

UBC REPORTS

January 21, 1981

Volume 27, Number 2

UBC awarded big share of key research grants from Ottawa

About one-quarter of research grants for projects critical to the national interest have been awarded by Ottawa's primary research funding

agency to UBC.

The Natural Sciences and Engineering Council says "the strategic grants in areas of national concern"



A spouted bed that keeps coal particles in constant motion is used by a research team in UBC's Department of Chemical Engineering. The group has received a \$68,000 strategic grant to help try to solve problems in energy production.

New computer installed

UBC's computing capacity increased by 65 per cent last weekend with the installation of a new machine that is at "the leading edge of the art," according to Computing Centre director Al Fowler.

UBC traded in its Amdahl 470 V6 II model and paid \$1.3 million to acquire the new Amdahl 4070 V8. If the new computer had been purchased without a trade-in it would have cost \$2.5 million.

The old computer's system was fully loaded, Fowler said. "The new machine will relieve the strain on the system and provide for added use over the next two years."

Installation of the new computer will maintain UBC's position as one of

Canada's leading computing centres, Fowler added. The centre is open seven days a week and operates on a round-the-clock basis for five days a week.

Faculty research, and research and development carried out by the Computing Centre itself account for about 60 per cent of computer time. About 25 per cent of capacity is used by students as part of academic courses and the balance is used for UBC administrative purposes.

aim at contributing to understanding or solving problems in communications, energy, food production, oceans and poisoning of the environment.

Forty-six of the 200 grants announced by the council went to UBC researchers in competition with more than 30 other Canadian universities.

The UBC grants represent more than \$2 million of the total value of \$8.3 million awarded by the council.

Some of the projects:

- Solving problems involved in using nuclear fusion rather than the conventional fission as an energy source, Profs. A.J. Barnard and Jochen Meyer, physics department;
- Applying a new method to overcome problems in using some B.C. coals as a source of fuels, a group in the chemical engineering department led by Prof. Norman Epstein;
- Develop a new battery based on the metal molybdenum, which B.C. has in abundance, to eliminate the weight problem now associated with conventional lead batteries, Prof. Rudy Haering, physics department;
- Develop a more efficient method of testing for agents that cause cancer, mutations and birth defects, Dr. Thomas A. Grigliatti, zoology department;
- Improving water quality by detoxifying pulp mill effluent, Prof. James Kutney, chemistry department;
- Design of off-shore structure in shallow water, Dr. M.S.Q. Isaacson, civil engineering department;
- Study of intermediate and large-scale motions in the Northeast Pacific Ocean, Dr. L.A. Mysak, oceanography department;
- Managing coho salmon in the Gulf of Georgia, Prof. Peter Larkin, zoology department.



Paul Bullen



Paul Bullen, chief accountant, Department of Finance, and Ken Andrews, an electrician for Physical Plant, have been re-elected to serve on the Board of Directors of the employed staff pension plan. It is the fifth two-year term for each.

Traffic hours change

If your car is towed away for improper parking, make sure you claim it at the traffic office, 3030 Westbrook Mall, before 6 p.m. It's either that or wait until the next morning.

New hours for the traffic office are 7 a.m. to 6 p.m., Monday through Friday. The office will be closed on weekends and holidays.

The new hours came into effect Jan. 10 in the interests of economy, and practicality. "Evenings and weekends have always been slow," said a spokesperson for the office. "Some Sundays we've had as few as one or

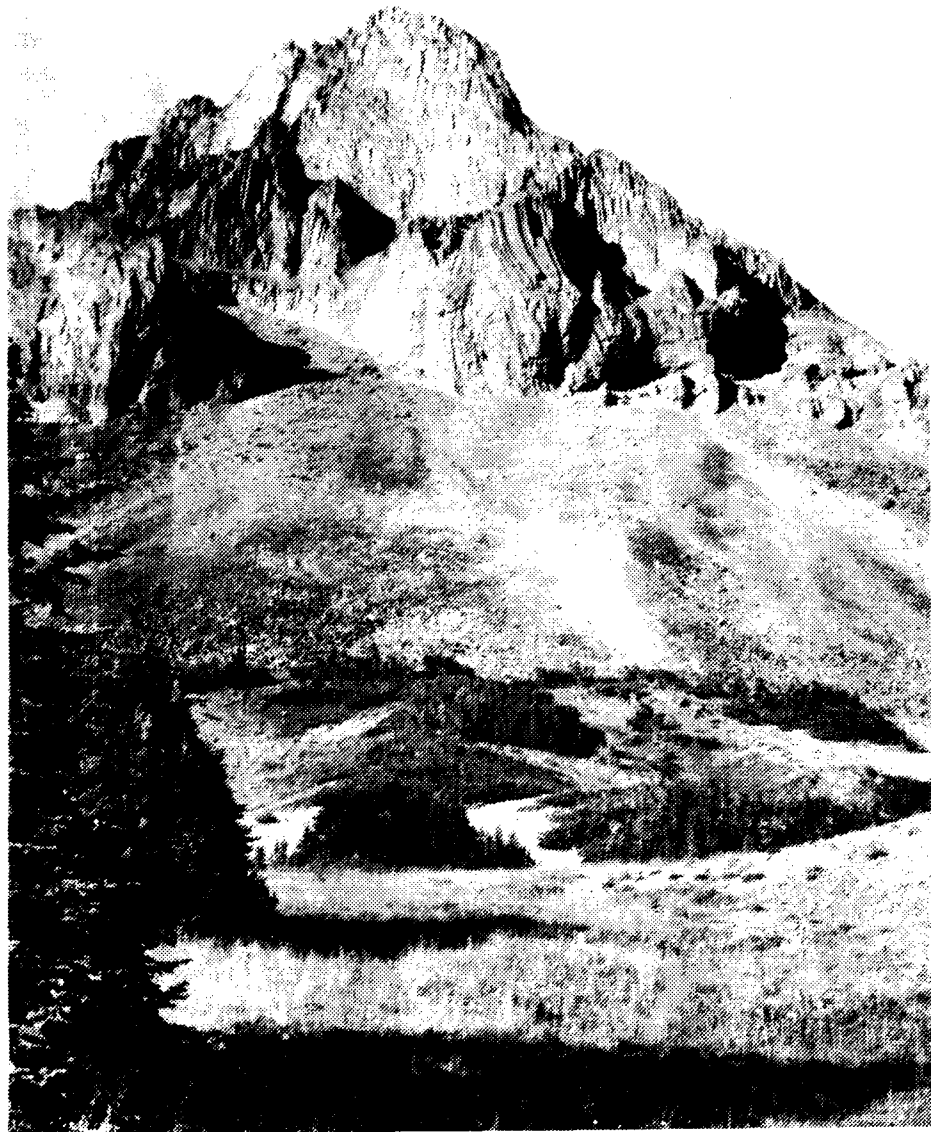
two people come in."

Old hours were 7:30 a.m. to 9 p.m., seven days a week.

The spokesperson said the office often was busy first thing in the morning, issuing temporary parking passes for students, faculty and staff who were driving a different car for a short period.

"There were often drivers waiting for us to open the door, so this half-hour earlier start should be a welcome move."

The new hours are for the traffic office only and do not involve the security patrol.



Volcanic Far Mountain forms part of Ilgatchuz Ecological Reserve in Chilcotin district of British Columbia.

Ecologists meet here

The 13th annual general meeting of the Ecological Reserves Committee of B.C. will be held in Salons A, B and

6th 'Mould' open to all

Physical and mental fitness is the theme of this year's "Breaking the Mould" conference at the University on the afternoon of Jan. 22.

Although this sixth annual conference is primarily for teachers, it is open to all. It is free, advance registration is not required, and it runs from 12:30 p.m. to 5:30 p.m. in the Scarfe Building.

Following the keynote address by Vancouver alderwoman May Brown, those attending will have a choice of 14 workshops or seminars, in four general areas—stress, nutrition, fitness and lifeskills.

The hour-long workshops are on such topics as Stressful Situations in Classroom Teaching and Skills for Coping with Them, Does Advertising Undermine Our Nutrition Fitness?, Facts and Fantasy of Our Own Nutrition, Smoking Cessation, and Making the Most of Yourself—Career Planning and Job Opportunities.

The conference winds up with a panel discussion on fitness and the curriculum.

The conference is sponsored by the UBC Faculty of Education. Further information is available through Prof. Penny Gouldstone at 228-6200.

C of the UBC Faculty Club this Friday (Jan. 23) starting at 10 a.m.

The occasion marks the 10th anniversary of the passage of the Ecological Reserves Act (1971) and the man who shepherded the bill through the Legislature, Ray Williston, will be at the meeting.

The meeting will be opened by Douglas Kenny, UBC president.

Vladimir Krajina, honorary professor of botany and an original member of the reserves committee, said 100 reserves have been established in 10 years, and 20 more proposals will be discussed on Friday.

The 100th reserve, 101 hectares on the north end of Osoyoos Lake in the Okanagan, was proclaimed on Dec. 18 by James Chabot, minister of lands, parks and housing.

The ecological reserves are areas that will be left in their natural state—no logging, hunting, fishing or other activity that might alter the balance of nature.

Friday's meeting, at which colored slides of proposed new reserves will be shown, is open to all.

Strike vote favored by TA union

A strike vote is planned for Jan. 28 by the new union of teaching assistants at UBC (officially Local 2278 of the Canadian Union of Public Employees).

The TA union is attempting to negotiate a first contract with the University. Talks have been at a stalemate since early December on the question of union security. All other

1,500 turned away, Kenny tells Rotary

UBC turned away more than 1,500 students in September who were qualified academically to enter the University, Douglas Kenny told the Rotary Club of Vancouver Tuesday (Jan. 20).

"We are in a growth position," the UBC president said. "You should know that again this year we have another record full-time enrolment . . . yet because of lack of space or lack of human resources, UBC this past fall had to turn away 1,541 students who were academically qualified to enter our University."

Dr. Kenny also noted that registrations for continuing education programs for the past year were at an all-time high of close to 100,000, "one of the largest such programs in North America."

"It is solid evidence that people are aware that our changing society is going to make lifelong learning imperative," he said. "People are seeking to upgrade their skills, change vocations or find a new orientation for their lengthening lives."

President Kenny also told Rotarians that many students at UBC were breaking with the tradition of going to University for four or five consecutive years immediately after leaving secondary school. Many went to work for a period first, or interrupted their studies to take a year or more away. As a result, he said, one student in every three at UBC was over the age of 25. Fifteen years ago, it was one in five.

But Dr. Kenny said he was concerned that only about 14 per cent of British Columbia's 18-to-24-year-olds are enrolled in post-secondary education. By comparison, he said, the percentage in Alberta is 17, Ontario is 20, Japan 38 and the United States 50.

"One of the goals for our provincial education system should be to get British Columbia's participation rate in post-secondary education at least up to the current national average of 19 per cent."

Dr. Kenny said there was a concentration of brain power of world class stature at UBC, but the University was losing some of its top faculty members to other universities or private industry because of salaries.

"And just as it affects other people

and other organizations, the high price of Vancouver real estate is costing us some bright young professors who cannot afford to move here," he said.

The UBC president said he was in the process of cutting \$2.1 million out of the current budget base.

"This brings to almost \$7 million the amount of money we have had to remove from the operating budget of the University in the last five years.

"Being the eternal optimist, and believing in the quality of education which UBC provides this province, I still hope that this will be the year that the government at least gives us a provincial operating grant which meets inflationary costs.

"We need adequate provincial funding because we are delivering the goods—the provision of quality education to growing numbers of people."

Failure rate up slightly in English

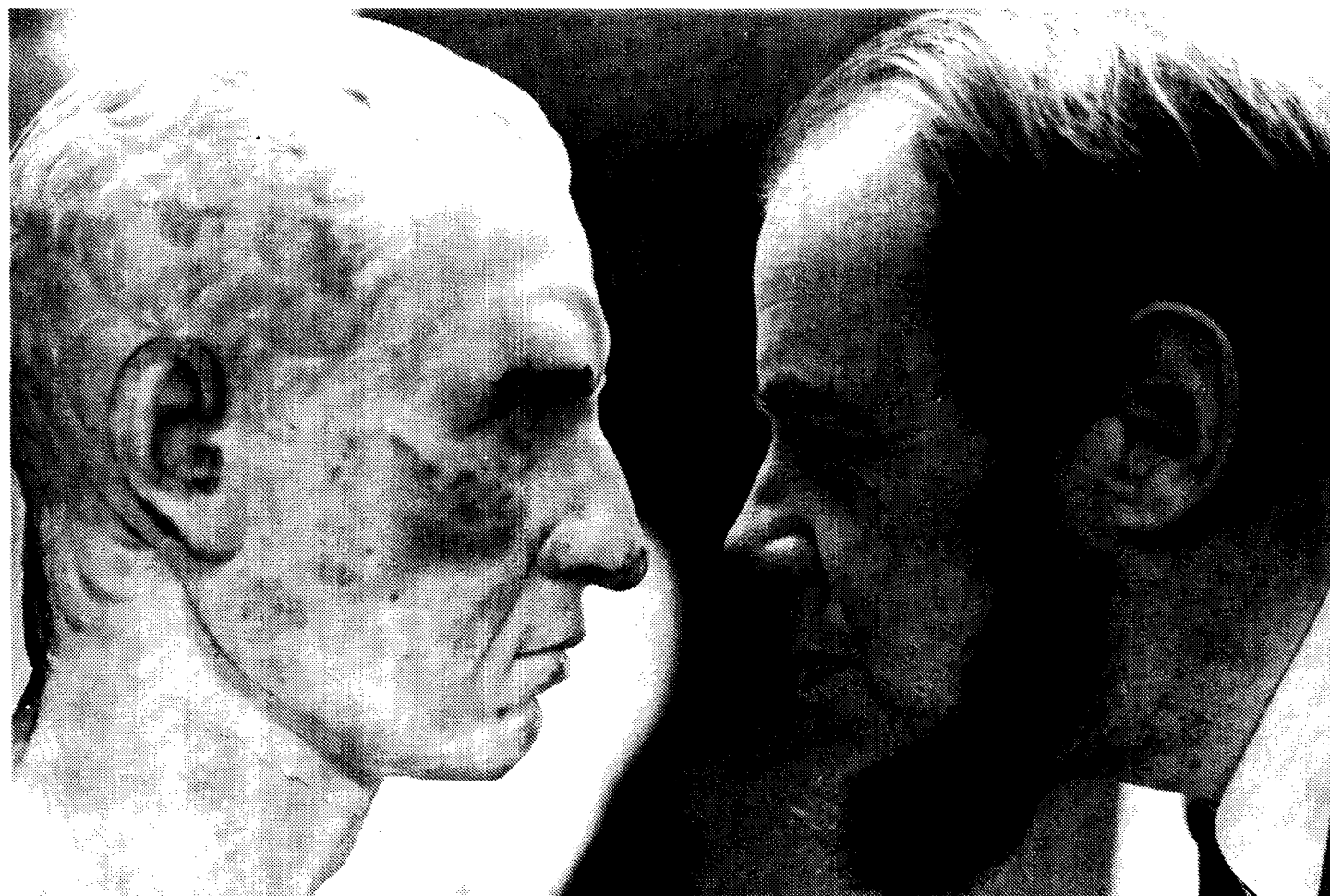
The failure rate among the 3,911 students who wrote UBC's compulsory English comprehension test at Christmas was 46 per cent.

The 1980 failure rate was slightly higher than the 1979 rate of 44 per cent, according to associate professor of English Dr. Herbert Rosengarten.

He said that one of the chief values of the test is to make failing students aware that they are weak in English composition and require remedial work.

The English department no longer provides remedial classes, which now are available to students through the University's Centre for Continuing Education.

Dr. Rosengarten added that more than half of those who failed the Christmas exam would successfully pass final exams next April. A failure rate of about 20 per cent was recorded last year for April exams.



Prof. Jim Russell of UBC's classics department is eyeball to eyeball with a bust of Julius Caesar, one of several pieces of sculpture on display in an exhibit entitled "Images of Imperial Power: Coins, Keys, Seals, Weights and Sculptures from the Roman and Byzantine Courts," which opened yesterday at UBC's Museum of Anthropology. Prof. Russell arranged for the exhibit, which continues until March. 15.

Report recalls changes

A university vastly changed from what it was 10 years ago is described in the latest annual report of the University of British Columbia.

"The composition of the student body, the structure of the curriculum, and the physical appearance of the University of B.C. have altered out of all recognition during this 10-year period," notes President Douglas Kenny in his 60-page report to the University's Senate and Board of Governors for the 12 months to Aug. 31, 1980.

Dr. Kenny characterized the decade of the 1970s as a unique period in which universities everywhere had to adjust to changing circumstances and seek self-renewal and a new sense of purpose. The last half of the 1970s brought a constant battle against inflation and under-funding, President Kenny says. "It seems inexplicable that at a time when this province and nation face so many new intellectual challenges, this University, along with other universities in Canada, is forced to embark on self-justification in order to secure its position in provincial and national priorities."

In the decade 1969-70 to 1979-80, daytime winter session enrolment increased by 11.5 per cent from 20,767 to 23,616 students. In 1979-80 the total number of registrations for all UBC's academic and continuing education programs was 117,010, made up of 84,403 who participated in continuing education courses and a record 32,607 who were registered for academic programs. All three major academic sessions showed increased registrations over the previous year.

The number of women enrolled at the undergraduate level increased from 39 to 47 per cent in the decade. At the graduate level, women now make up 41 per cent of those registered for master's degrees, compared to 26 per cent in 1969-70; and the percentage enrolled for doctoral degrees has increased from 16 to 28 over the decade.

A record 3,951 students received academic degrees at UBC's annual Congregation held in the spring. Among those graduating was the first blind student to earn the academic degree of Doctor of Philosophy at UBC.

President Kenny says he is proud that UBC, unlike many universities and colleges in the 1970s faced with decreasing enrolments, did not lower its standards for admission or academic quality. "Indeed, it can probably be said that we are the only university in Canada which opted to raise its admission standards in the 1970s," he says. New requirements are being phased in and will be fully in place this September.

"I remain confident that the efforts we are making to upgrade educational quality by imposing higher entrance requirements and insisting on high standards of achievement by our students and faculty will be reflected in continued public support and enrolment increases in the 1980s."

350 attend service for Davidsons

Some 350 colleagues and friends gathered in the Recital Hall of UBC's Music Building Jan. 13 for a memorial service for Park and Sheena Davidson, both members of the UBC faculty who were killed in a highway crash in B.C.'s southern Interior on Dec. 21.

Prof. Davidson was head of UBC's clinical psychology program and Mrs. Davidson was an assistant professor in the School of Nursing.

Dr. Kenneth Craig, a colleague of Prof. Davidson's in the psychology department, eulogized Prof. Davidson as a man who excelled "as professor, scientist, psychologist, father and friend," and whose life revealed "grand visions combined with a marvellous capacity to execute them, and a humanitarian dedication to others."

He said that Prof. Davidson, who joined UBC in 1973 to develop clinical psychology, had in a short period of time taken "a little known program to the stature of one of the best and most respected in Canada."

He also commented on Prof. Davidson's activities as a member and president of a number of professional organizations, his editorship of the *Canadian Journal of Behavioural Science*, and his humor and "skill in communicating important messages" as the author of numerous papers.

Nursing school instructor Donelda Ellis said Mrs. Davidson was "a model of energy and integrity" who was "immersed in (a) quest for new knowledge and the sharing and application of that knowledge to improve teaching and patient care."

She also commented on Mrs. Davidson's activities as a co-author and co-editor of scholarly papers and a book and as a "vital member" of the

board of the Maternal Health Society in which she "not only provided expertise and leadership but devoted many hours to writing, editing and preparing (material) for publication in the *Maternal Health News*."

She also drew attention to Mrs. Davidson's dedication to the improvement of her profession through

active involvement in professional organizations, her teaching ability and her "conscientious desire" to improve the environment of the School of Nursing.

Julie's Special gone

If you have eaten in the Faculty Club snack bar in the new year, you'll have noticed a change.

"Julie's Special," a nine-year tradition, has been replaced on the menu by "Manager's Special." Julie Winchcombe, who joined the Faculty Club staff 14 years ago as a waitress and who became the snack bar cook four years later, retired at the end of December.

"The daily special was originally called the manager's special," says the club's associate manager, Ed Puls, "but Julie was planning the menus and coming up with the ideas for the meals, so we decided to use her name."

Ms. Winchcombe was scheduled to retire at the end of October last year, but was asked to stay on until the end of the year to help out during the busy Christmas season.

She and Margaret Salvona, who retired after 18 years on staff, were honored at the Faculty Club's annual Christmas party. Each received a sterling silver serving dish in appreciation of their years of service. Ms. Salvona, who also started as a waitress, was head hostess for her last 14 years at the club.

Also honored at the gathering were 11 other members of the Faculty Club's 10-year club: Ise Duffek, housekeeper; Werner Schmidt, sous chef; Erich Schmiege, chef; Margaret Whalley and Patricia Lenney, cashiers; Nora Laird, head hostess; Maggie Mann, sous chef in charge of cold kitchen; David Willie, receiver; Patrick Carpentier, maitre d'; Ed Puls, associate manager; Dick Hansen, general manager.

Aggies mark 65th birthday

Calling all Aggies . . . A wine and cheese party is being held on Jan. 28 to celebrate the 65th birthday of the Faculty of Agricultural Sciences. All members of the agricultural sciences faculty (students, faculty, staff and past grads) are invited to join the festivities which will take place at Cecil Green Park from 7:30 to 11:30 p.m. It's all free of charge and organizers say it will be a good chance for grads and currently enrolled students to get together and share ideas. If you want to know more about the event, contact J. Ottalbran or B. Johnston at 228-5085.

'He will be sadly missed'

Funeral services were held Jan. 9 for Stanley Weston, a member of the Board of Governors of the University and an internationally known land reclamation and soil erosion expert.

Mr. Weston died suddenly from a heart attack at his home at 1850 Southwest Marine Drive Jan. 6. He was 64.

UBC's president, Dr. Douglas Kenny, characterized Mr. Weston as a "loyal alumnus of the University who gave unselfishly of his time to assist his alma mater since his appointment to the Board of Governors in 1979.

"His many years of experience as an internationally known soils reclamation expert were of great assistance to the University in developing a plan of action to cope with erosion on the Point Grey cliffs below the campus.

"It was characteristic of Mr. Weston that he was able to draw many diverse groups together to agree on a concerted plan of action for this particular project. He will be sadly missed by his many University and community friends."

Mr. Weston was appointed chairman of the UBC Board of Governors' property committee when the Board held its last meeting of 1980 on Dec. 2.

Born in Revelstoke, B.C., in 1916, Mr. Weston graduated from UBC in 1939 with the degree of Bachelor of Science in Agriculture.

As a student he was associated with one of UBC's early success stories. He worked on the test plots initiated by a group of UBC agriculture professors which led to the development of a variety of alfalfa rhizoma, which is now the premier animal-forage crop in North America and the largest acreage crop in B.C.

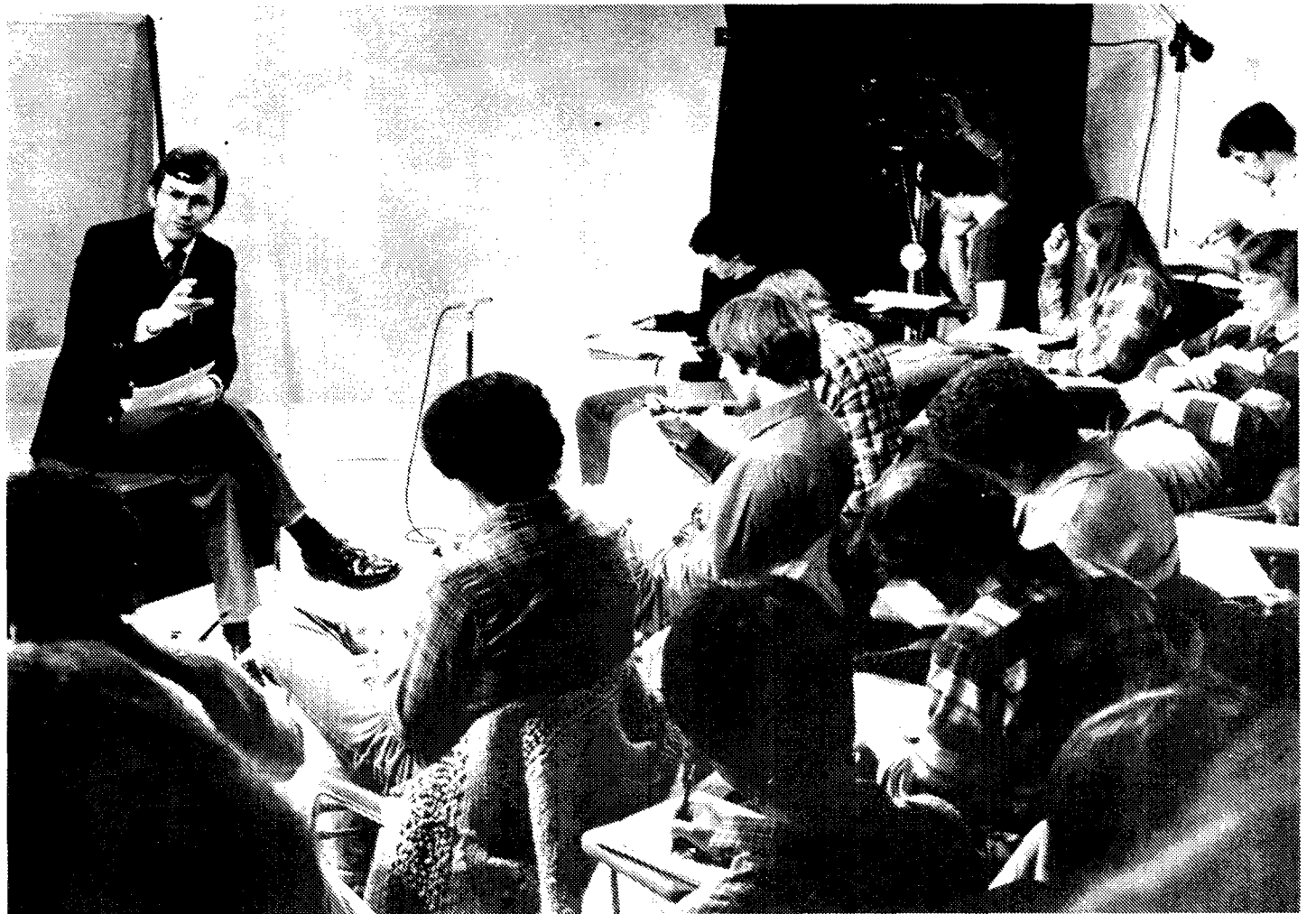
Mr. Weston incorporated the crop into his work on land reclamation.

Following graduation from UBC, Mr. Weston went to Malaya as an advisory officer to a fertilizer firm. He joined the Malayan Volunteer Forces in 1940 when war broke out in the Far East and was a prisoner of war of the Japanese from 1941 to 1945, when he returned to Vancouver.

Throughout the 1950s and most of the 1960s, Mr. Weston operated a large farm in the Peace River area of B.C. In 1958 he was awarded the world championship for forage crop seeds at the Royal Winter Fair in Toronto.

Mr. Weston served as a consultant to a number of North American mining companies on land reclamation projects and also undertook assignments abroad on food production under the Colombo Plan and for the UN Food and Agriculture Organization and the Canadian International Development Agency.

Mr. Weston is survived by his wife, Isabel, and one son, John, a student at Harvard University.



Prof. Peter Pearse . . . combines forestry lectures with fisheries inquiry.

Fisheries study now for Pearse

Prof. Peter Pearse, a leading Canadian resource economist, has been appointed a commissioner under the federal Inquiries Act to carry out a study of west coast fisheries and make recommendations on how to deal with the problems of the industry.

Prof. Pearse, who holds joint

appointments in the UBC arts faculty's economics department and the Faculty of Forestry, has already had an impact on the B.C. forest industry as the sole commissioner on forest resources in 1975-76.

His report to the provincial government led to the passing of a

new Forest Act and a significant upgrading of the B.C. forest service. He was also the co-author last fall of a preliminary report on B.C. fisheries which recommended a thorough review of fishing on the west coast.

His new study charges him with making recommendations on the condition, management and utilization of the Pacific Coast fisheries. He has been asked to submit a preliminary report by Aug. 1 and a final report by Dec. 31 to federal fisheries and oceans minister Romeo LeBlanc, who announced the commission in Ottawa last week.

Meanwhile, Prof. Pearse will continue a series of lectures to forestry students on resource management begun in the second term in the television studio operated by UBC's audio-visual department in the Library Processing Centre (above).

The lectures are being videotaped for use in the forestry faculty's expanded continuing education program designed to upgrade to degree level the qualifications of forest technicians and to keep professional foresters abreast of the latest developments in their discipline.

Popular food worker dies

George McGee, a familiar figure on the UBC campus for 35 years as a member of the Department of Food Services, died Jan. 6 at the age of 64.

A memorial service was held on Jan. 12.

Small and peppery, George McGee was a popular member of the food services staff and knew almost every facet of that department's operations. He was a senior commissary assistant when he retired in May, 1979.

He is survived by two brothers, John and Alex; two sisters, Isabel McGee and Peggy Cousens; and several nieces and nephews, all of Vancouver.

Professor dead at 42

A memorial service was held Saturday (Jan. 17) for Dr. Ronald C. Riddell, a 15-year member of the UBC mathematics department, who died of leukemia on Jan. 12 at the age of 42. The service took place at Cecil Green Park.

A native of Montreal, Dr. Riddell received his bachelor's degree with combined honors in English and mathematics from UBC in 1960.

Plans readied for Open House

Hosts of UBC's Open House this year are the Faculties of Agricultural Sciences, Applied Science and Forestry.

The event will be Friday, March 6, 10 a.m. to 10 p.m. and Saturday, March 7, 10 a.m. to 8 p.m. "Resource Management — Planning Today for Tomorrow" is the theme.

A heavy turn-out of high school and first-year college and university students is expected, particularly on Friday. Planning is well under way by an executive committee headed by engineering student Don Moore.

This is the second year of UBC's new Open House format. Each year one-third of the University hosts the event. Last year it was the health sciences. Next year it will be the Faculties of Arts, Commerce and Business Administration, Education, Law and Science.

Under a scheme aimed at training future university teachers, Dr. Riddell was awarded a fellowship by the Woodrow Wilson Foundation which took him to the University of Chicago, where he received the degree of Master of Science in 1961.

He was a research assistant in the mathematics department at the University of California from 1963 to 1965 and was awarded the degree of Doctor of Philosophy by that university in 1965.

Regarded as an outstanding researcher, Dr. Riddell had recently developed a new mathematical framework to explain the success of numerical calculations of scientists of the higher energy levels of atoms and molecules, work which was considered a promising start on the solution of a problem of fundamental scientific importance.

He also made significant contributions to the history of mathematics and mathematical physics. A recent publication on the history of the theories of planetary motion has been described as "demanding an entire re-thinking of the history of mathematical astronomy."

Dr. Riddell is survived by his wife Gail, a program supervisor in UBC's Centre for Continuing Education; children Colin and Darcy; his mother, Mrs. Alison Riddell; and a brother, Neil, all of Vancouver.

UBC enrolment at record high

UBC's 1980-81 fiscal year enrolment stands at an all-time high of 33,113 students, an increase of 1.6 per cent over 1979-80, when 32,607 were registered.

The enrolment total for the current fiscal year was boosted by increased registrations for two of UBC's three major academic sessions—the 1980 spring session and the current 1980-81 winter session. The 1980 summer session showed a slight decline in registrations to 3,917 students compared to 4,153 in 1979.

UBC bases its total enrolment on the fiscal year, which runs from April 1 each year to the following March 31, for the purpose of reporting official figures to the Universities Council of B.C., the body that acts as an intermediary between the three public universities and the provincial government.

UBC's total enrolment of 33,113 in 1980-81 is the total of the following enrolments in the period April 1,

1980, to March 31, 1981 (1979-80 figures in brackets): 1980 spring session - 3,015 (2,757); 1980 summer session - 3,917 (4,153); 1980-81 daytime winter session - 23,604 (23,161); 1980-81 evening winter session - 1,282 (1,183); and 1980-81 Guided Independent Study (correspondence courses offered through the Centre for Continuing Education) - 1,295 (1,353).

Noteworthy features of UBC's 1980-81 daytime winter session enrolment are a continued increase in the number of women and the number of part-time students enrolling and a significant increase of 6.8 per cent in the size of the first-year class.

Of the total enrolment for the current daytime winter session (up 1.9 per cent over 1979-80), 45.8 per cent are women and 16.2 per cent are enrolled for 11 or fewer units and are classified as part-time students. In 1979-80, women made up 45.6 per cent of daytime enrolment and 15.9 were classified as part-time students.

Looked at on a fiscal year basis, UBC's part-time student enrolment remained stable at 40.3 per cent in 1980-81, but the number of part-timers increased from 13,139 in 1979-80 to 13,335 in the current fiscal year because of the overall enrolment increase.

And over a five-year period, the winter-session percentage of part-timers has increased significantly from 11.9 in 1976-77 to 16.2 in the current fiscal year.

A total of 3,617 students make up UBC's first-year class in the current winter session, an increase of 6.8 per cent over the previous year. This is the result of UBC registering a slightly higher percentage of grade 12 students than in the previous year and ends a decline of recent years in the so-called "participation rate," the percentage of 18-24-year-olds who enrol.

Virtually every degree program offered by the University showed an increase for the current daytime winter session, with large increases being experienced in engineering programs in applied science (up 11.6 per cent), forestry (up 17.5 per cent), medicine (up nearly 15 per cent) and arts (up 4.6 per cent).

Undergraduate enrolments for the current winter session increased by 1.5 per cent and enrolment at the graduate level was up 4.5 per cent, all at the master's level with doctoral enrolments remaining essentially stable.



Dr. Harold Copp

BOG honors Harold Copp

Of all the honors that have been heaped on him in recent years for his contributions to medical science, the one that appears to please Dr. Harold Copp the most is the decision to attach his name to one of the three Basic Medical Sciences Buildings in the McCreary Health Sciences Centre.

Block A of that trio of buildings was officially renamed The D. Harold Copp Building by the Board of Governors in December on the recommendation of dean of medicine Dr. William Webber. Appropriately, the building houses the Department of Physiology, which Dr. Copp headed from the time UBC's medical school was organized in 1950 until he retired last year.

Dr. Copp is, of course, internationally known for his research on calcium regulation and his discovery of the hormone calcitonin, which is now being used all over the world in the treatment of a number of bone diseases.

Not only did Dr. Copp discover the hormone, which regulates calcium levels in the blood, he also showed that it was secreted by the ultimobranchial glands of lower vertebrates, glands which had no known function hitherto. (A proposal by Dr. Copp to name the hormone "ultimobranchial calcitonin," which would have resulted in the use of the acronym UBC to describe it, came to naught.)

The first pure calcitonin was extracted from the glands of more than half a million B.C. salmon supplied by the Canadian Fishing Co. This was made possible by the co-operation of UBC graduate and chancellor emeritus Donovan Miller, one of the company's top executives.

Retirement as head of physiology hasn't meant the end of Dr. Copp's research career, however. He's still actively engaged in what he describes as his "favorite hobby" — research on calcium regulation.

Coin expert 1st speaker for Vancouver Institute

Lectures on psychology, literature, medicine, philosophy and law highlight the spring series of talks sponsored by the Vancouver Institute beginning on Jan. 31.

The free, Saturday night lecture series, which will continue until April 25, is held in Lecture Hall 2 of the Woodward Building in the Health Sciences Centre complex on the campus. All lectures begin at 8:15 p.m.

Dr. Colin Kraay of Oxford University and one of the world's leading coin experts leads off the spring series Jan. 31 with a lecture entitled "The Coinage of Athens and the Ancient World." He will visit UBC as a Cecil H. and Ida Green Visiting Professor.

In subsequent weeks, lecture topics will include:

- A description of a new type of brain-scanning device to be installed soon in the acute care unit of UBC's Health Sciences Centre to be given by

Dr. BRIAN Pate, associate director of the TRIUMF project;

- The threat of overpopulation, by Dr. Richard J. Blandau of the University of Washington;

- Biofeedback and behavioral medicine, by Prof. Gary Schwartz of Yale University;

- The mystique of the detective story, by British author Julian Symons;

- The role of the courts in the 1980s, by Lord Diplock of Wansford, senior Lord of Appeal in the British House of Lords.

- The annual *Vancouver Sun* lecture will be delivered on April 4 by a speaker to be announced.

A brochure listing all spring Vancouver Institute lecturers and their topics is available from UBC Information Services, 228-3131.

UBC, UVic make music

Two for the price of one. That's what you'll get if you attend the joint concert of the UBC and UVic concert bands Feb. 5, 8 p.m., in the Old Auditorium.

The concert, the first collaboration between the two university bands, will feature Moussorgsky's *Pictures at an Exhibition* as well as pieces performed separately by the two bands. The concert is free and no reservations are necessary.

The two bands will perform at the University of Victoria on Feb. 4, directed by UVic conductor Jesse Read, and will be directed on the Feb.

5 performance at UBC by Martin Berinbaum, an assistant professor in UBC's music department.

The joint concerts mark the end of the UBC band's first tour of Vancouver Island. The band will be touring the Island from Jan. 31 to Feb. 4, giving public concerts and presenting school workshops and music students in Nanaimo, Port Alberni, Duncan and Parksville.

Reminder: Calendar NOT weekly

Readers are reminded that UBC Calendar, the listing of events on campus, is produced now every two weeks instead of weekly, as pages 7 and 8 of the new UBC Reports.

It is one economy we have made to cut the publishing budget in the Department of Information Services.

For example, the Calendar in this edition is for events taking place the weeks of Jan. 25-31 and Feb. 1-7. Our next paper, on Feb. 4, will list events for the weeks Feb. 8-14 and Feb. 15-21. The deadline for those listings is Jan. 29.

By eliminating the separate publication of the Calendar on the non-UBC Reports Wednesdays, considerable savings have been achieved in printing and preparation costs, and in the cost of mailing.

As a further economy, UBC Reports will be printed on ordinary newsprint starting next month, not on the heavier, whiter paper of this edition. Our printer is awaiting a shipment of the cheaper paper; he already is charging us the lower rate.

These two economies mean we can

double UBC Reports to eight pages from four and still pare the budget.

In conjunction with these changes in UBC Reports, there has been some shuffling of responsibilities within Information Services, and the paper's editor now is Al Hunter. Lorie Chortyk is assistant editor and is in charge of UBC Calendar. Jim Banham, while taking on new duties within the department, becomes a contributing editor to UBC Reports.

Prevention the key in sports medicine

Another arrow has been added to the quiver of health sciences specialties taught at the University of British Columbia with the establishment of a Division of Sports Medicine within the University's Faculty of Medicine.

But don't get the idea that the medical experts who staff the new division will be exclusively concerned with the treatment of athletic injuries such as "tennis elbow" or "jogger's knee."

They're even more involved in the concepts of preventive medicine and the training of a wide variety of students who will deliver community health and fitness programs aimed at keeping the cost of medical care under control.

Traditionally, says Dr. Douglas Clement, one of the three fulltime members of the new division, medicine has emphasized the diagnosis and treatment of pathological or disease conditions.

"Today," he adds, "there's a new emphasis on the prevention of disease and physical disabilities through lifestyle modification. That's the whole point of fitness and health promotion programs such as the federal government's Participation scheme. From the cost point of view, it's a lot more economical to keep individuals functioning normally than to treat them for chronic disease conditions."

The three fulltime members of the division, which is part of the medical school's Department of Family Practice, are Dr. Clement, Dr. Jack Taunton and Dr. Donald McKenzie, who practised together until recently in the Vancouver suburb of Richmond, where they specialized in the treatment of athletic injuries.

The trio, who also hold joint appointments in UBC's School of Physical Education and Recreation, will work closely with the school and with other health sciences professional faculties and departments in the development of an interdisciplinary, preventive medicine program, says Dr. Peter Grantham, who heads the family practice department.

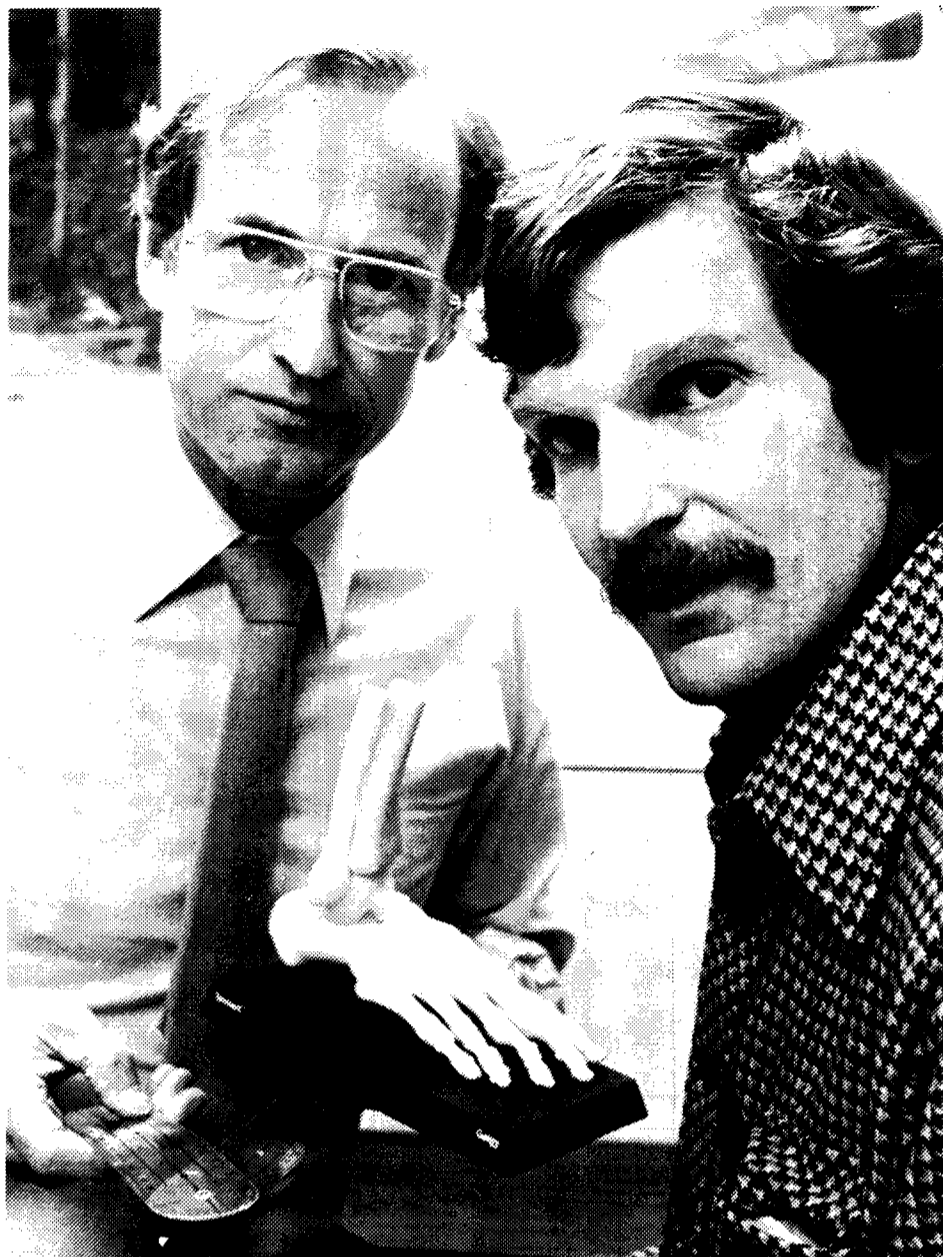
"There is the potential for a broadly based, co-operative program involving students and faculty members from many different areas of the University," he added. "The sports medicine group fits nicely into the basic concept of UBC's Health Sciences Centre through their involvement in teaching, research and public service."

One of the team's primary functions will be the development of an elective course on the prevention and treatment of athletic injuries.

"As a medical student," says Dr. Taunton, "I got no training in the prevention and treatment of sports injuries, exercise physiology, nutrition or any of the other areas that bear on fitness and preventive medicine."

"The aim of the course we'll be developing will be to equip physical education students to deliver fitness and health maintenance programs in the community, to enable doctors to treat injuries resulting from exercise and to acquaint rehabilitation experts with techniques for overcoming disabilities."

Many of the underlying causes of athletic injuries and their treatment will emerge from an active research program sponsored by the division.



Key figures in new Division of Sports Medicine at UBC are Dr. Douglas Clement, left, and Dr. Jack Taunton.

The UBC team has just had accepted for publication in an American sports medicine journal a study of 1,800 athletes with running induced injuries.

The researchers found the knee was the most frequently injured joint in runners with 40 per cent of the group exhibiting some 10 different disorders. The next most common sites of injuries were the tibia (the large bone in the lower leg) and the foot.

By far the most common cause of injury, the study found, was training error, or simply trying to do too much too soon. "Those who sustain injury," says Dr. Taunton, "seem to assume that if a little running is good, a lot more must be better, just as some sick people will mistakenly double their intake of, say, an antibiotic in the hope of clearing up an infection more quickly."

It appears, Dr. Taunton adds, that a runner's heart and lungs adapt to stress much more quickly than the muscles of the body. The lesson to be learned from this is that joggers should increase their activities slowly so that one system doesn't outstrip the others.

Many people, the research team found, sustain injury because they wear improper shoes, which alter the biomechanics of the body. "Just as a tiny bit of misalignment of an automobile tire can produce inordinate wear and tear, the joints of the leg can be injured if the runner is even slightly bowlegged, knockkneed or has a slight difference in leg length," says Dr. Clement.

One of the ways of correcting this problem is to insert an orthotic—a scientifically designed arch support—into the runner's shoe and these devices are the subject of a current research project sponsored by the sports medicine group.

They're using some sophisticated devices that record the movement of a joint graphically in three different planes with the aim of developing orthotics that will prevent injury by making the runner more efficient biomechanically.

Incidentally, Drs. Clement and Taunton recommend that you do your running in the late afternoon after your body has experienced a day of movement, that you equip yourself

with a good pair of jogging shoes and that you run only after a period of exercise and stretching. The riskiest time to run is first thing in the morning, unless you begin with an extensive warmup.

Another current research project is the investigation of a condition called "jumper's knee," which afflicts basketball and volleyball players as well as high jumpers and runners. The condition is basically a tendonitis of the large tendon linking the tibia and the kneecap. The team is looking at various modes of exercise to determine which is best for curing the disorder.

In the offing are projects for investigating exercise-induced asthma, which some people experience after exercise, and anaemia related to iron deficiency in athletes.

A third function of the sports medicine group will be to provide a public service by treating injured athletes who are referred to them by off-campus doctors or by the Student Health Service on the UBC campus.

Associated with the group in this aspect of its work will be three orthopedic surgeons who will use the facilities of Lower Mainland hospitals or the acute care unit of the Health Sciences Centre on the UBC campus for surgery where necessary.

The Sports Medicine Clinic, which has been in operation since Dec. 1, currently occupies a wooden building immediately south of the campus extended care unit. Later this year it will be attached to the Johnny Owen Pavilion, a building in the midst of Thunderbird Park, the complex of playing fields south of Thunderbird Boulevard.

"When we're operating at the John Owen site," says Dr. Clement, "we'll be functioning as a clinical unit in which students from medicine, rehabilitation medicine and physical education can come and gain experience in the prevention, diagnosis and treatment of athletic injuries."

"Associated with the clinic will be a group of physiotherapists who will be able to treat and advise injured athletes and a research assistant to undertake investigation of specific injuries."

"All this fits nicely into the basic idea of UBC's Health Sciences Centre, which fosters an interdisciplinary approach to health care that makes use of specialized diagnostic and treatment skills in treating the sick and injured."

And in Drs. Taunton and Clement, clinic patients will be consulting a pair of top athletes who know whereof they speak in the matter of sports injuries. Dr. Clement, in his day, was one of Canada's leading middle distance runners and is chief medical officer for the Canadian Olympic team.

Dr. Taunton is a national-level marathon runner who still competes regularly, as does Dr. Clement, in that gruelling sport.

Student speakers vie for \$200

If you are a student at UBC, graduate or undergraduate, and you like to talk, why not try 'speaking' and have a shot at \$200?

The first annual UBC public speaking contest will be held Jan. 29, 7:30 to 10 p.m., in Lecture Hall 1 of the Woodward Instructional Resources Centre, with \$200 cash and a

certificate going to the winner.

Judges from Toastmasters International, UBC faculty, and the UBC Debating Society, will consider content, organization, logic, manner, credibility, presentation, delivery and style.

Talks may be humorous or serious

on any topic and must be of five to seven minutes in length.

Pre-registration, although not compulsory, is preferred. Call Dr. Ralph Yorsh (dentistry) at 876-5131 and give your name, faculty, year and telephone number.

Only UBC students may take part.

