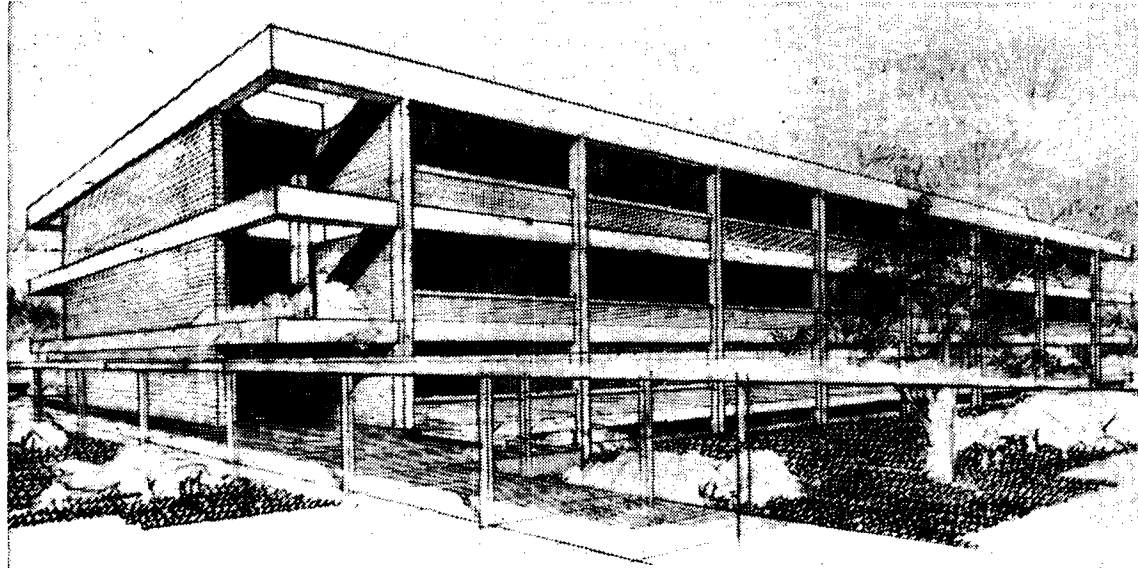


# GRADUATES ELECT SENATORS

## U.B.C. REPORTS

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**CONTRACT** for a new building for the department of chemical engineering, shown in artist's sketch above, will be awarded at the end of August, President N. A. M. MacKenzie has announced. It will be one of six new buildings, to be constructed as funds become available, for the faculty of applied science on a 15-acre site south of the present biological sciences building. The first building will contain a total of 30,000 square feet for the chemical engineering department and will cost approximately \$750,000. Expected completion date is September, 1961.

### PRESIDENT MacKENZIE ANNOUNCES

## 15 Acre Development for Applied Science

Plans for the development of a new 15-acre site for the faculty of applied science at UBC have been announced by the president, Dr. N. A. M. MacKenzie.

Contract for the construction of a new building for the department of chemical engineering—the first of six buildings to be built on the site—will be awarded at the end of August, the president added.

#### CENTRAL BUILDING

The new development will be located south of the existing biological sciences building and when completed will take in part of the UBC farm area presently occupied by the poultry husbandry department.

The development calls for construction of a central building containing a reading room and classroom facilities required for engineering students as a body.

Grouped around the central block will be five smaller buildings for the departments of chemical, civil, mechanical and electrical engineering and the department of mining and metallurgy.

The first building, containing 30,000 square feet for the department of chemical engineering, will be three storeys in height. The building will cost approximately \$750,000 and will be complete in September, 1961.

#### OVERCROWDED

Construction of other buildings in the development will be undertaken as soon as funds are available, President MacKenzie said.

Dean David Myers, head of the faculty of applied science, said construction of the building for chemical engineering was being undertaken immediately because of serious overcrowding in that department.

"Our enrolment last year in all departments was 1042," Dean Myers said, "and if we follow the rate of growth of the last 35 years we will double our enrolment by 1970."

Dean Myers said the new development would also enable faculty members to carry out research which is not presently

### UBC Ayrshires Win Canadian Breeding Award

A "constructive breeder award" offered for the first time this year by the Canadian Ayrshire Breeders Association has been won by UBC's Ayrshire herd.

Stringent and exacting requirements in milk and butterfat production and in type had to be met in order to qualify for the award, according to Dr. J. C. Berry, professor of animal husbandry in the faculty of agriculture.

The University Ayrshire herd originated in 1929 when 23 females and a bull were selected from the herds of leading Scottish breeders by Professor emeritus H. M. King. In charge of the herd for 20 years was Mr. John Young, who came to Vancouver when it was imported, and is now retired.

Since the retirement of Mr. Young the herd has been tended by Mr. William Child and at present by Mr. J. C. McGregor. Following Prof. King's retirement Dr. Berry became responsible for direction of breeding program.

In the past the herd has won several awards at the Pacific National Exhibition and set a number of production records that rank with the highest in Canada.

undertaken because of a lack of space. The existing engineering building is given over almost completely to teaching facilities, he said.

#### SIMPLE AND ECONOMICAL

Dean Myers emphasized that the buildings in the new development are being planned on a simple and economical basis. "It is far more important to spend money on men and equipment than on elaborate buildings," he said.

"What is important," he added, "is to provide adequate space in terms of quantity and quality to enable people to get on with essential teaching and research."

★ ★ ★

Contract for construction of the new graduate center on the west mall opposite International House has been awarded to Anglin Norcross Western Ltd.

Funds for construction of the center were a gift to the University from Dr. Leon Koerner and the center will be named for his wife, the late Thea Koerner, who died in July last year.

The four-storey building will have 17,000 square feet of floor space and will be equipped with a library, projection room, cafeteria and seminar and committee rooms. It will be complete next summer.

The center will be for the use of the more than 600 graduate students presently enrolled at UBC.

★ ★ ★

In September the doors of four new buildings will swing open to accommodate students for the 1960-61 winter session. They are:

- A fourth residence for men costing \$417,369. Three residences and a central dining and recreational building, built at a cost of

Continued on Page 3  
See NEW BUILDINGS

## Grads Reelect Seven From Previous Senate

The names of the 15 UBC graduates elected to the University senate by convocation have been announced by the registrar, Mr. J. E. A. Parnall.

Convocation is made up of all UBC graduates, original members of convocation and those members of the faculty named by the president.

A total of 66 persons serve on senate. Other representatives are elected or appointed by the faculties, the lieutenant-governor in council, Victoria College, high school principals, affiliated colleges, the B.C. Teachers' Federation and the board of management of the Alumni Association.

Reelected from the previous senate were:

- Kenneth P. Caple, BSA'26, MSA'27, B.C. director for the Canadian Broadcasting Corporation.
- Arnold Webster, BA'22, MA'28, Vancouver secondary school principal.
- Ian McTaggart-Cowan, BA'32, Ph.D., head of UBC's department of zoology.
- Mrs. H. F. Angus, BA'23, former chairman of the Vancouver board of school trustees.
- Joseph Kania, BASc'26, MASc'28, PhD, director of Pemberton Securities Ltd., Vancouver.
- Walter N. Sage, BA, MA, PhD, professor emeritus and former head of UBC's history department.
- Stuart Keate, BA'35, publisher of the *Victoria Daily Times*, Victoria.
- Mrs. F. M. Ross, BA'25, MA, chatelaine of Government House and wife of B.C.'s lieutenant-governor. Mrs. Ross served previously on the senate from 1948 to 1951.

Elected to senate for the first time were:

- Eric P. Nicol, BA'41, MA'48, columnist for *The Province*, Vancouver.
- The Honourable Mr. Justice David Verchere, BA'26, judge of the supreme court of B.C.
- Willard Ireland, BA'33, MA, provincial librarian and archivist, Victoria.
- John L. Keays, BA and BASc'41, MASc'42, PhD, assistant research director, MacMillan, Bloedel and Powell River Co.
- Mrs. T. R. Boggs, BA'29, who writes for *The Sun*, of Vancouver, under the name of Mamie Maloney.
- Joseph V. Rogers, BASc'33, manager, engineering division, Consolidated Mining and Smelting Co., Trail.
- G. Cecil Hacker, BA'33, publisher of the *Abbotsford News*, Abbotsford, B.C.

## 11,300 Expected to Enrol in September

About 11,300 students are expected to enrol in September for the 1960-61 winter session according to UBC's registrar, J. E. A. Parnall.

Mr. Parnall said the percentage increase for the coming term was expected to be about the same as last year. Enrolment jumped about 6.5 per cent in 1959. A similar increase would push UBC's enrolment over the 11,000 mark.

Meanwhile UBC's 1960 summer session is enjoying the highest enrolment in its 41-year history. A total of 4,320 students are enrolled for degree courses and an additional 900 are taking courses in the summer program administered by the extension de-

partment.

Last year 3,828 enrolled for credit courses and 800 attended courses, seminars and lectures offered by the extension department.

Several UBC officials have speculated that the increase in summer session enrolment may be due to the scarcity of jobs in B.C. this summer. "Rather than spend an idle summer many students have enrolled for summer courses," was the way one official put it.

In mid-July the UBC employment office still had 1000 students registered for jobs. John F. McLean, director of personnel and student services, said there were three basic reasons for the lack of summer jobs:

1. A general business slowdown.
2. Slowdown in the construction industry which has traditionally provided a large number of jobs for students.
3. An increase in the number of businesses which close down completely for vacation periods thus eliminating the need for summer replacement staff.

Foreign students especially have a hard time finding jobs, said Mr. McLean, because they are handicapped by language difficulties and job experience.

## Counselling Tests For B.C. Students

Out-of-town students who wish to take counselling tests administered by the division of student services can do so on August 13.

The tests, which take four hours to write and are followed by an interview with a trained counsellor, will be held in the armoury beginning at 9 a.m.

During the summer five counsellors have been interviewing 200 to 300 students every week. More than 1300 students have written the tests so far this year.

In addition counsellors have been interviewing all those students who failed during the winter session.

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UNIVERSITY INFORMATION OFFICE

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**BRIGHT RED** firetruck, assembled for an outlay of less than \$2000, now protects the University's 10,000-acre research forest north of Haney, B.C. Pacific GMC, Imperial Oil Company, and Willock Truck Equipment, all of Vancouver, provided the components

and labour in assembling the truck. At the wheel of the truck is Dave Sorley, forest foreman, while resident forester Gerry Tessier stands on the running board. Truck will also be used to fight outbreaks of fire in adjacent Maple Ridge municipality.

### NEW FIRE TRUCK AT FOREST

## Protecting 10,000 Acres

Better fire protection for the University of British Columbia's 10,000-acre research forest near Haney in the Fraser Valley is now a reality.

For an outlay of less than \$2000, UBC forest officials have pieced together a bright red fire truck equipped with a tank holding a thousand gallons of water and a high pressure pump and other fire fighting equipment.

The truck will also provide protection for some areas of the municipality of Maple Ridge, which is adjacent to the forest. Forest officials have also made an arrangement with the B.C. Forest Service, Mission district, to assist them in fighting any outbreaks which may occur near the forest.

Fire chief J. R. Stanyer of Haney and Bruce Webster, Mission district ranger, both agree that the new piece of equipment will be a most welcome addition to the fire fighting resources of the district.

The man responsible for finding the components for the fire truck is J. P. Tessier, resident forester at the UBC property and

a graduate of the University of New Brunswick and Yale University.

The truck, a 1948 General Motors Corporation three-ton, was purchased from Pacific GMC Ltd., of Vancouver. The thousand-gallon tank is surplus used equipment bought from Imperial Oil Company, also of Vancouver.

The task of mounting the tank on the truck and reinforcing the chassis was carried out by the Willock Truck Equipment Company in Vancouver. All the fire equipment on the truck, including the pump, were purchased from Wajax Equipment Ltd.

Mr. Tessier says the UBC forest, which is valued at more than a million dollars, is now protected by more equipment than is required by the B.C. Forest Service regulations.

"The big advantage," he says, "is that we are now completely mobile. We can get to any outbreak in a very short time and with our new resources we should be able to get things under control in short order."

### MULTIPLE SCLEROSIS RESEARCH

## Baffling Disease May Be Caused by Element Lead

A University of British Columbia professor is in Great Britain this summer gathering evidence to support a theory that the element lead may be the cause of the baffling disease multiple sclerosis.

The theory that lead and multiple sclerosis are linked has been put forward by Professor Harry V. Warren, a member of the department of geology and a pioneer in the new field of biogeochemistry.

For the past 15 years Prof. Warren and research associate Dr. R. E. Delavault have been analyzing vegetation to determine the metal content of soil on the theory that the root system of trees and shrubs picks up traces of such elements as copper, lead, zinc, gold and silver.

During their investigations the scientists encountered numerous variations from the normal. These variations have been so great in some cases that they were led to the conclusion that the health of animals and humans might be effected if these variations extended to vegetables.

The researchers have found that vegetation can concentrate the element lead by a factor of as much as ten times that found in the soil in which they were growing. They have found the element concentrated in forest trees, barley, wheat and vegetables such as carrots despite the fact that the soil in which they grew carried considerably

lower concentrations.

"The crucial point in all this," says Prof. Warren, "is the form in which the lead is held in the vegetation. Some forms of the element pass through animal and human systems without effect but other forms may prove poisonous.

"Our interest in lead," says Prof. Warren, "was further stimulated by the fact that multiple sclerosis has a comparatively high incidence in some parts of Scandinavia and the British Isles and a relatively low incidence in other areas of the same countries which are closely related geographically."

All the areas with a low incidence of multiple sclerosis are underlaid with rock formations which do not carry lead. "On the other hand," says Professor Warren, "in areas with a high incidence of multiple sclerosis there appears to be above normal concentrations of lead."

In North America the prevalence of the disease has been reported high in southwestern Quebec, southern Ontario and central Nova Scotia—areas where there are above normal amounts of lead in the soil.

Aided by a grant of \$1000 from the Multiple Sclerosis Foundation of Canada, Dr. Warren is visiting Britain to carry out further studies in areas where there may be abnormal concentrations of lead.

### FACULTY ACTIVITIES

## Faculty Attend Many Important Conferences

DR. GEORGE L. PICKARD, director of oceanography and professor of physics, attended sessions of the International Union of Geodesy and Geophysics which opened July 25 in Helsinki, Finland. He also visited oceanographic laboratories in England and Scandinavia.

DR. MARVIN DARRACH, head of the department of biochemistry, was elected president of the Canadian Biochemical Society at June meetings in Winnipeg. DR. S. H. ZBARSKY of the same department and associate editor of the *Canadian Journal of Biochemistry*, was elected to the nominations committee.

MISS CHARLOTTE BLACK, director of the school of home economics, attended the 50th anniversary of the establishment of home economics in the University of Manitoba in Winnipeg in June. She later attended the biennial meeting of the Canadian Home Economics Association in Edmonton.

DR. J. LEWIS ROBINSON, professor and head of the department of geography, was one of five Canadian delegates to the ninth quadrennial meeting of the International Geographical Union in Stockholm, Sweden, in July. He also represented Canada at the 1956 meeting in Brazil. Prior to the Union conference, he was a guest lecturer at the University of Edinburgh and University of Reading, and made a tour of central Europe with members of the Royal Scottish Geographical Society.

DR. H. PETER OBERLANDER, associate professor of planning, was Canada's representative to the 1960 World Planning and Housing Congress in San Juan, Puerto Rico, where he delivered a paper on "The contribution of physical planning to economic and social development." He also attended the annual meeting of the Town Planning Institute of Canada at the University of Montreal where he spoke on "Recent trends to planning education in Canada."

DR. MAX HOWELL, physical education, attended the June meeting in Ontario of the board of directors and the representative council of the Canadian Physical Education Association. He later addressed the recently-formed Ontario Physical Fitness study committee on "Testing for physical fitness."

DR. JANET R. STEIN, instructor of biology and botany, will attend the joint meetings of biological societies sponsored by The American Institute of Biological Sciences at Oklahoma State University in Stillwater, Okla., from August 28 to September 1, where she will present a paper co-authored by DR. R. F. SCAGEL, associate professor of biology, botany and zoology, entitled "Some observations on the nanoplankton in a British Columbia inlet." Also attending the meetings will be DR. ROBERT BANDONI and DR. GLEN ROUSE, assistant professors in the same department. Dr. Stein will later go to the Eastern New Mexico University where she will be visiting lecturer in the National Science Foundation Science Institute.

DR. D. J. WORT, professor of biology and botany, is a visiting lecturer during the summer session at the Washington State University in Pullman, Wash.

PROFESSOR JACOB BIELY, head of poultry science, was elected president of the Nutrition Society of Canada at its third annual meeting in Guelph, Ont.

PROFESSOR RONALD E. BURGESS of the department of physics will attend the International Conference on Semiconductor Physics in Prague in August. He is also a Canadian delegate to the General Assembly of the Union Radio Scientifique Internationale to be held in London, England, in September and is the organizer of the session on molecular and parametric amplifiers. Professor Burgess was chairman of a symposium on "Fluctuations in solids" at the Armour Research Foundation in Chicago last May.

PROFESSOR FREDERIC LASSERRE, director of the School of Architecture, has been awarded a senior fellowship by the Central Mortgage and Housing Corporation to study aspects of design and planning which affect mobility of people in large housing schemes throughout Europe. He will have headquarters in London. During his leave of absence from September 1, 1960, to September 1, 1961, PROFESSOR WOLFGANG GERSON will be acting director of the school.

PROFESSOR J. E. BIER of the department of biology and botany will attend the next meeting of the International Union of Forest Research Organizations in Scotland where forest areas between Inverness and Aberdeen will be studied. He attended the last meeting of I.U.F.R.O. held in the Netherlands in 1954. Professor Bier, who will be accompanied by Mrs. Bier, will also visit various forest research institutes throughout Europe.

MRS. BERYL E. MARCH, research associate in the department of poultry science, has been awarded a Royal Society and Nuffield Commonwealth bursary for advanced study at Cambridge University in England. She will carry out further studies on the nutritive value of fish meals used in poultry feeding.

PROFESSOR FRANK A. FORWARD, head of the department of mining and metallurgy, has been given an award for the outstanding "technical achievement" of 1959 by the American magazine *Mining World*. The work for which Prof. Forward received the award was a new leaching process for the recovery of zinc from ores and concentrates. He had earlier invented a high temperature and pressure ammonia leach process for nickel refining.

## FIRST SUCH UNIT IN CANADA

# Research Unit for UBC Result of CARS Bequest

A research unit for the study of connective tissue diseases and rheumatology has been established in the faculty of medicine at the University of British Columbia.

A joint announcement regarding the new unit was made re-

cently by President N. A. M. Mackenzie and Mr. A. F. McAlpine, president of the B.C. division of the Canadian Arthritis and Rheumatism Society.

## FOR RESEARCH

The project has been made possible by a bequest of \$175,110

by the late E. E. P. Cunliffe of Kamloops, an arthritic who set aside the residue of his estate to CARS "for the sole and exclusive purpose of research carried on by that body."

The bequest will be amortized at \$20,000 per year over a period of ten years. The project marks the fulfilment of plans made by the founders of CARS more than 14 years ago.

## ADVANCES POSSIBLE

"I am very pleased with the support given by CARS to this new research activity," said Dean John F. McCreary, head of the faculty of medicine. "Rheumatism and connective tissue diseases represent major causes of human discomfort and ill health. We seem to be on the threshold of a period in which advances in the knowledge of these diseases can be made. It will be very valuable to have a research unit actively engaged in this field in our province."

Dr. Robert B. Kerr, head of the department of medicine, said: "I am very pleased to know of the provision of means by which the various aspects of rheumatic diseases can be furthered within the university. I would expect that in this manner the knowledge concerning this group of diseases will be extended, particularly from the standpoint of the knowledge of basic factors involved as well as the application of knowledge to the handling of patients suffering from these disorders."

Although considerable research into the rheumatic diseases is presently being carried on in universities and hospitals throughout the country, the proposed unit will be the first of its kind in a Canadian university.

Dr. Arthur Bagnall, chairman of the National Medical Advisory Board of CARS, said: "This is the culmination of our efforts to bring the research field up to the standards set by CARS and the medical profession for treatment."

## SUPPORT RESEARCH

The B.C. Division of CARS has financed supported rheumatic research to the extent of \$160,000 since 1951, according to Dr. Bagnall, who said that the Society hopes to double its research program in the next two years.

## NEW BUILDINGS

Continued from Page 1

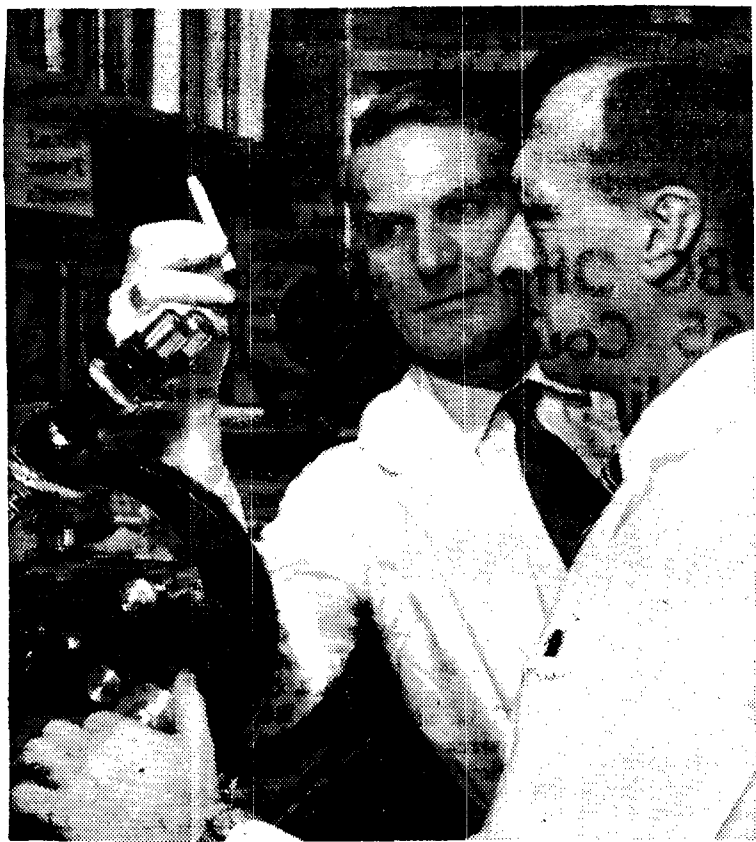
\$2,123,886, have been completed and are in use.

- An addition to the Wesbrook building for the faculty of pharmacy costing \$663,500. Opening of the wing will enable the faculty to move from its present quarters in the biological sciences building.

- An addition to the Buchanan building costing \$1,283,000 including \$525,280 from the Canada Council. The wing is a multi-purpose classroom building and will be used by a number of departments.

- A new south wing to the library will be ready in September and will be opened officially sometime during the fall. The wing will double the library's present seating capacity and provide space for special collections of books.

The wing will cost \$1,708,758, of which \$824,000 came from the Canada Council and \$425,000 as a gift from Mr. Walter Koerner.



**CANCER RESEARCHERS** Charles Culling, left, and Phillip Vassar have completed the first survey of smoking habits of Canadian college students. They discovered that Canadians begin smoking earlier than Americans and have urged a campaign to discourage teen-agers from smoking. Data on smoking habits was obtained from UBC students and nurses at Vancouver General Hospital.

## Smoking Survey Shows Canadians Start Early

A campaign to discourage teen-agers from starting to smoke has been advocated by two UBC medical researchers who have just completed the first study of the smoking habits of Canadian university students.

After studying the smoking

habits of almost 1000 UBC students and student nurses, the researchers—Dr. Phillip Vassar and Charles Culling of UBC's department of pathology and Dr. A. M. Saunders of the Vancouver General Hospital—have reached the following conclusions:

## BEGIN EARLIER

- Canadians begin smoking earlier than Americans but later than teen-agers in Britain and Norway.

The mean age at which Canadians begin smoking is 16.25 years, the report states, with 83 per cent taking up cigarettes before the age of 18. In the U.S. the mean age for beginning smokers is 18 and in Britain and Norway, 15 years. Data assembled by the scientists shows that 85 per cent of Canadian smokers start between the ages of 13 and 19.

- The proportion of smokers among girls is as high as that among men—a result which the researchers are at a loss to explain since it contrasts sharply with a similar study carried out in Texas.

## FASTER IN B.C.

Other foreign reports have consistently shown that male smokers far outnumber women smokers. The proportion of women smokers has been rising steadily since the war but apparently the increase has been faster in B.C. than elsewhere.

- Once an individual has started smoking, he or she is probably addicted to the habit for life.

The proportion of non-smokers in any group is fairly constant at 43 per cent the scientists found and of the remainder 11 per cent will be smokers who have stopped.

This remainder of 11 per cent "consists of a floating population of addicted smokers attempting to break the habit," the report states.

The report continues: "This is supported by figures from the U.S.A. which show that of eight tobacco addicts who have not smoked for one year, seven will have returned to smoking within nine years."

## ADDICTED FOR LIFE

The scientists conclude: "It would appear the only way to save future generations from the effects of smoking is an effective campaign directed toward the young teen-aged groups in order to discourage them from ever starting to smoke. For it appears that once a person starts to smoke he or she is probably addicted to the habit for life."

The report on smoking habits is an outgrowth of a search for a diagnostic test for lung cancer which the three scientists have been working on at the Vancouver General Hospital.



**FERTILITY** is the title of sculpture by Jack Harman which won the \$600 prize offered by UBC for the best piece shown in the biennial exhibition of the Pacific Northwest Institute of Sculpture. The outdoor exhibition will be on display at UBC until September 30. Mr. Harman's statue will remain at UBC permanently.

## New UBC Department Gets \$60,000 Grant

The W. K. Kellogg Foundation of Battle Creek, Michigan, has made a grant of \$60,000 for support of UBC's newly-established department of continuing medical education in the faculty of medicine.

Dr. Donald H. Williams, one of Canada's leading dermatologists, heads the new department which started operations on July 1 as a joint project between the faculty of medicine and the extension department.

## ORGANIZE COURSES

The new department will organize post-graduate courses and improve internship and residency training programs by working with B.C. hospitals.

Dr. John McCreary, head of UBC's medical faculty, said the Kellogg Foundation now assists post-graduate medical training programs at two other Canadian universities. He added that only at UBC had a special department been established with a full time professor.

## UNIVERSITY HOSPITAL

"Rapid development of new hospitals calls for improved continuing medical education with an opportunity to upgrade hospital standards, equipment and operation, Dean McCreary said, "and with a new university hospital projected for the future, the program should also pave the way for a close working relationship between outlying hospitals and the new institution."

## Crippled Children Attend Camp at Research Forest

Ninety crippled boys and girls are having a camping holiday this summer at Loon Lake in UBC's 10,000-acre research forest north of Haney.

The camp, organized by the B.C. Society for Crippled Children, is directed by Dr. John Reid, assistant professor of pediatrics and preventive medicine, assisted by a staff trained in the needs of the handicapped—medical students, teachers and recent physical education graduates.

The youngsters, who suffer from asthma, congenital heart disease, rheumatoid arthritis and diabetes, are on crutches and in wheel chairs. A few can move around freely.

Dr. Reid said that everything is planned so that the handicapped children have an opportunity to do things they would never do in the city. Doctors and clinics throughout B.C. have recommended the children who attend the camp.

Twenty-seven boys attended the camp early in July. Later in the month 31 girls arrived for a two-week stay.

