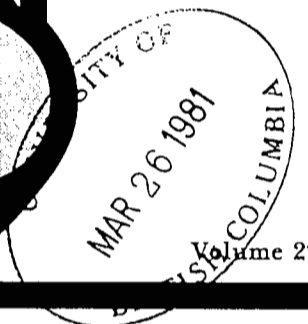


UBC Reports



March 18, 1981

Volume 27, Number 6

Survey shows 1980 UBC grads fared well on job market

The myth of the unemployed university graduate has been shattered once again with the release by UBC's Student Counselling and Resources Centre of a 141-page survey of the post-graduation activities of nearly 3,000 students who received their degrees in 1980.

Only 3 per cent of the 2,982 students who graduated in May, 1980, in 20 UBC degree programs were

found to be unemployed when the UBC survey was carried out between October, 1980, and January, 1981.

The 2,982 graduates contacted represent 88.1 per cent of the total number of students who received their degrees in the 20 UBC faculties and schools last May.

A comparison of the 1980 unemployment rate with the rate obtained in previous UBC surveys shows that unemployment for graduates has been steadily falling over the past five years.

The unemployment rate for arts graduates, for instance, dropped from 9.1 per cent in 1975 to 5.4 per cent in 1980; the 1975 rate of 5.7 per cent for commerce graduates dropped to 2.8 per cent in 1980; the rate in the same period for applied science grads dropped from 4.8 per cent to .9 per cent; for science grads from 10.3 to 4.8 per cent; and for architecture graduates from 13 to zero per cent.

Dick Shirran, director of UBC's Student Counselling and Resources Centre, said the overall unemployment rate of 3 per cent is in line with January, 1981, Statistics Canada figures which show a 2.5 per cent unemployment rate in B.C. for people holding a university degree.

The same federal figures show that
Continued on page 2
See EMPLOYMENT

Word awaited on '81 grant

University operating grant increases for 1981-82 are expected to be substantially below the overall 21.3 per cent increase announced for the Ministry of Universities, Science and Communications in last week's provincial budget.

The operating grant for general purposes for the three provincial universities is \$271,712,760, an increase of 13.39 per cent over the grant of \$239,611,925 in 1980.

The Universities Council of B.C. has indicated that in its preliminary allocation of 95 per cent of the grant, that UBC could receive a 12.74 per cent increase over last year. However, the Council reserves the final five per cent of the operating grant for "discretionary allowance" at a later date. As a result the estimated UBC percentage is still preliminary and could increase or decrease when UCBC makes its final disbursement at a later date.

Social aspects of computers emphasized

A computer-oriented seminar with a difference — directed to the social aspects rather than the technical — will be held in April at the Robson Square Media Centre.

The three-evening course is entitled "Living on Line: The Future Realities" and is sponsored by the Centre for Continuing Education.

Although computers have freed people from arduous work, they can be misused. Concern has been expressed about their effect on employment, economic balance, privacy of information and other social matters.

In the UBC course at Robson Square, leaders in the field will discuss the technology that makes computers possible, the dramatic effects of that technology on society, and the issues that arise and need to be explored.

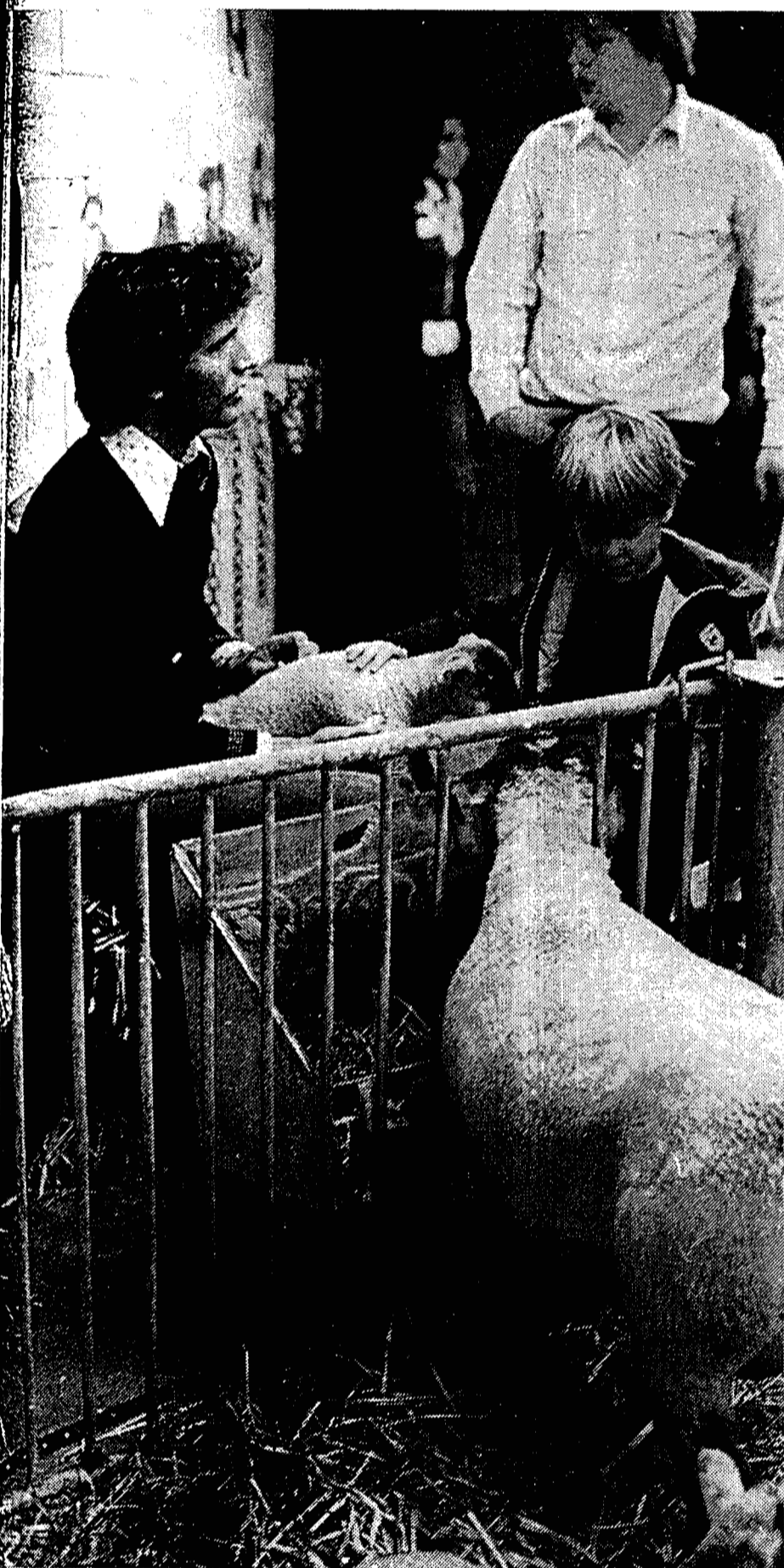
The first session, April 2, will deal with work activities, looking at the impact of technology on traditional work environments and the changing patterns of employment.

On April 9, the theme is computers and personal lifestyles, and the final session on April 16 will be on computers and entertainment.

Resource persons for the course are Gene Youngblood, author-lecturer-researcher from Los Angeles; Gordon Thompson of Bell-Northern Research, Ottawa; David Hughes, manager of Computer Communications Group, B.C. Tel; Cameron Smith, executive editor of the Globe and Mail; and Tom Berryhill of Consolidated Computer, Inc., Vancouver.

Each of the Thursday sessions runs from 7 p.m. to 9 p.m., with equipment on display to 10 p.m.

Charge for the course is \$25. Further information is available from the Centre for Continuing Education at 228-2181, local 276 or 278.



Future Aggie grad? Petting the lamb while he looks at mother ewe, this youngster was one of more than 35,000 visitors who took in Open House at UBC March 6 and 7. Engineering, forestry and agriculture were the hosts this year.

Payroll, benefits cut phone hours

Telephones in the payroll and benefits sections of the UBC Finance Department will be answered only between 10 a.m. and 3 p.m., effective April 1, because of an increasing workload.

Chief accountant Paul Bullen said the sections will be open as usual between 8:30 a.m. and 4:30 p.m. weekdays for across-the-counter enquiries and the handing out of cheques.

Employment

Continued from page 1

the unemployment rate in January, 1981, for those with 0 to 8 years of education up to those holding a post-secondary certificate or diploma ranged from 10.3 to 4.7 per cent.

"The conclusion to be drawn from these figures," he said, "is that the chances of finding employment are substantially increased for those who have a university degree."

The unemployment rate for women — 3.2 per cent — was slightly higher than the rate for men — 2.8 per cent.

A zero unemployment rate was recorded for graduates in music, architecture, dental hygiene, recreation, fine arts and nursing.

Here are brief descriptions of the findings of the UBC study in the 20 degree programs surveyed.

ARTS. Nearly 90 per cent of the 1980 Bachelor of Arts graduating class of 638 students responded to the survey, which showed that just over 40 per cent enrolled for additional formal training after graduation.

The 50 per cent of the arts respondents who were available for employment had an unemployment rate of 5.4 per cent — 6.2 per cent of the males and 4.2 per cent of the women.

COMMERCE. Almost 97 per cent of the 255 commerce graduates who sought work after graduation found employment. All grads in the finance and marketing options were employed; the employment rate was 90 per cent or better for graduates in all six commerce options.

APPLIED SCIENCE. The strong demand for engineers is indicated by the fact that only .9 per cent of the 1980 graduating class was unemployed.

AGRICULTURAL SCIENCES. More than 97 per cent of the 77 agriculture graduates responded to the 1980 survey. Three grads were unemployed, representing 4.1 per cent of the respondents and 5.6 per cent of those who were seeking work.

MUSIC. There were 48 Bachelor of Music grads in 1980 and the post-graduation activities of 44 (91.7 per cent) were determined. More than half continued their education and all of those who were available for employment found it.

FORESTRY. More than 91 per cent of the 68 forestry grads responded to the survey and of those contacted only one student was unemployed.

HOME ECONOMICS. Only four of the 74 home economics graduates were unemployed, representing 5.4 per cent of the survey respondents. More than 40 per cent of the 1980 grads continued their education.

SCIENCE. Nearly 60 per cent of the 412 science grads who responded to the UBC survey elected to continue their education after graduation. Of those who elected to enter a professional program, 50 per cent or 52 students enrolled for medicine or dentistry.

The overall unemployment rate for science grads was 4.8 per cent when expressed as a percentage of those responding to the survey.

ARCHITECTURE. UBC contacted nearly 90 per cent of the 44 students who graduated in architecture in 1980. Of this group, 37 (including six women) had found employment. Since two other respondents were not available for work, the unemployment rate was zero.

DENTAL HYGIENE. All 20 graduates of this program found employment.

SOCIAL WORK. UBC contacted 30 of the 31 1980 social work graduates. Four were enrolled for graduate school, 25 were employed and only one did not have a job.

PHYSICAL EDUCATION. Only two of the 82 physical education graduates contacted for the UBC survey reported they were unemployed. Almost 50 per cent of the graduating class enrolled for further academic work, primarily in education.

LAW. UBC contacted 96 per cent of the 1980 law class and found that only one male grad was unemployed. 201 of the 216 respondents were articling with law firms and 12 grads indicated they were doing other kinds of work by choice.

EDUCATION. Some interesting trends emerged from the responses of 559 students who obtained elementary and secondary school teaching degrees in 1980. Just over 80 per cent of the education graduates responded to the UBC survey.

1. The recent decline in the job market for both elementary and secondary teachers appears to have turned around, although it is still a long way from the buoyant days of 1975 when 90 per cent or more of elementary and secondary degree graduates obtained full-time positions.

In 1980, 71.6 per cent of secondary grads found full-time positions, compared to 67.7 per cent in 1978, and 67 per cent of elementary grads got full-time jobs compared to 60.7 per cent in 1978.

2. Just over 50 per cent of both elementary and secondary graduates found teaching positions on the Lower Mainland in school districts 35 to 45.

When other factors are taken into consideration, e.g., part-time teaching as a substitute and the fact that some education grads didn't apply for teaching jobs, the unemployment rate for elementary grads was only 1.2 per cent, and that for secondary grads was only 2.9 per cent.

REHABILITATION MEDICINE. The unemployment rate for rehab grads looks high — 10.3 per cent — until you realize that that figure represents only four people out of a graduating class of 39. Of the eight additional students who graduated under a degree-completion program, five were employed, two were unemployed by choice and one could not be contacted.

RECREATION EDUCATION. All 13 graduates of this UBC program who sought employment were successful in finding it.

PHARMACEUTICAL SCIENCES. The UBC survey contacted 99 per cent of 81 students who graduated in 1980. Only one grad reported he was unemployed but available for work.

LICENTIATE IN ACCOUNTING. This UBC degree, offered in the Faculty of Commerce and Business Administration, graduated 29 students in 1980. Only one of the 22 grads contacted for the UBC survey was unemployed.

FINE ARTS. Seven of the 15 graduates of this Faculty of Arts program sought work and found it. Of the remainder, seven continued in some form of education and were not available for employment and one graduate could not be contacted.



Phi Delt Stephen McMurdo, centre, is UBC's 1981 Ironman who ran, swam and biked his way to victory in the annual intramural "Storm the Wall" competition. Runners-up to McMurdo, a first-year Commerce student, were: Fiji Greg Wild, left, a third-year Science student; and Rod MacRae, a second-year Agricultural Sciences student. Nearly 400 students took part in team competitions during the three-day event. Men's team winners were the UBC lightweight rowing crew, Delta Kappa Epsilon and the Varsity Outdoor Club. Distaff winners were the UBC women's rowing team, School of Physical Education and the Thunderette basketball team.

Improvements still needed for women in workplace

Why do women get paid less than men for comparable work? Why is the unemployment rate higher for women than for men?

Questions like these were examined when 50 participants from across Canada gathered at UBC recently for a workshop on Women in the Canadian Workforce.

The purpose of the workshop, organized by UBC education professor Naomi Hersom, in co-operation with Dorothy Smith of the Ontario Institute of Studies in Education, was to determine the present state of knowledge about working women in Canada and then pinpoint areas where further research is needed.

A report will be submitted to the Social Sciences and Humanities Research Council, which introduced a 'strategic grants' program for research and other scholarly activity on subjects of national interest.

Twelve papers were presented by participants on such topics as Job Creation and Unemployment for Canadian Women, Union Organization and Women, Education and Job Opportunities for Women and Working Women and the State.

Prof. Hersom said that most people aren't aware of the conditions that women face in the Canadian workforce.

"Women are often paid less and are restricted in job advancement because of sex discrimination. People have to become aware of the situation before changes can be made," she said.

One of the speakers at the workshop, Carole Swan, director of Economic Research and Analysis at

Status of Women Canada, presented a paper which gave an over all picture of the current situation for women in Canada's labor force and noted changes which had taken place over the past decades.

She pointed out that women today account for more than 39 per cent of Canada's workforce (they made up only 13 per cent of paid workers at the turn of the century).

"The accelerating involvement of women in the paid labor force, particularly over the last two decades, is one of the most dramatic developments in Canadian economic history," she said. "However, the increasing participation of women in the labor market hasn't been matched by significant improvements in their position within the market."

Ms. Swan pointed out that more than 60 per cent of all working women are employed in three areas — clerical, sales and service (chambermaids, babysitters, etc.).

She also referred to studies on wage differences between male and female workers.

"According to Statistics Canada, female graduates with the same level of educational qualifications as male graduates are paid lower wages," she said.

"Another study, carried out by The Women's Bureau, Labor Canada, showed that even when age and education factors that might affect the salary of a worker were the same for both men and women, the men's earnings exceeded those of women in 94.2 per cent of the cases."



SHELLEY CRAIG ... leaves this summer for a year of study in France.

Music student earns a year in France

Shelley Craig, a third-year music student at UBC, is spending next year in France, thanks to a scholarship awarded by the Rotary Foundation of Rotary International.

The scholarship pays for her transportation, expenses and tuition at a music conservatory in France.

Ms. Craig has applied to 17 conservatories and hopes to attend one that offers piano, composition, harpsichord and sound engineering training, the four areas she has been concentrating on at UBC.

She leaves at the end of June and will spend two months taking a French

language course in Tours. Her music studies begin in October.

"I hope to spend the month of September attending music festivals around the country," she said.

Ms. Craig's first choice when she applied for the scholarship was to go to Austria, but the foundation thought that France would be a more suitable location for her since she speaks French fluently and hadn't had any formal training in German.

"I'm just as happy to be going to France," she said. "My primary interest wasn't to go to Austria, it was to study music in a foreign culture."

Ms. Craig has a long-standing interest in foreign culture. She attended Pearson College, an international college in Victoria, for two years before enrolling at UBC, and she has been active in organizing events for UBC's International House since she's been on campus.

Last year she won a \$2,000 Leadership Award from International House.

After her year in France, Ms. Craig plans to return to UBC to complete her music degree. She hasn't decided on her post-graduate plans yet.

"I may teach, perform or try to break into classical music recording. Right now I'm keeping my options open."

Two funds honor Davidsons

UBC's psychology department and School of Nursing have established funds honoring the late Prof. Park Davidson and his wife, Sheena, who were killed in a car accident in B.C.'s southern Interior on Dec. 21.

The Department of Psychology has established the Park O. Davidson Memorial Fund to provide an endowment to support "distinguished academic work and the professional development of students" in the department's clinical/community psychology program.

Contributions, payable to the

Commerce welcomes Daon gift

Daon Development Corporation has taken a highly innovative approach to providing financial support for the Faculty of Commerce and Business Administration at UBC.

And shoppers in Edmonton, Calgary and Red Deer will help.

It works like this: Daon is building shopping centres in each of the Alberta cities, financed through limited partnership shares with a book value of \$125,000 each. One of these share units has been given by Daon to the Commerce Faculty to finance research in business administration.

Tenants in the centres pay a base rent plus a percentage of sales, and an initial annual income of more than \$10,000 is expected by UBC.

"It's a unique gift as far as we're concerned," said Commerce Dean Peter Lusztig, "and it comes at a time when business schools desperately need additional support. We consider it a research endowment and it is all the more welcome because it provides a reasonable hedge against inflation by its very nature."

Daon executive vice-president William H. Levine said the company values its long connection with the Commerce faculty at UBC, which has also supplied a number of senior officers to Daon.

"We consider the endowment to be an investment in their future and ours," Levine said, "and we're delighted to be able to provide this kind of support."

Dean Lusztig said the faculty will first use the Daon gift to bring Canadian and American experts to the University this summer for a symposium on housing in the 21st century.

Meanwhile, Dean Lusztig announced the appointment of Associate Dean Michael Goldberg to the Herbert R. Fullerton Chair in Urban Land Policy and Prof. Gerald Feltham to the Certified General Accountants' Chair in Accounting.

Prize-winning film screened tomorrow

The prize-winning film *Samskara* (Last Rites) is being shown tomorrow night (March 19) at 8:00 p.m. in Buchanan 100 as part of the series of inaugural activities being held to celebrate the opening of the new Asian Centre.

It's free and open to the public.

Former BOG member dies

A memorial service was held Friday (March 13) for Dr. John Liersch, a former member of UBC's Board of Governors and a well-known figure in the B.C. forest industry, who died March 9 at the age of 75.

Dr. Liersch held two UBC degrees, a Bachelor of Arts awarded in 1926 and a Bachelor of Applied Science in forest engineering awarded the following year. He did graduate work at the University of Washington, where he received the degree of Master of Forestry in 1931.

For more than three decades, Dr. Liersch pursued a career in the B.C. lumber industry as a logging contractor, forest engineer and senior executive for the former Powell River Co., MacMillan Bloedel Ltd., and Canadian Forest Products Ltd.

Appointed head of the then Department of Forestry at UBC in 1942, he was immediately called on by government to serve as production manager for a Crown Corporation which produced spruce to build one of the most famous aircraft of the Second World War, the Mosquito fighter-bomber.

Dr. Liersch was closely involved with UBC affairs from 1962 to 1976, as a member of the Board of Governors from 1962 to 1972, and as a member of the management committee of the UBC Health Sciences Centre from 1973 to 1976. He served as chairman of the Board of Governors in 1970-71.

The UBC Alumni Association presented Dr. Liersch with its Award of Distinction in 1979 and he received

the honorary degree of Doctor of Laws at UBC's 1980 spring congregation.

Dr. Liersch is survived by his wife, Lorraine, and one daughter, Mrs. Susan Golden.

Scholarship established

A \$2,500 annual scholarship for students enrolled in UBC's diploma program in education of visually handicapped children has been set up by family and friends of Mrs. Cathy Stratmoen, a UBC special education student who died in a car accident near Whistler in December of 1979.

Mrs. Stratmoen, a graduate of the University's School of Social Work, was enrolled in the diploma program at the time of her death.

"Cathy made an impact on everyone she met with her warmth and understanding," said Dr. Sally Rogow, an associate professor in the education faculty.

"When she died, individuals and groups from around the campus and community came forward, wanting to set up a fund in her memory. The fact that so many people wanted to honor Cathy says something about the way she touched people's lives."

Mrs. Stratmoen, who was born with a visual disability and lost her sight in her teen years, was hoping to teach visually disabled children in a small community after graduating from the program.

Discipline the key, says writer

Aritha van Herk may be a successful novelist but she hasn't forgotten the importance of the basics.

Ms. van Herk, author of *Judith*, a novel which won the \$50,000 Seal Book Award last year, and *The Tent Peg*, a novel published in late February, has been on campus as a sessional lecturer in English since last September, teaching the fundamentals of grammar to English 100 students.

"I don't see any conflict between being a novelist and teaching English 100," she said. "You can't become any kind of writer without first knowing how to use the English language well."

She is a native of Alberta, where she earned her B.A. and M.A. in English from the University of Alberta. In addition to her two novels she has published a number of short stories.

"I'm very disciplined when I'm writing and I tend to expect the same discipline from my students. I'm afraid I'm rather hard on them because I think you have to write constantly in order to do well. Practice is the greatest element in writing. If you write a lot, eventually you learn to manipulate language effectively."

According to Ms. van Herk, some of the problems English 100 students have stem from a lack of reading.

"Reading is an endangered art. This has become a highly visual society and people would rather see things than read pages in a book. I find my students have difficulty reading and this affects their writing ability. Once they realize that it's not difficult to read a Shakespeare play or a modern novel and understand them, their writing improves proportionately."

Her own writing shows a diversity of style. Her first novel, *Judith*, is about a woman who comes to terms with her past and herself by becoming a pig farmer in central Alberta. The story is told in a stream of consciousness style with flashbacks. Her latest novel, *The Tent Peg*, deals with nine men and one woman who work in a bush camp in the Yukon. The book is written in chronological order with all the characters telling a portion of the story from their point of view.

"*The Tent Peg*," Ms. van Herk explained, "is a psychological novel that looks at how the characters deal with their surroundings, their work and each other. It was difficult to write because I had to think and write from so many different points of view."

"It takes the form of a tall tale, and because everything is so exaggerated it becomes humorous. But comedies can be quite serious, and this is definitely a serious book."

Ms. van Herk doesn't want the novel to be labelled as a 'feminist' work of literature.

"I am a feminist myself but I'm not trying to preach a sermon in the book. I do have a character in the story who's a feminist, but the novel is really about how men think and feel. If I wanted to push a feminist point of view I wouldn't have 14 men and one woman in the novel."

"The book isn't trying to tell the readers what to think. It does have some serious ideas, but it was written to entertain people."



Prof. Irving Fox of UBC's School of Community and Regional Planning and his Siberian huskies Sheenjeh and Klahowya.

Westwater studies Yukon rivers

A series of research studies aimed at setting out options for development of the water resources of the Yukon is getting into high gear at UBC.

Prof. Irving Fox of UBC's School of Community and Regional Planning is the general supervisor of the studies in his capacity as a research associate attached to UBC's Westwater Research Centre, which conducts interdisciplinary research on problems concerning water resources and associated lands.

The Westwater studies will be concerned with a wide range of topics, including power generation, tourism and recreation and placer mining.

Prof. Fox emphasizes that the studies will not result in a series of recommendations detailing how the territory's water resources can best be developed.

By the end of this year, Prof. Fox said Westwater will have produced a series of technical reports for experts and an integrated report for laymen that will provide an assessment of alternative policies that might be pursued in the development of Yukon water resources.

"Our function isn't to tell people what to do," Prof. Fox said. "Westwater's general function is to carry out research on multi-dimensional problems so that governments and special interest groups have an improved foundation for making decisions about policies and institutional arrangements to be pursued in water resource management."

The studies are being funded by the Canadian Arctic Resources Committee, a non-profit body which supports northern-problems projects, the federal Department of Indian Affairs and Northern Development and the Donner Canadian Foundation of Toronto, which recently announced a grant of \$78,000 for the project.

One study launched last year that is well advanced, said Prof. Fox, "deals with what we call institutions, or the legal and administrative arrangements for making decisions about the use of water resources."

This study is being carried out by Peggy Eyre, a UBC community and regional planning graduate who'll turn her attention to the Yukon's tourist and recreation industry when she's

completed the institutional study.

"The view is that tourism, which is now the Territory's second most important industry after mining, and the fisheries resource may be among the best uses of the Yukon's water resources," says Prof. Fox.

One aspect of the study is currently being carried out by a UBC graduate student, who is surveying the tourist potential of the Yukon River between Whitehorse and Dawson. Serving as a consultant on the tourist and recreation project will be Prof. Thomas Burton, who heads recreation administration at the University of Alberta.

"In connection with the Yukon fishery, we have a project which will focus on using fishing to improve the economic base of the territory and the strategies to be pursued to realize that goal," Prof. Fox said.

"The study will look at the effects on this potential if hydro developments, placer mining and so on are allowed to go ahead." A well-known biologist, Winston Mair, former head of the Canada Wildlife Service and Canada's National Park Service, is just getting this project under way.

Under a contract with the federal Department of Indian Affairs and Northern Development, Westwater will also assess the economic feasibility of generating electricity that would be used to power the pumps which will drive natural gas through the proposed pipeline across the Yukon.

"Power generation for this purpose would involve the construction of some large dams," Prof. Fox said, "and this raises many additional impact problems. A Vancouver consultant is preparing an estimate of the cost of transmission lines and the sub-stations that would be required at each pipeline compressor station."

Yet another consultant has been engaged to carry out what Prof. Fox calls "sensitivity analyses" on matters related to the proposed pipeline. Prof. Fox said the consultant would test questions such as: "If the natural gas is worth X dollars in the U.S., what does the price of power have to be in the Yukon to make it worthwhile to use electricity to power the compressors as opposed to say, natural gas?"

Another power-generation problem

to be investigated relates to a proposal to build an aluminum production plant in the Yukon. Prof. Fox said there appears to be a coming problem in generating the power required to extract from bauxite ore the aluminum that will be demanded by future world markets.

"The west coast of North America, including the Yukon and Alaska, appears to be a likely spot for power development for this purpose," he said.

But there may be problems for the Yukon in this proposal. Prof. Fox added. The bauxite would have to be transported over the White Pass to get it close to the Yukon power sources and the question being asked is what price the power will have to be to make it advantageous to bring the ore in.

Another Westwater study relates to the new Yukon gold rush resulting from current world gold prices.

"Almost anyone aged 18 or over can stake and work a mineral claim in the Yukon with only minimal environmental restraints," Prof. Fox said. "Canada gets only 22½ cents for every ounce of gold taken out of the Yukon, which is a pretty good deal for the producer when you consider that the price of gold is running between \$500 and \$600 an ounce in Canadian dollars."

"Our study is aimed at understanding the economic benefits to Canada and the environmental effects of this kind of placer mining activity."

The integrated report for laymen which Westwater plans to have ready early next year will be discussed at a workshop attended by representatives of groups which have an interest in various aspects of the report.

"Basically, the question we'll be asking in the final report is 'Where do we go from here in the light of the issues that arise out of the research studies?'," Prof. Fox said.

The Westwater group will be in close touch with another research group established under the Canada Water Act. A tripartite agreement between the federal government, the Yukon and British Columbia provides for a water management study of the Yukon River basin, exclusive of the Porcupine tributary, which joins the river in Alaska.

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ACROSS CANADA

Wilfred Laurier University has made what it calls an "unusual appointment." Dr. Andrew Lyons, an assistant professor of Wilfrid Laurier University since 1977, will now share his academic job with his wife Harriet, who has been teaching at Smiths College in Massachusetts, and now can stop those long commuting runs. Sharing one job will allow both family members more time for relaxation and research and the university gains one extra scholar.

The University of Toronto *Bulletin* tells us of Prof. Barrie Hayne of U of T's English department who's learning lipreading as part of his specialty studying silent films. He says what the actors in those films were saying wasn't always what the subtitles said they were saying. In the silent film *Three Weeks* with Conrad Nagle and Aileen Pringle, the stars are "clasped in a passionate embrace, the heroine bent backwards over her ardent lover's arm. The subtitle is something appropriately gushy and romantic but soon after the film's release, outraged letters (mostly from deaf viewers) began pouring in to the studio. The correspondents had noted what the subtitles hadn't — namely that what Pringle actually said was: 'Drop me, you bastard, and I'll break your neck.'"

The role of universities in Ontario is now being studied by a committee set up by the Ontario provincial government. The study was asked for by university executive heads in a brief to the government, in which they tried to reconcile present and future levels of university funding with government-endorsed objectives of the Ontario university system. The committee is expected to report in February.

At the University of Calgary support staff have established a scholarship for their children. And their contribution of \$20,000 was matched by U of C grants transferred from unspent capital funds. (Only in Alberta, you say? Pity.) Two awards will be available next September for \$2,000 each. Winners must be dependent children of support staff employees with three or more years of service and must register as full-time students at the U of C.

Skipping songs are part of childhood traditionally passed down by word of mouth. Now University of Regina English professor Robert Cosbey has collected 171 songs, plus the history of skipping and its meaning, in a publication *All in Together, Girls: Skipping Songs from Regina, Saskatchewan*. It's available from bookstores or from the Canadian Plains Research Center, Room 218, College West, University of Regina, at \$3.50.



Map in hand, Dad keeps his daughters close to hand as they take in the sights of *Open House* at UBC. *Open House* is now an annual affair, featuring different areas of the University. Hosts next spring will be the Faculties of Arts, Commerce and Business Administration, Education, Law and Science.

Students write for kids — and credit

Some 20 UBC students are having a unique experience in this academic year. They're enrolled in the first credit courses in the writing of children's literature offered in any university in Canada.

The program, which is offered in UBC's Department of Creative Writing, is being taught by Sue Ann Alderson, an experienced lecturer in English and author of five children's books. Before coming to UBC, she taught at Capilano College and Simon Fraser University.

Ms. Alderson sees her role in the program as that of a mentor rather than a lecturer. "I think you learn to write by writing," she says. "I see myself as a catalyst, a resource person, a guide. I do whatever is necessary to fill in the gaps and make it easy for students to open their own doors."

Ms. Alderson encourages her students to take advantage of the child development and children's literature courses offered at UBC, and to work with children. "Ideally, people who write for children should have an understanding of how children think and feel," she says.

Ms. Alderson has an extensive background working with children and studying children's literature, but most of the ideas for her books come from

her own experience as a mother (she has a 10-year-old daughter, Rebecca, and a 9-year-old son, Kai).

Three of her books deal with a character named Bonnie McSmithers, and according to Ms. Alderson, the idea for the series came out of a situation with her daughter.

The theme of the Bonnie McSmithers series is that children need to explore their world and have adventures in order to develop a necessary autonomy and self-esteem.

Ms. Alderson's other two books are fairy tales, but they make references to contemporary things that children can relate to. Both of these books also deal with the development of autonomy in young children.

"I didn't set out to write stories with this theme," says Ms. Alderson. "It was something I noticed about the books after they were written. I suppose it must be something that I feel strongly about."

Although her books have a consistent theme, Ms. Alderson uses a variety of different styles and writing techniques.

"Children are all different, all individuals," she says, "and we should provide a literature that is wide enough to meet their individual needs."

Prospective students get preview

If the faces around campus seem to be getting younger these days, it's probably due to the work of Iris Thomson, a member of the Student Counselling and Resources Centre staff, who's co-ordinating on-campus liaison between UBC and secondary schools and colleges.

Ms. Thomson, a UBC psychology graduate, advertises the tours through a newsletter put out by the counselling centre which goes to all secondary schools in the province. Schools interested in a tour can arrange an agenda that's suited to the particular interests of the group.

"It's mostly grade 11 and 12 students who come out," said Ms. Thomson. "I try to show them both the academic and recreational side of UBC. A lot of them have never been in a lecture hall before and they're fascinated with this type of classroom situation."

"In addition to classrooms and libraries though, a tour might include visits to residences, the Aquatic Centre, the Museum of Anthropology and recreational facilities on campus. For a lot of students, it's important to find out whether or not they would fit into a campus environment."

The tours include orientation sessions on admission, housing, financial aid and general information about the University. Ms. Thomson also arranges appointments with faculty members if the students express an interest in a particular area of study.

Another area of her work is to arrange tours for groups of grade 10 students who are invited to the University as part of an accessibility program that was initiated and funded by UBC's Board of Governors in 1979.

The program concentrates on five B.C. high schools that have a low

percentage of graduates enrolling in post-secondary education. One of the ways UBC is trying to encourage students from these schools to consider post-secondary education at the University is to familiarize the students with the campus.

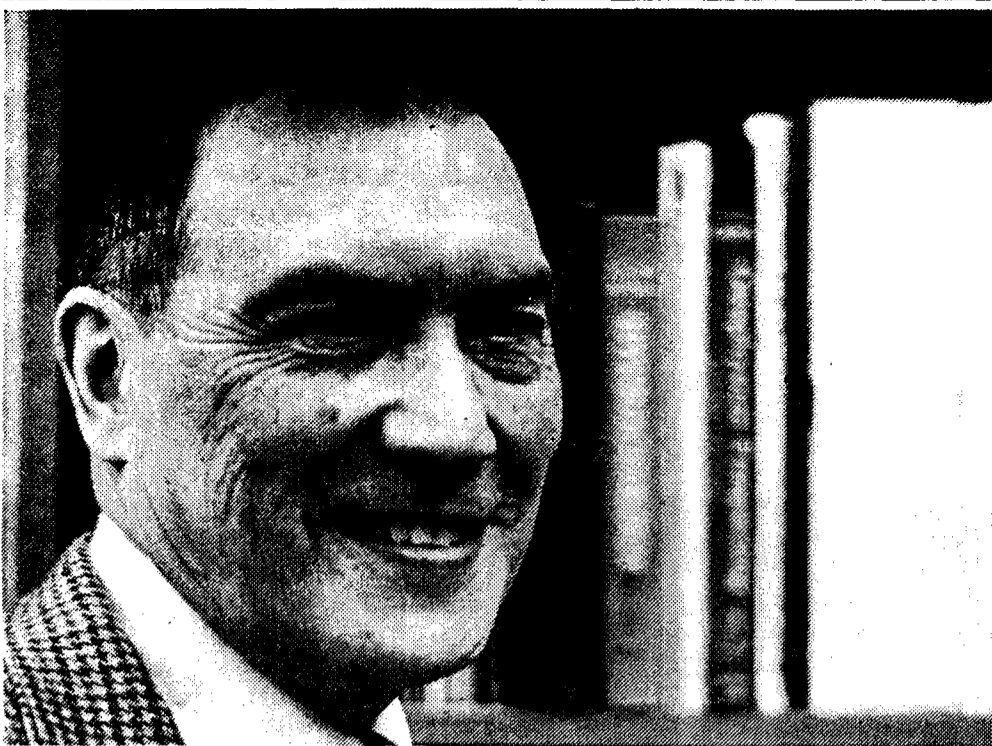
"The accessibility program tours are sponsored by the University and are two or three days long," said Ms. Thomson. "The students stay in the residences overnight."

"The purpose of inviting grade 10 students is because it's at the grade 10 level that students make course decisions that often limit their options later on. We want to expose them to the exciting intellectual atmosphere of UBC, and hopefully motivate them in their academic program."

"I think it's important with a campus this size to let students know that there are people here who are interested in them."



A trip to UBC's dairy barn was part of a 4-day tour for grade 10 students from Creston when they visited the campus recently. Accompanying them on the tour was UBC counsellor Iris Thomson (fourth from left, front row) and school counsellors Bev Myers and Jim Osborne (back row).



PROF. J. ROSS MACKAY ... back to the Arctic.

Northern expert going north in retirement

When Prof. J. Ross Mackay of UBC's geography department first ventured into the Canadian arctic in the early 1950s, he was driven by one of the most powerful forces that motivate university researchers — simple curiosity.

If pressed, he will admit that it did occur to him from time to time that some of the symbols of modern industrial society — roads, bridges, airfields, new communities and the heavy equipment needed to build them — might invade the north some day.

Certainly, he wasn't thinking how important his research results would one day be to the invaders.

More than 30 years of basic work on the geography of Canada's arctic has gained for Prof. Mackay an international reputation as an expert on that area's geomorphology — the study of the origins and development of arctic surface features — and particularly on permafrost, the perennially frozen ground of that region.

Oil companies and other northern developers have beaten a path to his door for advice, which he freely provides because he believes in another cornerstone idea of the academic life — that research results should be freely available to anyone who has a legitimate use for them.

And over the years he's been the recipient of the major awards of North American and international geographical bodies, who are generally chary about who gets their top honors.

Prof. Mackay says his curiosity about the north is still far from satisfied. He plans to spend even more time pursuing his research interests in Canada's far north, particularly in winter, after he retires from full-time teaching duties at UBC in June of this year.

The road that was to lead to a reputation as one of Canada's leading arctic experts began for Ross Mackay in the late 1940s when he was teaching at McGill University in Montreal, where the Arctic Institute of North America then had its headquarters.

Two years after joining the UBC faculty in 1949, he made his first journey to the north, where his expertise as a cartographer and geomorphologist was put to use.

Armed with a series of aerial photographs taken by the federal government, Prof. Mackay and two companions spent the entire summer walking inland from the Beaufort Sea north of Great Bear Lake comparing features in the aerial photographs with on-the-ground observation.

The object of the study was to determine whether land features pictured in the aerial photographs accurately reflected actual ground conditions.

Prof. Mackay knew that many of the features pictured were the result of permafrost, the frozen ground that covers about half of Canada and which varies in depth from 1,000 feet in the western arctic to 1,700 feet in some areas.

Over the next 30 years, in addition to studying permafrost, Prof. Mackay did intensive work on other arctic phenomena — bodies of ground ice which may be up to 100 feet thick in some areas, ice wedges which form when water freezes in arctic ground fissures, and ice-cored hills called pingos, which grow near the centre of drained arctic lakes.

Except for a couple of years when he was on study leave or working abroad, Prof. Mackay has visited the Canadian arctic every year since 1951 to carry out his research, mostly in the Mackenzie River delta and coastal area of the western arctic, where the federal government has reserved a site for his exclusive use on Garry Island, where Alexander Mackenzie reached the sea on his historic 1789 voyage down the river that is named for him.

During his arctic visits he occupies two winterized cabins, one on Garry Island and the second 40 miles to the east, where he has drained an arctic lake as part of an experiment designed to investigate the growth of permafrost and pingos.

Prof. Mackay began to get an inkling of just how important permafrost research was in the late 1960s, when the first of what was to become a flood of telephone calls began to reach him at UBC.

The callers were oil firms and other northern development companies which were in need of assistance and advice about permafrost conditions which might affect their operations

and the natural environment in the Mackenzie delta and western arctic coast, the areas where Prof. Mackay had been active.

With his knowledge of permafrost and ground ice conditions in those areas, Prof. Mackay was able to advise the companies about what happens when there is an increase in surface activity or when ground cover is stripped off.

The most immediate result of surface activity is that permafrosted ground will literally cave in, or subside, which could create havoc if special measures aren't taken to minimize or prevent thawing.

Oil pumped to the surface from deep underground, where it has been heated because it's closer to the earth's core, can't be transported through underground pipelines in the arctic because thaw-induced subsidence would result in stresses that would crack the line.

As a matter of principle, Prof. Mackay has never accepted personal consulting fees for any of the advice he has freely given to companies, although his colleagues insist he could have made a small fortune in this role.

One company provided grants to UBC for a graduate student fellowship, while other companies have provided Prof. Mackay with extensive drill hole data as well as transportation and logistic help for his graduate students.

For the most part, Prof. Mackay has been supported by the Geological Survey of Canada, the Polar Continental Shelf Project of Energy, Mines and Resources, and the Natural Sciences and Engineering Research Council.

His work on disturbances to permafrost has also helped in the development of government land-use regulations in the far north. He's recently been appointed to the Beaufort Sea Panel, which will review plans to extract oil and gas from underwater deposits off the Arctic coast.

Prof. Mackay's research, which has resulted in more than 150 published papers, has not gone unnoticed by his peers.

The Royal Canadian Geographical Society awarded its Massey Medal to him in 1967. He was the recipient of a Centennial Medal from the federal government in 1968, and he received the citation of merit from the Canadian Association of Geographers at the International Geographical Congress in 1975. In 1975 he also was awarded the Miller Medal of the Royal Society of Canada and UBC's top prize, the Prof. Jacob Biely Faculty Research Award. In 1977 he received the Outstanding Fellow Award of the Arctic Institute of North America.

Anyone planning to write about Prof. Mackay's contributions to arctic research can't help being impressed by the awe in which he is held by colleagues in UBC's geography department.

Dr. Michael Church, a former student of Prof. Mackay who is now an associate professor of geography at UBC, points to the sheer volume of careful description and analysis that his mentor has carried out over the years.

"He's invented very simple methods for measuring ways in which the arctic landscape changes, which is very important from an academic point of view as well as for northern development.

"It's taken someone like Ross to

show us that these kinds of measurements can be made and one of his greatest impacts will be to inspire others to develop ways of making new, better and more extensive descriptions."

Some of Prof. Mackay's ingenious methods of scientific investigation were detailed recently by a colleague, Prof. Bill Mathews of UBC's Department of Geological Sciences, who gave one of a series of lectures honoring Prof. Mackay.

He described a response by Prof. Mackay to the problem of obtaining a precise time of day and year when an ice wedge cracks open as the result of permafrost chilling.

The solution turned out to be a variation of technique pioneered earlier by Prof. Mackay, who embedded a slender wire in the arctic top soil across the axis of an ice wedge in the summer when the soil was thawed under the summer sun.

The wire, when frozen in with the winter cold, would snap the instant the ice wedge split open.

To pin down the exact time the wire snapped, Prof. Mackay employed an inexpensive electric watch that recorded the time of day, day of the week and month. He disconnected one battery terminal and reconnected it via the "breaking wire." When the ice wedge cracked, the wire snapped and the watch stopped.

And since the watch could be left undented for many months before it repeated its day-date pattern, it was possible to recapture both the time and date of the rupture using the doctored wrist watch. Prof. Mackay now obtains the same information with sophisticated electronic timing devices.

Ross Mackay's answer to the problem of finding a substitute for the increasingly expensive and hard-to-obtain wooden dowelling used as survey stakes in the arctic was to substitute bamboo chopsticks, which Prof. Mathews told his audience were "inexpensive, available in quantity, pre-cut, pre-packaged and remarkably distinctive if inserted in the arctic tundra."

Prof. Mathews ended his lecture tribute to Prof. Mackay alliteratively characterizing his scientific method as a fitting one program:

"Perception of a peculiar problem in permafrost, planning and preparation for its probing, its pursuit with perseverance, the pondering of possibilities leading to proof of the proposition and, finally, the publication of a paper."

Dr. Church characterizes Prof. Mackay as a "model scholar who has consistently reminded us of the abiding purpose of a university by teaching conscientiously and sticking to his research. He's been responsible for the emergence at UBC of a relatively outstanding group of physical geographers in the Canadian context."

Prof. Mackay, being a singularly modest man, would never give voice to the kudos that come easily to his colleagues.

He admits that over the years he's had plenty of offers from elsewhere that would have paid him a great deal more money. And he adds: "I've stayed at UBC because I've been a member of a congenial department under capable heads and where I enjoy good relationships with other faculty members. I've enjoyed working at UBC because I've been given the freedom to get on with the kind of work I enjoy doing."

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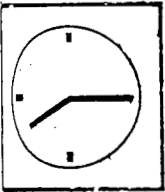
UBC CALENDAR

UBC Calendar Deadlines

For events in the weeks of April 5 and April 12, material must be submitted not later than 4 p.m. on March 26. Send notices to Information Services, 6328 Memorial Rd. (Old Administration Building). For further information, call 228-3131.

The Vancouver Institute.

Saturday, March 21
The Mystique of the Detective Story. Mr. Julian Symons, author, Kent, England.
Saturday, March 28
THE DAL GRAUER MEMORIAL LECTURE. Paradoxes of Irrationality. Prof. Donald Davidson, University of Chicago.
Both lectures are in Lecture Hall 2, Woodward Instructional Resources Centre at 8:15 p.m.



SUNDAY, MARCH 22

B.C. Gardens.
Tenth in a series of CBC television programs featuring the UBC Botanical Garden as an anchor point for a province-wide look at horticulture. Hosts: David Tarrant, Botanical Garden educational co-ordinator, and CBC personality Bob Switzer. Today's program looks at Cominco Gardens, Kimberley. CBC, Channel 3, 11:30 a.m.
Benefit Organ Recital.
Benefit recital for the SOS Children Villages in Africa, Asia and Latin America. Recital by Prof. H.J. Weinitschke, a visiting professor of mathematics at UBC. St. Andrew's Wesley Church, 1012 Nelson Street. 3:00 p.m.

MONDAY, MARCH 23

Cancer Research Seminar.
Immune Complexes and Cancer. Dr. Fernando A. Salinas, Advanced Therapeutics department, C.C.A.B.C. and Pathology, UBC. Lecture Theatre, B.C. Cancer Research Centre, 601 W. 10th Ave. 12:00 noon.
Planetary Economics Series.
Children of Peru. Room 308, Library Processing Building. 12:30 p.m.
Anna Wyman Dance Company.
Sponsored by the Alma Mater Society. Admission is free. Ballroom, Student Union Building. 12:30 p.m.
World University Services of Canada.
"Miracle - The Price of a Development." Part of a series on international development. Room 205, Buchanan Building. 12:30 p.m.

Sigma XI Lecture.
Malnutrition in Brazil: A Scientific and Cultural Perspective. Prof. Indrajit D. Desai, Human Nutrition, UBC. Lecture Hall 3, Woodward Instructional Resources Centre. 12:30 p.m.
Asian Centre Inaugural Activities.
A Himalayan Experience: slide show by Prof. Vinod Modi, internationally acclaimed photographer. Room 102, Lasserre Building. 3:30 p.m.

Mechanical Engineering Seminar.
Some Problems Based on Applications of Fluid Sheets and Fluid Jets. Dr. P.M. Naghdi, Mechanical Engineering, Berkeley, Calif. Room 1215, Civil and Mechanical Engineering Building. 3:30 p.m.

Biochemistry Seminar.
The Structure and Function of the Gene for Iso-Cytochrome C in Yeast. Andrew Spence, Biochemistry, UBC. Lecture Hall 3, Woodward Instructional Resources Centre. 4:00 p.m.

Astronomy Seminar.
The Quasar Luminosity Function and The Origin of the Diffuse X-Ray Background. Dr. Bruce Margon, Astronomy, University of Washington, Seattle. Room 318, Hennings Building. 4:00 p.m.

Zoology "Physiology Group" Seminar.
Neuronal Cell Lineages, Cell Death and Pathway Selection by Growth Cones. Dr. C.S. Goodman, Biological Sciences, Stanford University, Calif. Room 2449, Biological Sciences Building. 4:30 p.m.

International House.
English Language Evening. Gate Four, International House. 7:30 p.m.

1981 Evening at "Pops."
Annual concert featuring the UBC Wind Symphony, directed by Martin Berinbaum; with guests UBC Chamber Singers, directed by Cortland Hultberg; and soloists Donald Brown, baritone, and Debra Parker, soprano. Ballroom, Student Union Building. 8:00 p.m.

TUESDAY, MARCH 24

Obstetrics and Gynaecology Guest Speaker/Grand Rounds.
Autogenic Therapy in Gynaecology and Obstetrics: Indications and Results. H.J. Prill, president, International Society of Psychosomatic Obstetrics and Gynaecology. Introduction by Dr. Wolfgang Luthe, SFU. Lecture Hall B, Heather Pavilion, Vancouver General Hospital. 8:00 a.m.

B.C. Section of IADR Dentistry Seminar.
Some Specific Relations Between Oral Sensory Inputs and Responses of the Mouth. Dr. Y. Kawamura, professor and head, Oral Physiology, Osaka University Dental School. Room 388, Macdonald Building. 12:00 noon.

Distinguished Visitors Program/Political Science Lecture.
The Organization of Space and the Individual's Freedom - Partitions and Networks. Prof. Jean Gottmann, Geography, University of Oxford. Room 100, Buchanan Building. 12:30 p.m.

Weekly Weather Briefing.
Weekly lunch hour weather map discussions are held every Tuesday. All interested students, faculty and staff are invited to attend. Room 215, Geography Building. 12:30 p.m.

Asian Research Noon-Hour Series.
Daisetz Suzuki and Buddhism, Man and Nature. Room 106, Buchanan Building. 12:30 p.m.

International House Films.
Switzerland and The Swiss Year. Admission is free. Room 400, International House. (Films will be repeated tonight at 8:00 p.m.) 12:30 p.m.

Botany Seminar.
Natural Regulators of Fungal Development. Prof. Edward G. Trione, Botany and Plant Pathology, Oregon State University, Corvallis. Room 3219, Biological Sciences Building. 12:30 p.m.

Electrical Engineering Seminar.
Microwave Radio Design at Microtel Pacific Research Limited. Dr. J.L. Fikart, Microtel Pacific Limited. Room 402, Electrical Engineering Building. 1:30 p.m.

Pharmaceutical Sciences Seminar.
Pathophysiology of Cardiac ischemia: Experimental Studies on Myocardial Preservation. Dr. John T. Flaherty, Medicine, Johns Hopkins University School of Medicine. Room B84, Cunningham Building. 2:30 p.m.

Distinguished Visitors Program/Philosophy Seminar.
Towards a Unified Theory of Speech and Action. Prof. Donald Davidson, University of Chicago. Penthouse, Buchanan Building. 3:30 p.m.

Oceanography Seminar.
Seasonality in B.C. Lakes, with Examples from Kamloops and Kootenay Lakes. Dr. E.C. Carmack, National Water Research Institute, West Vancouver, B.C. Room 1465, Biological Sciences Building. 3:30 p.m.

Physiology Seminar.
The Origin of Slow Currents in Cardiac Muscle. Dr. E.A. Johnson, Duke University Medical Center, Durham, N.C. Room 2605, Block A, Medical Sciences Building. 4:30 p.m.

Chemistry Research Conference Series.
Through the Quartz Looking Glass. Dr. G.B. Porter, Chemistry, UBC. Room 250, Chemistry Building. 4:30 p.m.

Planning Association Debate.
Resolved that Central Planning Should Have More Influence in Societal Decision-Making. Dr. Walter Block, The Fraser Institute, vs. Bruce Yorke, Alderman. The audience will vote before and after the debate. Room 110, Angus Building. 7:00 p.m.

UBC Public Affairs.
The Oil Companies and Anti-Combines Legislation in Canada. Dr. William Stanbury, Commerce, UBC, with host Gerald Savory. Cable 10, Vancouver Cablevision. (Program will be repeated on March 25 at 3:00 p.m.) 9:00 p.m.

WEDNESDAY, MARCH 25

Hewitt Bostock Lecture.
The Detective Story from Ancient to Modern. Julian Symons, author, Kent, England. Room 102, Buchanan Building. 12:30 p.m.

Ascent of Man Series.
Generation upon Generation. Room 308, Library Processing Building. 12:30 p.m.

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

Simulation and Modelling in Science.
Benford's Law: A Scale for All Seasons. Dr. James V. Whittaker, Mathematics, UBC. Room 105, Mathematics Building. 12:30 p.m.

The Doctor and the Others Series.
Pre-Scientific Public Health and Preventive Medicine. Dr. John Norris. T.B. Auditorium, Vancouver General Hospital. 12:30 p.m.

Distinguished Visitors Program/Philosophy Seminar.
First-Person Authority. Prof. Donald Davidson, University of Chicago. Penthouse, Buchanan Building. 3:30 p.m.

Physiology Seminar.
Synthesis and Structure-Activity Studies on Conformationally Restricted Analogues of GABA. Dr. R.D. Allan, Pharmacology, University of Sydney, Australia. Room 2605, Block A, Medical Sciences Building. 4:30 p.m.

Zoology Seminar (Spencer Memorial Lecture).
Population Biology of Checkered-Spot Butterflies: Testing a Theory in the Field. Dr. Paul Ehrlich, Biology, Stanford University. Room 2000, Biological Sciences Building. 8:00 p.m.

Special Centenary Concert.
Music of Bela Bartok. Robert Silverman, Jane Coop and Robert Rogers, piano; John Loban, violin; and John Rudolph and Tony Phillips, percussion. Tickets are \$3; \$2 for students. Recital Hall, Music Building. 8:00 p.m.

Distinguished Visitors Program/Psychology Lecture.
Characteristics of an Upgraded Mind: Ape vs. Child. Prof. David Premack, Psychology, University of Pennsylvania. Lecture Hall 2, Woodward Instructional Resources Centre. 8:00 p.m.

THURSDAY, MARCH 26

Psychiatry Lecture.
Depressive Illness in Childhood. Dr. Dennis Cantwell, Psychiatry, UCLA. Lecture Theatre, Health Sciences Centre Hospital. 9:00 a.m.

Medical Grand Rounds.
Diabetes Mellitus: Principles of Modern Therapy and Practice. Dr. K.G. Dawson. Lecture Hall B, Vancouver General Hospital. 9:00 a.m.

Biochemical Diseases Seminar.
Maple Syrup Urine Disease. Dr. L. Chan. Population Pediatric Conference Room, Children's Hospital, 250 W. 59th Ave. 11:30 a.m.

Health Sciences Career Day.
Sponsored by the Health Sciences Students Committee for students in Medicine, Dentistry, Pharmacy, Dietetics, Nursing, Pre-Med, Rehabilitation Medicine and Social Work (health option). Main Foyer, Student Union Building. 12:30 p.m.

UBC Contemporary Players.
Music of Benjamin, Milhaud and Knox. Stephen Chatman, director. Recital Hall, Music Building. 12:30 p.m.

Academic Women's Association.
Personnel Matters. A presentation and discussion on appointment, re-appointment, promotion, tenure and grievance. Non-members welcome. Penthouse, Buchanan Building. 12:30 p.m.

Distinguished Visitors Program/Political Science Lecture.
The Metamorphosis of the Modern Metropolis. Prof. Jean Gottmann, University of Oxford. Room 100, Buchanan Building. 12:30 p.m.

Asian Research/Southeast Asia Seminar.
The Philippines: The Way Ahead. Rod Haynes, Ph.D. student, Geography, UBC. Room 230, Buchanan Building. 12:30 p.m.

The Doctor and the Others Series.
Preventive and Occupational Medicine in the Scientific Era. Dr. John Norris. Lecture Hall B, Vancouver General Hospital. 12:30 p.m.

Academic Women's Association.
AWA business meeting. Annual reports and election of executive. Send nominations to Penny Gouldstone, Education, by Monday, March 23. Penthouse, Buchanan Building. 1:30 p.m.

Physics Condensed Matter Seminar.
Domains in The Spin-Density-Waves Phases of Chromium. Ed Fenton, NRC, Ottawa. Room 318, Hennings Building. 2:30 p.m.

Psychology Colloquium.
Intelligence and Language in Ape and Child. Dr. David Premack, Psychology, University of Pennsylvania. Room 102, Buchanan Building. 3:30 p.m.

Distinguished Visitors Program/Philosophy Seminar.
A Coherence Theory of Meaning and Knowledge. Prof. Donald Davidson, University of Chicago. Penthouse, Buchanan Building. 3:30 p.m.

Physics Colloquium.
The Infrared Spectrum of H₂⁺. Dr. T. Oka, NRC, Ottawa. Room 201, Hennings Building. 4:00 p.m.

Physiology Seminar.
Synaptic Biochemistry of Substance P. Dr. Michael Hanley, Helen Hay Whitney Fellow, MRC Neurochemical Pharmacology Unit, Cambridge. Room 2605, Block A, Medical Sciences Building. 4:30 p.m.

Asian Research China Seminar.
Contemporary Chinese Thought and the Problem of Socialism. Dr. Arif Dirlik, History, UBC. Penthouse, Angus Building. 4:30 p.m.

Subfilms.
Showings. Continues until Sunday, March 29. Showings are tonight at 7:00 p.m., 7:00 and 9:30 p.m. on Friday and Saturday, and 7:00 p.m. on Sunday. Admission is \$1 with AMS card. Auditorium, Student Union Building.

International House.
German Language Evening. Gate Four, International House. 7:30 p.m.

Engineering Education in B.C. Discussion.

A panel discussion with the Canadian Society for Chemical Engineering. Speakers: Dean L.M. Wedepohl, UBC; Mr. S.J. Cunliffe, UVIC; Dr. T.W. Calvert, SFU; and P.T. Seabrook, A.P.E. of B.C. Moderator: Dr. Mike Papis. Admission is free. Visitors welcome. Oak Room, Sheraton Plaza 500 Hotel, 12th Ave. and Cambie. 7:30 p.m.

UBC Collegium Musicum.
Music of the Renaissance and Early Baroque. John Chappell and John Sawyer, co-directors. Recital Hall, Music Building. 8:00 p.m.

FRIDAY, MARCH 27

Management Science Seminar.
Non-Technical Factors in the Success and Failure of Operations Research. J.E. Roberts, B.C. Research. Room 210, Angus Building. 10:00 a.m.

Developmental Medicine Seminar.
The Ovarian Surface (Germinal) Epithelium: Historical, Developmental and Clinical Significance. First Floor Seminar Room, Willow Pavilion, Vancouver General Hospital. 12:30 p.m.

UBC Collegium Musicum.
Music of the Renaissance and Early Baroque. John Chappell and John Sawyer, co-directors. Recital Hall, Music Building. 12:30 p.m.

History Lecture.
Metis Land Claims and the Northwest Rebellion. Prof. Thomas E. Flanagan, Political Science, University of Calgary. Room 202, Buchanan Building. 12:30 p.m.

The Doctor and the Others Series.
Medical Social Responsibility: Its Roots and Development. Dr. John Norris. Lecture Hall B, Vancouver General Hospital. 12:30 p.m.

Medical Genetics Seminar.
Folate Metabolism in Psychological Disease. Dr. R. Shulman. Fourth Floor Conference Room, Health Centre for Children. 1:00 p.m.

Chemical Engineering Seminar.
Sedimentation Potentials in Hindered Settling of Fine Particles. E. Tackie. Room 206, Chemical Engineering Building. 3:30 p.m.

Distinguished Visitors Program/Political Science Lecture.
The Inadequacy of Modern Population Counts. Prof. Jean Gottmann, Geography, University of Oxford. Penthouse, Buchanan Building. 3:30 p.m.

Linguistics Colloquium.
Grammatical Phrases and Lexical Phrases. Prof. Andre Martinet, Universite de Paris, France. Room 2225, Buchanan Building. 3:30 p.m.

Rowing Team Reunion.
Reunion banquet at the Dogwood Room of the Pacific National Exhibition for members of past UBC rowing teams. Special guests will be graduates who were members of the UBC four- and eight-man crews that won gold and silver medals at the 1956 Olympics in Melbourne, Australia. Tickets and information, 228-2503. 6:00 p.m. for 7:00 p.m.

International House.
Folk Night. Contemporary and traditional music. Gate 4, International House. 7:00 p.m.

Centre for Continuing Education Lecture/Discussion.

The Nature of Attitudinal Healing. Dr. Gerald G. Jampolsky, director, Centre for Attitudinal Healing, Tiburon, California. Admission is \$4; \$3 for students (free for those attending 'A Day with Dr. Jampolsky' - see listing for Saturday, March 28). Lecture Hall 2, Woodward Instructional Resources Centre. 8:00 p.m.

UBC Opera Theatre and UBC Symphony Orchestra.
Mozart's Cosi fan tutti. Prof. French Tickner, director. Old Auditorium. 8:00 p.m.

UBC CALENDAR continued from page 7

SATURDAY, MARCH 28

Fine Arts Graduate Student Symposium.

A series of eight talks presented by UBC Fine Arts graduate students and graduate students from other universities on a variety of art historical topics. Fee is \$5 (at the door) and includes lunch. Room 102, Lasserre Building. 9:00 a.m. to 4:30 p.m.

Centre for Continuing Education Seminar.

A Day with Dr. Jampolsky: Teach Only Love. An opportunity for a deeper treatment and discussion of the philosophy and procedures behind attitudinal healing. Fee is \$30; \$25 for students (this includes free admission to the Friday night lecture). For more information, call 228-2181, local 261. Lecture Hall 6, Woodward Instructional Resources Centre. 10:00 a.m. to 4:00 p.m.

UBC Opera Theatre and UBC Symphony Orchestra.

Mozart's *Così fan tutti*. Prof. French Tickner, director. Old Auditorium. 8:00 p.m.

SUNDAY, MARCH 29

UBC Invitational Rowing Regatta.

UBC has invited crews from Washington and Oregon for this annual event on Burnaby Lake. Events get underway at 8:00 a.m. with finals scheduled for approximately 1:00 p.m.

B.C. Gardens.

Eleventh in this series of CBC television programs featuring the UBC Botanical Garden as an anchor point for a province-wide look at horticulture. Hosts: David Tarrant, Botanical Garden educational co-ordinator, and CBC personality Bob Switzer. Today's program looks at Victoria Allotment Gardening. CBC, Channel 3. 3:00 p.m.

MONDAY, MARCH 30

Creative Writing/Germanic Studies Speaker.

A reading by one of Austria's most influential contemporary authors, H.C. Artmann. Room 204, Buchanan Building. 12:30 p.m.

Applied Mathematics Seminar.

1) Data Fitting: Least Sums of Absolute Deviations. Prof. Richard Bartels, Computer Science, University of Waterloo. Room 203, Mathematics Building. 3:45 p.m.

Astronomy Seminar.

Gamma Rays, Pulsars, and Supernova Remnants. Prof. V. Radhakrishnan, director, The Raman Research Institute, Bangalore, India. Room 318, Hennings Building. 4:00 p.m.

Biochemistry Seminar.

Action of Detergents on Membrane Structure. Kathleen Alexander, Biochemistry, UBC. Lecture Hall 3, Woodward Instructional Resources Centre. 4:00 p.m.

Speech Act Theory Seminar.

Talking About Talk Between Adults and Children. Dr. Gordon Wells, Centre for the Study of Language and Communication, Bristol University School of Education. Room 2415, Scarfe Building, UBC. 4:30 p.m.

Zoology "Physiology Group" Seminar.

Electrophysiology of Na⁺ Transport Across a Mammalian Epithelium. Dr. S.A. Lewis, Physiology, Yale University, New Haven, Connecticut. Biological Sciences Building. 4:30 p.m.

International House.

English Language Evening, Gate Four, International House. 7:30 p.m.

UBC Opera Theatre and UBC Symphony Orchestra.

Mozart's *Così fan tutti*. Prof. French Tickner, director. Old Auditorium. 8:00 p.m.

TUESDAY, MARCH 31

International House.

Fitness Awareness Week. Dancerize demonstration and participation event with Terpsichore. Admission is free. Upper Lounge, International House. 12:30 p.m.

Weekly Weather Briefing.

Weekly lunch hour weather map discussions are held every Tuesday. All interested students, faculty and staff are invited to attend. Room 215, Geography Building. 12:30 p.m.

International House Films.

John Hooper's *Way With the Wood* and *Fort Good Hope*. Admission is free. (Both films will be repeated at 8:00 p.m. tonight.) Room 400, International House. 12:30 p.m.

Slavonic Studies Lecture.

Alcoholism in the Soviet Union: Political and Economic Consequences. Prof. David Powell, Harvard University. Room 102, Buchanan Building. 12:30 p.m.

Electrical Engineering Seminar.

Federal Government Support for Research, Innovation and Product Development. John Wiebe, Industry, Trade and Commerce, Government of Canada. Room 402, Electrical Engineering Building. 1:30 p.m.

Slavonic Studies Seminar.

Public Policy in the Soviet Union: The Politics of Aging. Prof. David Powell, Harvard University. Room 2202, Buchanan Building. 3:30 p.m.

Biomembrane Discussion Group Seminar.

Export of Protein in E.coli. Dr. L.L. Randall, Biochemistry, University of Washington, Seattle. Lecture Hall 1, Woodward Instructional Resources Centre. 4:00 p.m.

Museum of Anthropology Films.

"Celebration of the Raven", a film documenting the production of Bill Reid's sculpture, Raven and the First Men, and "A Very Special Building", a film made by UBC Library employee Bianca Barnes about the creation of the Museum of Anthropology, will be shown in the theatre gallery of the Museum. 4:00 p.m.

Language Education Lecture.

Some Antecedents of Early Educational Attainment. Dr. Gordon Wells, Centre for the Study of Language and Communication, Bristol University School of Education. Room 226, Angus Building. 4:30 p.m.

Chemistry Research Conference Series.

Dr. D.F. Shriver, Chemistry, Northwestern University, Evanston. Room 250, Chemistry Building. 4:30 p.m.

Fine Arts Gallery.

Opening of Pork Roasts, a display of 250 feminist cartoons in the UBC Fine Arts Gallery, located in the basement of Main Library. 8:00 to 10:00 p.m.

UBC Opera Theatre and UBC Symphony Orchestra.

Mozart's *Così fan tutti*. Prof. French Tickner, director. Old Auditorium. 8:00 p.m.

WEDNESDAY, APRIL 1

International House.

Fitness Awareness Week. Meditation and Physical Fitness. Alan Hockley. Admission is free. Upper Lounge, International House. 12:30 p.m.

Wednesday Noon-Hour Concert.

The complete solo piano music of Brahms. Recital No. 4. Robert Silverman, piano. To be recorded by the CBC. Recital Hall, Music Building. 12:30 p.m.

Ascent of Man Series.

The Long Childhood. Room 308, Library Processing Building. 12:30 p.m.

Immunology Seminar Group.

Antigen and Receptor Initiated Regulation of Immunity. Dr. Mark Green, Pathology, Harvard Medical School, Boston, Mass. Salon B, Faculty Club. 8:00 p.m.

THURSDAY, APRIL 2

Medical Grand Rounds.

Benign Prostatic Hypertrophy. Dr. N. Bruchofsky, Medical Oncology, C.C.A.B.C. Lecture Hall B, Vancouver General Hospital. 9:00 a.m.

University Singers.

Carl Orff, *Carmina Burana*. Directed by James Schell. Recital Hall, Music Building. 12:30 p.m.

International House.

Fitness Awareness Week. Free fitness testing with Action B.C. Admission is free. Upper Lounge, International House. 12:30 p.m.

Special Lecture.

Gas Chromatography — Mass Spectrometry and High Resolution Two Dimensional Electrophoresis: New Possibilities in Studies on Human Diseases. Prof. Egil Jellum, University of Oslo, Norway. Sponsored by The Faculty of Medicine, the Biochemical Discussion Group, The Biomembranes Discussion Group, the Immunology Seminar Group and the Pulmonary Research Seminar Group. Lecture Hall 6, Woodward Instructional Resources Centre. 12:30 p.m.

Faculty Association Meeting.

Room 100, Mathematics Building. 1:00 p.m.

Physics Condensed Matter Seminar.

Conduction in Low Dimensional Metals. David Thouless, University of Washington. Room 318, Hennings Building. 2:30 p.m.

Biochemical Discussion Group Seminar.

Multiple Controls of Integration-Excision by Phage λ: Transcription, Translation, Catalysis. Dr. Harrison Echols, Virus Laboratory, UCLA, Berkeley, California. Lecture Hall 5, Woodward Instructional Resources Centre. 4:00 p.m.

Physics Colloquium.

Ice Age Climatic Variability and the Music of the Planets. Dr. N. Shackleton, Godwin Laboratory, Cambridge University, England. Room 201, Hennings Building. 4:00 p.m.

Health Research Panel Discussion.

How to Succeed in Health Research. Chairman: Dean William Webber, Medicine, U.B.C. Panel members: Dr. John Brown, Physiology, UBC, on Regulation of Insulin Secretion by Gastrointestinal Hormones; Dr. Peter Pare, Medicine, UBC, on Asthma and Smoke-Induced Lung Disease; and Dr. Stephen Drance, Ophthalmology, UBC, on New Developments in Assessment of Glaucoma. Open to the public. Sponsored by Canadians for Health Research. Robson Square Theatre. 8:00 p.m.

FRIDAY, APRIL 3

International House.

Fitness Awareness Week. Holistic Arts and Sciences Centre offer a yoga and fitness demonstration including Tai Chi, Hanuma Cub (fitness), Fast Asanas, traditional yoga poses and breathing. Admission is free. Lower Lounge, International House. 12:30 p.m.

Biomembranes Discussion Group Seminar.

A Fresh Look at the Protein-Lipid Interface. Dr. P.L. Yeagle, Biochemistry, State University of New York, Buffalo, N.Y. Room 4210, Block A, Medical Sciences Building. 12:30 p.m.

Medical Genetics Seminar.

Range of Diseases Discovered by the Biochemical Diseases Laboratory in a 10-Year Period. Dr. D.A. Applegarth, Fourth Floor Conference Room, Health Centre for Children. 1:00 p.m.

Management Science Seminar.

Sufficient Optimality Conditions in Nonlinear Programming. Prof. Jochem Zowe, Mathematics, University of Bayreuth, W. Germany. Room 412, Angus Building. 3:30 p.m.

Chemical Engineering Seminar.

Modelling a Fixed-Bed Electrochemical Reactor. C.W. Oloman. Room 206, Chemical Engineering Building. 3:30 p.m.

Linguistics Colloquium.

Variables in Vancouver English. Robert J. Gregg, professor emeritus, Linguistics, UBC. Room 2225, Buchanan Building. 3:30 p.m.

International House.

Farewell Dinner and Dance with a live band. Free Tickets for I.H. Student Members Graduating This Year. Upper Lounge, International House. 6:00 p.m. - 1:00 a.m.

University Singers.

Directed by James Schell. Repeat program of April 2nd. Recital Hall, Music Building. 8:00 p.m.

Notices...

Science Academic Counselling

Academic advice re. programs in Science should be obtained from departmental advisers prior to the end of term. Lists of advisers are available at the departmental offices and at the Office of the Dean of Science. (Note: B.Sc. General Program advice is available at the Office of the Dean.)

Nitobe Garden Hours

Nitobe Garden will be open 10 a.m. to 3 p.m. weekdays, and from 10 a.m. to half an hour before sunset weekends.

Food Service Hours

The following food service hours will be in effect for the month of April: The Auditorium Snack Bar, Barn Snack Bar, Education Snack Bar and IRC Snack Bar will be open from 8:00 a.m. to 3:30 p.m. The Ponderosa Snack Bar will be open from 9:00 a.m. to 3:45 p.m. The Bus Stop Coffee Shop will be open 7:45 a.m. to 7:00 p.m. Monday through Friday and from 10:00 a.m. to 3:30 p.m. on Saturdays beginning April 6. The Buchanan Snack Bar will be closed from April 6. The Student Union Building will provide a limited snack bar service from 8:00 a.m. to 3:30 p.m. in the main foyer of the building beginning April 6 due to renovations.

Fine Arts Gallery

The Exoskeletons of Evil, an exhibition by Jan Menses runs until March 28 in the UBC Fine Arts Gallery, located in the basement of the Main Library. Pork Roasts, a display of 250 feminist cartoons will be exhibited from April 1 to May 2. (The gallery will be closed April 17-20.) Deadline for a caption contest for feminist cartoons is April 24. More information is available from the Fine Arts Gallery.

AMS Gallery

An exhibition of paintings by students in UBC's art education department will be on display until March 27, including Saturday, March 21. From March 31 to April 3 the gallery will be presenting an exhibition of works by art education graphics students entitled The 13th Annual Print Show Sale. This exhibit will be open from 9 a.m. to 8 p.m. For further information, call Joyce Woods at 254-3074. The AMS Gallery is located in the Student Union Building.

Food Services Catering.

Members of the University community who will require on-campus catering between April and September are asked to note that catering manager Helen Wilden will be relocated from her regular office in the Student Union Building, which will be undergoing extensive renovations in the spring and summer. Her office during April will be in the kitchen area of the Walter Gage Residence and from May until September her office will be in the south tower committee room of the Gage Residence. She can be reached by trying the following campus telephone numbers: 228-5494 or 228-2616.

Bookstore Inventory

The Bookstore will be closed for an annual inventory on Wednesday, April 1 and Thursday, April 2. The last day for accepting requisitions for stationary, office supplies etc. will be March 27.

Faculty and Staff Golf Tournament

All faculty and staff, active and retired, are invited to the 25th annual golf tournament on Thursday, April 30 at the University Golf Course. If you don't play golf, join in later for the silver anniversary dinner at the Faculty Club. Tee-off times are 9 a.m. to 12 noon. Green fees, \$8; dinner, \$17. For advance tee-off reservations, call Dr. Whittle, 228-5047 or 228-3338.

Museum of Anthropology

Exhibits: Salish Art: Visions of Power, Symbols of Wealth; Kwagwilt Graphics: Tradition in a New Medium; West Coast Graphics: Images of Change; Imperial Power: Coins, Keys, Seals, Weights and Sculptures from the Roman and Byzantine Courts. Free Identification Clinics: March 31, April 28 and May 26 from 7:00 to 8:30 p.m. Snake in the Grass Moving Theatre: Clowns Garbanzo and Koko give Sunday performances at 2:00 p.m. until March 29. Free with museum admission. Museum of Anthropology community video programs: Programs air Tuesday evenings at 7:00 p.m. on Cable 10 on March 10, 24 and April 14. Shows will be repeated at 4:30 p.m. on the following Thursdays and at 6:00 p.m. on the following Saturdays. Cable 10 Northshore show the programs 12 days after original broadcasts on alternate Sunday evenings at 10:30 p.m. Museum hours are: noon to 9:00 p.m. on Tuesdays; from noon to 5:00 p.m. Wednesdays through Sundays, and is closed Mondays.

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UBC Reports is published every second Wednesday by Information Services, UBC, 6328 Memorial Road, Vancouver, B.C., V6T 1W5. Telephone 228-5151. Al Hunter, editor. Lorie Chortyk, calendar editor. Jim Banham, contributing editor. ISSN 0497-2929.