and representatives had several meetings together to discuss its contents. The Librarian presented relevant material for another comprehensive brief compiled by Basil Stuart - Stubbs Chief Librarian of the University of British Columbia on behalf of the Canadian Association of College and University Librarians. Both briefs were designed to correct the impression given early in the Commis-



sion's sittings that University Libraries were unnecessarily spending large amounts of money with non-Canadian agents at the expense of Canadian publishers. Detailed statistics were provided. Mrs. J. B. Belton, the Acquisitions Librarian, attended the **Institute on Publishing in Canada** at the University of Alberta, June 28-30th, where librarians and publishers discussed these matters in conference.

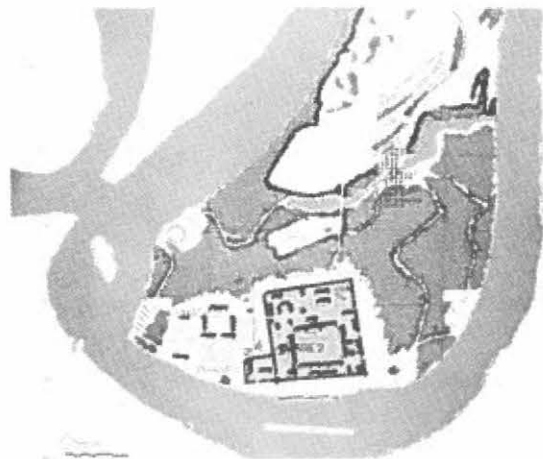
The Stuart-Stubbs Brief and the Toronto University Librarian's Brief as well as commission papers so far published, are available in the Library for consultation.

Old Fort William

Last Monday, Dr. J. M. S. Careless spoke of Old Fort William as the "hinge of a nation". This public lecture was well attended, and successfully launched the Old Fort William Historic Park Distinguished Speakers Lecture Series.

The Series will continue on a monthly basis. Every third Monday of each month through April, a lecture will be delivered at a different high school in Thunder Bay.

The next lecture in the Series will be given by Marjorie Wilkins Campbell in the Selkirk High School auditorium at 8:00 p.m., Monday, October 18. Her topic will be "William McGillivray, Lord of the North", basically a biography of this famous governor of the Northwest Company. She will be introduced by Mr. George Macgillivray, editor of the Daily Times Journal. Special guests will include other members of the clan, service clubs and the four pipe bands of Thunder Bay.



The picture depicts the proposed plan for reconstruction of Old Fort William at the Pointe de Meurons site.



looks like a really
big shoe
... shall we?

Beethoven Exhibit

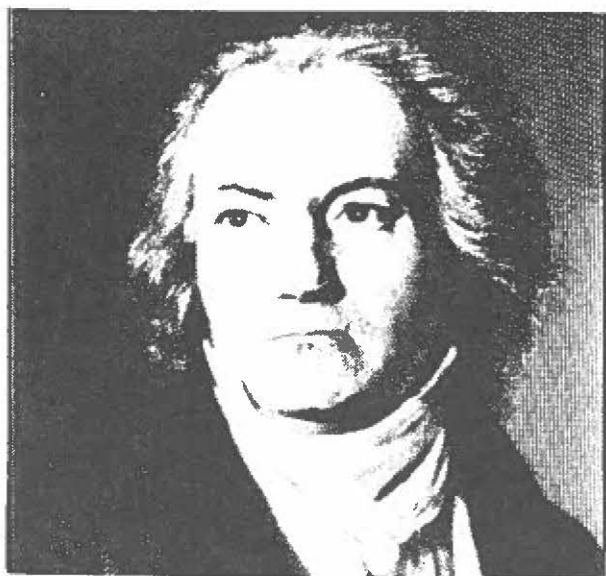
The Faculty of Arts of Lakehead University is pleased to announce that it will co-sponsor an exhibit which has been touring several Canadian universities as part of the Beethoven Bicentenary celebrations. The exhibit will be set up in the Great Hall from October 1 to October 9, largely as a result of hard work and planning on the part of the Aesthetics Society Incorporated, a local organization.

The exhibit was prepared mainly in Europe by the Edward Johnson Music Foundation of the University of Guelph. The substantial costs of the exhibit are subsidized by the Ontario Department of Education, the National Library, and such individual universities as Lakehead University.

Besides photographs of Vienna and other places where Beethoven lived and worked, the exhibit features original manuscripts on loan from museums, and notes and letters exchanged between Beethoven and other renowned musicians. Separate sections of the show deal with Mozart and Hyden.

An attempt is made to reconstruct the social and political background of Beethoven's creative period. An important feature of this exhibit is a collection of books and articles written about Beethoven. The show consists of one-hundred and fifty-eight articles collected for the purpose of enriching our interpretation and appreciation of Beethoven.

As George Bernard Shaw comments, "no composer has ever melted his hearers into complete sentimentality by the beauty of his music, and then suddenly turned on them and mocked them with derisive trum-



pet blasts for being such fools. Truly was he a Titan wrestling with the gods; one to strike fire from the hearts of man."

This rare and exclusive exhibit provides us with an opportunity to become more familiar with Beethoven's genius.

Resident Cellist

Lakehead University welcomes a new resident musician. Joseph Shufro began the study of the Cello at the age of 12 with Paul Clement of the New York Philharmonic. From there he attended Oberlin Conservatory of Music and received a B. Mus. (Performance) in 1967.

While at Oberlin he studied with Professor George Neikrug, the foremost living expert on the technique of stringed instruments developed by Dr. D. C. Dounis. Mr. Shufro is an exponent of the principles of this technique.

When Professor Neikrug moved to the University of Texas, Joseph Shufro followed so that he could continue his studies with this gifted teacher. At the University of Texas he completed his Masters Degree in 1969.

Mr. Shufro has performed in solo and chamber music recitals at Oberlin Conservatory and Texas University. He has also taught in the Texas String Project, a nationally acclaimed program sponsored by the University of Texas for the teaching of stringed instruments.

L. U. Forest Development

Lakehead University has access to 3,000 acres of forest situated 22 miles north of the Campus in the vicinity of Island Lake and Two Island Lake. It is currently utilized for training students in forest mapping and cruising.

Some ambitious Forestry Technology students are keen on developing this area. As it stands, this forest is too mature for some important aspects of field work, such as forest management. But with a lot of volunteer student work over a few years it could be converted into an efficient research centre in logging, silviculture, pathology, entomology, soil research, fish and wildlife study and watershed management.

Students interested in helping to initiate such a project are invited to contact Sean Cook at 344-9789, or Ron Burnside at 345-1414, Extension 18.



Biology Notes

Dr. G. Ozburn of the Department of Biology is currently working on a number of facets of aquatic biology. Over the past eight months this has involved tests on the toxicity of kraft effluent to Daphnia, a small fresh water crustacean important as a major food source to many other aquatic organisms.

In addition to this, two long term projects are in progress. One involves the monthly sampling of the University's new artificial lake. The objective is to establish the rate of recolonization of the numerous invertebrate fauna present in the river prior to water impoundment.

A third project recently started is a sampling of migrating fish populations in one of the local rivers. This involves tagging and releasing the fish. It is hoped that this project will be pursued for at least three seasons to determine the percentage of tagged fish returning to the river.

On the lighter side, Dr. Ozburn recently spent a day instructing the third year BPHE students on the use of canoes prior to their camping expedition. According to Dr. Ozburn, "This was a much more pleasurable experience than that of trying to teach them human anatomy two years ago".

weekly events

Thursday September 23 Old Classic Comedy Movies - Noon to 10 p.m. in U.C.T.

Monte Carlo Night - Agora - 7-10 p.m.

Dance to music of "Choker" - Cafeteria.

Friday September 24 Dance in Cafeteria to music of "Rain"

Saturday September 25 Nite Club in Cafeteria featuring "Rain" 9 to 1.

Movie in U.C.T. at 6:30 "Getting Straight" starring Elliot Gould.

Sunday September 26 Movie in U.C.T. "Getting Straight" showings at 6:30 and 9 p.m.

Tuesday September 28 Ontario Royal Commission on Book Publishing - Public Hearing - Faculty of Education Auditorium - commencing 10 a.m. to 2 p.m.

Thursday September 30 Shinerama Day - EVERYONE HAS SHINY SHOES TODAY

Dance in Cafeteria to music of 'Pillar'

Mrs. E. Mercy is Publicity Chairman, rather than President, of the Lakehead University Women's Association, as mentioned last issue. The President is Mrs. D. G. Holah. Sorry ladies.

DUA Becomes DCU

The Lieutenant Governor of Ontario has issued a proclamation whereby The Department of Colleges and Universities Act, 1971 will come into force on October 1, 1971. By this Act, all Colleges of Applied Arts and Technology in Ontario come under the jurisdiction of the Department of Colleges and Universities, formerly the Department of University Affairs. The resulting increase in Departmental responsibilities requires a change in organization.

Mr. Alan P. Gordon, Assistant Deputy Minister, will be responsible for operations in the following areas: Architectural Services, Finance, Student Awards, and Statistics.

meetings

Friday September 24 The first meeting of the Faculty of Science will be held in the Senate Chamber at 4 p.m.

Tuesday September 28 L.U.N.A. Meeting for all basic and post-basic B.Sc.N. students in Room MB-1006 at 8:00 p.m.

The Faculty of Arts will meet at a Wine and Cheese Party in the Senate Chamber from 4:30 to 6:00 p.m.

Mr. Lorne M. Johnston, Assistant Deputy Minister, will be responsible for operations in the following areas: Planning and Research, Applied Arts and Technology, Information, and Administrative Services.

Mr. Gordon has been Assistant Deputy Minister in the Department of University Affairs since 1967 while Mr. Johnston has held similar office in the Department of Education for the same period.

