

# UBC REPORTS

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UBC REPORTS CAMPUS EDITION

## UBC Road System Altered

Impending construction projects and continuing implementation of the campus master plan are the reasons behind the closure of some UBC roads and the rerouting of traffic.

Impending construction of a new building for the Departments of Civil and Mechanical Engineering has forced closure of the East Mall south of University Boulevard and Stores Road between the East and West Malls.

Contract for construction of the new building will be awarded in October.

In addition, part of the University's West Mall south of the entrance to the Fraser River parking lot is currently closed for the installation of new underground steam lines.

The new regulations will force most traffic approaching the University via University Boulevard to turn left or right at Wesbrook Crescent to reach south campus parking lots or lots adjacent to the Student Union Building. A new road beginning at the south campus extension to 10th Ave. provides access to the faculty and staff lot adjacent to the Biological Sciences Building.

UBC's Deputy President and Bursar, Mr. William White, said the rerouting of traffic is being carried out on an experimental basis.

He said the rerouting of most traffic at Wesbrook Crescent would prevent traffic tieups at the corner of the East Mall and University Boulevard.

This corner has presented problems for UBC traffic officials in the past because it is a major crossing for students walking from south campus parking lots to classes in the central academic core.

The new regulations will prevent large numbers of cars from reaching the intersection and mark another step in the creation of a vehicle-free central campus.

Road closures resulting from impending construction have also resulted in the closure of five parking areas mainly used by faculty and staff. A sixth lot adjacent to the Civil Engineering Building has been closed for general use and reassigned for the use of handicapped persons.

Withdrawn from general use are the following lots: Agricultural Sciences, Henry Angus (metered), Education, Chemical Engineering and Geophysics.

Officials in the City of Vancouver paving department told *UBC Reports* at press time that repaving of large sections of Southwest Marine Drive between 49th Ave. and Crown Street was to have been completed by last night (Wednesday).

The effect of the closure has been to force all UBC-bound traffic to use 41st Ave. as an access road to Southwest Marine Drive.

The work on Southwest Marine involves the addition of one foot of pavement to either side of the artery and resurfacing of the existing road.



"MISS PURITY", the University of Toronto's entry into the U.S. National Clean Air Car Race this summer from the Massachusetts Institute of Technology in Boston to the California Institute of Technology in Pasadena, attracted the admiration of UBC males while parked in front of the Mechanical Engineering Laboratory last week. The car was built

by faculty and graduate students in U of T's Mechanical Engineering Department and placed first in her class in the race. On the open road she burns propane in a 308-cubic-inch V-8 engine and eliminates poisonous carbon monoxide exhaust by using a platinum catalytic muffler. For city driving the car uses ten 12-volt batteries.

## Grant Establishes New Indian Education Center

An Indian Education Research and Resource Center which will aim to improve educational opportunities for Indian students in B.C. has been established at the University of British Columbia.

The Center is one of two such research and resource facilities in Canada. The other Center is located in Saskatoon. The UBC Center, however, differs from its Saskatoon counterpart in that it is being run almost entirely by native Indians.

The development of the Center will be guided by a Council consisting of 15 representatives of B.C. native Indian teachers. There are currently 31 certified professional Indian teachers in B.C.

Elected chairman of the Council is Mr. Alvin McKay, a native Indian who is principal of the Greenville Indian day school, located north of Terrace, B.C. Mr. McKay is currently on a one-year leave of absence to continue his studies at UBC.

Responsible for carrying out the decisions of the Center Council will be Dr. Art More of UBC's Faculty of Education who has been appointed acting director of the Center while a search is being conducted for an Indian educator to assume the position.

At a news conference held to announce the establishment of the new Center, Mr. McKay emphasized the need to alter the present educational system in British Columbia to make it more responsive to the special needs of Indian students.

"Of all Indian students enrolling in Grade I in British Columbia this year, half will have dropped out by the time they reach Grade VIII if the present drop-out rate continues," he said. There are currently approximately 12,000 Indian children attending school in British Columbia.

Mr. McKay cited cultural, social and economic differences as some of the complex reasons why Indian children experience difficulties adjusting to the present educational system.

Mr. McKay said it is time to begin seeking ways of adjusting the system to suit the needs of Indian children instead of adjusting the children to suit the system.

Mr. McKay said that one of the major objectives of the new Center would be to improve the abilities of B.C. teachers to meet the needs of Indian children in their classrooms.

"Although at least 8,000 B.C. teachers have Indian children in their classes," he said, "most are non-Indian and have little or no knowledge of the cultural, historical and social backgrounds of Indians."

The new Center will collect and make available to interested B.C. teachers and others up-to-date and accurate resource materials and instructional aids related to the education of Indian students, he said.

Credit courses will also be designed to help teachers improve their ability to adapt education to the needs of Indian students, he added.

Dr. Art More, acting director of the new Center, said that kits of material emphasizing the Indian contribution to B.C. history have been prepared by the UBC Faculty of Education.

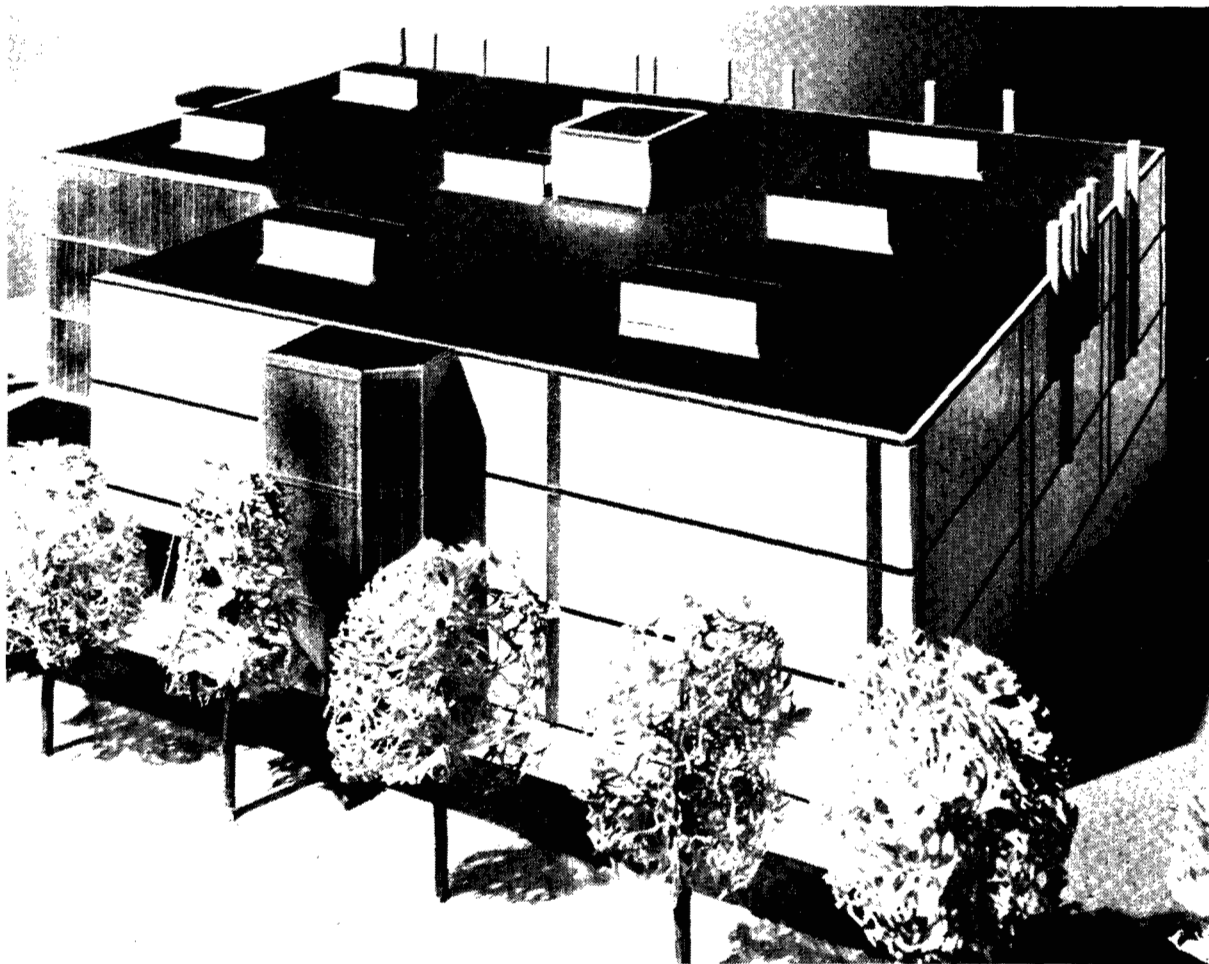


DR. ART MORE

Approximately 400 interested teachers in B.C. are already on a mailing list to receive this material, which is intended for supplementary use in classrooms, he said. Other interested teachers can receive this material by writing to the new Indian Education Research and Resource Center, he said.

Dr. More has already been responsible for

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*See INDIAN EDUCATION*



CONSTRUCTION will begin immediately on the first stage of a new Geological Sciences Center, shown in model form above. Funds for construction of the building, to be located on Stores Road immediately

to the west of the Geophysics Building, now total almost \$2,500,000 as the result of a capital funds drive in the mineral resource industry and a \$930,000 contribution from UBC's current capital budget.

## GEOLOGY CENTER BEGINS

The University of B.C.'s Board of Governors have awarded a contract to Smith Bros. & Wilson Ltd. for construction of the first stage of UBC's Geological Sciences Center.

The Contract is for \$2,181,363 to cover construction of the three-storey building except for completion of the interior of the third floor. Construction will begin immediately.

Total project cost including associated construction costs such as professional fees and furnishings will be \$2,449,857.

If a further contract for completion of the third floor interior is awarded by Dec. 31, 1970, Smith Bros. & Wilson will receive an additional \$328,317 and the total project cost will be \$2,813,416. If it is not awarded until June 1, 1971, the company will get another \$343,006 and total project cost will be \$2,828,887.

### FUNDS PLEDGED

A subscription of companies associated with the mineral industry began six months ago to raise \$3.1 million towards the cost of the Center. UBC is also contributing \$930,000 from its capital building funds for 1970-71. This amount, added to the \$1,561,000 received or pledged through the campaign so far, makes a total of \$2,491,000 now available for the first stage of the Center.

The first stage will house undergraduate laboratories, reading room, mineral and map

collections, shops and student lounges. The third floor will be for graduate student and research facilities.

The second stage will consist of an office block and the third and final stage will be a classroom building. Both would be built later adjacent to the main first-stage building.

### REPLACE HUTS

The 95,000-square-foot building, to be built on a site to the west of the Geophysics Building, will be based on an industrial design to achieve maximum space per construction dollar. It will be largely prefabricated. Components will be brought to the site and assembled.

The frame of the almost square building will be of light steel. One-foot-by-eight-foot modular panels of enamelled aluminum will be clipped onto the frame to form the exterior walls.

Windows within the laboratory areas will be occasional two-foot-wide floor-to-ceiling panels to minimize heating and cooling effects from outside the building. Full windows will be used in non-laboratory areas.

To avoid costly pipes running through floors and ceilings within the building, 18 ducts will rise in clusters on the exterior of the two walls.

The Center will replace four army huts, a two-storey tar-paper shack and facilities in the old Applied Sciences building which have housed the department.



ONE of two buildings delayed by a construction dispute which ended late in July is the west wing of the Biological Sciences Building, above. Completion of the building's interior should allow students and faculty members to move in at the end of September.

## Construction Delays UBC

Two major UBC building projects which were to have been completed in time for the opening of the 1970-71 winter session have been delayed as a result of a four-month labor dispute.

The dispute, which began April 11 with a lockout of construction employees, has delayed the opening of the west wing of the Biological Sciences Building and construction of prefabricated office and seminar space on the West Mall. Most other campus projects have been set back at least 3½ months as a result of the dispute.

The Biological Sciences Building addition, valued at nearly \$3,000,000, is about 97 per cent complete according to officials in UBC's Department of Physical Plant and requires only minor plumbing and mechanical work and installation of furnishings to be complete.

It is expected that faculty members and students will be able to occupy the building in the latter part of September or early October.

The new office and seminar building on the West Mall, valued at \$500,000, will probably not be ready until November, Physical Plant officials said. The new unit is located adjacent to the Ponderosa cafeteria.

The end of the construction dispute July 27 enabled two other major projects to begin at UBC. They are:

- The first stage of a \$5.5 million residence complex on the eastern edge of the campus adjacent to the Student Union Building. (See box on page opposite for details.)

- A new six-storey Instructional Resources Center, a major addition to the developing Health Sciences Center. The IRC, which will cost more than \$4,000,000, will contain more than \$350,000 in audio-visual equipment, and will be linked to the existing Woodward Biomedical Library and the planned University teaching and research hospital.

Currently under construction in the Health Sciences Center is a \$929,898 addition to the George Cunningham Building for the Faculty of Pharmaceutical Sciences. The four-storey addition will be mainly used for graduate research.

On June 10 UBC officially opened a new extension to the Woodward Biomedical Library which increased its book capacity from 100,000 to 200,000 volumes and more than trebled its seating capacity from 300 to

## UBC Prof Heads Royal Society

Prof. Roy Daniells, University Professor of English Language and Literature at UBC, is the new president of the Royal Society of Canada for 1970-71.

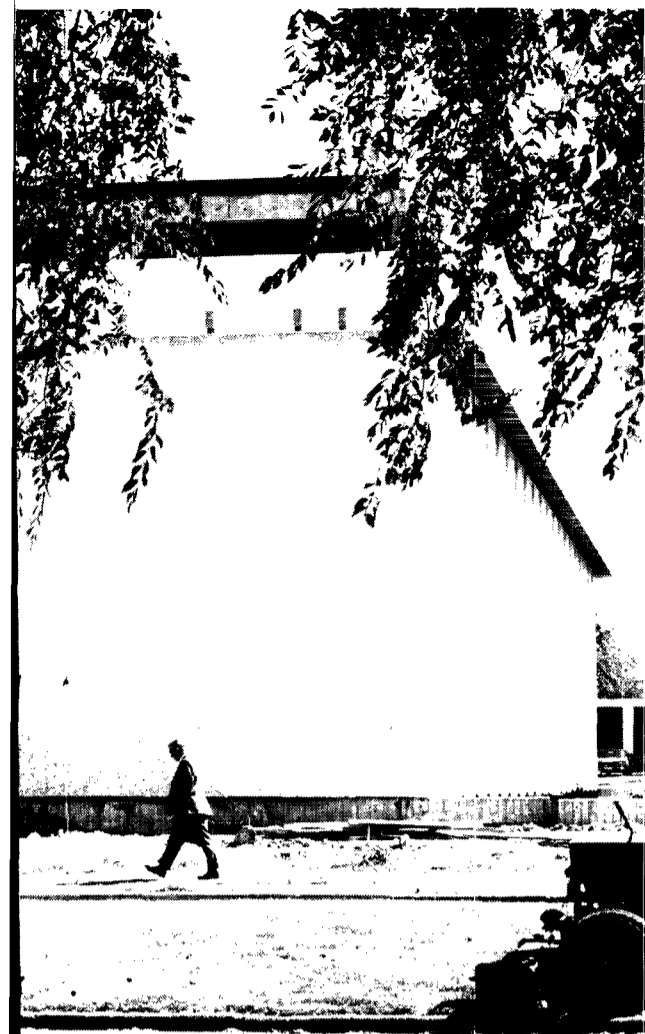
Prof. Daniells was installed as president of Canada's most prestigious academic organization in June at the Society's annual meeting in Winnipeg. He succeeds Prof. Claude Dolman, research professor in microbiology at UBC.

Dr. Daniells was also honored at the Society's meetings as the recipient of the Lorne Pierce Medal for 1970 "for achievement of special significance and conspicuous merit in imaginative or critical literature."

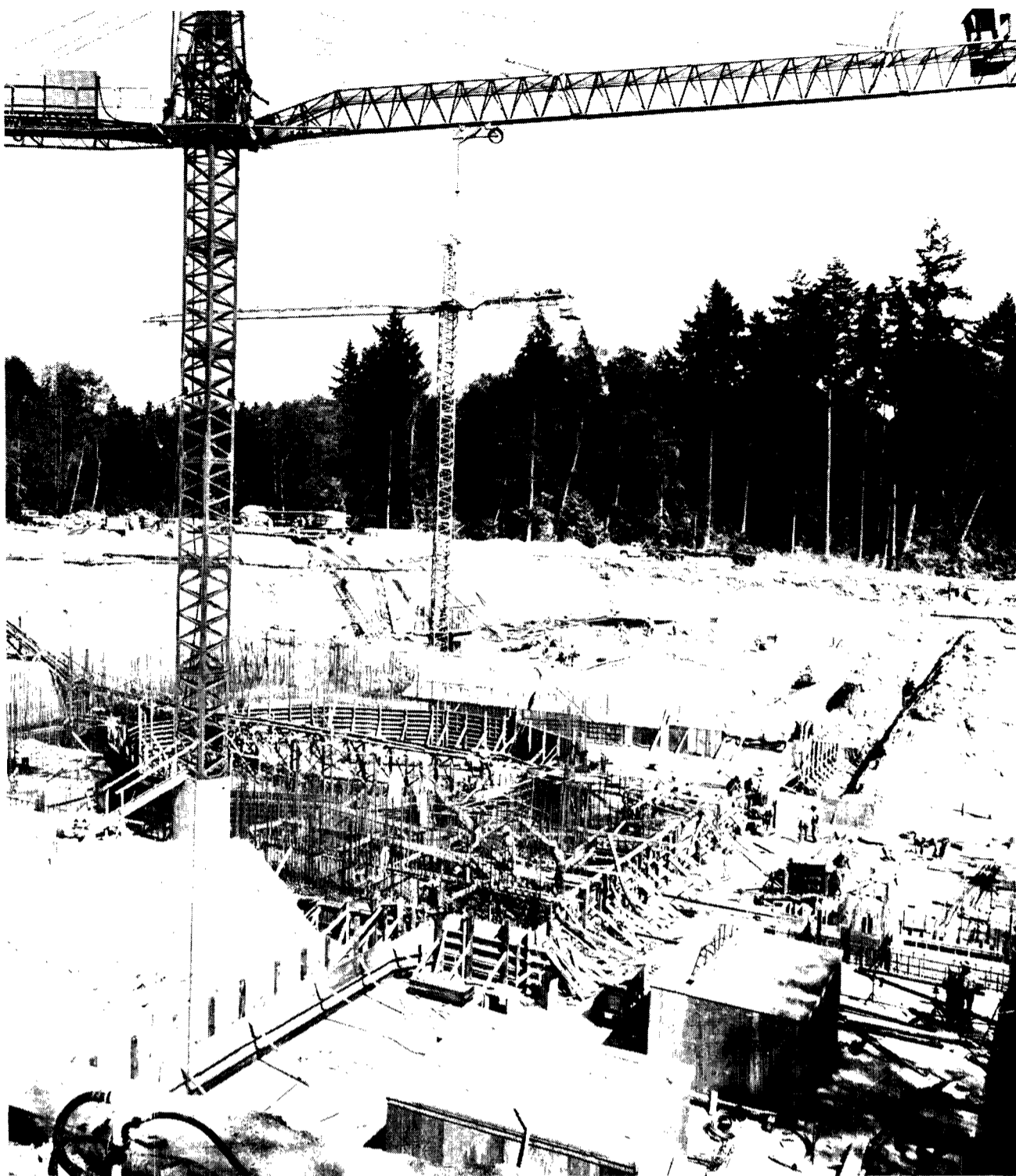
The medal was established in 1926 by Dr. Pierce, editor of the Ryerson Press of Toronto from 1920 to 1960, and honors Royal Society fellows or other Canadians who have rendered distinguished services to Canadian literature.

Previous recipients of the medal include poet Bliss Carman, humorist Stephen Leacock, and novelists Mazo de la Roche, Gabrielle Roy, Hugh MacLennan, Earle Birney, Morley Callaghan and Ethel Wilson.

On May 29, Prof. Daniells received the honorary degree of doctor of literature from McMaster University at that University's spring convocation in Hamilton, Ontario.



Meanwhile, construction continues on TRIUMF, right, the nuclear accelerator located in UBC's South Campus research area. Work began on the accelerator's sub-structure following completion of an excavation contract. Photos by Meredith Smith, UBC Photo Dept.



## on Dispute C Buildings

1,000. The \$2,000,000 addition was a personal gift to the University from the late Mr. P.A. Woodward.

UBC's Health Sciences Center will involve a new concept in the training of health professionals, including doctors, dentists, nurses, pharmacists and paramedical personnel.

All students in the Health Sciences will be trained together in the UBC Center with the aim of creating a "team approach" to health problems.

It will also serve as a major referral center for the entire province, enabling doctors and hospitals to send their most difficult cases to UBC. A third function of the Center will be to act as a major research facility in the Health Sciences.

The Center, located on the eastern edge of the

campus south of University Boulevard, now consists of three basic medical sciences buildings, the Faculty of Dentistry Building, the Woodward Biomedical Library, the Cunningham Building for pharmacy and a psychiatric treatment unit and neurological research tower, which is the first stage of the planned 440-bed teaching and research hospital.

Construction resumed on the following projects when the construction dispute ended:

- The substructure for the experimental building to house the nuclear accelerator known as TRIUMF. Cost of constructing the TRIUMF substructure, which began following the completion of a \$200,000 excavation contract in June, will be more than \$2,600,000.

Four universities - UBC, Simon Fraser University

and the Universities of Victoria and Alberta - are cooperating to build the machine, which will produce short-lived particles called mesons for experiments in the field of physics. Mesons also hold out some hope for treatment of certain types of cancer.

The total cost of the meson facility will be \$23.3 million. The bulk of the funds will come from the federal government.

- The \$700,000 addition to the Thea Koerner Graduate Center will not be completed until the latter part of March, 1971, instead of December, 1970, as originally anticipated.

The addition is being constructed with borrowed funds to be repaid out of an annual fee paid by each member of the Graduate Students' Association.

## Start Made on First Coed Dorm

Construction of UBC's first coeducational residence has begun on the eastern edge of the campus adjacent to the Student Union Building.

The new residence complex has been designed over a period of two years by the architectural firm of Reno C. Negrin and Associates in consultation with a UBC client's committee which included four students.

The contract for stage one of the project, which will house 788 students in two 16-storey towers, has been awarded to Frank Stanzl Construction Limited.

The total cost of stage one of the project, which includes a partially completed common block, is \$5,516,000.

The residence complex will house senior men and women students who have lived for at least one year in other UBC residences and are of legal age, according to UBC housing director Leslie Rohringer.

Each floor of the two residence towers in the complex will be divided into four self-contained quadrants. Each will be occupied by a group of six men or six women students.

Within the quadrant each student will have a

private bedroom for sleeping and study and will share certain common facilities - a lounge containing kitchen and dining facilities and a bathroom.

The living environment of the residence towers reflects a new direction in the provision of accommodation for students, Mr. Rohringer said.

He said the provision for housing men and women students separately in the same residence unit has been successfully carried out at a number of North American Universities.

Restricting the number of students in each quadrant to six is aimed at providing a small-scale, communal living situation and a more personalized atmosphere.

Stage one of the residence complex is being constructed under a negotiated contract arrangement which involved the early establishment of a cost ceiling for the project. Contractors then submitted proposals on the basis of a minimum guaranteed fee.

The negotiated contract also contains provision for a shared-savings agreement between the University and the contractor. If the contractor can complete the project for less than the fixed maximum price,

the savings will be divided between the University and the contractor on an agreed basis.

The bulk of the funds to construct the complex - \$5,170,000 - have been allocated by Central Mortgage and Housing Corp. and the balance has been borrowed by UBC from the Bank of Montreal.

The loans will be repaid out of rents and other services charged to students living in the complex in keeping with the UBC Board of Governors' policy of providing housing on a non-profit, self-liquidating basis.

The expected completion date of the project is late in 1971.

Providing funds are available from Central Mortgage and Housing Corp. next year, UBC will proceed with stage two of the project: construction of a third residence tower, two low-rise structures containing housekeeping units and completion of the interior of the common block to include dining and other facilities.

When complete, the development will house 1,386 students.

# Empire Pool Project Postponed by High Cost

It would cost \$427,918 to cover UBC's Empire Pool with an air-supported plastic roof for year-round operation.

And because of the high cost of the project, UBC's Board of Governors has decided not to proceed with it at this time.

A study of the costs of covering the pool was prepared over the summer by the Vancouver

consulting firm of Choukalos, Woodburn, McKenzie, Maranda Ltd.

Here is a breakdown of the costs:

— Cost of an air-supported structure mounted on an exterior perimeter wall, relocation of existing pool services to accommodate the new structure and replacement of existing pool deck to comply with the current Provincial health code — \$307,900;

— Replacement of some pool services — \$19,200;

— Changes in existing locker rooms and Gymnasium coffee shop to provide a central air-lock entrance to pool, a central equipment room and enlarged women's locker room — \$75,000;

— Associated costs — \$37,700.

The total project cost would be \$439,800 less \$11,882 which UBC would receive as a refund on federal sales tax, which leaves a net cost to UBC of \$427,918.

The funds pledged for the pool project total \$24,000. The UBC Alumni Association pledged \$12,000 and the Alma Mater Society and the 1970 graduating class each agreed to contribute \$6,000.

Deputy President William Armstrong said the cost estimates prepared by the consulting firm had been carefully discussed. The Board of Governors was unable to allocate funds from its current capital budget because of the pressing need to construct other academic buildings.

The question of borrowing funds to build the structure had also been discussed, he said. It was estimated that UBC could expect to regain only about \$200,000 over a period of ten years by charging admission to the covered pool.

The gap between the funds available to cover the pool and the estimated costs resulted in the Board reluctantly deciding that it could not proceed with the project, he said.

## Orientation Week Continues

Rene Levesque, leader of the Parti Quebecois, and former federal finance minister Walter Gordon are two of the major speakers who will take part in the student-organized Orientation Program at UBC next week.

The program, in addition to a series of noon-hour lectures on the theme of "Canada," includes a Sunday afternoon hootenany on Tower Beach and a two-day event on the theme of the "roaring twenties."

Following is a list of the remaining Orientation Week events:

### FRIDAY, SEPT. 18

12:30 p.m. — Discussion of "Decanadianization" of universities. Speakers are Mr. Robin Mathews and Dr. James Steele, both of Carleton University, Ottawa; Mr. Art Smolensky, former president of the UBC Graduate Students' Association; Prof. Cyril Belshaw, head, UBC Department of Anthropology and Sociology, and Prof. William Webber, UBC Faculty of Medicine and former president, UBC Faculty Association. SUB ballroom.

All Day — "Shinerama" in aid of the National Cystic Fibrosis Foundation.

### SUNDAY, SEPT. 20

12 noon — 6 p.m. — Hootenany on Tower Beach below UBC campus.

### MONDAY, SEPT. 21

12:30 p.m. — Discussion of "Federalism," SUB ballroom. Speakers are: Mr. Rene Levesque, leader of the Parti Quebecois, and Mr. A.C.L. Smith, assistant professor of history, UBC.

### TUESDAY, SEPT. 22

12:30 p.m. — Discussion of "Quebec." Speakers: Mr. Claude Charron, Parti Quebecois member of the Quebec legislature and Mr. Charles Gagnon, former leader of Quebec FLQ party. SUB ballroom.

### WEDNESDAY, SEPT. 23

12:30 p.m. — Labor speaker in SUB ballroom.

### THURSDAY, SEPT. 24

12:30 p.m. — Discussion of "American investment" in Canada. Speakers are Mr. Walter Gordon, former finance minister in the federal government, and Mr. Jim Harding, Simon Fraser University graduate. SUB ballroom.

12:30 and 6 p.m. — Films on the theme of the roaring twenties. SUB auditorium.

### FRIDAY, SEPT. 25

9 p.m. — 1 a.m. — Costume dance on theme of the roaring twenties in SUB ballroom.

## Chairman of UBC Board Retires

Walter C. Koerner has retired as chairman of the Board of Governors of the University of British Columbia.

Mr. Koerner, who has agreed to continue to serve as a member of the Board, will be succeeded as chairman by Mr. John E. Liersch, a Board member for eight years and former chairman of its property committee.

## Board Names Head for Linguistics

Professor Michael A.K. Halliday, an expert in Chinese language and linguistics, has been named head of UBC's Department of Linguistics.

Prof. Halliday, who is currently head of the Department of General Linguistics at the University of London, England, will take up his UBC appointment on Jan. 1, 1971.

Born in Leeds, England, Prof. Halliday was educated at the University of London, where he received the degree of bachelor of arts with first-class honors in Chinese in 1948.

His postgraduate work was done at the University of Cambridge, where he was awarded the master of arts degree in 1954 and the doctor of philosophy degree in 1955.

Prof. Halliday was in China from 1948 to 1950 studying Chinese language and linguistics at Peking University and Lingnan University in Canton.

He taught Chinese at Cambridge University from 1954 to 1958 and general linguistics at the University of Edinburgh from 1958 to 1963. He joined the University of London in 1963 as director of the Communication Research Center and was named professor and head of the general linguistics department there in 1965.

Prof. Halliday has visited North America on several occasions as a visiting professor at the University of Indiana, the University of California at Los Angeles and Yale University. In 1968 he was Ford Foundation consultant and visiting professor at the Central Institute of English in Hyderabad, India.

Prof. Halliday has published widely in his field. He is the author of several books and a lengthy list of papers and has contributed a number of articles to books on linguistics.

## Information Center Set Up

UBC's International House has been awarded a \$1,000 grant from the Koerner Foundation to establish an International Information Office on campus.

The primary objective of the new information center will be to answer inquiries from the campus community about educational travel, study and work opportunities in other countries. The service, however, is open to all Canadians seeking information on overseas programs.

The University has provided staff to begin collecting and disseminating information and liaison will take place with various University and community organizations that deal with overseas programs.

The Director of International House, Mr. Dave Roxburgh, welcomes inquiries about the service. Information on programs abroad should be sent to Miss Louise Exel, International House.

## INDIAN EDUCATION

*Continued from Page One*

designing a cross-cultural course for teachers of Indian students — Education 479 — which is currently being offered as a regular credit course by the UBC Faculty of Education.

The new Center is a cooperative project of the native Indian teachers of B.C., the Faculty of Education and the Center for Continuing Education of the University of British Columbia. It is being funded by the Education Division of the Department of Indian Affairs and Northern Development which has made an initial contribution of \$27,000 and has agreed to provide a total of \$100,000 toward the development of the Center over a three-year period.

Administrative arrangements of the Center, which is located in Hut 012, west of the UBC Education building, are to be supervised by Mr. Philip E. Moir, Director of Education-Extension programs.

## UBC Athletes Take Part in Student Games

UBC's Thunderbird basketball team, which earlier this year won the Canadian Intercollegiate championship, finished 11th in competition with 29 countries at the World University Games in Turin, Italy, Aug. 26 — Sept. 6.

The 'Birds, coached by Dr. Peter Mullins, won four and lost four in 11 intensive days of competition. The UBC team beat university squads from Portugal, Czechoslovakia, Rumania and Hungary, but failed to get by a team from Korea, which advanced to the finals.

The basketball competition was eventually won by a Russian team, which defeated a United States squad to capture the championship.

Three women athletes from UBC qualified for swimming, track and field and gymnastic events, but failed to win medals.

Sylvia Dockerill placed seventh out of eight contestants in the 200 meters breast stroke swimming final and Brenda Eisler managed a sixth place finish out of 12 contestants in the long jump.

Sandra Hartley, one of Canada's leading gymnasts, placed 18th out of 29 contestants in her event.

UBC volleyballer Ken Witzke helped to bolster a University of Montreal team which finished sixth in a field of 19 teams.

**UBC**  
**REPORTS**

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