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The president's house . . . to be occupied by Dr. George Pedersen.

Shaw 'delighted' to return to classroom

It's a rare academic who can combine top administrative positions in a university with an on-going research career that has led to awards and international recognition.

One man who has managed this delicate balance is Prof. Michael Shaw, who says he is "delighted" to be returning to the classroom and laboratory on a full-time basis after a 16-year career at UBC, initially as dean of the Faculty of Agricultural Sciences and for the past eight years as UBC's vice-president for academic affairs.

Michael Shaw describes himself as very much a "University Person," by which he means one of those rare individuals who is dedicated to the basic teaching and research functions of a university, but who also believes that active participation in the administrative life of the university is inescapable.

"If you take on administrative responsibilities," he says, "they can't be neglected in favor of research. But I've always said that if I had to make a choice, I'd opt for the classroom and the laboratory. And as an administrator, I've always kept a parachute neatly folded and at the ready to take me back into the academic life of the university."

Besides, he adds with a grin, "I've had the feeling lately that my research may be getting a little rusty."

Those who know Michael Shaw's reputation as a researcher will immediately realize that last statement is a play on words, for it is his work in the field of rust diseases and their interaction with the plants they infect that has gained him an international reputation as a research leader.

The problem of rust diseases is as old as recorded history. They're mentioned in the Bible and in Greek literature and the Romans sacrificed to the god Robigus, to no avail, in an attempt to preserve their cereal crops.

"The Romans got better advice from Cato, the statesman," Prof. Shaw said. "On the basis of practical observation, he told them not to plant wheat on low-lying land where there was mist and fog. Rust spores need certain conditions of temperature and moisture to interact with the host plant."

Michael Shaw

Man's reponse to the rust disease problem has been to develop rust-resistant varieties of wheat, but this, in turn, puts pressure on the rust fungi, which evolves to attack the new strains. Thus, man is only one step ahead of the next widespread rust infestation. And all this avoids such basic questions as the physiological and biochemical bases of the problem, which have been Prof. Shaw's concerns for more than 30 years.

Prof. Shaw's involvement with rust diseases began in 1951, a year after he arrived at the University of Saskatchewan at the age of 26. One day, the then president of the University, W.P. Thompson, appeared in Michael Shaw's doorway ("I thought for a moment he might have come to fire me") and offered him the opportunity to undertake research on the rust diseases which were then ravaging crops on the Canadian and American prairies.

The wheat rust epidemics of 1953 and

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Private funds sought

The University of B.C.'s Board of Governors has established a committee to raise funds in the private sector to renovate the President's Residence on the UBC campus.

Chairing the committee will be Vancouver lawyer David McLean, chairman of the Board's property committee, who said he would inaugurate the fund drive by making a personal gift of $10,000 to the residence fund through a family organization, the McLean McCuaig Foundation.

The renovated house will be occupied by UBC's president-designate, Dr. George Pedersen, and his family when he becomes UBC's chief executive officer on July 1.

Mr. McLean said that the Board of Governors, when it invited Dr. Pedersen to become president of UBC, had asked him to consider living in the house, which was built for UBC presidents in the early 1950s.

"Dr. Pedersen has agreed to live in the renovated house," Mr. McLean said, "on the understanding that the amount of money spent on renovations will be the minimum required to make it habitable and that it will be used as a 'town-gown' centre for ensuring that the University has close contacts and a good relationship with a wide range of individuals and community organizations."

The Board has authorized an appropriation of $200,000 to provide for two projects — the relocation of the offices of the UBC Botanical Garden, which has used the house as its headquarters since 1975, and minimal rehabilitation of the residence to restore it to residential condition from its present institutional use.

The Botanical Garden offices will move to the former Home Management House, a demonstration unit once used by the School of Home Economics. The house is located on Northwest Marine Drive, a stone's throw east of the entrance gate to the President's Residence.

The presidential residence was built in 1950-51 at a cost of $61,219. It was first occupied by UBC's then president, Dr. Norman MacKenzie, until his retirement in 1962. Successive UBC presidents lived in the house until 1969, when Dr. Walter Gage was appointed president. A bachelor, President Gage elected to continue to live in an off-campus apartment.

The Home Management House was built in 1955-56 for the School of Home Economics, which recently moved to a new building on the East Mall of the campus and has no further use for the building.

Mr. McLean said he was confident that the funds required to restore the President's Residence could be raised privately in a relatively short period of time. He said he had been assured by the UBC Alumni Association that it would assist in the fund-raising effort.

He said he intended to recommend to the Board at its next meeting that the

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UBC Child care centres upgraded

UBC's child care centres are being renovated at a cost of $217,000 to meet fire safety regulations.

Additional exit doors and better fire alarm systems are being installed in the nine centres at Acadia Camp, and interior walls are being treated with fire-resistant paint.

The work is being done by Physical Plant and is expected to be completed by the end of March.

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1954 were the most devastating in North America's history. The rusts, a type of fungi spread by the wind, can spread like wildfire through a crop given favorable weather.

The fungi germinate on the surface of the plant and then reinfect it. The spores themselves are reddish-orange in color, hence the name "rust" disease. "You really have to see a large-scale infestation to believe it," Prof. Shaw said. "If you walk through a field of infected plants, you emerge literally covered with reddish spores."

Armed with nearly $30,000 from various federal government departments and granting agents, Prof. Shaw was able to purchase equipment and hire a research associate to aid his research.

"What made the work exciting," Prof. Shaw said, "was the fact that almost everything we undertook to do was brand new . . . we were right on the cutting edge of knowledge about the rust problem."

Over the next decade, Prof. Shaw and his research team contributed much to an understanding of the physiological effects and the biochemistry of rust infections, including the fact that there were striking changes in the nuclei of the cells of the host wheat plant and that the metabolism of the plant was being severely disturbed.

In the early 1960s, Prof. Shaw was invited by the editors of one of the major scientific journals to write a large-scale review of his research. The review, which appeared in 1963 in the first edition of a brand-new journal, the Annual Review of Phytopathology, has become one of the most widely cited publications of the last two decades in its field and is now regarded as a "classic" review by the U.S. Institute of Scientific Information.

"As is the case with most research," Prof. Shaw said, "the more we did, the more we found there was to do. The 1963 review included the suggested lines of work I've been involved with ever since."

One of the problems, now overcome, was that of being able to culture or grow rust in the laboratory. The first scientists to do this, Dr. Philip Williams of Australia and Dr. Franziska Turel of Switzerland, had previously worked in Michael Shaw's laboratory at the University of Saskatchewan.

At UBC, Prof. Shaw and his research team continued work on the nutritional requirements for the growth of wheat and flax rusts and were able to develop very simple media on which the fungi grew and produced spores. In the past year, Dr. Linda Buasson's research with Dr. Shaw has revealed that the initiation of colonies of rust on a culture medium has an absolute requirement for carbon dioxide in concentrations that normally occur in air.

The rapidly developing field of molecular biology is now being used by the research team to elucidate problems of resistance versus susceptibility in the host plant attacked by fungi. "We know a great deal, from work in other fields, about so-called 'recognition' phenomena between cells and we'll be working along these lines in terms of the interaction between the rust fungi and the host plants," Prof. Shaw said.

Over the years, Prof. Shaw's accomplishments as a scientist have brought him widespread recognition. Almost paradoxically, his most significant honors have come at a time when his responsibilities as an administrator were increasing.

In 1972, when he was serving as dean of the Faculty of Agricultural Sciences at UBC, he was awarded the gold medal of the Canadian Society of Plant Physiologists and the following year was only the fifth Canadian scientist to be elected a fellow of the American Phytopathological Society.

In 1975, the year he became UBC's vice-president academic, his alma mater, McGill University, conferred on him the honorary degree of Doctor of Science in recognition of his scientific achievements, and the following year the Royal Society of Canada awarded him its Flavelle Medal for his contribution to biological science.

The society, Canada's most prestigious academic organization, cited him as a "leading world authority on the physiology and biochemistry of plant host-parasite relations who has made major contributions to plant pathology and research."

When he decided recently to return to teaching and research full-time, UBC's president, Dr. Douglas Kenny, with the support of the deans of Agricultural Science and Science, recommended to UBC's Board of Governors that Prof. Shaw be designated a "University Professor," an honor conferred rarely on faculty members who have achieved special distinction. He'll take up his new post on July 1.

As if teaching, research and administration weren't enough, Prof. Shaw has also led an active life within the broader Canadian scientific community.

He is a former president of the Canadian Botanical Association and served for 15 years until 1979 as editor of the Canadian Journal of Botany, again during the period when he was carrying increasingly heavy administrative duties at UBC.

He's also served on a number of federal government committees, as a member of the Science Council of Canada for six years and was a founding member of the Natural Sciences and Engineering Research Council, one of Canada's chief granting agencies supporting university research.

In his spare moments ("There are more of them than you'd think"), he likes to read military history as well as fact and fiction on the subjects of espionage and counter-intelligence. He also likes to read poetry and occasionally he still takes down from his bookshelf a one-volume set of Shakespeare's plays that he won as a prize at school on the West Indian island of Barbados, where he was born and raised.

Prof. Shaw says his one regret is that he stopped studying Latin at the end of the fifth form in school (to this day a conversation with Michael Shaw is often laced with Latin quotations and his learned talks abound in Latin phrases). "One of the things I will undoubtedly do when I have time is to take some Latin courses to recapture what I once knew," he said.

First of all, though, he feels the need to do a little catching up in his scientific work, which is what he means when he says his research has grown a bit "rusty." "I have some things to write up and quite a bit of reading to do," he says, adding, with a note of enthusiasm in his voice, "In a sense, I'm going to get myself educated all over again."

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residence be named Norman MacKenzie House, in honor of its first occupant.

"Everyone I've spoken to about this project has expressed enthusiasm for it and for the fund-raising effort," Mr. McLean said. He added that the fund-raising committee would be made up of former chancellors of the University and former chairmen of the Board of Governors.

Better phone service will cost UBC less

Improved service and lower operating costs.

That is what the University expects from an upgrading of campus telecommunication systems, including telephones.

Consultec Canada Ltd. has been engaged by the Department of Physical Plant to assess the needs of the campus, and to develop a master plan for the improvement, development or replacement of exisiting equipment and facilities.

The University requires that any new system must provide "a significant reduction in recurring charges, installation costs and toll charges" and the capital recovery period must not exceed five years.

Marvin Lang, assistant director of physical plant and co-ordinator of this project, said operating costs for the service provided by B.C. Tel totalled $2.2. million for 1981-82, an increase of $800,000 in just four years.

He said much of the equipment on campus is old, and there is little flexibility. Secretaries and receptionists, he said, have to spend a lot of time taking messages because of outdated equipment. Currently the Centrex System has 4,500 faculty and staff phones.

Mr. Lang outlined several dramatic developments that are available if needed with the new high tech equipment:

- Telephones and other equipment, including internal wiring, could be owned outright by the University, so that monthly rental charges could be reduced;
- Telephones could be programmed to re-direct calls to any given number when a user is away from his office;
- Up to 50 numbers you call regularly could be programmed into your telephone so that punching just one or two digits would ring a seven-digit number automatically;
- Access to long distance lines could be controlled and costs reduced through predetermined route selection;
- Radio systems now used by Physical Plant and Traffic & Security could be patched into the telephone system;
- Pagers, which now are rented, could be purchased and incorporated into the system, using internal lines at no cost and external lines as mobile telephones.

Consultec Canada began the 'needs analysis' at the beginning of February, interviewing eight sample areas considered representative of the operational units on campus. Included are the faculties of Commerce, Education and Law, the Registrar's Office, Department of Finance, Centre for Continiuing Education, Department of Physics and the Computing Centre.

Consultec's final report, including cost estimates, must be submitted to the University by March 31.

"A new system can't be installed overnight," said Mr. Lang, "but I think that within a few years, providing funds are available, the University community and the public will be much better served than they are now."

Further information on this project can be obtained from Mr. Lang at 228-2672.

New director appointed

Prof. Glenn Drover of Carleton University in Ottawa has been named director of UBC's School of Social Work in the Faculty of Arts.

Prof. Drover is a former director of Carleton's social work school (1978-81) who has had wide experience as a practicing social worker, as an advisor to government and as a university teacher, researcher and administrator.

Prof. Drover will succeed Prof. George Hougham, a UBC faculty member since 1967, who is stepping down as director of UBC's School of Social Work on June 30, but will continue as a member of the faculty.

Prof. Drover is a graduate of the University of Toronto, where he received his Bachelor of Arts degree in 1958; Wycliffe College where he took a Bachelor of Theology degree in 1960; Fordham University in New York, where he earned the degree of Master of Social Work in 1965; and the London School of Economics, where he was awarded the degree of Doctor of Philosophy in 1973.

In the 1960s, as a practicing social worker, Prof. Drover worked as a youth program administrator for the YMCA in Toronto, as associate director of the Community Planning Council of Stanford, Connecticut, and as supervisor of the Family Court of Metropolitan Toronto, where he was responsible for probation officers and family counsellors.

As an academic, Prof. Drover has taught at the Maritime School of Social Work (1972-74) and was an associate professor in the social work school at McGill University from 1974 to 1978, when he moved to Carleton as director of its School of Social Work.

In 1981-82, Prof. Drover served as executive co-ordinator for adult policy and program development for the Ontario Ministry of Community and Social Services. In this post he was responsible for initiating and directing policy reviews related to income maintenance, services to families, the elderly and the physically and developmentally handicapped.

After completing this project, Prof. Drover returned to Carleton where he has continued to teach in the social work school.

Prof. Drover is the author and co-author of a wide range of research studies for a variety of government departments and other organizations on such topics as industrial social welfare, housing, taxation and social services.

His current research activities centre on the role of trade unions in the provision of alternative social services, which he is carrying out with a colleague from Dalhousie University in Halifax, and a study of historical statistics on social service expenditures in association with a colleague at Carleton.

Prof. Drover was vice-president of the Canadian Association of Social Workers in 1982 and since 1977 has served as editor of the Canadian Journal of Social Work Education.

Anti-nuclear conference planned

A conference on preventing nuclear war will be held at UBC on Saturday and Sunday, March 5 and 6 in the Woodward Building.

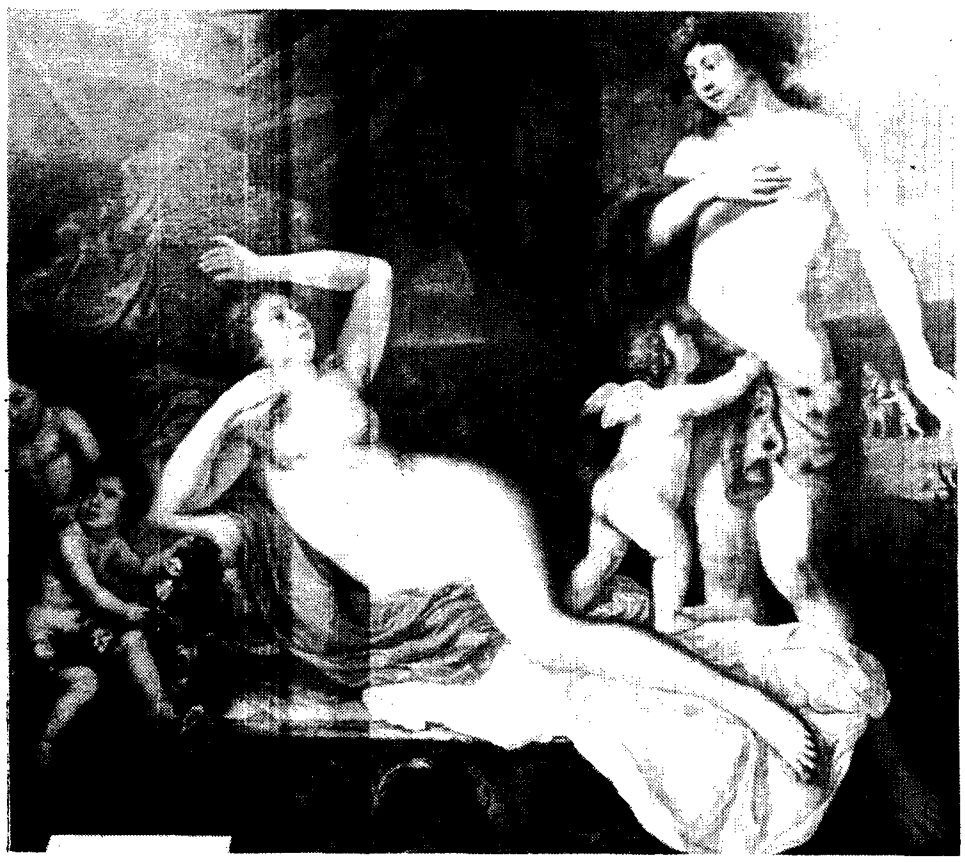
Sponsored by the B.C. Chapter for Physicians for Social Responsibility, the B.C. Chapter of Science for Peace and UBC's Division of Continuing Medical Education, the meeting will bring together physician and non-physician experts on the topic.

Among participants will be Prof. Richard Falk, acting director of the Institute for International Studies, Princeton University; Mr. T.A. Halsted, director, Physicians for Social Responsibility and former Director of Public Affairs, United States Arms Control and Disarmament Agency; and Dr. R.W. Menninger, president of the Menninger Foundation in Topeka, Kansas.

The registration fee is $40 for physicians and $10 for the general public. Anyone interested should contact UBC's Continuing Education in the Health Sciences at 228-2626.

Correction

UBC Reports erred in reporting, in its edition of Feb. 2, 1982, that the Universities Council of B.C. rejected a new Master of Architecture program proposed by the University. The Council approved the proposal for a Master of Architecture program, but was not persuaded that the changes from the Bachelor of Architecture program were so great that the proposal should attract new program funding. It was, therefore, a request for new-program funding that was denied by the Council.



New, but old. Prof. George Knox of Fine Arts describes this unsigned, undated painting as "good, but not by any great name" and he says it is about 300 years old, probably the work of an Italian artist. It was given to UBC by Mrs. Eva Bene of Vancouver in 1946 but needed restorative work and so wasn't hung. Three years ago the painting was sent to the Canadian Conservation Institute in Ottawa, which cleaned it up without charge. It has just been returned and now hangs in the Fine Arts division of the Main Library.

More safety teams set up on campus

More than 3,000 days of work were lost through on-the-job accidents last year at UBC, and the University has stepped up its campaign to promote safety.

Additional safety committees are being established so that all parts of the campus will be represented — either by department, by area or by building.

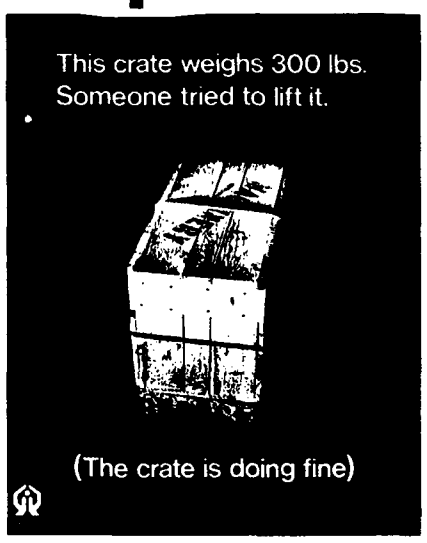
In charge of the restructuring program is Geoff Crampton of Employee Relations, a special advisor to the President's Advisory Committee on Safety. In the context of safety issues, Mr. Crampton says, the University should not be perceived as a single entity, but as 30,000 people performing unique tasks in quite different settings.

Accident figures by employee category bear this out. In the years 1979 through 1982, for example, wage loss claims by vehicle operators ranged from 1 per cent to 2.9 per cent of the UBC total, and claims by faculty members ranged from 1.5 per cent to 3.5 per cent. At the other end of the scale, wage loss claims by janitorial staff accounted for anywhere from 27.8 per cent to 39.3 per cent of the UBC total during the same four years.

Although there were fewer accidents on campus in 1982 than in 1981, wage loss compensation still accounted for more than $267,000. Medical bills topped $70,000 and rehabilitation costs were almost $12,000.

Mr. Crampton said that muscle strain, often caused by the incorrect pulling or lifting of heavy objects, was the largest single type of accident last year, accounting for 71 per cent of the 198 WCB claims made by UBC employees. Another 45 claims were made by employees 'struck by an object.'

Under the safety plan now being implemented, there will be a doubling of the number of department, area or building committees on campus, to more than 50. Each will have the primary responsibility of recommending actions which will improve the accident record.



Mr. Crampton said the specific duties of each committee would include:

- Assessing the effectiveness of safety-related training given to employees;
- Ensuring that safety inspections of premises are conducted regularly;
- Participating in accident investigations and preparing recommendations;
- Holding committee meetings regularly, preferably monthly;
- Establishing safety-related goals and objectives;
- Analysing all injury and accident statistics pertaining to the department, area or building to identify trends and to make appropriate recommendations;
- Providing advice with respect to the planning of new facilities, equipment or work practices.

Safety training seminars are an ongoing part of UBC's safety campaign, and Mr. Crampton said that many instructional services are available through the Workers' Compensation Board.

"Our safety record at UBC is good," said Mr. Crampton, "but this is an area where improvement is always possible."

Ecological reserves need 'selling' says Brummet

The provincial cabinet minister responsible for ecological reserves, Tony Brummet, told the Ecological Reserves Advisory Board and Technical Committee, meeting at UBC, that politicians and various sectors of the public must be sold on the value of reserves.

In an informal address on Jan. 27, Mr. Brummet said proposals for new ecological reserves must compete with other land uses. He said he was confident, however, that where a good case could be made for a reserve it would receive the support of the government.

Thanks to the pioneering work of Dr. Vladimir Krajina, UBC professor emeritus of botany, British Columbia led the way in Canada in establishing an ecological reserves program in the early 1970s. The reserves protect unique, unusual and/or typical examples of the wide diversity of floral, faunal and geological features of the province.

The January meeting also heard and endorsed unanimously two submissions from the forestry sector. In the first, the province's chief forester, Bill Young, proposed that ecological reserves specifically for forestry purposes be considered, once needs and possible sites were determined.

The second, presented by a joint forest industry and conservationist organization (the Forest Land Use Liaison Committee) delivered a concensus statement supporting the reserves program and offering suggestions on policy and administration.

Together, these initiatives constitute one of the most important developments in ecological reserves in recent years, since the forest industry has in the past been a traditional opponent of reserves.

Only two ecological reserves were established in 1982, bringing the total in the province to 111.

Reserve No. 110 is at McQueen Creek near Kamloops and covers only 35 hectares (86.5 acres). It is, however, an example of a well preserved grassland ecosystem and adjacent forest in the wet subzone of the Ponderosa pine and bunchgrass zone.

Reserve No. 111, Robson Bight, is midway between Port McNeill and Sayward off the northeast coast of Vancouver Island and is the only ecological reserve that is entirely water. These 1,248 hectares (3,000 acres) have been set aside to protect the habitat of killer whales, which make extensive use of the area.

Two projects will carry McGavin name

Two major projects — the Allan McGavin Sports Medicine Centre and the Allan McGavin Chair in Geriatric Medicine — have been established in memory of Dr. Allan McGavin, former UBC chancellor who died in December at the age of 71.

The UBC Sports Medicine Clinic now serves some 850 patients a week in cramped and inadequate quarters. In tribute to Dr. McGavin's instrumental role in many B.C. athletic organizations, the Allan McGavin Sports Medicine Centre will provide a suitable setting for a vital and innovative medical service program.

In 1981, Dr. McGavin helped launch a major fund-raising program in support of geriatrics at UBC. The funding drive continues and to date has raised almost $650,000. Contributions to the Allan McGavin Chair in Geriatric Medicine will help the Division of Geriatrics further expand its teaching and research programs.

Contributions to either or both of the projects can be mailed to the UBC Alumni Fund, 6251 Cecil Green Park Road, Vancouver, V6T 1X8.

Dr. McGavin was chancellor of UBC from 1969 to 1972 and also served eight years as a member of the UBC Board of Governors.

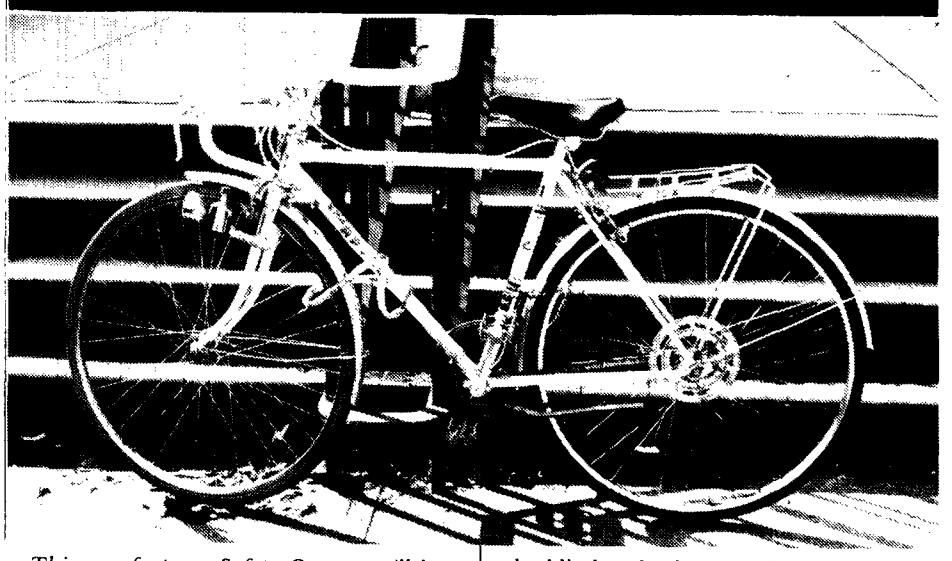
Associate Registrar joins UBC from SFU

Alan Crawford McMillan joins the University of B.C. on April 1 as Associate Registrar.

Mr. McMillan currently is Director of Admissions at Simon Fraser University.

He is a 1968 graduate of the University of Winnipeg.

SAFETY CORNER



This new feature, Safety Corner, will be carried regularly in UBC Reports. *The material is provided by the President's Committee on Safety, Fire Prevention and Security.*

Just before Christmas, new signs appeared around campus prohibiting parking in certain designated areas, but these are 'no parking' signs with a difference.

The signs read **BICYCLE PARKING PROHIBITED** and they have been attached to railings, at steps, patios and walkways. The objective is to improve the safe access to buildings for those of our colleagues who have disabilities which make the use of such railings essential.

Where bicycles have been chained to railings, the navigating of such stairs and walkways has been made very difficult for the blind and otherwise disabled. Collisions have resulted which have caused stress and injury. Further, in the event of an emergency, such bicycles present a real safety hazard.

You can help make the campus a safer place to walk by parking your bicycle in the racks provided. New racks have been added to the Buchanan complex.

Bicycles are a desirable form of transport and are a quiet, clean and convenient way of getting around campus. We hope to encourage their use, but they should be used safely and with consideration for others. Not only should access to buildings be kept clear, but hallways and stairways inside the buildings should also be maintained free of bicycles.

With your help, we can make it easier and safer for the other person.

Adaptability key to management success, says Commerce dean

The key to effective management lies in the ability to adapt in a society that is changing rapidly, says Dean Peter Lusztig of UBC's Faculty of Commerce and Business Administration.

"The role of the commerce faculty has changed in the past ten years," he says. "It's no longer enough to turn out graduates who can deal with standard problems in management. Society is changing, and will continue to do so, and it is essential that we produce bright young people who possess the high level of sophistication and adaptability needed in management fields today."

The commerce faculty offers a four-year undergraduate program which is open to students who have completed first-year Arts or Science. Students can specialize in the areas of accounting and management information systems, marketing, industrial administration, economics, finance, transportation and utilities, urban land economics, computer science, industrial relations management, or work towards a combined degree in commerce and law.

The faculty also offers a two-year Licentiate in Accounting program for university graduates, two degree programs at the master's level (the Master of Business Administration and Master of Science in Business Administration degrees) and a doctoral program.

"In addition to the students enrolled in our faculty, we perform a very substantial service function for other faculties," says Dean Lusztig.

There are 1,700 students enrolled in the undergraduate program this year, and Dean Lusztig says that more than 1,300 students applied for the 375 openings in the faculty last fall. The commerce faculty has had enrolment controls in place for the past five years.

"One of my goals when I became dean of this faculty was to improve the learning experience of our undergraduates by ensuring that the quality of their education wouldn't be jeopardized by overcrowding," says Dean Lusztig. "The result is that we have a group of highly motivated and intelligent students.

"It is impossible to run a decent undergraduate program when students in third and fourth year have classes of 45 or 50 people. I still think our enrolment is high considering our resources and facilities, but we have a responsibility to be accessible as a provincial institution, and we can't limit our undergraduate enrolment any further."

Dean Lusztig says that his faculty plays an important role in the area of graduate studies at the University.

"We have 450 students enrolled in master's programs and 35 doctoral students, which works out to be about 14 per cent of the total UBC graduate population," he says. "This means a lot of added responsibility for Commerce faculty members."

In addition to the credit courses offered, the Faculty of Commerce provides instruction for a large number of off-campus organizations.

"We have between ten and 12 thousand participants a year in what we call our professional programs," says Dean Lusztig. "These include programs associated with various organizations which require four or five years of study for a professional designation. It is our responsibility to teach these courses."

The faculty offers diploma courses for the Certified General Accountants Association, the Institute of Canadian Bankers, the Society of Management Accountants and the Real Estate Institute of B.C. as well as diplomas in the areas of sales and junior management.

"We also offer our executive programs, which are one- and two-day courses or seminars that focus on a specific topic," says Dean Lusztig.

Peter Lusztig

The faculty is currently assisting the Institute of Chartered Accountants with their summer program and offers two six-week courses each year at the Banff School of Advanced Management, which was founded by UBC and the University of Alberta but is now jointly sponsored by five western universities.

"I think people who criticize the University for not meeting the needs of the public should take a closer look at the continuing education programs offered all over this campus," says Dean Lusztig.

The dean says that one of the misconceptions concerning his faculty is that it is geared entirely towards the private sector.

"Although many of our students — between 60 and 70 per cent — go to industry, we also train managers for non-profit organizations, unions and government.

"This is reflected in the membership of my advisory council. In addition to representatives from the private sector, we have people like Jack Munro of the IWA, Ed Lawson of the Teamsters' Union and deputy ministers from Ottawa."

Another "misunderstanding" about the faculty, says Dean Lusztig, is that it is solely a business school and therefore doesn't provide a general university education.

"Providing a general education is a very important aspect of our faculty," he says. "I don't think students can properly understand or utilize the kinds of things taught in a business school unless they start with a good foundation.

"Students don't start specializing until the second year of the Commerce program, and even within specialized areas students are required to take a wide range of courses.

"All of our students must take economics, mathematics and statistics and most of them must take psychology, political science and computer science in addition to their own elective choices.

"Although we are a professional faculty, we place as much emphasis on research activities and general education as other faculties on campus."

A concept which was initiated in the Faculty of Commerce and has been very successful is their "faculty caucus." The caucus, which meets two or three times a term, is open to all faculty members and to elected alumni and students.

"Issues are debated and academic and other decisions are reached at the caucus meetings," says Dean Lusztig. "Students have been encouraged to contribute their ideas and have been very helpful to the faculty."

One of the directions that the commerce faculty is pursuing is involvement with business managers and scholars from Pacific Rim countries.

"We felt that being on the Pacific Rim, it was important for our students and faculty to have some understanding of business practices in Asia," says Dean Lusztig. "The country that we were the most interested in was China.

"A few years ago we invited some senior scholars from the Peoples' Republic of China to the UBC campus. Funding for this was provided by the Department of Industry, Trade and Commerce in Ottawa, which had been funding our efforts in international business more generally.

"The Chinese scholars came to UBC and spoke with students and faculty in seminars and gave lectures to people in the business community."

The commerce faculty was then contacted by the Canadian International Development Agency which had decided to initiate some formal links with key universities in China. UBC was chosen as one of the Canadian universities to participate in the management education program.

"Chinese and Canadian universities are 'matched up' and exchange programs and activities of that nature are carried out," says Dean Lusztig. "I think both countries can benefit enormously from the program."

Dean Lusztig stresses that the Faculty of Commerce is very much a research-oriented business school.

"Our scholars teach a lot of applied subject matter, which is characteristic of a business school, but they are also leading researchers in their academic fields.

"However, we value the kind of creative contributions that can be made only by an academic. I don't see our role as competing with professionals downtown. There's a difference in the focus of work done by a good consultant downtown and an applied academic researcher."

He adds that UBC's commerce faculty is known as the foremost research-oriented business school in Canada. "An indication of this is the fact that we have more incoming Ph.D. students than all the other English-speaking Canadian universities put together."

Dean Lusztig believes that faculties at UBC should be less hesitant about making their expertise known.

"There seems to be this Canadian trait — call it modesty, call it what you will — that leads us to assume that experts are to be found outside our borders. Nowhere is this view more prominent than in universities.

"I think this is unfortunate, because UBC is a very distinguished university in many areas, one of them being its business school. We have some incredible resources in the commerce faculty in terms of people, and I think we truly excel in at least four or five areas within the school.

"The people of B.C. have created a first-class university, but I don't think the resources at UBC are fully recognized or utilized. There's a price to be paid for not utilizing all the resources available in our province."

Dean Lusztig says that in the upcoming years the curriculum of his faculty will have to be responsive to shifts that are occurring in society.

"I would like to see more emphasis placed on the role of Canadian manufacturing and productivity, computers as information systems and areas such as industrial relations and labor-management relations.

"In the next two decades, I would like to see UBC produce graduates who can compete with the managers of nations such as Japan, Germany and Switzerland."

No one can accuse the Faculty of Commerce of not working hard enough towards this goal. As Dean Lusztig points out:

"The Henry Angus Building is humming day and night, over 11 months of the year."

NEW AWARDS

B.C. Pharmaceutical Benevolent Society Bursaries — Two or more bursaries to a total of $1,000 have been made available by the B.C. Benevolent Society. The awards will be available to deserving students in the final year of the Faculty of Pharmaceutical Sciences who are registered as students with the College of Pharmacists of B.C. (Available in the 1983/84 winter session.)

Clark, Wilson Service Scholarship — A scholarship donated by Clark, Wilson is available to students proceeding from second to third year in the Faculty of Law. The award will consist of summer employment with the firm between second and third years and payment of the recipient's tuition fees for the third year of Law studies. The award will be made on the recommendations of the faculty. (Available in the 1983/84 winter session.)

Health Sciences Research Day Awards — A number of awards consisting of a plaque and a $200 prize will be presented to students participating in the Health Sciences Research Day. Award winners will be selected by a panel of judges, placing equal weight on 3 criteria: (a) the scientific content and importance of the presentation, (b) the quality of the presentation, and (c) the ability of the presenter to respond to questions from the audience and judges. Awards will be made to students in the following categories: (a) undergraduate students in the Health Sciences, (b) graduate students in the Health Sciences, (c) residents and research fellows in Clinical Science, (d) students in health-related Social and Behavioral Sciences. The awards will be made on the recommendation of the Faculty of Medicine. Applications should be made by submitting the appropriate form to the Associate Dean for Research and Graduate Studies, Faculty of Medicine, by 5 p.m. on the Friday following Labour Day. (Available in the 1982/83 winter session.)

Dr. John S. Monteith Prize in Family Medicine — An annual prize of approximately $250, made available by the Seymour Medical Clinic in memory of Dr. John S. Monteith, will be awarded to a first-year medical student for an essay emphasizing the role of the family physician in the provision of health care. Philosophical thought, factual content and literary style will be considered. The award will be made in consultation with the head of the Department of Family Practice. (Available in the 1983/84 winter session.)

Mary Ellen Narod Memorial Scholarship — A scholarship in the amount of approximately $1,000 has been made available in memory of Mary Ellen Narod (B.Sc. 1969) by her parents and friends. The award will be made to a student entering fourth-year Science in an honors program in Biological Sciences. The award will be made on the recommendation of the faculty. (Available in the 1983/84 winter session.)

Gerald N. Savory Memorial Prize — A prize in the amount of approximately $200 has been made available in memory of Gerald N. Savory, by his friends and colleagues. Gerry Savory was director of Public Affairs Programs in the UBC Centre for Continuing Education for 18 years until his untimely death in 1982. Since his pre-UBC days as a history and social studies teacher he was very active in the United Nations Association in Canada, serving in many capacities. He was a member of the National Executive Council; executive member and president of the Vancouver Branch; chairman of the education committee of the Vancouver Branch, and chairman of the National Development Education Advisory Committee at the national level. The prize will be given for the best essay on the United Nations and its role in international development. Students intending to compete for the award should submit their essays to the International Relations Program Committee. The name of the committee's chairman can be secured from the office of the Dean of Arts. (Available in the 1982/83 winter session.)

Kapoor Singh Siddoo Scholarship in Forest Ecology — Through the generosity of Kapoor Singh Siddoo a scholarship of $1,000 will be offered annually to a student in Forest Ecology. This award will be made to a student deserving of assistance and with first-class standing. (Available in the 1983/84 Winter Session.)

Kapoor Singh Siddoo Scholarship in Medicine — Through the generosity of Kapoor Singh Siddoo a scholarship of $1,000 per annum will be offered to a student of Medicine. This award will be made to a student deserving of assistance and with first-class standing. (Available in the 1983/84 winter session.)

Loss of hearing makes learning difficult

Prof. Charles Laszlo, head of UBC's clinical engineering program, would like to see more recognition given to a group at UBC who function effectively in spite of what he terms "an invisible disability."

He is referring to the students, staff and faculty who suffer from varying degrees of hearing loss. His interest in the area stems from the fact that he has a hearing impairment himself, and he feels that many of the barriers facing the hard of hearing could be removed if there was an increased awareness of their needs on campus.

"People with a hearing impairment face a passively hostile environment," he says. "Ordinary communication — the essence of human interaction — is very difficult for them. The problems in communication can be overcome, however, and once this is achieved hard-of-hearing individuals can work to the full extent of their ability."

Prof. Laszlo says that between eight and 12 per cent of the general population has some degree of hearing impairment. "When you apply that to UBC's population of 25,000 people, the number is significant. Even if only one per cent of the University community had a hearing problem, that would be 250 people. I think this is a large enough group to warrant consideration."

Leslee Bruce, a sociology graduate who is now in the final year of Social Work at UBC, is working with Prof. Laszlo to increase awareness about the needs of the hearing impaired on campus. Ms. Bruce was born with a hearing disability.

"The first step that hard-of-hearing people must take is to admit that they have a problem," she says. "There is so much emphasis in our society on being 'normal' that we sometimes feel that our hearing disability is something to be ashamed of, something to be hidden. We have to get over that psychological barrier. The hardest part is to approach another person, whether it is a professor or a fellow student and say 'Excuse me, but I have a problem.'

"It can be embarrassing, but if you can accept your condition and realize that it is a fact of life and not something to be ashamed of, the situation becomes a lot more tolerable."

Ms. Bruce says people sometimes get the wrong impression about hard-of-hearing individuals if they aren't aware of their condition. "If you can't hear someone, your reactions aren't going to be as quick as people expect, and they think that you're ignoring them or you aren't very bright.

"But you have to learn to laugh at mistakes and try not to repeat them."

Prof. Laszlo and Ms. Bruce outlined some of the major problems for hearing-impaired students and made suggestions on how things could be improved.

1. Identification. Hearing-impaired students should identify themselves to their professors and explain their situation. Professors should make an effort to find out in the first week of classes if there are any students with special needs.

2. Noise in classrooms. Noise levels in classrooms make it almost impossible for hard-of-hearing students to follow a lecture, particularly in large halls where voices become distorted. Front-row seats could be designated for students who depend on lip reading during the lecture.

3. Lip reading. Professors should take care, if there is a hearing-impaired student in the class, not to turn and face the blackboard while speaking or make gestures, such as the movement of hands near their mouths, which would make lip reading difficult. When questions are asked by students, professors should repeat the question so that hearing-impaired students can follow what is being discussed.

Another problem for students who lip read is lighting. For example, if a professor is showing slides and speaking from the back of the classroom, hard-of-hearing students miss everything that is being said. The ideal situation in this case would be to have someone operating the projector at

Leslee Bruce and Charles Laszlo

the back of the room, with the professor speaking from a lighted area at the front.

4. Hearing-impaired students should bring carbon paper to class and ask a fellow student to take notes. This allows the student to concentrate on lip reading.

"It takes a lot of concentration to follow a lecture when you have a hearing loss," says Prof. Laszlo. "In normal conversations it's a little easier because it is more predictable. If, for instance, someone was talking about the weather, I could follow the conversation even if I missed three-quarters of it because I can guess what is being said.

"But in a lecture situation, a lot of new information is being presented and it is not as easy to fill in the gaps."

Prof. Laszlo says most people aren't aware of the exceptional effort made by hard-of-hearing students in order to be successful. Ms. Bruce admits that it is "very tiring" to focus on lip reading in lectures five days a week. "The last thing you feel like doing is studying when you get home," she says.

But she adds that most people she has approached at UBC have been very helpful. "I think in a lot of cases, if people don't seem to be helpful, it's because they're not sure how to handle the situation."

Prof. Laszlo and Ms. Bruce are in the process of setting up a support network for hard-of-hearing individuals on campus.

"We'd like to hear from staff members, students and faculty to find out what they are doing, what difficulties they have encountered, how they handle certain situations," says Prof. Laszlo. "I think the onus is on us to formulate desirable changes and present them through the appropriate channels in the University to see what can be done."

Prof. Laszlo says he hopes the network will lead to the sharing of ideas, the solving of common and individual problems and a new level of support among hard-of-hearing people at UBC. "We'll have to wait and see what the response is. But I'm hopeful that we can identify approximately how many hearing-impaired individuals are on campus, and present our concerns as a group to the University."

Prof. Laszlo says he would like to see UBC set an example to others on how the problems of the hearing impaired can be solved.

"I think a university has an obligation to society to show leadership. I would like to see UBC build a reputation as a place where hard-of-hearing people can come and not have to face the usual barriers."

He adds that he is interested in hearing from hard-of-hearing people for professional reasons as well. "The clinical engineering program at UBC focuses some of its research on developing devices for the hearing impaired. As head of the program I would like to identify specific needs so that we can work toward meeting those needs."

According to Prof. Laszlo, several devices have already been developed that would be extremely useful for hard-of-hearing students at UBC. "There are communication systems that provide a clear, direct one-way link from a speaker to a hearing-impaired individual. I would like to see devices like these made available, perhaps on a rental basis. in the future.

"I would also like hearing-impaired members of the University community to have some input into the design of buildings. Consideration is given to mobility and visually impaired students, and I would like to have input about noise control in new buildings."

The benefits of environmental noise control are far-reaching, says Prof. Laszlo. "The number of people in the general population with hearing disabilities is increasing because of the higher noise levels in our environment. Even if you take into account the fact that there are more elderly people in our population, there has been a general deterioration of hearing ability. So the benefits of noise control go beyond hearing-impaired individuals at UBC."

If you'd like more information about the network for the hearing impaired at UBC, you can contact Prof. Laszlo at 228-6213 or drop by Room 403 of the Woodward Instructional Resources Centre. You can contact Leslee Bruce through the Western Institute for the Deaf, 2125 W. 7th Avenue (736-7391).

Resident inventor does it again

A few months ago, *UBC Reports* ran a story about a device invented by a UBC physics doctoral student, Andre Van Schyndel, which made possible the indexing of page numbers and other pieces of information in the fast-forward and rewind modes on talking books for the visually impaired. The voice indexer, which has many implications for the advancement of talking books, was cited as a "major breakthrough" for users of recorded material.

And with his inventor's spirit in high gear, Van Schyndell has recently presented what looks to be another major research breakthrough — this time for people with a hearing disability. The discovery is the result of a project started about two years ago.

Van Schyndel, in collaboration with Dr. Nathan Weiss of UBC's physics department and Prof. Andre-Pierre Benguerel of the School of Audiology and Speech Sciences, has invented a device that compresses sound frequencies into a range low enough to be heard by people with varying degrees of hearing impairment.

"Most hearing-impaired individuals, even those with severe disabilities, can hear frequencies below 1.5 kilohertz," explains Van Schyndel. "But the frequencies of speech and other important sounds used in communication are much higher than that.

"What the device does is compress the high frequencies of human speech into sounds low enough to be heard by people with hearing problems."

He emphasizes that although the prototype seems to be very successful, the invention is still in the testing stages. "We've applied to the Science Council of B.C. for a grant to undertake clinical tests and produce more devices," says Van Schyndel.

The instrument is designed for individuals who suffer from nerve damage rather than damage to the bones in the middle ear.

"People who have a hearing impairment because of bone damage in the ear can usually be helped through surgery or the use of hearing aids which amplify sound," says Van Schyndel. "But those with damage to the nerves linking the inner ear and the brain are not helped by hearing aids.

"Even if a hearing aid could amplify sounds enough for a person with nerve damage to hear, the decibel level would be physically painful for the person," adds Van Schyndel.

The small, box-shaped device may also have implications for teaching deaf-mutes to speak. "Having the auditory feedback of hearing your own voice is often a key factor in learning to speak," says Van Schyndel.

"I don't want to raise all sorts of expectations when the device is only in the early testing stages, but things look promising."

In addition to his interests in physics, Van Schyndel also enjoys music and is a tenor with the Vancouver Cantata Singers. In a recent interview with a *Vancouver Sun* reporter he commented:

"I've had a long-standing interest in the physics of music and singing, and I'm always looking for ways modern technology can help people."

At the age of 27, he's not off to a bad start.

Percy Gladstone mourned

Percy Gladstone, a Skidegate Haida who was one of the first Indians to obtain a degree from UBC, died in December after a lengthy battle against cancer. He was 71.

Mr. Gladstone first enrolled at UBC in 1930, but left to attend the old Normal School and get a teaching certificate. He returned to the University in 1947 after serving as a navigator with the Royal Canadian Air Force during the Second World War and was awarded his B.A. in 1949.

A car accident left him partly paralyzed and he could walk only with great difficulty, but he was determined to further his education. In 1959, he successfully completed an M.A. thesis in economics and industrial relations, under a committee chaired by Stuart Jamieson, now professor emeritus, Economics.

He collaborated with Prof. Jamieson on an article dealing with unionisation in the fishing industry and he wrote another on Indians in the industry. Both were published in the *Canadian Journal of Economics and Political Science.*

"His work showed the serious scholarship one would expect from a grave, courteous, serious man," said Prof. Anthony Scott.

After obtaining his M.A., Mr. Gladstone worked as a probation officer and counsellor at the correctional institute in Haney. He later served as research director for the Union of B.C. Indian Chiefs before returning to the Queen Charlotte Islands where he was given many responsibilities by his people.

At his funeral, Chief Skidegate, Dempsey Collinson, said in part:

"He went out into the world in a way no one else had done before him. I don't know, and I doubt if anyone really knows, why he chose the path he did, what forces were at work within him to chart a course never before taken.

"He did things for himself and for others that were brand new to our experience. He educated himself with a master's degree at a time when none of us even thought of university.

"He took on jobs and tasks of every kind and sort. He worked with many different kinds of organizations and people. He always directed his extraordinary talents toward the betterment of his people..."

A DAY IN A LIFE AT UBC

Rhodes Scholar carries heavy workload

Peter Goddard, a fourth-year honors History student at UBC and the 1983 winner of the B.C. Rhodes Scholarship, is the second UBC personality to be featured in a new *UBC Reports* series called "A Day in a Life at UBC." The series began in January with a day in the life of Prof. Larry Weiler, head of the Department of Chemistry.

If you know of someone on campus you think is a candidate for the series, drop a note to the editor into campus mail.

My "typical day" on campus has changed a lot in the past few months. I've gone from being very involved in student politics and other UBC organizations to leading a monk-like existence in the Library trying to finish my graduating thesis on time.

I'm taking 18 units of study this year, which includes credit for my thesis, honors tutorials twice a week and French at noon-hour, four days-a-week. Most of my time is spent either reading in preparation for the tutorials which are on the history of the social sciences and English social history, or working on my thesis.

My thesis focuses on 16th century society in France. I'm looking at the figure of the magistrate as seen by a group of political thinkers known as the legal humanists. The legal humanists were a rising social "class," largely made up of jurists and legal officers to the king in the 16th century, who played up Renaissance ideals to the hilt at a time when this was difficult to do. They pursued civilized, politically-tolerant ideals in a society that was being torn apart by a bloody, religious civil war. I'm trying to get behind what has been written about the politics of the day and focus on what was happening in terms of social thought.

Since most of my time is spent on my thesis right now, a "day in my life" isn't exactly what I would call fascinating reading material.

I get to the campus early on the two mornings I have tutorials, but on the other mornings I ease myself into the day a little more gently. Since I live just off-campus in a house with some other students, I usually ride my bike to school unless the weather's really bad.

Most of the time is divided between the stacks in Main Library and the history reading room on the 11th floor of the Buchanan Tower. The history reading room is one of my favorite spots on campus — where else could you get a million-dollar view like that when you're studying?

I spend a lot of time reading and I try to be disciplined about my work, but I have been known to finish off an essay or two at 5 a.m. on the morning it was due. It takes me a while to get going in the evenings and I usually do most of my studying late at night.

Peter Goddard

When I'm not studying I like to go for walks around campus. I really enjoy being outdoors, but I don't get the opportunity to get out skiing and hiking as much as I'd like during the school year. In order to stay healthy and sane I think you have to balance your academic life with other activities, but I usually have to stave off the desire to muck around in the bush until the summer or during holidays.

I've worked for B.C. Parks for the past few summers as a park naturalist in some of the big wilderness spots in the province. This summer I'll be "moving up in the world" and will be working in the Rocky Mountains for Parks Canada.

In the past two years I would usually spend two or three nights a week on campus at meetings for various student organizations. I've served as the Arts representative on the students' council and have been involved on a number of council committees and students court, and have been involved in the arts undergraduate society, the public interest research group and the history students' association, among other campus groups.

One of the things that concerns me about students at UBC is their lack of commitment to the University outside of classroom hours. There is a large 'commuter' population at UBC who just show up for class, spend a little time in the Library and are gone. I think this makes for a faceless, impersonal environment, which UBC tends to have because of its size anyway.

I think that if you only have a few years to spend in a university setting you should make the most of it. Even in terms of studying, a lot of people just jot down notes and forget about them until the night before an exam. I call it the "underline-now, learn-later" attitude towards education. If you're willing to put some effort into your education, I think your experience at UBC becomes richer.

When I'm on campus I usually eat at the Bus Stop coffee shop by the Bookstore. It has a certain charm about it that I'm going to miss when I leave UBC. I really liked the old decor in the Student Union Building — with all the dark corners where students could gather to conspire. I'm not as taken with the "MacDonalds"-ish atmosphere it has now.

When the weather is nice I try to work out at the circuit on McInnes Field and in the past I've used the Aquatic Centre quite a bit. I used to spend a fair amount of time in the PIT back in my wild second year, but I think I've outgrown that.

Another activity that I try and make time for is music. I prefer to play acoustic music, but some friends and I formed a rock group after school got out last year called "Beelzebub and the Fallen Angels". The name's a joke, taken from Milton's *Paradise Lost*. We "unplugged" when school started this fall — you can't be a serious student and get too involved in this sort of thing at the same time — but during the Christmas holidays we decided we needed a little comic relief so we revived the band. Actually, due to the entrepreneur spirit of the band's fearless leader, we had club dates set before we even reassembled the band. We practised for seven hours-a-day for a week and transformed ourselves into professional musicians. I play rhythm guitar.

We play a lot of fun stuff — rhythm and blues, tunes from the 50s and 60s and some original compositions that are mainly parodies. We're not making any great contributions to the music world by any means, but I think we're entertaining. We've played the Soft Rock Cafe a few times, and played in the PIT one night.

I'll be putting aside my guitar after this summer though when I head for Oxford University. I'll hop a few centuries ahead in the type of work I've been focusing on at UBC and read for my Master of Philosphy degree in modern history.

I've been accepted at St. John's College, to which I applied because I wanted to work near Keith Thomas, a social historian I really admire. I'm not sure whether these "giants of history" have time for mere graduate students — colonial ones at that — but I hope to do some tutorial work with him.

After I complete my two years at Oxford I plan to poke my head up for a while and do some travelling around England and Europe. I thought that since I've been focusing on French society I should do some personal research there, perhaps in a few of the local wine cellars. I'm also planning a side trip to Kenya to climb Mt. Kilimanjaro.

Overall, I'm happy with what I've done at UBC. I think the quality of teaching has been very good and I hope that I've made some worthwhile contributions in my involvement with student affairs.

If I can just get my thesis finished on time I'll be doing OK.

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).

April (application deadlines in brackets)

- Alberta Heritage Fdn. for Medical Research — Medical Research Fellowship (1)
- Assoc. of Commonwealth Univers. — Administrative Travelling Fellowship (11)
- Canada Council: Writing/Public. — Translation Grant (15)
- Canada Mortgage & Housing Corp. — Research Grants Type A (to $3500) (30)
- Canadian Diabetes Association — Research Fellowship (15)
- Canadian Electrical Association — Research Contract (30)
- Hannah Institute — Publications Assistance (1)
- Health & Welfare Canada: Welfare — National Welfare Grant (15); National Welfare: Manpower Utilization Grant (15); National Welfare: Research Group Development (15)
- IMASCO-CDC Research Foundation — Research (1)
- MacMillan, H.R. Estate — Native People & Northern Canada Trust (1)
- MRC: Awards Program — MRC Fellowship (1)
- MRC: Grants Program — Travel (15)
- MRC: Special Programs — INSRM/MRC Exchange (1); Symposia & Workshops (1)
- National Institute on Mental Retardation — Research (30)
- Secretary of State — Canadian Ethnic Studies Program: Professorships (15); Canadian Ethnic Studies: Research (15)
- Universite du Quebec — INRS Post Doctoral Fellowships (15)
- University of British Columbia — UBC-SSHRC Travel Grant (11)
- University of British Columbia — UBC/NSERC Equipment Grant (15)

Open Grants

- AUCC Intl. Development Office — Institutional Cooperation Development Linkages
- B.C. Cancer Foundation — Pilot Projects in Cancer Research
- B.C. Health Care Research Fdn. — Emergency Fund
- British Council — Academic Links and Interchange Scheme
- Canadian Fedn. for the Humanities — Aid to Scholarly Publications Program
- Canadian Cancer Society — CCS Travelling Fellowships — Blair Awards
- Canadian Certified General Accountants — Research Contract
- Canadian Cystic Fibrosis Fdn. — Visiting Scientist Award
- Canadian Diabetes Assoc. (B.C.) — B.C. Research Fund
- Canadian Intl. Develop. Agency (CIDA) — Institutional Development Linkages
- Centre for Field Research — Field Research Projects
- Commonwealth Foundation — Commonwealth Foundations Lectureships; Travel Grant
- Crown Zellerbach Canada Fdn. — Foundation Grants
- Educational Research Inst. of B.C. (ERIBC) — ERIBC Discretionary Grant
- Employment & Immigration Canada (NTEP) — New Technology Employment Program
- Fitness and Amateur Sport — Sport Canada Grants; Res./Testing
- Ford Foundation — Research
- Hannah Institute — Hannah Lectures
- Health & Welfare Can: NHRDP Proj. — NHRDP Conferences, Symposia, Workshops; NHRDP Formulation of Proposals
- Health & Welfare Canada: Welfare — National Welfare: Supplementary Publications; National Welfare: Visiting Professorship
- Heritage Canada Document Centre — Access to DATA files
- Industry Trade and Commerce — Univ. Course Development Grant
- Intern. Atlantic Salmon Fdn. — Project Grant
- International Development Research Centre — Cooperative Research
- International Union Against Cancer — Research Technology Transfer Project
- Kroc Foundation — Medical Research
- Macy, Josiah Foundation — Faculty Scholar Sabbatical Awards, Conferences
- March of Dimes Birth Defects Fdn. — Basil O'Connor Starter Research Grants
- Matsumae International Fdn. — Matsumae Fellowship
- MRC: Awards Program — PD Fellowship, Fac Fellowship
- National Cancer Institute of Canada — Sabbatical Leave; Support for Scientific Meetings
- National Defence Canada — Arctic Research Support Program
- National Geographic Society — Research
- National Institute of Mental Health (U.S.) — Small Grant Program
- National Research Council — Contaminants and Pollutants Research
- North Atlantic Treaty Organization — Advanced Study Institutes (ASI); Double-jump Program
- NSERC: Fellowships Division — Industrial Research Fellowships; Senior Industrial Fellowships
- NSERC: Individual Grants — Collaborative Special Projects; New Research Ideas Grant
- NSERC: Intl. Relations Division — NSERC-Royal Society Exchange
- NSERC: PRAI — Project Research Applicable in Industry
- Provincial Sec. & Govt. Services — Lottery Fund-Grants
- Queen's University — Mineral Resource Policy Research
- Research Corporation (U.S.) — Cottrell Research Grants
- Science Council of B.C. — Industrial Post Doctoral Fellowships
- Secretary of State — Canadian Studies Program; Native Women's & Native Citizens Programs
- Solicitor General Canada — Research Contract
- SSHRC: Intl. Relations Division — Travel Grants for International Representation
- SSHRC: Strategic Grants Division — Library: Fleeting Opportunities Program
- Technicon Instruments Corp. — Research
- United States Air Force — Research Grants and Contracts
- University of British Columbia — UBC Research Grant (HSS) (25)

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

UBC CALENDAR

Calendar Deadlines

For events in the weeks of March 6 and March 13, material must be submitted not later than 4 p.m. on Thursday, Feb. 24. Send notices to Information Services, 6328 Memorial Rd. (Old Administration Building). For further information, call 228-3131.

The Vancouver Institute.

Saturday, Feb. 19
Genetic Engineering: How It Can Affect You. Prof. Robert Miller, Head of Microbiology, UBC.

Saturday, Feb. 26
Military Strategy, Political Tactics and Survival. Prof. J. David Singer, Political Science, University of Michigan.

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

MONDAY, FEB. 21

Cancer Research Seminar.
Ornithine Decarboxylase in Hormone Stimulated Tissue. Dr. James Richards, Biochemistry, UBC. Lecture Theatre, B.C. Cancer Research Centre, 601 W. 10th Ave. 12 noon.

English/Women's Studies Reading.
Sharon Pollock, Canadian playwright, will read a selection of her works. Room A203, Buchanan Building. 12:30 p.m.

Oral Biology Seminar.
Tolerance and Non-Specific B-cell Activation. Dr. Sharyn M. Walker, Scripps Clinic and Research Foundation, La Jolla, California. Room 388, Macdonald Building. 12:30 p.m.

Linguistics Lecture.
Don't Believe Everything You Hear, or, Some Faulty Assumptions Concerning Syllable Structure and Counter Examples: A Linguistic Morality Play. Prof. Jonathan Kaye, Linguistics, Universite de Quebec, Montreal. Room 117, East Mall Annex. 12:30 p.m.

Out-to-Lunch Phycologists.
Taxonomic Problems with *Colpomenia*, or Correlation of Algal Population Dynamics With Environmental Factors. Herb Vandermeulen, Botany, UBC. Room 3000, Biological Sciences Building. 12:30 p.m.

History Lecture.
Comparing the Incomparable: Politics and Ideas in the United States and the Soviet Union. Prof. Robert Kelley, History, University of California, Santa Barbara. Sponsored by the Faculty of Arts' Distinguished Visitors Program. Room A104, Buchanan Building. 12:30 p.m.

Sociology Lecture.
Culture as Gesture: Ethnographic Impressions of Latin America. Prof. Cesar Grana, Sociology, University of California, San Diego. Sponsored by the Departments of Anthropology and Sociology, Hispanic and Italian Studies and the Museum of Anthropology. Penthouse, Buchanan Building. 12:30 p.m.

History Seminar.
Cultural Politics in the United States. Prof. Robert Kelley, History, University of California, Santa Barbara. Sponsored by the Faculty of Arts' Distinguished Visitors Program. Penthouse, Buchanan Building. 3:30 p.m.

Management Science Seminar.
Prof. M. Rosenblat, Beer-Sheva University. Room 212, Angus Building. 3:30 p.m.

Mechanical Engineering Seminar.
Air-Fuel Ratio Control for Gaseous Fuelled Engines. E. Troesch. Room 1204, Civil and Mechanical Engineering Building. 3:30 p.m.

Applied Mathematics Seminar.
Dr. Charles G. Lange, Mathematics, University of California, Los Angeles. Room 229, Mathematics Building. 3:45 p.m.

Biochemical Colloquium.
Molecular Analysis of Human Genetic Disorders. Dr. Savio Woo, Baylor College of Medicine. Lecture Hall 4, Woodward Instructional Resources Centre. 4 p.m.

Zoology "Physiology Group" Seminar.
Biochemical and Physiological Adaptations of Functionally Overloaded Rodent Skeletal Muscle. Dr. Kenneth Baldwin, Physiology, University of California, Irvine. Room 2449, Biological Sciences Building. 4:30 p.m.

Sigma Xi, UBC Club Meeting.
What's the Matter with Astrology? Prof. Michael Ovenden, Astronomy, UBC. Vancouver Planetarium. 7:30 p.m.

Dorothy Somerset Studio.
An MFA thesis production of Henrik Ibsen's play *Hedda Gabler* will be staged Feb. 21 to 26. Admission is $5; $3 for students and seniors. For ticket reservations, call 228-2678 or drop by Room 207 of the Frederic Wood Theatre Building. Dorothy Somerset Studio. 8 p.m.

TUESDAY, FEB. 22

Linguistics Seminar.
Syllable Theory and Phonological Processes in Three-Dimensional Phonology. Prof. Jonathan Kaye, Linguistics, Universite de Quebec, Montreal. Room 116, East Mall Annex. 9:30 a.m.

Cecil and Ida Green Lecture.
Social Science and Public Policy. Dr. J. Singer, Political Science, University of Michigan. Room 106, Buchanan Building. 12:30 p.m.

Botany Seminar.
Poly-Acetylenes in Crown Gall Tissue Cultures and Inheritance of Tumors in *Bidens alba*. R. Norton, Botany, UBC. Room 3219, Biological Sciences Building. 12:30 p.m.

Hillel House.
Free lunch sponsored by Hillel mothers. For information, call 224-4748. Hillel House. 12:30 p.m.

Forestry Seminar.
New Zealand — Forestry in Transition. Dr. D. Haley, Forestry, UBC. Room 166, MacMillan Building. 12:30 p.m.

Museum Lecture.
The Museum as Utopia. Prof. Cesar Grana, Sociology, University of California, San Diego. Sponsored by the Departments of Anthropology and Sociology, Hispanic and Italian Studies and the Museum of Anthropology. Auditorium, Museum of Anthropology. 12:30 p.m.

Assertiveness and the Professional Woman.
A three-session workshop for women who will be entering the work place and would like to learn effective assertiveness skills in their professional lives. Sponsored by the Women Students' Office. Room 106A, Brock Hall. 12:30 p.m.

Regent College Lecture.
The Mediation of Revelation and Reconciliation. Dr. Thomas F. Torrance. Room 1, Regent College. 12:30 p.m.

Oceanography Seminar.
Observations of Equatorial Kelvin Waves in the Pacific. Dr. Stan Hayes, Seattle. Room 1465, Biological Sciences Building. 3 p.m.

Biochemistry Seminar.
Physical Studies on Bacteriophage DNA Packaging and Ejection. Dr. Julyet Benbasat, Biochemistry, UBC. Lecture Hall 1, Woodward Instructional Resources Centre. 4 p.m.

Chemistry Lecture.
Aquaculture, Present and Future Application of Modern Biochemistry. Dr. M. Little, Syndel Laboratories Ltd., Vancouver. Room 250, Chemistry Building. 4 p.m.

Zoology/Neurosciences Discussion Group Seminar.
Development of Simple Nervous Systems. Dr. Gunther Stent, Molecular Biology, University of California, Berkeley. Room 2000, Biological Sciences Building. 4:30 p.m.

Family Housing Film.
The Great Brain. Auditorium, Student Union Building. 6:30 p.m.

Development Education Series.
Health, From the Ground Up. Sponsored by CUSO. For further information, call 228-4886. Upper Lounge, International Hosue. 7:30 p.m.

WEDNESDAY, FEB. 23

Linguistics Seminar.
Syllable Theory and Phonological Processes in Three-Dimensional Phonology. Prof. Jonathan Kaye, Linguistics, Universite de Quebec, Montreal. Room B324, Buchanan Building. 10:30 a.m.

Pharmacology Seminar.
Design Consideration for Clinical Trials in Rheumatology. Dr. Andrew Chalmers, Medicine, UBC. Room 114, Block C, Medical Sciences Building. 12 noon.

Regent College Lecture.
The Person of the Mediator. Dr. Thomas F. Torrance. Room 1, Regent College. 12:30 p.m.

Noon-Hour Concert.
Baroque Music for Viola da Gamba. Performed by Mary Cyr and John Sawyer, viola da gamba; and Doreen Oke, harpsichord. Recital Hall, Music Building. 12:30 p.m.

Hannah Lecturer in the History of Medicine.
The Discovery of Insulin: The Two Controversies. Prof. Michael Bliss, History, University of Toronto. Lecture Hall 1, Woodward Instructional Resources Centre. 12:30 p.m.

Planning Students Association Seminar.
Bargaining Processes in Natural Resources Management. Dr. Anthony Dorcey, Community and Regional Planning and Westwater Research Centre, UBC. Room 140, West Mall Annex. 12:30 p.m.

Sociology Lecture.
Garcia Marquez as a Conservative Writer: Reflections on a Paradox. Prof. Cesar Grana, Sociology, University of California, San Diego. Sponsored by the Departments of Anthropology and Sociology, Hispanic and Italian Studies and the Museum of Anthropology. Penthouse, Buchanan Building. 12:30 p.m.

Anatomy Seminar.
Expression of Agrobacterium Tumefaciens "T"-DNA in Crown Gall Tumors. Dr. Joan MacPherson, Biochemistry, UBC. Room 37, Anatomy Building. 12:30 p.m.

Educators for Nuclear Disarmament.
Discussion with Russian academics on mutual peace issues. Lutheran Campus Centre. 1:30 p.m.

Geophysics/Geological Sciences Seminar.
Exploration in the San Juan Basin: Geological/Geophysical Modelling and Resource Development. W.C. Riese, Project Geochemist, Anaconda Minerals, Colorado. Room 260, Geophysics and Astronomy Building. 4 p.m.

Animal Resource Ecology Seminar.
Electrophoretic Variation: Inferences from Patterns of Variation Within and Among Species, Frequency Changes during Selection, and Correlations with Quantitative Traits. Dr. Con Wehrhahn, Animal Resources Ecology, UBC. Room 2449, Biological Sciences Building. 4:30 p.m.

Comparative Literature Colloquium.
Does East Meet West? Japanese and Canadian Literature. Prof. Patricia Merivale, English, UBC, and Prof. Kinya Tsuruta, Asian Studies, UBC. Penthouse, Buchanan Building. 4:30 p.m.

Pacific Rim Seminar.
Economic Development in Japan. Noritake Kobayashi, Keio University, Japan. Room 604, Asian Centre. 4:30 p.m.

SUB Films.
The Wrath of Khan. Shows are at 7 p.m. Wednesday, at 7 and 9:30 p.m. Thursday through Sunday, with a matinee at 12:30 p.m. on Thursday. Admission is $1.50. Auditorium, Student Union Building. 7 p.m.

Soccer.
UBC vs. Wesburn. Thunderbird Stadium. 7 p.m.

THURSDAY, FEB. 24

Linguistics Seminar.
Syllable Theory and Phonological Processes in Three-Dimensional Phonology. Prof. Jonathan Kaye, Linguistics, Universite de Quebec, Montreal. Room 351A, Brock Hall. 9:30 a.m.

English Lecture.
Writing Your Way into a Job. Prof. Ron S. Blicq, English, Red River College, Winnipeg. Sponsored by the Committee on Lectures. Room 110, Angus Building. 12:30 p.m.

Jewish Students' Network Seminar.
Media update and report on Deir Yassin. Hillel House. 12:30 p.m.

Fine Arts Lecture.
Paul Neagu, Romanian-born British sculptor, speaks about his work. Room 104, Lasserre Building. 12:30 p.m.

Noon-Hour Travels with Zoologists.
Two Months' Window Into China. Prof. D.J. Randall, Zoology, UBC. Room 2000, Biological Sciences Building. 12:30 p.m.

Cecil and Ida Green Lecture.
From Confrontation to War. Dr. J. David Singer, Political Science, University of Michigan. Room 106, Buchanan Building. 12:30 p.m.

UBC Chamber Strings.
John Loban and Eric Wilson, co-directors. Recital Hall, Music Building. 12:30 p.m.

Geological Sciences Lecture.
Sedimentology of the Lower Cretaceous Gates and Moosebar Formations, North-eastern British Columbia. S. Carmichael, UBC. Room 330A, Geological Sciences Building. 12:30 p.m.

Women in People-Related Careers.
A panel discussion sponsored by the Women Students' Office. For information, call 228-2415. Room 302, Brock Hall. 12:30 p.m.

Decision-Making for Women.
The Women Students' Office begins a three-session workshop which will enable women students to acquire effective decision-making strategies while working on a specific current decision. For information, call 228-2415. Room 106A. Brock Hall. 12:30 p.m.

Institute of Asian Research Film.
Sons of Haji Omar. Auditorium, Asian Centre. 12:30 p.m.

Regent College Lecture.
The Mediation of Christ in Our Human Response. Dr. Thomas F. Torrance. Room 1, Regent College. 12:30 p.m.

Condensed Matter Seminar.
Melting and Freezing in Two Dimensions. Priya Vashishta, Argonne National Laboratory. Room 318, Hennings Building. 2:30 p.m.

Philosophy Seminar.
Aristotle On Essential And Accidental Predication. Prof. Alan Code, University of California, Berkeley, Penthouse, Buchanan Building. 2:30 p.m.

China Seminar.
Li Po as a Recluse: A Search for Political Prominence and Spiritual Fulfilment. Feng-yu Shih, Asian Studies, UBC. Room 604, Asian Centre. 3:30 p.m.

Anatomy Seminar.
A New Beginning for the Terminal Nerve. Dr. William K. Stell, Anatomy, University of Calgary. Room 37, Anatomy Building. 3:30 p.m.

Physics Colloquium.
The Production of Slow Positron Beams and their Application to Fundamental Positronium Physics. Stephan Berko, Physics, Brandeis University. Room 201, Hennings Building. 4 p.m.

Biochemical Colloquium.
Recreating the Discovery of Insulin: The Scientists' Methods, the Historian's Methods. Dr. Michael Bliss, University of Toronto. Lecture Hall 3, Woodward Instructional Resources Centre. 4 p.m.

UBC Wind Chamber Ensembles.
Paul Douglas, Ronald de Kant, Martin Berinbaum, David Branter and Christopher Millard, co-directors. Recital Hall, Music Building. 8 p.m.

FRIDAY, FEB. 25

Curling.
Canada West Championship takes place all day Friday and continues on Saturday, Feb. 26. For more information, call 228-2531. Thunderbird Winter Sports Centre.

Urban Planning Lecture.
B.C. Place: An Integrated Development. Paul Manning, vice-president, B.C. Place Corporation. Room 102, Lasserre Building. 11:30 a.m.

UBC Chamber Singers.
Cortland Hultberg, director. Recital Hall, Music Building. 12:30 p.m.

Educators for Nuclear Disarmament.
Canada's Role in the Nuclear Arms Race. Svend Robinson, M.P. Room 212, Student Union Building. 12:30 p.m.

Medical Genetics Seminar.
Advances in Technology Regarding Infertility. Artificial Insemination by Donor — Dr. G. Corn, Obstetrics and Gynaecology, UBC; Immunological Factors associated with Infertility — Dr. G. Lee, Obstetrics and Gynaecology, UBC; and In-Vitro Fertilization — Dr. B. Poland, Obstetrics and Gynaecology, UBC. Parentcraft Room, Grace Hospital. 1 p.m.

Philosophy Seminar.
The Aporematic Approach to Primary Being In Aristotle's Metaphysics *Zeta*. Prof. Alan Code, University of California, Berkeley. Room 604, Asian Centre. 2 p.m.

Chemical Engineering Seminar.
Fundamentals of Pulp Screening. Robert Gooding, Chemical Engineering, UBC. Room 206, Chemical Engineering Building. 3:30 p.m.

Linguistics Colloquium.
Selected Affinities between Esperanto and Romance Languages. Dr. Tai Whan Kim, Languages, Literature and Linguistics, SFU. Room D121, Buchanan Building. 3:30 p.m.

Beyond the Post-Modern Mind.
A lecture by Dr. Huston Smith, professor of Religion and Philosophy, Syracuse University. Cost is $4; $3 for students and free for those attending the symposium on Saturday. To register, call 228-2181, local 261. Lecture Hall 6, Woodward Instructional Resources Centre. 8 p.m.

UBC Chamber Singers.
Cortland Hultberg, director. Recital Hall, Music Building. 8 p.m.

SATURDAY, FEB. 26

Beyond the Post-Modern Mind.
Symposium by Dr. Huston Smith, professor of Religion and Philosophy, Syracuse University; Prof. William Nicholls, Religious Studies, UBC; and Prof. Michael Ovenden, Astronomy, UBC. To register, call 228-2181, local 261. Lecture Hall 6, Woodward Instructional Resources Centre. 9:30 a.m. to 12:30 p.m.

Family Housing Film.
The Great Brain. Auditorium, Student Union Building. 3 p.m.

Continued on Page 8

UBC CALENDAR

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MONDAY, FEB. 28

Cancer Research Seminar.
Rheological and Cell Surface Studies of Metastatic Cells. Dr. Donald Brooks, Pathology, UBC. Lecture Theatre, B.C. Cancer Research Centre, 601 W. 10th Ave. 12 noon.

Out-to-Lunch Phycologists.
Hair Cells and Monospores in Freshwater *Andouinella*. Beverley Hymes, Botany, UBC. Room 3000, Biological Sciences Building. 12:30 p.m.

Hillel House Speaker.
Science and Technology in Israel. Prof. Nissan Levin, Commerce, UBC. Lecture Hall 4, Woodward Instructional Resources Centre. 12:30 p.m.

Linguistics Seminar.
Language Learning with Change in Environment: Motherese; Feral Children; Blind Children; Deaf Children. Prof. Lila Gleitman, Graduate School of Education, University of Pennsylvania. Room D121, Buchanan Building. 2:30 p.m.

Mechanical Engineering Seminar.
Flexible Manufacturing Systems. Dr. F. Sassani, Mechanical Engineering, UBC. Room 1204, Civil and Mechanical Engineering Building. 3:30 p.m.

Management Science Seminar.
Prof. P. Hammer, University of Waterloo. Room 212, Angus Building. 3:30 p.m.

Applied Mathematics Seminar.
An Overview to Geophysical Inverse Theory. Dr. Douglas W. Oldenburg, Geophysics and Astronomy, UBC. Room 229, Mathematics Building. 3:45 p.m.

Zoology "Physiology Group" Seminar.
Acid-base Consequences of Long-Term Anoxia in Turtles. Dr. Donald Jackson, Biology, Brown University, Providence, Rhode Island. Room 2449, Biological Sciences Building. 4:30 p.m.

WUSC Information Evening.
WUSC information session regarding our overseas job placements. Room 215, Student Union Building. 7:30 p.m.

TUESDAY, MARCH 1

Botany Seminar.
Fungal Endophytes in Vascular Plants. Dr. G. Carroll, Botany, University of Oregon. Room 3219, Biological Sciences Building. 12:30 p.m.

Hillel House Speaker.
The Middle East: Challenges for Peace. Dr. Dan Sheuftan, International Relations, Haifa University, Israel. Room A203, Buchanan Building. 12:30 p.m.

Linguistics Lecture.
Lexical Categories and Concepts. Prof. Lila Gleitman, Graduate School of Education, University of Pennsylvania. Room B212, Buchanan Building. 12:30 p.m.

Forestry Seminar.
The Role of Soil Organisms in Humus Formation, and Their Importance in Reforestation Programs. Dr. A. Carter, Soil Science, UBC. Room 166, MacMillan Building. 12:30 p.m.

Chemistry Lecture.
Nuclear Charge Distribution in the Fission of Heavy Elements. Prof. Leo Yaffe, Chemistry, McGill University. Room 250, Chemistry Building. 4 p.m.

Gerontology Lecture.
Policy Choices in Mandatory Retirement. Dr. John Hogarth, Law, UBC. Lecture Hall 3, Woodward Instructional Resources Centre. 7 p.m.

Development Education Series.
Pyramids of Power — Individuals in Political and Military Structures. Sponsored by CUSO. For information, call 228-4886. Upper Lounge, International House. 7:30 p.m.

WEDNESDAY, MARCH 2

Hillel House.
Falaffel Lunch and Israeli Dancing. Free admission; charge for food. Party Room, Student Union Building. 12 noon.

Noon-Hour Concert
A concert of chamber music by students from the Banff School of Fine Arts. Recital Hall, Music Building. 12:30 p.m.

Linguistics Seminar.
Language Learning with Change in Endowment: Mental Retardation. Prof. Lila Gleitman, Graduate School of Education, University of Pennsylvania. Room D339, Buchanan Building. 2:30 p.m.

Statistics Workshop.
The Design of a Simple Clinical Trial. Dr. Jock MacKay, Statistics, University of Waterloo. Room 308, Angus Building. 3:30 p.m

Special Mathematics Colloquium.
Sex in a Random Environment. Prof. Gordon Hines, Mathematics, University of Guelph. Room 1100, Mathematics Annex. 3:45 p.m.

Animal Resource Ecology Seminar.
Size Dependent Interactions in the Dynamics of a Freshwater Zooplankton Community. Dr. Bill Neill, Animal Resource Ecology, UBC. Room 2449, Biological Sciences Building. 4:30 p.m.

Pacific Rim Seminar.
The Evolution of the Pacific Community Concept. Eric Trigg, vice-president, ALCAN. Room 604, Asian Centre. 4:30 p.m.

Frederic Wood Theatre.
Opening night of *The Ticket-of-Leave Man*, a Victorian play by Tom Taylor. Continues until Saturday, March 12 (except Sunday). Admission is $6.50; $4.50 for students and seniors. For reservations, call 228-2678 or drop by Room 207 of the Frederic Wood Theatre Building. 8 p.m.

THURSDAY, MARCH 3

Urban Land Economics Workshop.
Vancouver City's Densification Policy. Ann McAfee, Vancouver City Planning Department. Penthouse, Angus Building. 11:30 a.m.

UBC Collegium Musicum.
Music of the 15th to 17th Centuries with co-directors John Sawyer, Paul Douglas and John Chappell. Recital Hall, Music Building. 12:30 p.m

Hillel House Speaker.
History Beneath the Sea: Underwater Archeology in Israel. Prof. John Oleson, Classics, University of Victoria. Room A204, Buchanan Building. 12:30 p.m.

Linguistics Lecture.
You Guys See with your Eyes: Language Learning in Blind Children. Prof. Lila R. Gleitman, Graduate School of Education, University of Pennsylvania. Room A100, Buchanan Building. 12:30 p.m.

Institute of Asian Research Film.
Way of the Ancestors. Auditorium, Asian Centre. 12:30 p.m.

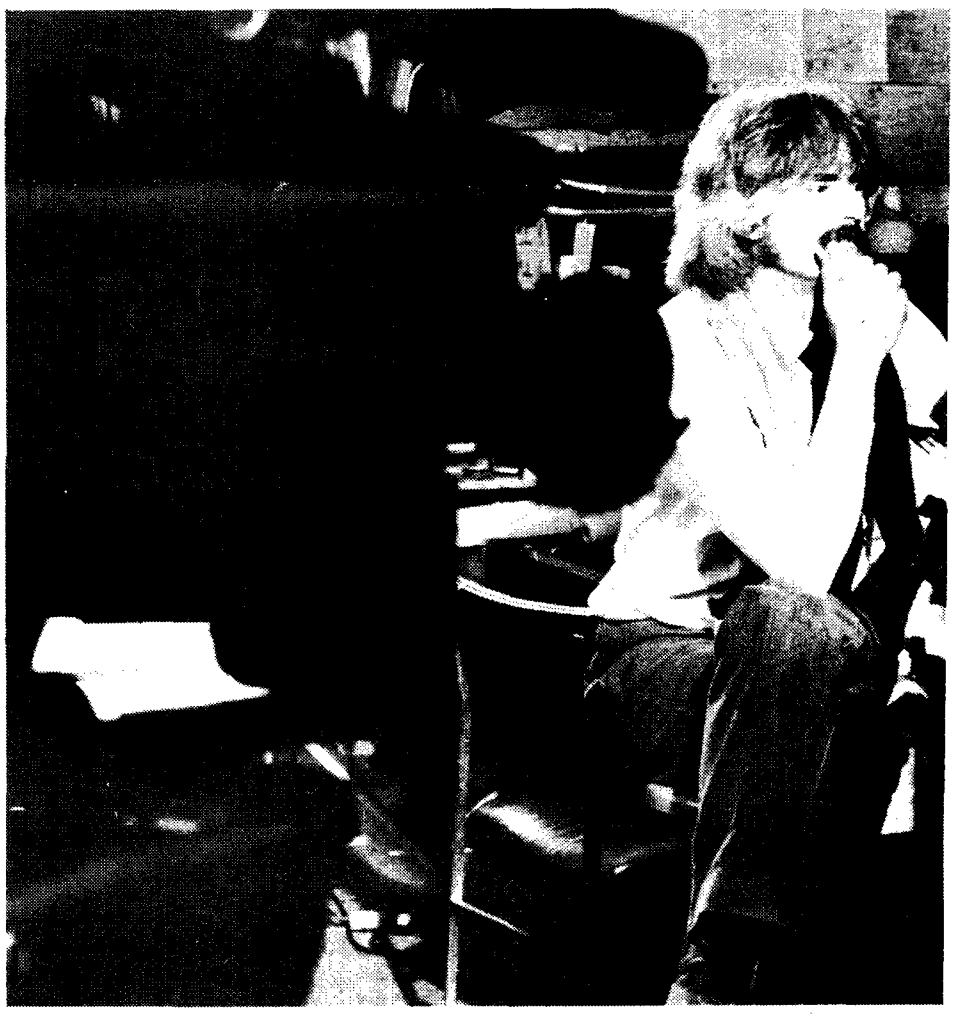
Philosophy Seminar.
Hume's Second Inquiry. Prof. R.I.G. Hughes, Yale University. Penthouse, Buchanan Building. 12:30 p.m.

Institute of Asian Research Films.
Children of Bangkok and *Azhari Ali — An Acehnese University Student*. Auditorium, Asian Centre. 12:30 p.m.

Gerontology Colloquium.
Social Network Analysis as a Health Promotion Technique Among Older Adults. Dr. Beverly Burnside, Health Care and Epidemiology, UBC. Room 1, Adult Education Research Centre, 5760 Toronto Rd. 1:30 p.m.

Linguistics Seminar.
Enriched Views of the Input: Prosody and Context. Prof. Lila Gleitman, Graduate School of Education, University of Pennsylvania. Room D336, Buchanan Building. 3 p.m.

Biochemistry Seminar.
Control of Respiration in Cytochrome Oxidase Containing Liposomes. Dr. Peter Nicholls, Brock University. Lecture Hall 4, Woodward Instructional Resources Centre. 4 p.m.



Prof. Ron Walkey of Architecture is filmed by TV station CKVU for Vancouver Show series on research at UBC. Prof. Walkey was No. 3 in the series, which is screened every two weeks. Next CKVU guest from UBC, on Feb. 28, will be Dr. Steven Sacks, an assistant professor of medicine, who will be interviewed about therapy for genital herpes.

Physics Collquium.
Collective Electrical Transport by Pinned Charge Density Waves. W. Gil Clark, Physics, UCLA. Room 201, Hennings Building. 4 p.m.

Institute of Asian Research Seminar.
Advanced Japanese Grammar and Lexicon for Students in Japanese Composition Classes. Prof. Matsuo Soga, Asian Studies, UBC. Part of the Ohira Commemorative Program in Japanese Research. Room 604, Asian Centre. 4 p.m.

Molecular Genetics Seminar.
Applications for Synthetic DNA in Human Genetics. Dr. R. Bruce Wallace, Molecular Genetics, City of Hope Research Institute. Lecture Hall 3, Woodward Instructional Resources Centre. 4 p.m.

SUB Films.
Bambi and *Robin Hood*. Shows are at 7 and 9:30 p.m. Thursday through Sunday. Admission is $1.50 per film. Auditorium, Student Union Building. 7 p.m.

FRIDAY, MARCH 4

Urban Planning Lecture.
Planning Process and Urban Development. Ray Spaxman, Director of Planning, City of Vancouver. Room 102, Lasserre Buiding. 11:30 a.m.

UBC Wind Symphony.
Music of Dello Joio, Reed, Hindemith and others directed by Martin Berinbaum. Recital Hall, Music Building. 12:30 p.m.

Hillel House Speaker.
Canada-Israel Relations: An Israeli Perspective. Uri Savir, Information Officer, Israel Embassy, Ottawa. Hillel House. 12:30 p.m.

Medical Genetics Seminar.
Organization in Factor 9 Genes. Dr. K. Kurachi, University of Washington. Parentcraft Room, Grace Hospital. 1 p.m.

UBC Collegium Musicum.
Music of the 15th to 17th Centuries with co-directors John Sawyer, Paul Douglas and John Chappell. Recital Hall, Music Building. 8 p.m.

SATURDAY, MARCH 5

The Prevention of Nuclear War.
A symposium on the prevention of nuclear war is being sponsored by UBC's Division of Continuing Medical Education, the B.C. Chapter of Physicians for Social Responsibility and the B.C. Chapter of Science for Peace. The symposium continues on Sunday, March 6. For registration information, call 228-2626. Lecture Hall 2, Woodward Instructional Resources Centre. 8:30 a.m.

Guest Artist.
Music of Brahms and Schumnn performed by Elly Ameling, soprano. Tickets are $10. For further information, call 228-3113. Recital Hall, Music Building. 8 p.m.

Notices . . .

Photography Show
Peter Thomas, medical photographer in the Department of Biomedical Communications, has a show of framed color prints up to 30 × 40" at the Faculty Club. The photographs, which show whales and seascapes, will be on display until March 5.

Language Classes
Classes in conversational French and Spanish will start the week of March 8. A special French class for UBC faculty and staff will be offered Tuesdays and Thursdays from 5 to 7 p.m. and a program on Language Teaching Techniques will also be given. For more information, call Language Programs and Services, Centre for Continuing Education at 228-2181, local 227.

Important UBC Dates
Feb. 17 and 18 — Mid-term Break. Lectures and laboratories cancelled. Library, departments and administrative offices remain open. **March 11 to 13** — Health Sciences Open House. **March 31** — Last day of classes for most faculties. **April 1 to 4** — Easter Weekend. University closed. **April 6 to 29** — Examination period for most faculties.

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