



About 100 teams of students are taking part this week in eliminations for the annual Storm the Wall competition, culmination of the winter session intramural athletic program. Elimination round today (March 17) will determine finalists in Friday competition, which will see winners named in ten men's and women's categories, including Iron Man and Iron Woman. Teams complete a circuit made up of an 800-metre run, two 100-metre sprints, a 200-metre swim and a three-kilometre bike ride before scaling a 12-foot-high wall erected on the East Mall near SUB.

English, Microbiology get new heads

UBC's Board of Governors has approved the appointment of new heads for the Departments of English and Microbiology and the reappointment of the deans of the Faculties of Medicine and Commerce and Business Administration.

New department heads, whose appointments are effective July 1, are:

Prof. Ian Ross, a member of the UBC faculty since 1960, who becomes head of the Department of English in the Faculty of Arts; and

Prof. Robert C. Miller, a faculty member since 1971, who has been named head of the Department of Microbiology in the Faculty of Science.

Dean of Medicine William Webber and Commerce Dean Peter Lusztig are both graduates of UBC and have headed their respective faculties since 1977.

Their new appointments are effective July 1, 1983, and will continue until June 30, 1989.

Prof. Ross, an expert on 18th-century English and Scottish literature, succeeds Prof. Robert Jordan, English department head from 1969 to June 30, 1981, who remains at UBC as a full professor.

A prolific writer, Prof. Ross has also

taken an active role in Faculty Association affairs. He is a former president of the UBC association (1973-74) and was president of the Confederation of University Faculty Associations of B.C. in 1975 and 1976.

He was also a co-founder in 1966 of UBC's Arts I program, an interdisciplinary, nine-unit program of liberal education for first-year students, which has been widely imitated elsewhere.

Prof. Ross was educated at St. Andrews University in Scotland, the University of Oxford and the University of Texas, where he received his Doctor of Philosophy degree in 1960, the same year he joined the UBC faculty.

Prof. Robert Miller, the new head of microbiology, succeeds Prof. J.J.R. Campbell, a UBC faculty member since 1946 and head of the microbiology department since 1965. Prof. Campbell remains at UBC as a full professor.

Prof. Miller is a graduate of universities in Connecticut and Pennsylvania, where he received degrees in physics, biophysics and molecular biology. His Doctor of Philosophy degree was awarded by the

University of Pennsylvania in 1969.

He was an American Cancer Society post-doctoral fellow and research associate in the biology department at Massachusetts Institute of Technology before joining the UBC faculty in 1971.

Prof. Miller is a member of a team of UBC molecular geneticists which recently achieved a biotechnical breakthrough by cloning a gene for an enzyme which will convert waste products such as sawdust and straw into the sugar glucose.

Alcohol produced by fermentation of glucose can be blended with gasoline for use in conventional cars and other fermentation products from sawdust can be used to produce plastics and replace dwindling oil supplies.

President Douglas T. Kenny said he was pleased that Deans Webber and Lusztig had agreed to accept second terms as heads of their respective faculties. "Both have distinguished academic records and have provided vigorous leadership at a time when enrolments in both faculties were expanding."

Hospital separates April 1

The Health Sciences Centre Hospital will be independent of UBC by the end of the month.

That's the target date set for the hospital to begin operating under its own board of trustees. At the moment, a management committee administers the hospital and reports to UBC's Board of Governors. Under this arrangement, the hospital is the only one in Canada operated by a university.

But as of April 1, the hospital's new board of trustees will report directly to the provincial government through the Ministry of Health, as do all other hospitals in the province.

The University was authorized by the Board of Governors at its March meeting to enter into a series of agreements to separate the hospital. The University will negotiate with the recently-created UBC Health Sciences Centre Hospital Society.

In effect, the society will become responsible for the hospital service area while UBC will retain use of academic space used for teaching and research.

Three agreements are involved:

The University will transfer responsibility for operating the hospital to the society, including the transfer of the staff to the society as employer, and the sale of equipment and supplies for a nominal sum.

UBC will lease the hospital buildings to the society.

And the society will lease back the academic space within the buildings to the University.

The society will lease and become responsible for the 60-bed psychiatric unit — including the psychiatric day house, the 300-bed extended care unit, and the 240-bed acute care unit. The out-patient portion of the Student Health Service remains a University department.

The society has an 11-member board of trustees. The University president and the chairman of the medical staff of the hospital are ex-officio members. Nine members are appointed by order-in-council of the provincial government, three each from recommendations from UBC, the Ministry of Health and the Ministry of Universities, Science and Communications.

Appointed from UBC nominations are Dean of Medicine William Webber, Health Sciences Co-ordinator and Dean of Pharmaceutical Sciences

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UBC thesis gets top writing award

Shirley Buswell, who is working on her second masters degree from UBC, recently won the \$1,000 national Epstein Award for her novel *Garden of Exiles*.

The prize, which is sponsored by University College of Toronto, is awarded biennially for the best unpublished manuscript entered by a student enrolled at a Canadian university. *Garden of Exiles* was chosen from among 77 manuscripts from 14 universities.

Ms. Buswell graduated last November with a MFA degree in creative writing, and is now enrolled in the masters program in adult education. She plans to teach writing after she completes her studies in adult education.

Garden of Exiles was written as her MFA thesis. It is set in the highlands of Kenya, and explores one woman's experience in the changing social climate of Africa. The idea for the story came while Ms. Buswell was living in Kenya for three years in the late 1960s.

"Many of the white people in the community where I lived left Africa at this time, and those who remained experienced the feeling of not belonging anymore. The main character in my novel, Diana, is caught up in this situation."

The novel centres on the emotional struggle Diana faces when she is pressured to leave Kenya, where she was born and raised. Since she has always lived in Africa, Diana feels she belongs in the country, but her British background alienates her from her home as Africa becomes increasingly less 'European'. She is forced to confront her feelings when a school teacher visiting the Kenya highlands asks her to leave her home and move to Canada with him.

Ms. Buswell, who is originally from New Zealand, lived in England and Africa before coming to Canada. She earned her Bachelor of Arts degree in English from the University of Lethbridge, and has been involved in various drama groups and schools in Canada.

Between academic sessions at UBC, Ms. Buswell works as a journalist for *City Farmer*, a magazine devoted to backyard gardeners in Vancouver.

Fine Arts student gets Kodak award

Karen Firus, a UBC Master of Fine Arts student in film production, has received the Kodak Canada Student Award for her film *SpectrumSpectrumSpectrum*.

The award acknowledges outstanding student filmmaking in Canada. *SpectrumSpectrumSpectrum* was produced as a fourth-year film project and was co-edited by Alison Grace and Karen Firus, both graduates of the film program in UBC's Department of Theatre.



Second-year student Rob Findley is one of the many volunteers who devote time and energy (and usually a few late, late nights) to keep CTR functioning. They'll be even busier after April 1, when CTR moves to FM 102.

CITR ready for real world on FM 102

"We're beginning to get some encouraging feedback from listeners — phone calls, letters, attention from the media. It's nice for the DJs to know they're not just playing to a lot of empty rooms in SUB."

These comments from Jeff Kearney, upcoming president of CITR, UBC's student radio station, are an indication that better times have arrived for the 'alternative music' station. The main reason for the growing interest is the fact that CITR begins broadcasting on an FM frequency (FM 102) on April 1.

CITR went before the CRTC last April to compete with CJAZ, the FM side of CKWX, for the last available FM frequency in Vancouver. CJAZ was applying for a second frequency in order to solve some technical problems the station was having with their signal. In September, 1981, CITR was awarded the FM licence.

CITR has been broadcasting by three methods, all of which would frustrate even the most devoted of listeners.

"We broadcast on campus by a closed circuit system which serves only the Student Union Building, and by a carrier current which is supposed to serve all the student residences, but in fact only reaches a few of the lower floors in Gage," says Mr. Kearney. "Off campus, listeners had to hook up their cablevision to the radio to pick up our signal."

CITR's FM signal will serve all of Vancouver and probably the southern areas of the North Shore. Listeners in outlying areas will still have to tune in by Cable FM.

CITR is a non-commercial station operated by approximately 60 student volunteers. "Our first priority is to provide information about events happening on campus," says Mr. Kearney. "We're sort of the audio equivalent of *The Ubysey*. But our music and public programming is geared for non-UBC listeners as well."

The station's programming ranges from progressive rock, jazz, classical

music, local bands, and folk music to local and international news, album features, campus sports, film and theatre reviews and radio drama.

"I think our station has something unique to offer Vancouver audiences," says station manager Sonia Mysko. "The bands on our playlist are seldom heard on commercial stations. Because we don't have advertising clients to worry about, we can experiment and take risks that commercial stations can't."

"The kind of listeners we attract are people who want to hear new bands, who don't want to hear the same songs repeated constantly and who don't want to hear a lot of commercials."

She estimates that CITR has at least 5,000 regular listeners at present, and hopes that the number will increase now that the station will be easier to pick up.

"We've had some delays because our transmitter had to be custom built," she says. "But we expect to have the transmitter at UBC by March 17 (today), and allowing a week or so to work out any technical bugs, we'll be on the air."

CITR's broadcasting hours are 8 a.m. to 1 a.m., seven days a week. So if you're tired of hearing the same songs every time you turn on the radio, try the alternative — FM 102.

Exchange agreement signed

UBC and Zhongshan University, a major Chinese institution in Canton, have signed a co-operative agreement providing for the exchange of faculty members over a two-year period.

The agreement, which continues until 1983, will enable a scholar from Zhongshan University to visit UBC each year to engage in research. The Chinese university will receive two visiting UBC scholars for 26 man weeks, or four scholars for up to 13 man weeks each.

The initiator of the exchange agreement is Dr. Graham Johnson, an associate professor of anthropology and sociology, who said the Chinese university enrolls some 5,000 students in basic arts and science programs and also offers some professional programs, including law and business administration.

Dr. Johnson initiated discussions on the exchange agreement with Zhongshan University while on a research project in China in 1979. The following year, after discussions with UBC's administration, he returned to China with a colleague, Dr. Edgar Wickberg of the history department, to finalize the agreement.

A computer expert in Zhongshan's

Department of Mathematics has applied to visit UBC for a year, beginning in September, under the agreement.

Zhongshan is regarded as a so-called "key-point" university by the Chinese government, Dr. Johnson said, which means it is funded at a higher level than other institutions.

He pointed out that Zhongshan is located in the area of China which has traditionally supplied most of the Chinese immigrants to Canada, and B.C., in particular. The university is an amalgamation of two noted Chinese institutions — Lignan University and Sun Yat-Sen University, the latter named for the Chinese statesman who became the first president of the Chinese republic in 1911. He died in 1925.

Dr. Johnson said that UBC's Alumni Association and graduates of Lignan University living in Vancouver had contributed funds to pay for the living expenses of visiting Zhongshan scholars.

Additional information concerning the exchange agreement is available from Prof. Bob Smith, associate vice president academic, in the President's Office.

Scholarship program extended

Undergraduates carrying less than a full program of studies may be eligible for scholarships at UBC this fall.

At its February meeting, the University Senate approved the following recommendation of the Senate Committee on Student Awards:

"That effective in the 1982-83 academic year and subject to funding the existing University scholarship program be extended to include undergraduate students carrying between 80 per cent and 100 per cent of a full program. The scholarships will be set at 80 per cent of the full value."

As the program stands now, only full program students are eligible for scholarships, according to the following scale: top 3 per cent of students, \$750; next 2 per cent, \$600; next 2 per cent, \$300.

Scholarships for students taking from 80 per cent to 100 per cent of a full program would be \$600, \$480, or \$240 if the same levels were applied.

Byron Hender, director of Awards and Financial Aid, said he was hopeful that award levels could be increased to match the increase in tuition fees.

Mr. Hender said that about 2,700 students are carrying between 80 per cent and 100 per cent of a full program this year.

Scholarships are not awarded to students with an academic average below 70 per cent.

Computer system donated

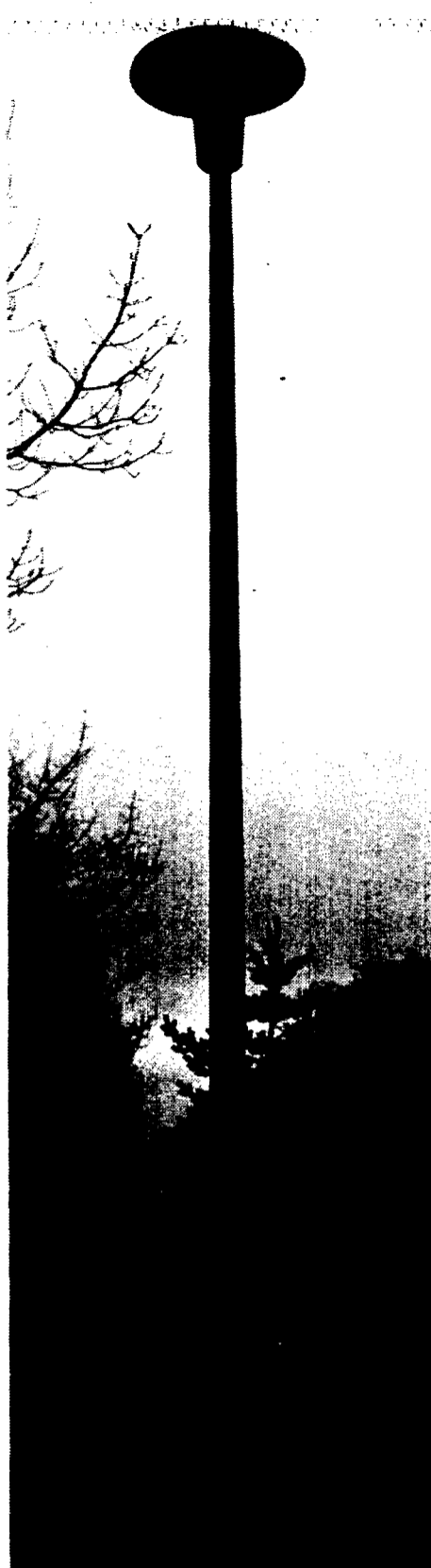
Utah Mines Ltd., Island Copper Mine, Port Hardy, has donated a 2/10 supervisory computer control system to the Department of Mining and Mineral Process Engineering at UBC.

Glen Andrews, manager of Island Copper Mine, said the computer system was employed to control successfully a semiautogenous grinding circuit.

The system comprises: (1) a 24,000 word (16 bit word) core memory CPU; (2) system security module; (3) high speed paper tape reader and punch; (4) an alpha numeric ADDS console "980" b/w CRT with graphic capability; (5) analog input, digital input, and setpoint output modules; (6) operating system software, utility and diagnostic programs; (7) power supplies and hardware cabinets.

Dr. Andy Mular, a professor in UBC's Department of Mining and Mineral Process Engineering, said the Fox 2/10 system will be employed to illustrate direct digital control and supervisory set point control in a mini-grinding circuit. Undergraduates will tune control loops and write supervisory programs themselves to gain practical experience.

UBC will house the system in a special control room being constructed in the new Coal/Mineral Processing laboratory building. Prof. Mular said the control room will service undergraduate and graduate student projects as well as a fourth-year course.



20-foot-high single-bulb lamp standards are replacing the 13-foot triple-bulb standards across the campus, for reasons of economy. Depending upon whether they were glass, plastic or fibreglass, the round covers on the three-bulb standards cost from \$40 to \$200 each to replace — and they were frequently broken or stolen.



Many new courses, programs approved

UBC's Department of Anthropology and Sociology is expanding its offerings in the field of archeology to accommodate expanding student enrolment at both the undergraduate and graduate levels.

Over the past five years, enrolment in the seven archeology courses currently offered by the department has doubled, according to Prof. Richard Pearson, who heads the archeology program in the anthropology and sociology department.

He said four new courses recently approved by UBC's Senate constitute an "enrichment" of the archeology program for the growing number of students who want general interest courses outside their major field of study, as well as for specialists.

Prof. Pearson said he did not anticipate the expanded program would require additional faculty members. "We plan to adopt a flexible teaching schedule that will permit us to offer most of the courses that will be listed in the University calendar," he said.

The new courses approved by Senate are a survey of prehistoric archeology in Western Canada, a survey of the archeology of East and Southeast Asia, a course in applied archeology reviewing current practices of cultural heritage resource management and a graduate course on comparative and developmental studies in archeology.

These courses will be complemented by two other new courses to be offered in UBC's history department and under the museology training program offered through the University's Museum of Anthropology.

The history department course will introduce students to historical archeology using evidence from medieval and modern cultures. The museology course, to be taught by the professional conservator on the staff of the Museum of Anthropology, will deal with techniques for conserving cultural materials.

Other courses in the field of archeology are offered at UBC in the Departments of Classics and Religious Studies.

The Department of Computer Science, jointly with the Department of Mathematics, is offering a new program for students wishing to major in mathematical computing. The Major in Mathematical Computing includes all courses required in either the computing science or mathematics major programs, with the exception of Mathematics 201 and 220.

A report to the UBC Senate said it is "anticipated that students in this program would be certified for graduation in both the math and computer science departments in the same way that students in the double major program are presently dealt with, and that graduation standing would likewise be determined in the same way."

An Aquatic Specialization will be offered by the School of Physical Education and Recreation, beginning in September.

Prerequisite to the specialization is PHED 231 (Basic Lifesaving Skills) or

the Bronze Medallion Award of the Royal Life Saving Society of Canada. Students in the School of Physical Education and Recreation who want the specialization will be required to take a total of 12.5 units of special aquatic courses.

Dr. Robert Morford, the school's director, said swimming pools now are the second largest employer of phys ed graduates — after the public school system.

A master's program in pulp and paper engineering has been approved by the UBC Senate and Board of Governors and is before the Universities Council of B.C. for funding consideration as a new program.

Earliest the program could be offered would be September 1983, although 1984 appears more likely.

Entrance requirements will be those of the Faculty of Graduate Studies for the M.Eng. program, plus some previous exposure to the pulp and paper industry.

The program will have 15 units of course work and a 3-unit project. It is designed to be completed in 12 months.

Garden gets support for work program

Mr. and Mrs. E.H. Lohbrunner of Victoria recently donated more than \$10,000 to the UBC Botanical Garden to establish a work exchange program, and for the acquisition of plants for the Alpine Garden.

The work exchange program will support a person interested in pursuing career development in the care and maintenance of alpine plants during a three to four month study program at the Botanical Garden. Criteria for the selection of a candidate for the program will be decided by members of the Botanical Garden staff.

The donation will also be used to establish an endowment, from which interest will be used for the acquisition of plants for the Alpine Garden.

Mr. and Mrs. Lohbrunner operate a nursery in Victoria.

Lock up your car

The following is a report from students involved in the UBC Crime Prevention Project, a group established last summer:

"The number of thefts from automobiles on campus is on the increase. The University detachment of the RCMP reports that 31 incidents of theft from automobiles occurred between Jan. 5 and Feb. 16 this year.

"Stereo and car parts are being stolen. The majority of the thefts occur in major parking areas, such as B Lot, between 8 a.m. and 4 p.m.

"The UBC Crime Prevention Project will be patrolling these areas. We urge everyone to lock up their vehicles and deter theft."

CAMPUS PEOPLE

Few retirement parties in recent years have been as crowded as the one held in the Garden Room of the Graduate Student Centre on Feb. 26 to mark the retirement of Lawrence T. "Lawrie" Funnell, a widely known and popular member of the UBC employed staff for 40 years.

Nearly 300 of Lawrie Funnell's campus friends crowded into the Garden Room for a late-afternoon reception at which he was presented with a number of gifts and heard tributes from long-time associates.

Prof. Lorne Kersey, who retired from electrical engineering in 1980, described a number of "encounters" with Lawrie Funnell in the years when both were on campus and another tribute came from Ken Andrews, president of CUPE Local 116.

John McLean, former director of employee relations at UBC, recalled that Lawrie was a staunch union man during his career at UBC and told the gathering that "many of the best things in the current union contract are there because of Lawrie Funnell's presence at the bargaining table."

Lawrie Funnell joined the UBC staff in 1942 as one of nine janitors who serviced all UBC buildings in those days. His starting salary was \$110 a month.

After serving in World War II ("I volunteered for overseas duty, but they wouldn't send me because my feet were too flat"), he rejoined the UBC staff in 1945.

"A week after I got back," Lawrie recalls, "Dr. Hector MacLeod, the head of electrical engineering, called me in and asked if I'd like to work with Sam Smiley in the Powerhouse as a steamfitter. In those days the Powerhouse came under electrical engineering, not Physical Plant."

Lawrie became a fully qualified steamfitter after a five-year apprenticeship that eventually led to his becoming head steamfitter in 1954. In 1961 he transferred to Physical Plant as head tradesman on the night shift.

In retirement, Lawrie plans to continue his hobby of working in

stained glass, creating windows and Tiffany lamps. "And," he adds, "I do an awful lot of walking."

He and his wife, Margaret, have three sons — all members of the Vancouver Fire Department — and six grandchildren.

Prof. Robert Kubicek, head of UBC's Department of History, has been awarded a Smuts Visiting Fellowship in Commonwealth Studies to enable him to undertake research at Cambridge University in England in 1982-83.

He plans to continue a study already under way into the role of technology — weapons, telegraphy, railroads, steamships, electricity and mining processes and machinery — in European expansion in Africa in the late 19th century.

Jack Kelso of Physical Education and Recreation and UBC swim coach has been named Women's Coach of the Year by the Canadian Intercollegiate Athletic Union. UBC's Don Lieberman was named Women's Diving Coach of the Year.

The awards were made at a banquet following the national CIAU swimming meet hosted by UBC March 4-6. UBC's women's team finished second in the meet with 254 points overall behind the University of Toronto with 323 points. UBC's men's team finished fifth.

UBC gymnast Patti Sakaki won her third straight individual title at the CIAU national gymnastics championships held in Winnipeg March 6. She took the gold medal with a score of 33.10, while teammate Lana Wong finished fourth with 30.08 points.

In the team event, the University of Manitoba took first place with a score of 93.617, just better than UBC's score of 92.517.

A number of individuals associated with UBC have recently been reappointed to institute and college boards by the provincial government.

Prof. John Chapman of the geography department has been reappointed to the board of the Pacific Marine Training Institute for a two-year term.

Professor emeritus of history Dr. Margaret Ormsby has been reappointed to the board of Okanagan College for two years and UBC student Marion Reeves of Gibsons has been reappointed to the board of Capilano College in West Vancouver.

A B.C. mountain has been named for the late Prof. Charles E. Borden, who pioneered studies in the archeology of B.C. Indian culture while a UBC faculty member from 1939 to 1970.

Prof. Borden died at the age of 73 in December, 1978.

The 2,120-metre (6,933 feet) peak is in the Kasalka Range southeast of Taitsa Lake in the region between Smithers and Tweedsmuir Park. Prof. Borden conducted archeological work in the neighboring Nechako area.

The peak was selected by the

Canadian Permanent Committee on Geographic Names at the request of the B.C. Heritage Advisory Board. The fact that there were no substantial unnamed peaks in the area prevented the board from attaching Dr. Borden's name to a mountain in the Fraser Canyon area, the site of Prof. Borden's most productive work.

The mountain named for Prof. Borden can be seen from the end of the road south of Sweeney Lake. It is the highest peak in the area and has icefields on its upper slopes.

Dr. Peter Oberlander, Director of the Centre for Human Settlements, UBC, gave the 1982 Canadian Issues lecture of the Canadian Studies Program at the Hebrew University in Jerusalem earlier this month.

He spoke on "Dynamics of Settlements and Recent Economic Changes in Canada." Prof. Oberlander was the inaugural Visiting Professor in Urban Studies at the Hebrew University three years ago.

NEW AWARDS

Mr. Justice Walter Kirke Smith Memorial Scholarship — An annual scholarship in the amount of approximately \$1,500, from the income of a fund established under the auspices of the Vancouver Bar Association from contributions by members of the bench and bar, has been established to honor the memory of Walter Kirke Smith, late Justice of the Supreme Court of British Columbia. Mr. Justice Kirke Smith was a 1949 graduate of the Faculty of Law who was noted for his scholarship, humor, and particularly his sympathetic but fair response to the problems of those who appeared before him, both litigants and counsel. The award will be made on the recommendation of the faculty, to a student entering second or third year in the Faculty of Law, who has demonstrated excellence in his/her application to the work and life of the faculty. (Available in the 1982/83 winter session).

B. & B. Sivertz Bursary — One or more bursaries to a total of \$1,000 have been made available by Mr. and Mrs. B. Sivertz of Nanoose Bay, B.C. The awards will be made to students demonstrating financial need with preference given to those who reside outside the Lower Mainland. (Available in the 1981/82 winter session).

Westmin Resources Limited — Dr. G.M. Furnival Scholarship — An annual scholarship in the amount of \$1,500 is offered to students in the second or higher year of mining and mineral process engineering or geological engineering by Westmin Resources Limited, to honor the contributions of Dr. G.M. Furnival to the development of the mineral industry. Candidates must be proceeding to a degree in either mining and mineral process engineering with specialization in mining engineering, or in geological engineering with specialization in mining geology. This award will be made on the basis of both scholarship and demonstrated interest in the

mining industry, on the recommendation of the head of the Department of Mining and Mineral Process Engineering or the director of geological engineering. The award will normally alternate annually between the two departments. (Available for the 1982/83 winter session).

Norman P. Hager Memorial Scholarship — A scholarship in the amount of \$750 has been made available by the alumni of Delta Kappa Epsilon Fraternity to recognize the contribution of Norman P. Hager to the community and the fraternity. The scholarship will be awarded annually to an undergraduate member of Delta Kappa Epsilon Fraternity who demonstrates to the selection committee appropriate standards of scholarship, student activity and service within the fraternity. (Available in the 1981/82 winter session).

Lornex Mining Corporation — Dr. E.B. Gillanders Memorial Scholarship — An annual scholarship in the amount of \$1,000 has been provided by Lornex Mining Corporation Ltd., in memory of Dr. Earl B. Gillanders, B.A. (Geology) 1925, M.A. (1926), Ph.D. Princeton (1930) and his many contributions to the mining industry. The award will be made to a student proceeding to a B.A.Sc., degree or higher degree in mining and mineral process engineering. The student must be planning to work in the mining industry following graduation. This award will be made on the recommendation of the head of the Department of Mining and Mineral Process Engineering. (Available in the 1982/83 winter session).

Ernest Wesley Cubitt Sharpe Memorial Scholarship — An annual scholarship in the amount of approximately \$200 has been made available by C. Jane DeVitt in memory of Ernest Wesley Cubitt Sharpe. The award will be made on the recommendation of the Department of Music, to the top ranking student in music history or composition. (Available in the 1982/83 winter session.)



Lawrence T. "Lawrie" Funnell, popular member of UBC's Department of Physical Plant and a UBC employee for 40 years, holds aloft a stereo radio, one of a number of gifts he received at a late February retirement party in his honor at UBC's Graduate Student Centre.



Young and old flocked to UBC by the thousands March 12 and 13 for one of the most successful Open Houses ever held. Here, visitors have a look at underseas specimen table in zoology lab.

25 years of progress computed

On a wall on the top floor of the Computing Centre is a sign that says: UBC's first computer, the Alvac III-E, began operation here in March, 1957.

You don't have to have a brain — or a reasonable mechanical facsimile that computes in nanoseconds — to figure out that this month is the 25th anniversary of the Computing Centre.

Well, not quite the Computing Centre itself. UBC's first computer seems Precambrian by today's standards.

Consider this. Anyone wandering into the Bookstore can buy a pocket calculator for less than \$20 that is more powerful than UBC's first computer.

Or this. The Amdahl V/8 computer in the Computing Centre today is 25,000 times more powerful than the original Alvac. True, today's computer cost \$2.5 million compared with the measly \$65,000 for the computer 25 years ago. But today's computer is so much more powerful and quick that it is about 700 times more efficient per unit of cost.

The original computer was housed in a cabinet on casters in a tiny room of less than 400 square feet, a far cry from the air conditioned vastness of the Computing Centre today. It had one terminal — a modified manual typewriter, and its display screen was an adapted oscilloscope.

Solid state technology hadn't been invented and the computer glowed with row upon row of vacuum tubes similar to those in old radios and television sets.

It had 41 users within the first six months of installation and was operated

by three people. The machine we have today has 10,000 users and is staffed by 115 people.

The task of determining what could be done with a computer and whether the University should have one was given to "The Automation Committee" of the University. Public apprehension concerning computers today is nothing like the fear and suspicion about in 1957.

Computing Centre director Al Fowler says his own apprehension for the industry is because of a growing lack of standards. "It could be the deathknell of the computer," he says.

Software is designed around certain computer languages. The number of languages being made available is increasing almost as quickly as hardware. Even relatively cheap micro-processors, says Mr. Fowler, are being manufactured with their own unique languages. And in many instances, users are altering the languages even further for their own purposes.

Mr. Fowler, who is president of the Canadian Information Processing Society, fears the result will be a tower of Babel. Few computer users will be able to use other computers and programs to run their work. At the same time as computer hardware becomes even more commonplace, portability of programs will decrease.

He says there is no sign of the situation improving.

The UBC computer in 1957 was the second in Canada and the first west of Ontario.

Hospital *continued from page 1*

B.E. Riedel, and Mr. A.F. Pierce, a member of the Board of Governors.

Appointed to the new board of trustees from health ministry selections are the Hon. J.V. Clyne, Chancellor of UBC and member of the Board of Governors, Mr. G.D.H. Hobbs, also a member of UBC's Board of Governors and a former chairman of the hospital's management committee, and Mr. L.I. Bell, deputy minister of finance.

Mrs. J.A.P. McCusker and Mr. A.R. Crawford, both members of the Board of Governors, and Dr. W.C. Koerner, former chairman of both the Board of Governors and hospital management committee, have been

appointed from selections of the Ministry of Universities, Science and Communications.

At the first meeting of the board of trustees in February, Mr. Hobbs was elected chairman and treasurer, Dr. Koerner vice-chairman, and Mrs. McCusker secretary.

The new arrangement will be similar to the relationship between UBC and other teaching hospitals such as VGH, St. Paul's, Shaughnessy, the Children's Hospital and Grace, except that the hospital is on University property and is leased from UBC.

Also transferred to the society will be the hospital's current operating accounts.

Presidential search committee to meet

The 24-member advisory committee for the recommendation of candidates to succeed Dr. Douglas T. Kenny as president of the University will hold its first meeting on April 7.

The committee, chaired by Chancellor J.V. Clyne, was announced in December. It will adopt criteria to guide it in the selection of candidates and recommend a short list to the staff committee of the Board of Governors.

The staff committee will, in turn, make its recommendations to the full Board, which has responsibility for the appointment of the president under the *University Act*.

UBC's eighth president will take office on July 1, 1983, when Dr. Kenny steps down after eight years as the University's chief executive officer.

This week, Chancellor Clyne issued a statement directed to all members of the University community — faculty, students, staff and alumni — asking interested persons to assist the committee by providing names of prospective candidates and by submitting opinions as to appropriate attributes of any candidate.

He said the committee will advertise widely in appropriate publications in Canada and abroad the fact that candidates are to be considered for president.

Here is the balance of the chancellor's statement:

"In submitting names of persons whom you consider to be suitable candidates for the position of president of UBC, it is important that you provide the committee with as much personal and academic biographical information as possible, and with your reasons for proposing each name. It will assist the committee if you can give an indication that someone you name is available for consideration as a potential candidate.

"Whether or not you propose candidates, the committee would like your views on the attributes you would consider it desirable for the next president of this University to possess. In addition, the committee would welcome expressions of opinions concerning the crucial issues likely to affect the scope and nature of the office of president in the years ahead.

"Your reply will be treated in absolute confidence by the committee.

"Please address your reply to me at the following address. Although no deadline date has been set, it would be helpful to the committee if your letter

were received, if possible, by April 5, 1982. Address: Hon. J.V. Clyne, Room 109, Old Administration Building, The University of British Columbia, CAMPUS MAIL."

Resources Council transfers to Alumni

UBC's administration and its Alumni Association have reached agreement on a plan to consolidate all fund-raising activities in the private sector.

President Douglas T. Kenny has announced that effective immediately the fund-raising functions of the University Resources Council, until now a division of the President's Office, would be transferred to the Alumni Association.

Under the agreement, the Alumni Association will co-operate with the President's Office in the co-ordination of all fund-raising activities in the private sector. Up until now, the association has been responsible only for the operations of the Alumni Fund, which receives and processes annual gifts to the University from graduates.

The Resources Council, an outgrowth of fund drives in the 1950s and 1960s to raise money for the construction of new campus buildings, has concentrated on raising funds from corporations and foundations for a wide range of UBC activities, including research and student aid.

The council also has a Wills and Bequests Committee, which prepares and communicates information to lawyers on ways in which they can advise clients wishing to make bequests to the University.

"In the last fiscal year," President Kenny said, "the University received more than \$10 million from graduates and other individuals, corporations and foundations for a variety of University functions.

"This support is a clear indication of the confidence in the private sector for the quality of UBC's academic programs and its faculty members and students. Support from the private sector will become even more important in the years ahead as the University adjusts to the pressures of retrenchment and inflation."

Under the new arrangement for fund-raising, overall direction of the Resources Council and the Alumni Fund will be the responsibility of Dr. Peter Jones, executive director of the Alumni Association. Day-to-day responsibilities of both organizations will be handled by Allan Holender, director of the association's Alumni Fund.

Dr. Jones said the agreement reached with the University envisages a revitalized Resources Council that would provide consulting and other support services for University fund-raising and explore new methods of attracting private-sector funds.

Botanical Gardens selling 'excess'

Things are getting a little crowded in some of the Botanical Garden's flower beds, so they've decided to sell off some of their excess plant material.

Sale begins Tuesday, March 23, and continues until Friday, March 26 at the Botanical Garden service yard on Stadium Road west of Thunderbird Stadium. Sale hours are 12 noon to 5 p.m.

Material available on a first-come, first-served basis includes rhododendrons, bush and miniature roses and herbaceous perennials.

17-year research project nears completion

A research team at the University of British Columbia is rapidly nearing completion of a 17-year project that will close a major gap in knowledge about the great 19th century German composer Johannes Brahms.

Scheduled for publication in 1983 to mark the 150th anniversary of Brahms's birth is the first thematic catalogue of the composer's entire musical output, which included every major musical genre except opera.

The catalogue, which will run to nearly 1,000 pages, is the fruit of almost two decades of intensive research by the late Prof. Donald McCorkle, former head of UBC's music department, and his wife, Margit, who carried on the Brahms project following her husband's sudden death from a heart attack in 1978.

Mrs. McCorkle said the catalogue, in addition to being of major interest to music scholars and students, will also be a source of information for writers of record liner notes and concert programs, music critics, librarians and archivists.

Auction houses, antiquarian booksellers and collectors will also find the catalogue useful because of the wealth of information it will contain about the manuscripts of Brahms's music — either those in the composer's own hand (called autographs) or those prepared by professional copyists under Brahms's supervision, and the editions published during the composer's lifetime (referred to as original editions).

A thematic catalogue is basically a bibliography — a listing — of everything written by a particular composer, Mrs. McCorkle explained.

In addition to reproducing the opening bars of each composition (in the same way that a literary bibliographer will prepare an index of the first lines of a poet's works), a thematic catalogue also provides details related to the creation of each work (where and when it was composed), information on the work's first performance (when, where and who performed it) and the circumstances of its publication during Brahms's lifetime (when, where and who published it).

The catalogue will also contain a physical description of all the known manuscripts written in Brahms's own hand or those prepared by authorized copyists and their locations. Added to this will be a bibliographic description of the original editions of each composition, which will enable scholars and collectors to compare the first with subsequent editions for content and variations.

The long road leading to publication of the catalogue began in 1965, when Mrs. McCorkle's husband agreed to teach a graduate seminar on Brahms at the University of Maryland, where he was then a faculty member.

"When my husband began research in preparation for the seminar," Mrs. McCorkle said, "he was surprised to find there was no thematic catalogue for Brahms analogous to the ones in existence for the music of Bach, Mozart, Beethoven and Schubert. Further investigation showed that the location of most of Brahms's manuscripts wasn't even documented."

Tradition also had it that Brahms had destroyed nearly all evidence of his creative process during his lifetime



Mrs. Margit McCorkle, leader of UBC's Brahms project, is flanked by research assistants Wiltrud Martin and Thomas Quigley.

and what did exist wasn't very interesting for scholarly purposes.

Prof. McCorkle demolished that notion by visiting the Library of Congress in nearby Washington, D.C., which holds a substantial number of Brahms's manuscripts.

"It was apparent to him that the significance of the manuscripts had been grossly underestimated," Mrs. McCorkle said.

Initially, she said, the project was confined to locating all Brahms's manuscripts, which meant visits to a number of U.S. centres, and to archives and libraries in Europe, chiefly in Vienna and Hamburg.

"Nearly two-thirds of Brahms's manuscripts are held by half a dozen major institutions in the U.S., Austria and West Germany," said Mrs. McCorkle, "and the balance are in libraries and archives or in private hands in the U.S., Great Britain and a number of European countries, some behind the Iron Curtain." Just recently, she adds, a cache of Brahms's manuscripts has turned up in Russia.

On the whole, she adds, access to archive collections was not a problem, provided the researchers had established their credentials as serious scholars and obtained an introduction to the institutions holding the collections.

The response of private collectors varied from full co-operation by individuals who were proud of their manuscript collections to a few who refused assistance under any circumstances for one reason or another.

Over the years, the McCorkles have documented the location of 95 per cent of Brahms's manuscripts known to be in existence. In cases where an autograph or an authorized copy of the manuscript doesn't exist, the first published version must then serve as the most authoritative document for validating the text.

Mrs. McCorkle feels, however, that editions published in Brahms's lifetime (1833-1897) are fairly reliable, even when autographs and authorized copies are lost.

"Brahms," she said, "wrote music for publication, unlike earlier

composers such as Mozart, who was more concerned with relations with his patrons and whose works were often performed privately before relatively small audiences.

"Brahms wrote for a larger public and because he had published in his lifetime almost everything he wished, he was able to work closely with the publishers to ensure that the original editions of his works were quite accurate.

"From the few surviving galley proofs with corrections in his own handwriting, as well as from the extensive correspondence with his publishers, we know that he had a lot of control over his published works."

The fact that some autograph and authorized copies of Brahms's music have disappeared is not surprising, Mrs. McCorkle said. "Those manuscripts sent to the publishers to be used as engraver's models were seldom returned to him. Other manuscripts he gave away to friends as gifts or to individuals to whom they were dedicated. And inevitably, some of the manuscripts have disappeared as the result of the disruptions of two world wars in Europe."

At the time of his death in 1978, six years after he joined the UBC faculty, Prof. McCorkle and his wife had located three-quarters of Brahms's manuscripts still extant and a contract was being negotiated to produce the thematic catalogue.

Since 1978, Mrs. McCorkle has searched out the balance of the manuscripts, collected bibliographic information and written the individual entries for the catalogue. These tasks, plus negotiations with her German publisher, mean extensive travelling to the eastern U.S. and Europe each year.

Mrs. McCorkle settled on a German publisher — G. Henle Verlag of Munich — primarily because they had experience in publishing thematic catalogues, having produced similar volumes on Beethoven and Chopin.

Although the text of the book will be in German, the publisher has agreed to print extensive prefatory material, instructions for the use of the catalogue and an extensive glossary in both English and German, with the

result that most people will be able to find their way around in it.

Mrs. McCorkle is generous in her praise of the Canada Council and the Social Sciences and Humanities Research Council of Canada for their support of the project over the years. "I think Canadians can be proud of the fact that they have granting agencies with the breadth of vision to see that the Brahms project would be an important contribution of knowledge," she said.

The grants have primarily been used to pay the salaries of two research assistants. (Mrs. McCorkle herself holds an appointment as a research associate in the UBC music department.)

Her current assistants are Thomas Quigley, a graduate of UBC's School of Librarianship who has done much of the bibliographic work associated with the project, and Wiltrud Martin, a native of Germany who helps prepare the German-language entries for publication.

Quite apart from being named as the authors of the catalogue, the McCorkles will have their imprint on the volume in one other significant way.

There is a residue of several dozen compositions by Brahms that are not included under any of the 122 opus numbers that serve as the basic catalogue of his works. Mrs. McCorkle said this residue will be included in the thematic catalogue with "McC." numbers attached to them.

There is clearly precedent for this. The "K" numbers attached to all of Mozart's compositions stand for the name Ludwig Ritter von Köchel, who compiled the catalogue of Mozart's works published in 1862.

The research team headed by Mrs. McCorkle spends about eight hours a day, five days a week working on the catalogue. Mrs. McCorkle said she spends much of her time on weekends on correspondence connected with the project.

"But we're right on schedule in the production of the manuscript," she said. "I expect to send it off to Germany within the next four months so that typesetting can get under way."

UBC CALENDAR

Calendar Deadlines

For events in the weeks of April 4 and April 11, material must be submitted not later than 4 p.m. on March 25. Send notices to Information Services, 6328 Memorial Rd. (Old Administration Building). For further information, call 228-3131.

The Vancouver Institute.



Saturday, March 20
Environment and the Law. President David Williams, Wolfson College, Cambridge University.

Saturday, March 27
Poland and the Future of Eastern Europe. Prof. H. Gordon Skilling, Political Economy, University of Toronto.

Both lectures in Lecture Hall 2, Woodward Instructional Resources Centre at 8:15 p.m.

SUNDAY, MARCH 21

SUB Films.

Heavy Metal. Admission is \$1. Auditorium, Student Union Building. 7 p.m.

Concert and Coffee House.

Free concert and coffee house featuring the Vancouver gospel group Salmond and Mulder. Sponsored by I.V.C.F.-UBC. Partyroom, Student Union Building. 8 p.m.

MONDAY, MARCH 22

Architecture/Asian Research Lecture.

Chinese Architectural History III: Ancient Grottoes, Tombs and Temples. Prof. Li Zai-Chen, Chongqing Architectural Engineering Institute, and visiting research associate, Architecture, UBC. Room 102, Lasserre Building. 12:30 p.m.

Mechanical Engineering Seminar.

Wood Cutting Research in Mechanical Engineering at UBC. Dr. S.G. Hutton, Mechanical Engineering, UBC. Room 1215, Civil and Mechanical Engineering Building. 3:30 p.m.

Applied Mathematics Seminar.

Instability and Splitting of Mesoscale Rings in an Ocean. Prof. Moto Yoshi Ikeda, Oceanography, UBC, and visiting professor from the University of Tokyo. Room 104, Mathematics Building. 3:45 p.m.

'Pops' Concert.

UBC Wind Symphony. Martin Berinbaum, director. For ticket information, call 228-3113. Ballroom, Student Union Building. 8 p.m.

TUESDAY, MARCH 23

Distinguished Visitors Program/Classics Lecture.

Church, State, and Learning in Twelfth Century Byzantium. Prof. Robert Browning, Greek, Birbeck College, University of London. Room 205, Buchanan Building. 12:30 p.m.

Botany Seminar.

The Distribution of Diatom Valves in the Surface Sediments of British Columbia Inlets. Adrienne Roelofs, UBC. Room 3219, Biological Sciences Building. 12:30 p.m.

Forestry Seminar.

Impacts of New Techniques in Remote Sensing and Mapping on Timber Management. Dr. Bob Woodham, Forestry, UBC. Room 166, MacMillan Building. 12:30 p.m.

Law Lecture.

Sami and the Alta River Project: Indigenous Politics in Norway. Prof. Douglas Sanders. Room 169, Law Building. 12:30 p.m.

Women's Studies Lecture.

The Feminist Revolution and the Law. Prof. Joe Smith, UBC. Room 204, Buchanan Building. 12:30 p.m.

Cecil and Ida Green Lecture.

The General Organization of Viable Systems. Prof. Stafford Beer, visiting professor of cybernetics at Manchester University. Room 106, Buchanan Building. 12:30 p.m.

Oceanography Seminar.

Low-Frequency Subsurface Current and Density Fluctuations in the Strait of Georgia. Dr. S. Pond and Dr. T. Yao, Oceanography, UBC. Room 1465, Biological Sciences Building. 3:30 p.m.

Geological Sciences Building.

Proterozoic of Gawler Craton, South Australia. Dr. A. John Parker, Mines and Energy, South Australia. Room 330A, Geological Sciences Building. 3:30 p.m.

Biomembranes Discussion Group Seminar.

Trans-sarcolemmal Ca^{2+} Exchange in the Heart. Dr. G. Langer, Cardiovascular Research Lab., UCLA. Lecture Hall 5, Woodward Instructional Resources Centre. 4 p.m.

Chemistry Seminar.

Intramolecular Thiolytic of an Amide: A Possible Model for Papain Action. Robert McDonald, Mount St. Vincent University, N.S. Room 126, Chemistry Building. 4:30 p.m.

Gerontology Seminar.

Planning for Role Transitions and Altered Lifestyles - Individual Factors. Prof. Mary Hill, Social Work, UBC. Lecture Hall 3, Woodward Instructional Resources Centre. 7 p.m.

Humanities and Sciences Program.

Small is Possible: Update on The World of Appropriate Technology. George McRobie, author of *Small Is Possible*. Admission is \$4; \$3 for students. For more information, call 228-2181, local 261. Lecture Hall 2, Woodward Instructional Resources Centre. 8 p.m.

WEDNESDAY, MARCH 24

Pharmacology Seminar.

Cellular Mechanisms and Control of Potassium Chloride Reabsorption in An Insect Excretory System. Dr. John E. Phillips, Zoology, UBC. Room 114, Block C, Medical Sciences Building. 12 noon.

Hillel House.

Free lunch provided by the B'nai B'rith women. Hillel House. 12 noon.

Wednesday Noon-Hour Concert.

Music of Mozart and Franck. John Loban, violin, and Lee Kum-Sing, piano. Recital Hall, Music Building. 12:30 p.m.

Distinguished Visitors Program/Classics Lecture.

Old and New in Literature in the Age of Justinian. Prof. Robert Browning, Greek, Birbeck College, University of London. Room 204, Buchanan Building. 12:30 p.m.

Anatomy Seminar.

Cellular Adhesion: The Role of Cell Wall Polymers in the Adhesion of Micro-organisms. Dr. B.C. McBride, Microbiology, UBC. Room 37, Anatomy Building. 12:30 p.m.

English Colloquium.

Reading from *Who Travels Too*, a novel-in-progress. Aritha Van Herk. Penthouse, Buchanan Building. 3:30 p.m.

Statistics Workshop.

Stochastic Models for Rock Stability in Tunnels (Joint Work with P. Lang). Prof. Peter McCullagh, Mathematics, UBC, visitor from Imperial College. Room 239, Geography Building. 3:30 p.m.

Animal Resource Ecology Seminar.

Population Dynamics of Hares. Dr. Lloyd Keith, Wildlife Ecology, University of Wisconsin, Madison. Room 2449, Biological Sciences Building. 4:30 p.m.

George J. Spencer Memorial Lecture.

The Relationship of the Tsetse Fly and Its Host. Dr. E. Bursell, Tsetse Research Laboratory, Veterinary Medicine, University of Bristol. Room 2000, Biological Sciences Building. 8 p.m.

THURSDAY, MARCH 25

UBC Choral Union.

Music of Vaughan-Williams, Stravinsky and Schafer. Jon Washburn, guest director. Recital Hall, Music Building. 12:30 p.m.

Architecture/Asian Research Lecture.

Chinese Architectural History IV: Chinese Traditional Dwelling Houses. Prof. Li Zai-Chen, Chongqing Architectural Engineering Institute, and visiting research associate, Architecture, UBC. Room 102, Lasserre Building. 12:30 p.m.

Entrepreneurial Women.

A panel discussion of interest to all women students who are exploring career options. Panelists will include Dolly Hopkins (professional clown); Mary Bennett (publisher of *Nine to Five*); Roberta Bisaro (restaurantier and

potter); and Pat Reid (founder and president of professional support group). For further information, call 228-4172. Room 302, Brock Hall. 12:30 p.m.

Cecil and Ida Green Lecture.

Specific Organizational Problems in Viable Societary Systems. Prof. Stafford Beer, visiting professor of cybernetics at Manchester University. Room 106, Buchanan Building. 12:30 p.m.

Political Science Lecture.

Arab Foreign Policy and the Role of Islam. Dr. David Ariel, Consul General of Israel in Toronto. Room 223, Buchanan Building. 12:30 p.m.

H.R. MacMillan Lecture.

Intensive Forest Management Options in the Pacific Northwest in Comparison with Opportunities in Other Regions and Countries. Dr. Roger A. Sedjo. Room 166, MacMillan Building. 12:30 p.m.

Architectural Dialogue.

Facing - Not Defacing - Towns. Jane Jacobs, author and urban specialist, Toronto. Room 202, Lasserre Building. 1:30 p.m.

Condensed Matter Seminar.

Fractional Charges. Roman Jackiw, MIT. Room 318, Hennings Building. 2:30 p.m.

Geological Sciences Seminar.

Goldmining and Exploration in the Yukon. R.L. Debicki. Co-sponsored by the Department of Mining and Mineral Process Engineering. Room 317, Frank Forward Building. 2:30 p.m.

Computing Centre Anniversary Lecture.

Nostalgia Isn't What It Used To Be. Dr. Tom Hull, Computer Science, University of Toronto. Room 200, Computer Sciences Building. 2:30 p.m.

Biochemical Discussion Group Seminar.

Structure, Evolution and Expression of Human Polypeptide Hormone Genes. Dr. Howard Goodman, Harvard University Medical School. Lecture Hall 2, Woodward Instructional Resources Centre. 4:30 p.m.

Zoology "Physiology Group" Seminar.

Proline for the Tsetse Fly. Dr. E. Bursell, Veterinary Medicine, University of Bristol. Room 2449, Biological Sciences Building. 4:30 p.m.

Sigma Xi Club Meeting.

A Himalayan Experience. Prof. Vinod Modi, Mechanical Engineering, UBC. Room 104, Lasserre Building. 4:30 p.m.

SUB Films.

Stripes. Continues on Friday, March 26 and Saturday, March 27 at 7 and 9:30 p.m. and on Sunday, March 28 at 7 p.m. Admission is \$1. Auditorium, Student Union Building. 7 p.m.

UBC Stage Band.

David Robbins, director. Old Auditorium. 8 p.m.

The Cascade Consort.

Paul Douglas, Peter Gries, Margret Gries and Maria de Rungs. Recital Hall, Music Building. 8 p.m.

FRIDAY, MARCH 26

Special Applied Mathematics Seminar.

Stabilized March For Nonlinear Problems. Prof. Mike Osborne, Australian National University. Room 232, Mathematics Building. 9:30 a.m.

UBC Contemporary Players.

Music of Crumb, Gerhard, Berio and Chatman. Eugene Wilson and Stephen Chatman, co-directors. Recital Hall, Music Building. 12:30 p.m.

Developmental Medicine Seminar.

Isolated Placental Mosaicism: Its Identification and Significance. Dr. Dagmar Kalousek, Pathology, UBC. First Floor Seminar Room, Willow Pavilion, VGH. 12:30 p.m.

Medical Genetics Rounds.

Genetic Susceptibility to Viral Vaccines. Dr. G.M. Lathrop, Medical Genetics, UBC. Fourth Floor Conference Room, Health Centre for Children, VGH. 1 p.m.

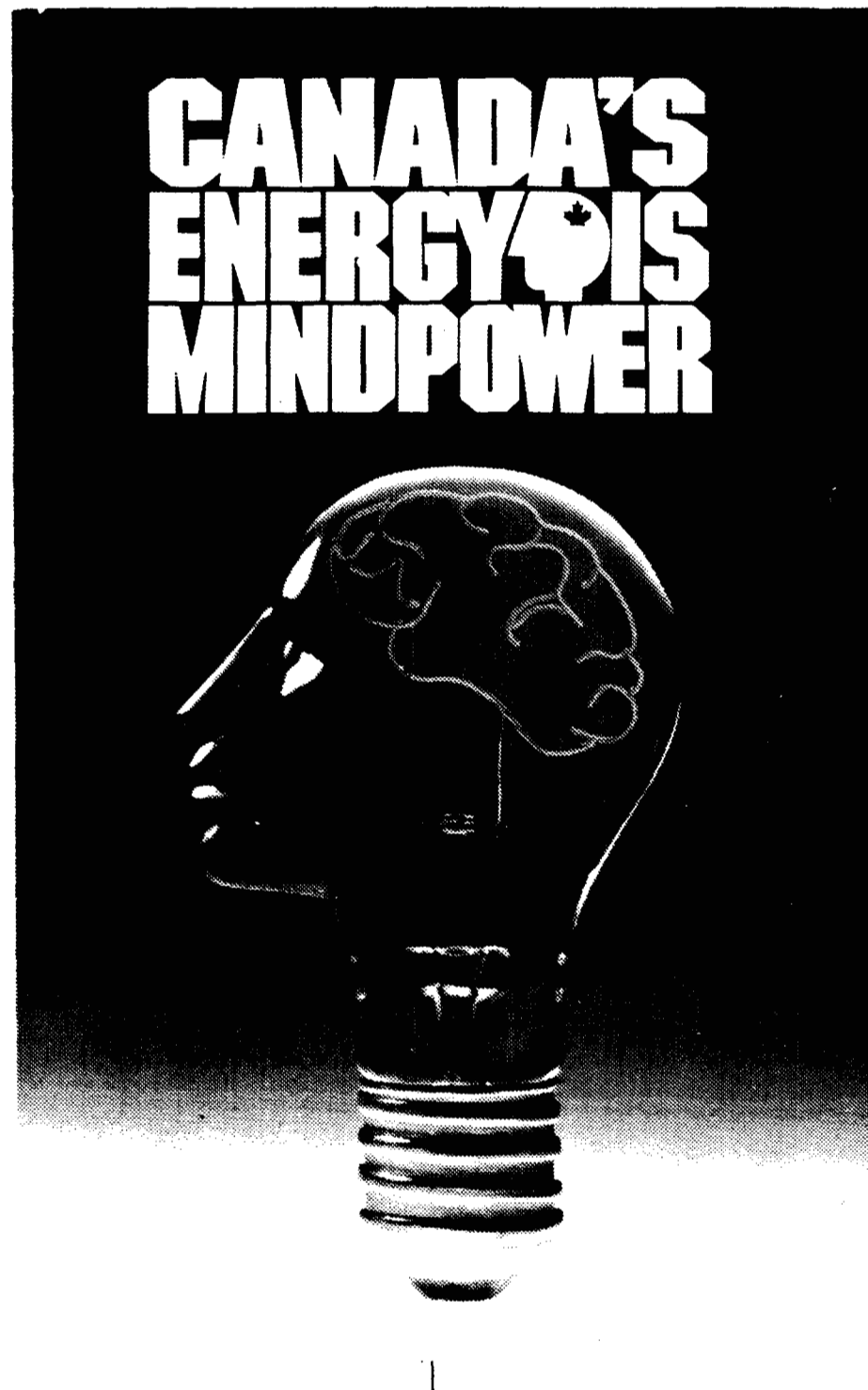
Correctional Education Seminar.

Vocational Training in the Correctional System. M.K. Baksh, chief, Vocational Education, Correctional Service of Canada. For further information, call 228-5881. Room 3, Adult Education Research Centre, 5760 Toronto Rd. 2 p.m.

Geophysics Seminar.

Paleomagnetism of the Bushveld Complex. P.J. Hattingh, Geology, University of Pretoria. Room 260, Geophysics and Astronomy Building. 3 p.m.

Continued on page 8



UBC CALENDAR continued from page 7

Christian Campus Ministry.
All faculty interested in discussing the possibility of forming a UBC Peace Research Group are invited to meet with Bernie Mohan, Education, UBC, and George Hermanson, chaplain, Room 204, Scarfe Building, 3 p.m.

Linguistics Colloquium.
How to Identify Morphemes in North Wakashan. John Rath, University of Leiden, the Netherlands. Room 2230, Buchanan Building, 3:30 p.m.

Geological Sciences Lecture.
Paleoenvironments and Facies Relationships of a Tide-Dominated Delta. Upper Cretaceous Alberta. Dr. Ray Rahmani, Geological Survey, Alberta Research Council, Room 330A, Geological Sciences Building, 3:30 p.m.

Chemical Engineering Seminar.
Analysis of Thermophoresis in Laminar Flow. A. Hussein, Coal Pyrolysis, T. McCafferty, Room 206, Chemical Engineering Building, 3:30 p.m.

Faculty Club.
Pub Night, Minstrel music between 6:30 and 8:30 p.m. Salons A, B and C, Faculty Club, 5:30 to 9:30 p.m.

UBC Public Affairs.
A Visitor Looks at the Vancouver Urban Scene. Prof. Christopher Hamnett, visiting professor in Urban Geography, Open University, with host Gerald Savory, UBC Centre for Continuing Education, Channel 10, Vancouver Cablevision, 7:30 p.m.

UBC Choral Union.
Music of Vaughan-Williams, Stravinsky and Schafer. Jon Washburn, guest director, Recital Hall, Music Building, 8 p.m.

SUNDAY, MARCH 28

Orchestral Concert.
Music of Moussorgsky-Ravel and Debussy. Vancouver Youth Symphony Orchestra. Lloyd Blackman, conductor. UBC Symphony Orchestra. Douglas Talney, conductor. Kazuyoshi Akiyama, guest conductor; and Kimball Sykes, clarinet soloist. Tickets: \$4, \$2, students and seniors. For further information, call 685-5729, or 228-3113. Old Auditorium, 2:30 p.m.

GRANT DEADLINES

Faculty members wishing more information about the following research grants should consult the Research Administration Grant Deadlines circular which is available in departmental and faculty offices. If further information is required, call 228-3652 (external grants) or 228-5583 (internal grants).

The UBC Jacob Biely Faculty Research Prize is awarded annually for distinguished research recently accomplished and published. Completed nominations should be received in Research Administration by the revised deadline of April 15, 1982. Please consult the March, 1982 deadline notice for more details.
University Research Grants 1982: Limited funds are available for UBC Research Grants in the Humanities, Social Sciences and the Creative and Performing Arts (HSS Grants). The deadline for 1982 only is April 1. No funding is available for UBC grants in the Natural Applied and Health Sciences (NAHS Grants) for 1982.

Note: All external agency grant application forms must be signed by the Head, Dean, and Dr. R.D. Spratley. Applicant is responsible for sending form to agency.

MONDAY, MARCH 29

Leon and Thea Koerner/Philosophy Lecture.
Consent to Exploitation. Prof. Joel Feinberg, Philosophy, University of Arizona. There will be a discussion of the lecture at 3:30 p.m. in the Penthouse of the Buchanan Building, Room 176, Law Building, 12:30 p.m.

Hispanic and Italian Studies Lecture.
La Literatura Latinoamericana: Una Nueva Imagen. Prof. Antonio Cornejo Polar, Programa de Literaturas, Universidad Mayor de San Marcos, Lima, Peru. Room 205, Buchanan Building, 12:30 p.m.

Mechanical Engineering Seminar.
Stress Distributions in Bandsaw Blades. Andreas Eschler, graduate student, Mechanical Engineering, UBC, Room 1215, Civil and Mechanical Engineering Building, 3:30 p.m.

Applied Mathematics Seminar.
Instabilities, Pattern Formation and Turbulence in Flames. Prof. Gregory I. Sivashinsky, Mathematics, University of California, Berkeley, Room 104, Mathematics Building, 3:45 p.m.

Biochemical Discussion Group Seminar.
In Vitro Replication Directed By A Cloned Adenovirus Origin. Dr. George D. Pearson, Biochemistry and Biophysics, Oregon State University, Corvallis. Lecture Hall 4, Woodward Instructional Resources Centre, 4:30 p.m.

Immunology Group Seminar.
Immunotherapy in a Tumor Model. Dr. Joseph D. Feldman, Immunopathology, Scripps Research Foundation, La Jolla, Calif. Salons B and C, Faculty Club, 8 p.m.

TUESDAY, MARCH 30

Anthropology and Sociology Seminar.
Material Culture: Myth and Reality. Prof. Barrie Reynolds, Material Culture, James Cook University, North Queensland, Australia. Room 209, Anthropology and Sociology Building, 11:30 a.m.

Forestry Seminar.
Fungus Gardeners, Pheromones and Artifacts. Dr. John McLean, Forestry, UBC, Room 166, MacMillan Building, 12:30 p.m.

Botany Seminar.
Ecology of the Dryland Mosses of B.C. Terry McIntosh, Room 3219, Biological Sciences Building, 12:30 p.m.

Hispanic and Italian Studies Lecture.
Literatura Latinoamericana: Unidad, Pluralidad, Totalidad. Prof. Antonio Cornejo Polar, Program de Literaturas, Universidad Mayor de San Marcos, Lima, Peru. Penthouse, Buchanan Building, 3:30 p.m.

Biomembranes Discussion Group Seminar.
Membrane Lipid Diversity A Possible Rationale. Dr. T.D. Madden, Biochemistry, UBC, Lecture Hall 5, Woodward Instructional Resources Centre, 4 p.m.

Chemistry Seminar.
The Coordination Chemistry of Biological Iron Transport. Prof. Ken Raymond, University of California, Berkeley, Room 126, Chemistry Building, 4:30 p.m.

Gerontology Seminar.
Lifelong Learning and Education Institutional Factors. Dr. Shiela Thompson, Douglas College, and Dr. James E. Thornton, Administrative Adult and Higher Education, UBC, Lecture Hall 3, Woodward Instructional Resources Centre, 7 p.m.

WEDNESDAY, MARCH 31

Wednesday Noon-Hour Concert.
Music of Beethoven. UBC Piano Trio. John Loban, violin; Eric Wilson, cello; and Jane Coop, piano. Recital Hall, Music Building, 12:30 p.m.

Hispanic and Italian Studies Lecture.
Arguedas. Prof. Antonio Cornejo Polar, Programa de Literaturas, Universidad Mayor de San Marcos, Lima, Peru. Room 216, Buchanan Building, 3:30 p.m.

Statistics Workshop.
An Adaptive Bivariate Cumulative Sum Procedure. Dr. W.G. Warren, Forintek Canada Corporation, Room 239, Geography Building, 3:30 p.m.

Comparative Literature Lecture.
There are Frontiers and Frontiers: European Claustrophobia and the Wild West. Peter Stenberg, Germanic Studies, UBC, Penthouse, Buchanan Building, 4:30 p.m.

THURSDAY, APRIL 1

Faculty Association.
Annual Meeting, Room 100, Mathematics Building, 1 p.m.

Condensed Matter Seminar.
Electronic Properties of the Mercury Linear-Chain Compounds. Erwin Batella, UBC, Room 318, Hennings Building, 2:30 p.m.

FRIDAY, APRIL 2

Medical Genetics Rounds.
Film *Ethics and Hard Choices*. Dr. F.J. Dill, Medical Genetics, UBC, Fourth Floor Conference Room, Health Centre for Children, VGH, 1 p.m.

Chemical Engineering Seminar.
Activated Sludge: Kinetic Model. A. Blancarte, Kinetics of Auto-Causticizing. G. Sozen, Room 206, Chemical Engineering Building, 3:30 p.m.

Hispanic and Italian Studies Lecture.
Literatura y Sociedad. Prof. Antonio Cornejo Polar, Programa de Literaturas, Universidad Mayor de San Marcos, Lima, Peru. Penthouse, Buchanan Building, 3:30 p.m.

Notices . . .

Nitobe Garden Hours
The garden will be open from 10 a.m. to 3 p.m. weekdays until Easter; and will be open seven days a week, from 10 a.m. to half-an-hour before sunset, from April 9 to Sept. 26.

Photographic Exhibition
Twenty large (6 ft. by 6 ft.) color photographs by architect Arthur Erickson, showing indigenous housing in developing countries, are on permanent display in the lounge and the first and second floor hallways of the Civil and Mechanical Engineering Building.

Bookstore Hours
The Bookstore will be closed on Thursday, April 1st and Friday, April 2nd for the purpose of taking annual inventory. Monday, March 29 will be the last day for accepting departmental requisitions.

War Memorial Gym Hours
As of March 1, operating hours at the gym will be as follows: 8 a.m. to 11:30 p.m. Monday through Thursday; 8 a.m. to 10 p.m. Friday; 10 a.m. to 6 p.m. Saturday; and the gym is closed Sundays.

Faculty Club Exhibition
Mixed Media Works by Audrey Capel Doray is on display at the Faculty Club until March 31.

Faculty Toastmasters
Faculty Toastmasters will meet every Thursday from 4 to 6 p.m. starting Jan. 14. Meetings take place in Room 2204 of the Civil and Mechanical Engineering Building. For more information, call Ralph Yorsh at 876-5131.

CITR

FM 102

MONDAYS

12:30 p.m. **Mini-Concert:** A spotlight on bands that have been or will be on CITR's playlist.
3 p.m. **Melting Pot:** A feature on research at UBC.
4:30 p.m. **Everything Stops For Tea:** Cultural Programming.
7 p.m. **Offbeat:** The stranger side of the news, with reviews of cheap and/or sleazy entertainment, plus cynics corner.
8 p.m. **Mini-Concert.**
9:30 p.m.-1 a.m. **The Jazz Show:** with Shelley Freedman.
11 p.m. **Final Vinyl:** A jazz album feature.

TUESDAYS

12:30 p.m. **Mini-Concert.**
3 p.m. **Coming Out on Campus:** A look at gay issues by the Gay People of UBC.
5 p.m. **Thunderbird Report:** Campus sports report with Dino Falcone and Brenda Hughes.
6:15 p.m. **Insight:** A focus on campus issues.
8 p.m. **Mini-Concert.**
9 p.m. **Airstage:** A radio drama written by local playwrights performed by the CITR players.
11 p.m. **Final Vinyl:** A new album feature.

WEDNESDAYS

12:30 p.m. **Mini-Concert.**
6:10 p.m. **CITR's Weekly Editorial**
6:15 p.m.-9:30 p.m. **Chimera:** David McDonagh spotlights local unknowns.
8 p.m. **Mini-Concert.**
11 p.m. **Final Vinyl:** A new album feature.

THURSDAYS

12:30 p.m. **Mini-Concert.**
3 p.m. **Cross-Currents:** A discussion of environmental, consumer, and other issues of public interest.
5 p.m. **Thunderbird Report:** Campus sports, plus thundering Phil Kueber's weekly sports commentary.
6:15 p.m. **Insight.**
8 p.m. **Mini-Concert.**
11 p.m. **Final Vinyl:** An imported album feature.

FRIDAYS

12:30 p.m. **Mini-Concert.**
3 p.m. **Dateline International:** World affairs with a campus perspective.
6:15 p.m. **Campus Capsule:** Harry Herscheg reviews the week's events at UBC.
8 p.m. **Mini-Concert.**
11 p.m. **Final Vinyl:** The neglected album feature.

SATURDAYS

12:30 p.m. **Mini-Concert.**
4:30 p.m. **Stage and Screen:** Film and theatre reviews.
6-9:30 p.m. **The Import Show:** with Terry McBride.
11 p.m. **Final Vinyl:** The classic album feature.

SUNDAYS

8 a.m.-12 p.m. **Music of Our Time:** Unusual, mostly modern, classical music, with John Oliver and Paris Simons.
12-2:30 p.m. **The Folk Show:** with Lawrence Kootnikoff.
2:30-6 p.m. **Rabble Without a Pause:** Steve Hendry gives a lunatic musical view of the world.
3 p.m. **Laughing Matters:** A serious look at the history and content of recorded comedy.
6 p.m. **The Richards Report:** Doug Richards gives a wrap-up of the past week's news.
11 p.m. **Final Vinyl:** A feature of the number one album on CITR's playlist.

UBC Reports is published every second Wednesday by Information Services, UBC, 6328 Memorial Road, Vancouver, B.C. V6T 1W5. Telephone 228-3131. Al Hunter, editor. Lorie Chortyk, calendar editor. Jim Bamham, contributing editor.

