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# Great Trekker gala honors Berton

By GAVIN WILSON

Of the multitude of honors and awards Pierre Berton has won during his long and celebrated career, the Great Trekker Award was, in some ways, the most unexpected.

"Back in the days when I was a student at UBC, if you had told me I would be awarded this honor, I would have laughed," he said. "If you had told some of my professors, they would have cried their eyes out."

The well-known author and broadcaster, who admits he was "not the ideal student" when he attended UBC from 1939 to 1941, was feted by about 600 alumni, faculty, staff and students at a gala dinner and dance at the Hotel Vancouver Sept. 27.

He was honored for achieving eminence in his field and for his contributions to the university and community.

The dinner highlighted Thursday's kick-off of UBC's 75th anniversary Homecoming, a week of ceremonies, honors, reunions and sports events.

"I had a wonderful time at UBC," Berton said. "I learned a great deal there, though not always in class. The extracurricular activities at a university are sometimes just as important, sometimes more so."

"They were the happiest years of my life and the great thing was, I knew it at the time."

Kurt Preinsperg, who as Alma Mater Society President presented the award to Berton, said the author's genius is to show the gripping human drama behind historical events.

"Canadians have learned more about Cana-



*Ex-Ubysey reporter and longtime journalist Pierre Berton pounds the keyboard of an old Underwood typewriter, battered fedora at the ready, at a display of memorabilia at the Great Trekker Award gala dinner*

dian history from Pierre Berton than from an army of academic historians," he said.

Berton paid tribute to his wife, Janet Berton, for her many years of love and support. They first met when both worked at the university's student newspaper, the Ubysey.

The evening was also a tribute to the award's namesakes, the original Great Trekkers who, in 1922, marched to support their demands for completion of the Point Grey campus.

Berton saluted the legacy of student participation and initiative the Trekkers left to UBC.

"In 1939, when I first arrived, Brock Hall was being built, and I was impressed to hear that much of the money for construction had been raised by the students themselves," he said.

President David Strangway introduced the seven original Trekkers who attended the dinner, calling them "men and women of determination and vision...who identified the indescribable spirit

of UBC."

"Their actions galvanized the students, faculty and the community at a seminal moment in the university's history. Their achievements are an important yardstick by which we can measure our own accomplishments," he said.

Great Trekker Evelyn Story Lett (BA '17, MA '26) and AMS Great Trekker Award winner Cecil Green, cut the university's 75th anniversary birthday cake.

Earlier in the day, about 65 members of the classes of 1917 to 1926 re-lived the Great Trek, a bus ride along the original route from Downtown Vancouver to Point Grey.

They also attended the Fall Ceremony, where Cecil Green and Walter Koerner were awarded the Chancellor's Medal by UBC Chancellor Leslie Peterson. It is only the second time the medal has been awarded.

Honorary degrees were presented to Beverley McLachlin, a Justice of the Supreme Court of Canada who was a law professor at UBC for four years, and Howard Petch, a UBC alumnus who recently retired as president of the University of Victoria.

Also at the ceremony, Evelyn Lett presented the AMS with the graduation photograph of her late husband, UBC alumnus and former Chancellor Sherwood Lett, and a manuscript copy of his biography.

Mel Reeves, director of the Alumni Association, presented William Webber with the association's Faculty Award for his outstanding service to the community.

## Fee payment formula breaks recreation building deadlock

By GAVIN WILSON

A new fee payment formula has broken the student recreation facility deadlock.

Under a plan approved by the university's Board of Governors, students will have the option of paying an annual \$40 fee to support the new facility.

The fee, proposed by the University's Athletic Council, comes into effect next September.

"There are lot of students who want to contribute to the facility and there are lots of students who don't. This proposal accommodates both groups."

said student board representative Tim Bird, who added he was a strong supporter of the project.

Plans for the facility had been delayed by on-again, off-again student support. Students voted in favor of contributing to the \$10 million sports complex in one referendum, against it in another. There were low voter turnouts at each poll.

"There's absolutely no consensus

### Income passes half billion

UBC's income has passed the half-billion dollar mark for the first time.

The university's total income from all sources totals \$529 million in this year's budget, Bruce Gellatly, Vice-President, Administration and Finance, told Senate.

It is the first time the university's income has surpassed \$500 million. Last year's total income was \$470 million.

Full statement details are available in the 1990 UBC Financial Statements, published as an insert in this issue of UBC Reports.

The statements show that the university's income includes a \$219 million general purpose operating grant, \$86.4 million in sponsored research funding, \$65.7 million for capi-

among the students," Bird said.

At a lengthy meeting the night before the board's decision, the AMS student council passed a resolution giving conditional support to the athletic council plan.

K.D. Srivastava, Vice-President, Student and Academic Services, said he could accept some, but not all, of the students' conditions.

"I have absolutely no problem making sure that there is lots of student input," said Srivastava. "I support the need for student participation at all levels."

Council announced its intention to strike a committee to work with Srivastava.

Bird said there was concern that the recreation fee would set a precedent, effectively becoming a "hidden tax" on students whenever funds for new facilities were needed.

But President David Strangway and Srivastava said the university is empowered to impose such fees specifically for recreation and athletic facilities and services.

Under the plan, graduate and full-time undergraduate students will pay \$40 each year if they choose, while undergraduates registered for less than nine units will pay \$4.50 per unit annually.

The fee will be in effect for five years. A review during the 1995-96

## High school grades indicator of success, UBC study finds

By GAVIN WILSON

High school grade point average is the single best predictor of success in first year studies at university, a UBC study shows.

But Dan Birch, Vice-President, Academic, told Senate that it is only useful when predicting the performance of students entering university directly from high school.

"It is a notoriously bad predictor for those students who are returning to their studies at a later time," he said.

The study will give university faculties information that could be used for admission criteria. Birch said a better knowledge of performance indicators could help reduce the failure rate among first year students.

UBC currently bases admission from high school on an average of nine subjects taken in both Grades 11 and 12.

"This study shows there is no loss of accuracy if we used Grade 12 English and the three best Grade 12 courses other than English," he said.

In Arts, the percentage of students failing declines with increasing entry GPA from more than 20

per cent at the low end to about five per cent for students with entry GPAs above 3.35.

The trend is even more pronounced in Science, where there is a failure rate of more than 40 per cent in the lowest GPA ranges and only two per cent for the top 25 per cent of students.

Grade 11 marks are not as good predictors, except for those students at the upper end of the spectrum, the study showed.

Birch suggested Grade 11 marks could be used to grant earlier admission than is currently available to a small, select group of students.

College grade point averages are "very much less accurate measures of success," Birch said.

Students transferring from colleges to UBC do about as well as continuing UBC students, but their college grades are less accurate predictors of university achievement.

There are significant failure rates even among those with high entry GPAs, Birch said.

The study was conducted by Walter Sudmant, Manager, Institutional Research and Planning.

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Photo by Media Services

The UBC letter people help Dean Jim Richards, chair of the 1990 campus United Way campaign, kick off the annual fundraiser. A goal of \$240,000 has been set for this year's drive which runs until the end of October.

## Recruiting effort pays off

# Grad enrolment up 10 per cent

Both graduate and international undergraduate student enrolments are up significantly from last year, Registrar Richard Spencer told Senate.

While overall enrolment at the university is up about four per cent, the number of graduate students is up about 10 per cent over last year, to 4,281 students, he said, quoting preliminary figures.

Total undergraduate enrolment is up three per cent to 22,620 students, at the time of the Senate report.

This includes 390 international undergraduate students enrolled this year, an increase of 45 per cent over last year.

International undergraduate students still represent only a small fraction — 1.7 per cent — of total undergraduates at the university, up from about one per cent last year, Spencer said.

The increases in graduate and inter-

national undergraduate enrolments reflect efforts made to recruit students from both groups. The university's strategic plan called for increased enrolments in both groups.

The strategic plan says the univer-

sity should increase the number of graduate students to at least 6,000. It also recommended that international students should make up between four and six per cent of the total undergraduate enrolment.

## Annual meeting of Killam Trusts slated for UBC

UBC is playing host to the annual general meeting of the Killam Trusts, Oct. 3-5, as part of the university's 75th anniversary celebrations and in honor of the 25th anniversary of Killam Fellowships at UBC.

"We're very pleased to welcome the Killam trustees and Killam representatives from other institutions to UBC this year," said Dean John Grace of the Faculty of Graduate Studies.

"The intent of the Killam Trusts is to ensure advanced study in a diversity of academic fields. The fellowships that are being awarded at UBC this year live up to the spirit of Izaak and

Dorothy Killam's wishes."

Thirty-eight fellowships have been awarded for the 1990 academic year, including 21 faculty fellowships, which are divided into eight senior and 13 faculty research fellowships. Ten new fellowships have been awarded at the postdoctoral level and seven at the predoctoral level.

The Killam Fellowships, established from the estate of Dorothy J. Killam, are awarded at a number of universities and institutions across Canada. Since 1967, the trusts have awarded more than \$65 million to about 2,700 scholars.

## B.C. doubling its contribution for KAON factory

The B.C. government has doubled its original contribution to the proposed KAON factory at TRIUMF to \$236 million — one-third of the \$693 million needed to build the facility on the UBC campus.

Premier Bill Vander Zalm made the announcement at a special event at the Vancouver Trade and Convention Centre, organized by the Friends of KAON, EBCO Industries, Science World and the provincial government.

Vander Zalm called the KAON factory, "B.C.'s number one project."

With international contributions of \$200 million, the KAON proposal

needs only a funding commitment from Ottawa before going ahead.

The federal government is expected to make a decision on its funding for the project before the end of the year.

The KAON project, a medium-energy particle accelerator for the study of sub-atomic physics, would be constructed at the existing TRIUMF facility.

A feasibility study released earlier this year said the project would create up to 17,000 person-years of employment and generate up to \$1.1 billion of industrial activity during construction alone.

# New chief librarian faces mission with confidence

By GAVIN WILSON

New technologies, disintegrating collections and a space shortage so severe that many books are now in storage instead of on the shelves.

These are just some of the challenges facing UBC's new University Librarian, Ruth Patrick.

Patrick, who took her new position Aug. 1, will also oversee the first major expansion of library space in many years. It is a mission she faces with confidence.

"We already have a very good library resource here. The collections are outstanding and the library staff have an excellent reputation for their dedication and service," she said.

"I'm looking forward to working with them to re-design the library and put together a plan to provide the best library services we can, with the available resources."

The problems faced at UBC are common to the great research libraries in North America. (The UBC library is the second largest research library in Canada and in the top third of the 100 largest on the continent.)

"We are growing at a rate of 90,000 items a year and we don't have the space to put them on the shelves," said Patrick. "We have to expand into new technologies while still taking care of all the previous centuries' worth of information and knowledge."

Materials are now being put into storage in four major areas across campus, a fifth is being sought and compact shelving is used wherever possible. To help ease the space crunch, many materials are acquired on microforms.

"But one solution brings accompanying problems," said Patrick. "We don't have the proper environment here to keep microforms from disintegrating over time."

The main library building, while picturesque, is poorly designed and not up to the demands of the Information Age.

"This building is dysfunctional," she said. "It's impossible to keep materials clean."

The 65-year-old core of the building has been added to over the years, but now lacks adequate electrical and phone lines for the installation of new computer systems.



Patrick

A partial solution is the proposed new library building, which will link the main library with Sedgewick Library. Preliminary plans call for a four-storey building — its lower two floors underground — of about 130,000 gross square feet.

Construction of the \$26.3 million building is expected to begin in early 1993.

Patrick is a Saskatchewan native who did her first undergraduate year at UBC. A graduate of the Library Science doctoral program at the University of California, Berkeley, she has more than 18 years of university and related experience as a professional librarian.

For the last seven years she served as Dean of Library Services at the University of Montana's flagship Missoula campus. She has also worked at Wayne State University in Michigan.

Patrick will use her expertise to draft a strategic plan for the library.

In October, she said, library staff "begin the process of developing a consensus, defining the library's mission, its organizational values and vision for the future."

Patrick hopes to have a prepared document completed — with input from deans, faculty, students, administrators and library employees — by the end of the year.

"I was pleased to see that the president places a high priority on the importance of the library in the UBC Strategic Plan," she said.

"He expressed high expectations for the university and the library. This is a wonderful opportunity to respond to that challenge."

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## Completion date not decided

Continued from Page 1

session will determine whether it should be continued.

Completion date for the recreation facility has yet to be determined.

Bob Wyman, board member and chair of the university's fund raising campaign, said he was "delighted" the facility would now be going ahead.

Contributions made to the recreation facility will be matched dollar-for-dollar by the provincial government.

## Scholarships total \$10 million

Continued from Page 1

tal improvements, \$63.4 million in revenue from ancillary enterprises (such as the Bookstore, Food Services and Student Housing and Conferences), \$57 million in student fees and \$30.8 million in trusts and endowments.

Gellatly also said university scholarships now total \$10 million, up 15 per cent over last year.

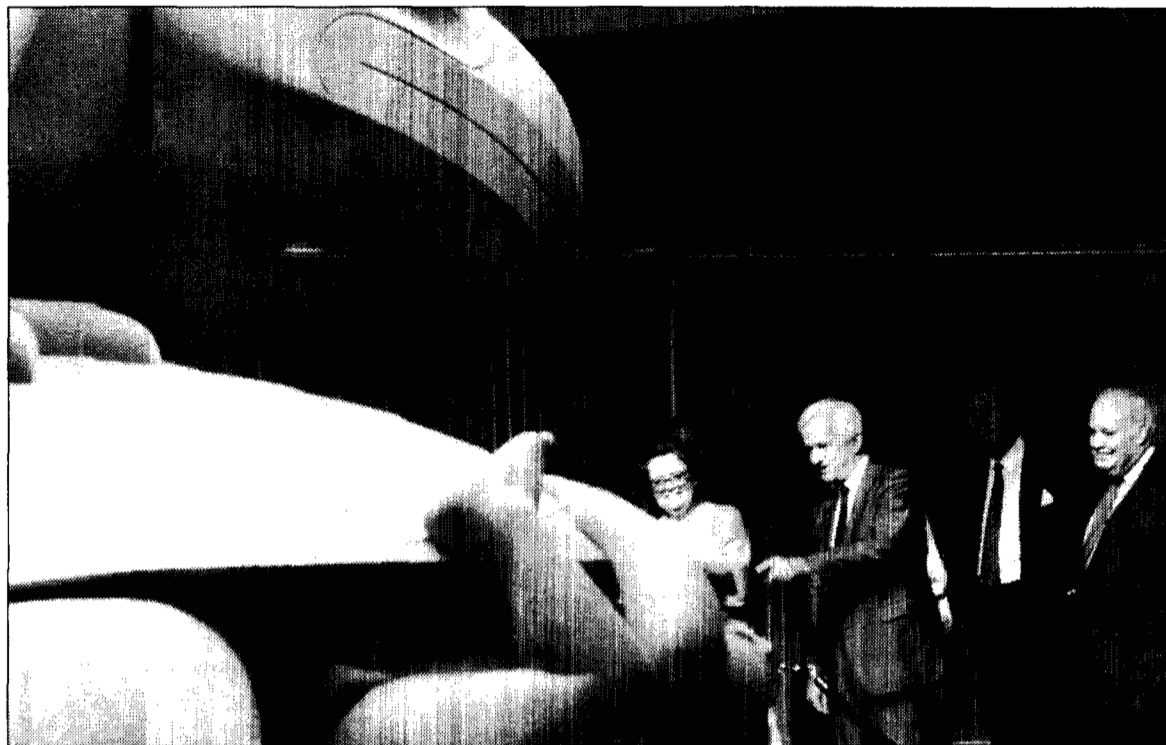


Photo by Larry Scherban

West German President Richard von Weizsacker (second from left) ended a pre-reunification state visit to Canada with a tour of the Museum of Anthropology on Sept. 21. He is seen here viewing Bill Reid's *The Raven* and *The First Men* along with MOA Curator Marjorie Halpern (left) and UBC President David Strangway

# Binkley appointed Dean of Faculty of Forestry

By CONNIE FILLETTI

Clark Binkley, former professor of Forest Resources Management at Yale University, has been appointed Dean of UBC's Faculty of Forestry. The appointment is effective from September, 1990 to June, 1996.

Binkley, 40, replaces Robert Kennedy who served as Dean of Forestry for six years.

"Dean Binkley's distinguished academic career, combined with his expertise in the areas of resource management and environmental studies, are tremendous assets that both the university and the Faculty of Forestry will benefit from," said UBC President David Strangway.

Beginning his teaching career at Yale in 1978, Binkley remained with the university until his UBC appointment in July.

"The Faculty of Forestry at UBC has the opportunity to become the best in the world," said Binkley.

"We have excellent faculties in such related areas as science, commerce and the arts, strong commitment of the university, and excellent support from the province as typified by the new \$40 million Forest Science Centre. Our challenge is to realize this opportunity."

Binkley is a member of several national organizations including the American Association for the Advancement of Science and the Society of American Foresters. In addition, he is a member of the National Academy of Sciences Panel on Policy Implications of Greenhouse Warming.



Binkley

Binkley has served as a consultant to a large number of forest products firms, governmental agencies and private conservation groups. In 1985 he worked at the International Institute for Applied Systems Analysis in Laxenburg, Austria, on a forest sector project.

He has lectured at many major North American universities, as well as those in Finland, Sweden, West Germany and the Soviet Union. He currently serves as a consultant to the World Bank on forest products, marketing and trade aspects of the forthcoming World Bank Forest Policy.

His area of research is the application of economics to problems arising in public and private management of forest resources.

He is also an authority on the population dynamics of the endangered North American whooping crane.

Binkley is a graduate of Yale where he received his doctorate in Forestry and Environmental Studies in 1979.

He studied applied mathematics during his undergraduate years at Harvard, graduating cum laude in 1971. He also received a Master of Science degree in Engineering from Harvard in 1976.

Other members of the head table included President David Strangway and Mrs. Alice Strangway and Chancellor Les Peterson and Mrs. Agnes Peterson. B.C. Lieutenant-Governor David Lam, in attendance with Mrs. Dorothy Lam, encouraged UBC to develop a new generation of Great Trekkers who would lead the university's foray into the Pacific Rim.

The head table was not without its fun-seekers, either. Alumni Association Executive Director Deborah Apps and husband George Apps were conspicuous in their merriment and general enjoyment level.

Also unaware of the no-fun-at-formal-events bylaw were Peig McTague, chair of the Gala Dinner and legal beagle with Norton, Stewart and Scarlett, and AMS President Kurt Preinsberg.

Favorite son status for the evening was probably a toss-up between Pierre Berton

# Berton receives Trekker award

By RON BURKE

A spectacular sea of formal wear and period costumes adorned a festive gathering of what can only be described as UBC royalty at the Hotel Vancouver last Thursday evening.

The annual Gala Great Trekker Dinner and Dance was the occasion, this year's version having the extra dimension of the university's 75th anniversary celebrations.

The Great Trekker Award is presented annually to a graduate for service to the community

and eminence in his or her field.

This year's recipient is author and broadcaster Pierre Berton, class of '41, and notorious Ubyssy Tuesday editor and lecture-skipper during his days as an under-graduate.

In accepting the award, Berton stressed the importance of students gaining the maximum benefit from their extra-curricular activities while at university.

Berton's after-hours pursuits included romancing Ubyssy Friday editor Janet Walker, whom he subsequently married and who accompanied him to the dinner. Berton credited her with much of his success.

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Favorite son status for the evening was probably a toss-up between Pierre Berton

and long-time UBC benefactor Cecil Green, co-recipient of the 1984 Great Trekker Award with Mrs. Ida Green.

But the sentimental favorites had to be the veterans of the original Great Trek of 1922. The trekkers present were: Mrs. Sherwood Lett, class of '17 and recipient of the 1965 Great Trekker Award; Mrs. Constance Adams, class of '23, who came all the way from England for the dinner; Ted Arnold, class of '27, who made the trip from New Jersey; Dr. Joseph Kania, class of '26; Arthur Gordon, class of '27; Joyce McDonagh, who joined the trek as a 15 year-old, first-year student; and Harry Warren, class of '26 and 1968 recipient of the Great Trekker Award.

Some of the trekkers are slowing down a little, though: Mrs. Lett, 93 years young, only attended three Homecoming functions last Thursday and then performed the honors with Cecil Green during the cutting of UBC's 75th birthday cake; Ms. McDonagh, at 83, enjoyed the evening and then, when it was time to go, simply hopped into a cab; and Dr. Warren admits that he has cut back his daily office hours at UBC — now he only works from 9 a.m. to 3:30 p.m.

Was there something in the water that day in 1922? We should all have their energy.

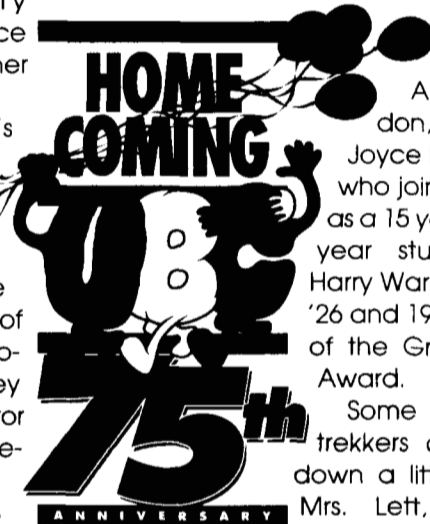
BC ASIAN REVIEW 75TH ANNIVERSARY ISSUE

A special double issue of the BC Asian Review is now available from the Department of Asian Studies.

In honor of the university's 75th anniversary, the review's feature piece is **Glowing Coals: The first twenty-five years of the Department of Asian Studies at The University of British Columbia**, by department head Daniel Overmyer.

Other highlights include retrospectives on four recently retired faculty members and 15 research articles and translations by UBC students, alumni and faculty.

The review, 380 pages of literature, commentary and UBC history, is available for \$12 in Rm. 403 of the Asian Centre.



## Special 75th Anniversary Issue of BC Asian Review

A 380-page journal of graduate research, the BC Asian Review includes a history of the department, research articles and translations by UBC students, alumni and faculty.

Copies are available for \$12.00 from the Dept. of Asian Studies, Room 403, Asian Centre.

## Counselling Psychology Colloquium

"Migration Stress"  
Dr. Anita Mak

Date: Thursday, October 11, 1990  
Time: 12:30 to 1:30 p.m.  
Place: Room 102, 5780 Toronto Rd., UBC

Everyone Welcome!  
For information call 228-5259

## Brink made Officer of Canada

Plant Science Professor Emeritus Vernon Brink was named an officer of the Order of Canada earlier this month.

Brink was recognized for his wide-ranging contributions to groups and organizations dedicated to natural history and conservation.

He has received numerous awards and acclaim for his contributions to the establishment of Kluane National Park in the Yukon, Prairie Grassland Park in Saskatchewan, Minnekhada Regional Park in Port Coquitlam and Pacific Spirit Regional Park. He has also been involved in the Skagit River conservation group and VanDusen Botanical Gardens.

Brink joined UBC as an instructor in the Department of Agronomy in 1940. He received both his bachelor and master's degrees at UBC.



# PROPOSED ACTIONS REGARDING SAFETY AND OTHER ISSUES PARTICULARLY AFFECTING WOMEN ON THE UBC CAMPUS

1915 - 1990



ANNIVERSARY

As President, I took the initiative early this year to meet with about 80 people, mostly women faculty, staff and students, in small focus groups, to identify issues of particular concern to women. Out of those meetings and further consultation I have identified a number of steps which have been and will be taken to enhance the environment for all members of the UBC community and especially for women. These steps will be elements in a larger strategy to which I have assigned a very high priority.

## 1. Issues of priority and organizational structure

1.1 I have created the office of Advisor to the President on Women's Issues and Gender Relations. The position will be posted immediately and the person appointed will report through the Vice President Academic and Provost. Not only will this new office play a key role in developing policies and procedures, but it will provide us with a capacity for responding to individual concerns.

## 2. Issues related to the physical environment (physical safety issues centre largely around parking, lighting and on-campus patrols.)

2.1 I have asked the Vice President Administration and Finance to prepare a comprehensive plan for the development of parking policies, practices and facilities de-

signed to enhance safety and security. A draft plan is now the focus of broad consultation on campus. It includes the construction of parking structures close to the campus core, special provisions for night time parking, enhancement of shuttlebus service, and an increase in the number of strategically placed parking attendants.

2.2 We will establish a systematic program for the improvement of campus lighting over the next three years. Such improvements will be charged to the budget for public works and renovations.

2.3 I have asked the Department of Occupational Health and Safety to add issues of personal safety to the mandate of the 83 local safety committees. In addition, I intend to create a President's Advisory Committee on Safety and to ensure the regular reporting of incidents so that the development of policies and procedures will be informed by current knowledge of difficulties arising on the campus.

2.4 I have asked the Department of Student Health Services, in conjunction with the Sexual Assault Service of the Department of Family Practice, to publicize information about help from trained crisis intervention professionals for people who have been assaulted or molested

## 3. Issues of employer/employee relations

3.1 We plan to address those matters of particular concern to female staff, e.g. developmental

leaves and the impact of maternity leave on career advancement.

## 4. Issues of policy and the social environment

4.1 The Sexual Harassment Policy appears to be working well for the purpose intended. The effectiveness of the policy will be monitored and I will increase the budget from two half-time officers (1 FTE) to one full-time and one part-time officer (1.7 FTE) to enable the office to carry out its educational mandate through seminars and workshops.

4.2 We will maintain the recently adopted policy of striving for non-sexist language in communications from the President's Office. We will continue to encourage other units by providing materials which set out issues and provide helpful approaches for gender-inclusive language. We will pursue consideration of the adoption of a University policy on the matter.

4.3 We will work for the establishment of policies and practices designed to reinforce tolerance and understanding and to eliminate discrimination from the working and learning environment. For example, I have established a Task Force on Racism, chaired by the Director of Multicultural Liaison, to recommend policies and practices best suited to UBC.

## 5. Issues of curriculum and other academic matters

5.1 The Vice President Academic and Provost will consult with each faculty to encourage curriculum development designed to enhance the understanding of gender relations and to foster understanding and equality.

5.2 Support will be provided for the establishment of a centre to foster research and education within and across faculties in women's studies and gender relations.

5.3 Priority is being given to funding the development and offering of an enhanced program in women's studies.

## 6. Awareness of the UBC Community

6.1 Leadership and standard setting by all in a position of authority and influence to provide clear direction to others about what is and what is not acceptable behaviour at UBC is needed, and I intend to work with administrators at UBC to develop a policy statement to record UBC's commitment of respect for all individuals, including those who have been disadvantaged by society's past practices and prejudices.

*David Langway*

1915 - 1990



ANNIVERSARY

1915 - 1990



ANNIVERSARY



# Report of the Vice-President Administration and Finance 1989-90

The audited financial statements are a public document. Copies of the University's audited financial statements have been provided to each University Department and the University Library. For those interested in more information than provided in these highlights, please refer to the copy in your department.

Table 1 describes the activities in each of five of the seven separate funds involved in the financial reporting of UBC during the 1989-90 fiscal year. Excluded are the Student Loan Fund and Endowment Principal Fund. The concept of fund accounting organizes transactions so that revenues and their related expenses are accounted for in separate funds in accordance with objectives specified by donors, limitations and restrictions imposed by sources outside the University, and determinations made by the Board of Governors.

## GENERAL PURPOSE OPERATING FUND

The revenue and expenses used in the general operations of the University are accounted for in this fund. The University ended the 1989-90 fiscal year with a surplus of \$.2 million after provision for inter-fund transfers of \$.3 million and appropriations for the year of \$5.9 million. There was an increase in operating income over 1988-89 of \$32.7 million resulting primarily from increases in Provincial grants of \$22.3 million, student fee credit course revenue of \$4.2 million and non credit course revenue of \$4.0 million. Total expenses at \$278.5 million were up \$29.5 million with \$21.8 million of the increase attributable to salaries and benefits.

## SPECIFIC PURPOSES FUND

The revenues and expenditures for projects stipulated by donors and income earned on the Endowment Principal Fund are included in this fund. Trust fund revenue was \$18.4 million and Endowment Fund investment income was \$12.4 million for a total of \$30.8 million. This is a decrease in total income of \$1.2 million from 1988-89. Total expenses decreased by \$10.7 million, with \$4.5 million of the decrease attributable to salaries and benefits, \$2.8 million attributable to furniture and equipment and \$2.2 million attributable to renovations and alterations. A portion of the decrease in both income and expenses is due to the transfer of the Centres for Excellence from the Specific Purposes Fund to the General Purpose Operating Fund. The furniture and equipment and renovations and alterations expenses have returned to a normal level this year. The unusual increase in these expenses last year was the result of the creation of the new Biotechnology Centre.

## SPONSORED RESEARCH FUND

This fund includes amounts specifically identified for research grants and contracts

or related activities as provided by government granting agencies, research institutes and other public and private agencies. Revenue increased from \$80.1 million in 1988-89 to \$86.4 million this year. The \$6.3 million increase is accounted for by increases in Natural Sciences and Engineering Research Council grants of \$1.4 million, Medical Research Council grants of \$1.7 million, Province of British Columbia Health Care Research Foundation grants of \$1.8 million, Business and Industry donations of \$1.6 million and other less significant variations both positive and negative. Schedule 5 to the Financial Statements provides additional details.

## ANCILLARY ENTERPRISES FUND

Ancillary enterprises provide goods and services to the University community and are expected to operate on a break-even basis. Total income for the ancillary enterprises was \$63.5 million, an increase of 14.6% over 1988/89. Included are the Bookstore, Food Services, Student Housing and Conferences, Oyster River Farm, Parking Services, Health Sciences Parkade, Tennis Centre, Athletics and Sport Services, UBC Press, Media Services and the Educational Measurement Research Group. In 1989-90 the administrative charge of 1.5% of sales and services generated \$928,000 of revenue to the General Purpose Operating Fund. The charge partially covers the cost of university services not specifically billed to the ancillary enterprises such as Purchasing, Personnel Services, Financial Services, Occupational Health and Safety and Security.

## CAPITAL FUND

The capital fund consists of gifts, grants, interest and authorized capital borrowing received for the purpose of acquiring capital assets including those pertaining to ancillary enterprises. Capital fund revenue increased by \$13.4 million. This increase is due in part to an increase of \$6 million in the matching grant from the Provincial government for the major fund-raising campaign, the receipt of a \$4 million prepaid lease payment and a \$2.6 million increase in donations from Business and Industry. Building contract expense decreased by \$8.8 million as a result of a decrease in the number of ongoing capital projects in progress during the year. This expense is expected to increase in the next five years as major capital projects are initiated. These capital projects will be funded substantially through the proceeds of the Major Fund Raising Campaign currently underway.

## COMBINED FUNDS

Table 1 shows the total revenue and expenses of all five funds by object of revenue and expenses. Total revenue for all funds was \$529.3 million, up \$59.4 million from last year. Total salaries and benefits were \$305.4 million, an increase of \$22.6 million.

Table 2 shows the source and distribution of General Purpose Operating funds over the past five years.

Table 3 shows a comparison of the Total General Purpose Operating Expenses by object of expense for the five years 1985-86 to 1989-90.

Table 4 shows the change in total Sponsored Research funding since 1985-86.

Table 5 shows the source and distribution of Sponsored Research funds.

## GENERAL

The University of British Columbia is celebrating its 75th anniversary this year. In order to properly mark this occasion events have been scheduled for the entire year. The 3 main events are Open House which was held in early March, Discover Summer which was a series of events presented from May through to August and Homecoming scheduled for late September and October and the early part of November.

The University's "A World of Opportunity" campaign which began in January 1988 is progressing very well. At the mid point of the campaign, more than \$150 million in cash and pledges has been raised from individuals, organizations, corporations and governments at all levels, including \$75 million from the Provincial Government Matching Gifts Program. The pledges will be collected over the next six years with the matching gifts from the Provincial Government collected in annual installments of \$12 million. Still, many of UBC's priority projects are not fully funded. With the encouragement of our donors, Government and those wishing to give to UBC, the UBC Major Campaign continues in order to achieve its goal. The campaign funds will provide the facilities, scholarships, endowed chairs and equipment required for academic distinction.

The portion of the new Student Information System which affects the Student Records, the financial accounting records and Award processing will be implemented by February 1991. In the Spring of 1991, the new grading policy and online marking system will be completed. The course scheduling component of the Student System will be implemented in October 1990, in time for the 1991 Summer Session. The first phase of the Integrated Human Resources Information System will be implemented in the fall of 1991. This phase will include payroll processing, benefits administration, appointments and human resources information for faculty, staff and students. In 1991, Purchasing will be implementing a new Material Management System which includes a new purchasing system, a fixed assets component and an interface with the Financial Records System. In October 1990, Plant Operations will have successfully implemented their new Maintenance Management System to replace the old Work-In-

Process system.

During the past year, construction has been completed on the following projects: the David Lam Asian Garden Centre, the Children's Day Care Centre, the Child Study Centre, an addition to the Museum of Anthropology, the Cecil Green Park House Upgrade and a temporary facility for the Disability Centre. Construction will begin on four projects associated with the University's five year capital plan and the UBC Campaign. These are the David Lam Management Research Centre, including a major Food Services facility (\$11.6 million), the Student Services Centre, with a permanent Disability Centre facility (\$8.5 million), the University Services Building (\$12.1 million) and the West Parkade, which will accommodate 1200 cars (\$10.1 million). Two additional projects will also be under construction soon. One project is a laboratory facility (\$6.5 million) for researchers funded by the National Centres of Excellence. The other project is a joint venture with Ritsumeikan University of Kyoto, Japan for a new student housing facility at UBC (\$7.5 million).

The UBC Real Estate Corporation, a wholly owned subsidiary of the university, has begun active development of the Hampton Place project. This project will provide for market housing on campus in the form of townhouses and apartments. Site servicing was completed at the Westbrook Mall and 16th Avenue location in the early spring of 1990. The principal objective of the Corporation is to take responsible and pragmatic steps to make good use of the University's vacant land to improve UBC's long-term capital and endowment programs which, in turn, help contribute to a stronger financial base for education in British Columbia.

In the summer of 1989 the university assumed control of the Cedar Lodge Society. The Society's directors and the University are currently working closely to develop a strategy to best utilize the Society's Cobble Hill retreat on Vancouver Island. The strategy will maintain the Society's tradition for assisting in the treatment of the mentally handicapped.

During the past year the University has developed a Faculty Housing Assistance Program which will include downpayment assistance and an innovative mortgage design. A study is also underway to determine the feasibility of some form of multi-unit faculty housing facility to be constructed on the campus.

The 1989-90 fiscal year also saw the commitment to a capital preservation policy for the University's endowment funds. The past twenty years of volatile and high inflation have had an erosive effect on the purchasing power of endowment income. The new policy, expected to be finalized in early 1991, is intended to protect the endowment funds for future generations while also allowing the maximum funds possible to be spent on current projects.

TABLE 1  
THE UNIVERSITY OF BRITISH COLUMBIA  
STATEMENT OF CHANGES IN UNAPPROPRIATED FUND BALANCES  
FOR THE YEAR ENDED MARCH 31, 1990

(thousands of dollars)

	General Purpose Operating	Specific Purposes	Sponsored Research	Ancillary Enterprises	Capital	Totals 1990	1989
<b>Revenue and other additions:</b>							
Government grants and contracts							
Government of Canada	\$ -	\$ 3,599	\$ 53,698	\$ -	\$ -	\$ 57,297	\$ 54,955
Province of British Columbia							
Base Operating	214,622	-	434	-	-	215,056	194,540
Designated	4,561	9,399	9,952	-	50,998	74,910	66,993
Municipalities	-	2	35	-	-	37	16
Other governments	-	67	145	-	-	212	227
Foreign governments	-	711	1,594	-	-	2,305	2,648
Student fees	57,470	86	-	1,201	-	58,757	50,410
Bequests, donations and non-government grants	-	4,457	20,443	-	6,543	31,443	25,404
Sales and services	1,303	-	131	61,465	4,008	66,907	54,946
Income from investments	4,974	12,463	-	784	3,155	21,376	14,970
Loans	-	-	-	-	999	999	4,818
	<u>282,930</u>	<u>30,784</u>	<u>86,432</u>	<u>63,450</u>	<u>65,703</u>	<u>529,299</u>	<u>469,927</u>
<b>Expenses and other deductions:</b>							
Salaries - Academic	115,053	6,234	15,110	-	-	136,397	127,327
- Student service	7,028	3,641	8,833	-	-	19,502	17,808
- Staff	79,614	4,105	18,979	15,498	853	119,049	109,608
	<u>201,695</u>	<u>13,980</u>	<u>42,922</u>	<u>15,498</u>	<u>853</u>	<u>274,948</u>	<u>254,743</u>
Benefits	25,333	774	2,824	1,415	98	30,444	28,122
Travel, field trips, moving	5,120	1,963	5,864	757	116	13,820	11,578
Library acquisitions	6,070	397	430	-	-	6,897	6,537
Operational supplies and expenses	22,981	1,179	18,626	6,058	1,397	50,241	48,633
Furniture and equipment	6,898	999	9,024	1,005	3,087	21,013	18,198
Utilities	7,406	210	866	1,489	461	10,432	10,802
Renovations and alterations	1,169	61	57	2,539	4,472	8,298	6,908
Scholarships, fellowships and bursaries	5,038	4,180	777	-	-	9,995	8,681
Professional fees	3,688	1,402	1,803	-	4,602	11,495	10,020
Cost of goods sold	-	-	-	24,539	-	24,539	21,219
Debt servicing	-	-	-	6,922	18,923	25,845	23,723
Building contracts	-	-	-	-	14,199	14,199	22,969
Internal cost recoveries	-2,395	188	1,279	928	-	-	-
External cost recoveries	-4,468	-	-	-	-	-4,468	-4,447
	<u>278,535</u>	<u>25,333</u>	<u>84,472</u>	<u>61,150</u>	<u>48,208</u>	<u>497,698</u>	<u>467,686</u>
<b>Transfers and appropriations:</b>							
Expended from prior year's appropriations	1,752	-	-	-	-	1,752	13,629
Interfund transfers	-310	(6,103)	628	-64	1,268	-4,581	-2,840
Appropriations for the year	-5,914	-	-	-1,835	-13,935	-21,684	-15,018
	<u>-4,472</u>	<u>(6,103)</u>	<u>628</u>	<u>-1,899</u>	<u>-12,667</u>	<u>-24,513</u>	<u>-4,229</u>
Net increase (decrease) during the year	-77	(652)	2,588	401	4,828	7,088	-1,988
Unappropriated Fund balance, beginning of year	269	19,950	22,591	30	2,091	44,931	46,919
Unappropriated Fund balance, end of year	<u>192</u>	<u>19,298</u>	<u>25,179</u>	<u>431</u>	<u>6,919</u>	<u>52,019</u>	<u>44,931</u>

TABLE 2  
SOURCE AND DISTRIBUTION OF THE GENERAL PURPOSE OPERATING FUND  
FOR THE YEARS ENDED MARCH 31, 1986 TO 1990

	1990	1989	1988	1987	1986
	%	%	%	%	%
<b>Source :</b>					
Province of B.C. - Grants	77.5	78.7	79.4	80.0	79.7
Student Fees - Credit	14.9	15.2	14.9	15.4	15.3
Student Fees - Non-credit	5.2	4.2	3.7	3.0	3.2
Other	2.4	1.9	2.0	1.6	1.8
	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>
<b>Distribution by Function</b>					
Academic and Associated Services	73.3	72.6	72.5	72.1	73.2
Library	7.1	7.2	7.3	7.5	7.3
Student Awards and Services	2.9	2.6	2.7	2.6	2.6
Administration	6.0	5.8	5.6	5.3	4.3
General	1.7	1.1	1.0	1.2	0.7
Plant	9.5	11.2	11.4	11.8	12.3
Overhead recovered	(0.5)	(0.5)	(0.5)	(0.5)	(0.4)
	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>

TABLE 5  
SOURCE AND DISTRIBUTION OF SPONSORED RESEARCH FUND

FOR THE YEARS ENDED MARCH 31, 1986 TO 1990

	1990	1989	1988	1987	1986
	%	%	%	%	%
<b>Source</b>					
Government of Canada	62.1	64.1	67.7	68.9	62.6
Province of British Columbia	12.0	11.0	8.5	7.9	9.2
Other governments and agencies	2.1	2.5	1.7	2.5	2.8
	<u>76.2</u>	<u>77.6</u>	<u>77.9</u>	<u>79.3</u>	<u>74.6</u>
Total governments	76.2	77.6	77.9	79.3	74.6
Individuals, business, foundations	23.7	22.2	21.8	20.5	24.9
Other	0.1	0.2	0.3	0.2	0.5
	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>
<b>Distribution</b>					
Salaries and Benefits	54.2	56.0	55.6	58.2	56.7
Travel and field trips	6.9	6.7	6.5	6.3	6.1
Operational supplies and expenses	22.0	21.6	21.6	20.4	18.1
Furniture and equipment	10.7	9.4	11.3	10.1	13.1
Other	6.2	6.3	5.0	5.0	6.0
	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>

**TABLE 3**  
**SUMMARY COMPARISONS OF TOTAL GENERAL PURPOSE OPERATING EXPENSES**  
**1985-86 TO 1989-90**

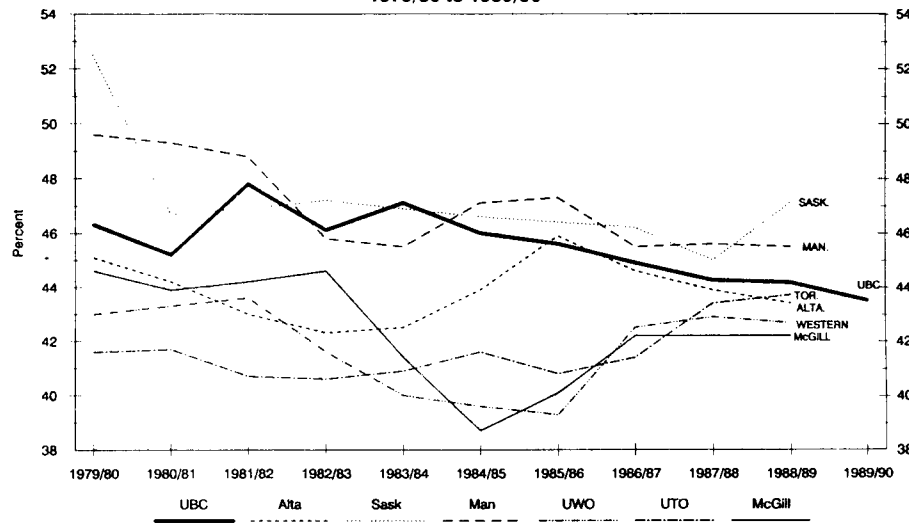
	SALARIES AND BENEFITS					Sub Total	Travel & Field Trip	Library Acquisitions	Supplies & Expenses	Utilities	Furniture Equipment & Alterations	Total
	Academic	Student Services	Staff	Total	Benefits							
1989 - 90	41.3	2.5	28.6	72.4	9.2	81.6	1.8	2.2	8.9	2.6	2.9	100.0
1988 - 89	42.3	2.4	28.4	73.1	9.3	82.4	1.7	2.3	8.0	3.3	2.3	100.0
1987 - 88	42.2	2.4	29.2	73.8	9.2	83.0	1.6	2.3	7.9	3.5	1.7	100.0
1986 - 87	42.8	2.5	28.5	73.8	9.0	82.8	1.4	2.4	7.9	3.7	1.8	100.0
1985 - 86	43.7	2.5	28.4	74.6	9.1	83.7	1.1	2.3	5.2	4.3	3.4	100.0

**TABLE 4**  
**TOTAL SPONSORED RESEARCH FUNDING**

(thousands of dollars)

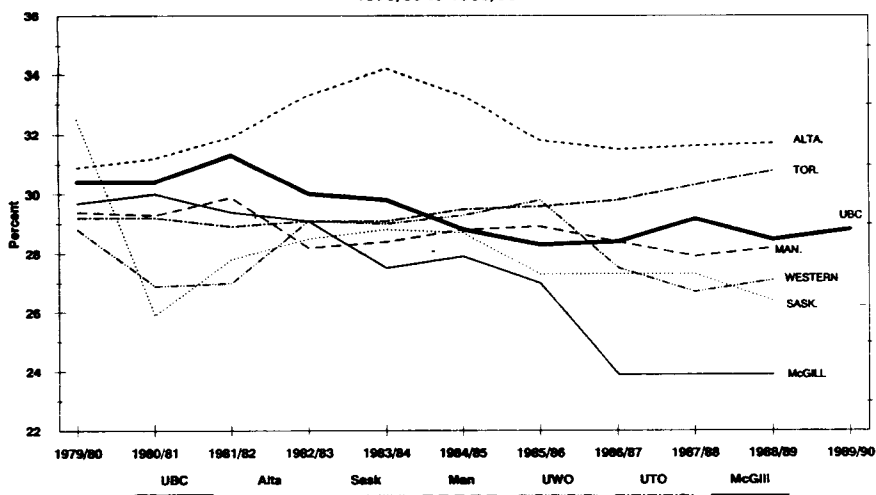
	Amount
1989 - 90	86,432
1988 - 89	80,147
1987 - 88	71,511
1986 - 87	65,280
1985 - 86	59,619

**Total Academic Salaries\* as a Percent of Total General Purpose Operating Expenditures 1979/80 to 1989/90**



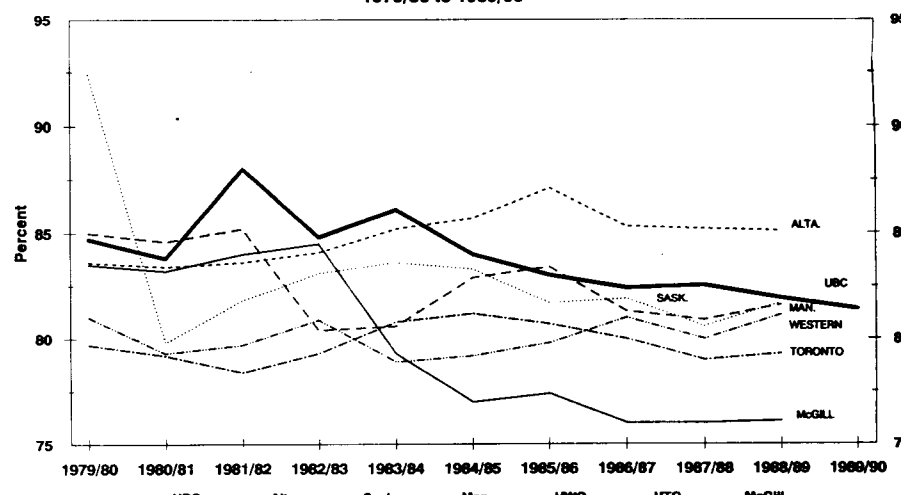
Source: Canadian Association of University Business Officers  
 \* Comprises academic ranks and other instructional staff and student service appointments.  
 Excludes early termination agreements  
 Object of expense calculations are taken as a percentage of net expenditures, which includes cost recoveries, therefore the sum of the object of expense percentages will exceed 100.

**Non-Academic Salaries as a Percent of Total General Purpose Operating Expenditures 1979/80 to 1989/90**



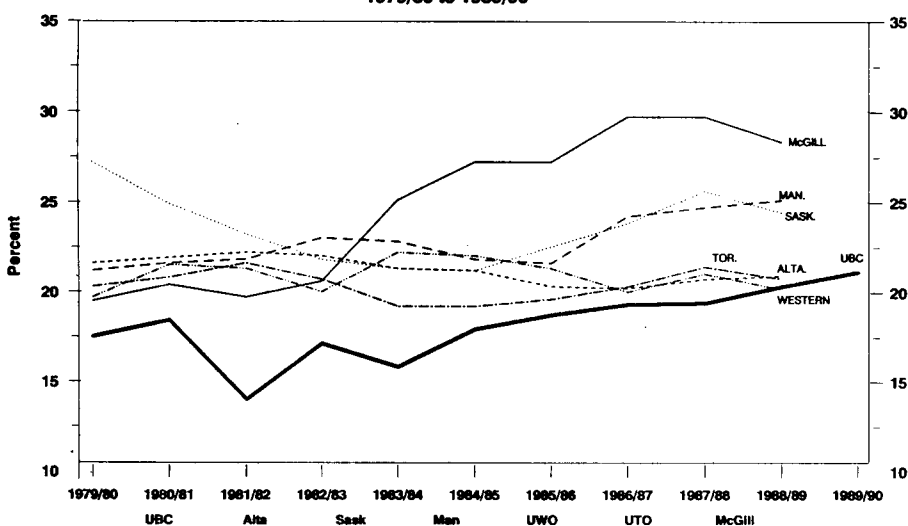
Source: Canadian Association of University Business Officers  
 Excludes early termination agreements  
 Object of expense calculations are taken as a percentage of net expenditures, which includes cost recoveries, therefore the sum of the object of expense percentages will exceed 100.

**Total Salaries & Benefits as a Percent of Total General Purpose Operating Expenditures 1979/80 to 1989/90**



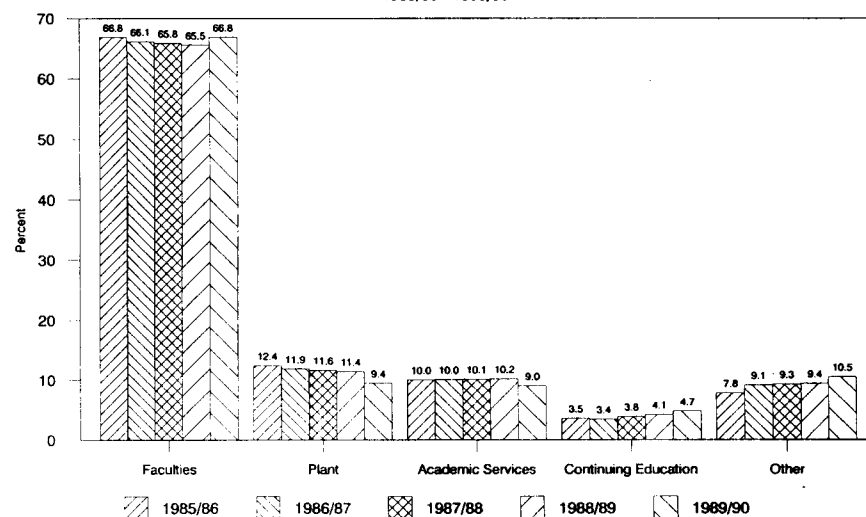
Source: Canadian Association of University Business Officers  
 Excludes early termination agreements  
 Object of expense calculations are taken as a percentage of net expenditures, which includes cost recoveries, therefore the sum of the object of expense percentages will exceed 100.

**Non-Salary Expenditures as a Percent of Total General Purpose Operating Expenditures 1979/80 to 1989/90**



Source: Canadian Association of University Business Officers  
 Object of expense calculations are taken as a percentage of net expenditures, which includes cost recoveries, therefore the sum of the object of expense percentages will exceed 100.

**Percentage Distribution of General Purpose Operating Expenditures Faculties and Administrative Units 1985/86 - 1989/90**



Faculties includes ETA and retroactive salary increases.  
 Academic Services includes Computing Centre, Academic Services, Library.  
 Continuing Education comprises CCE and non-credit programs, includes Conferences Administration & Health Sciences etc.  
 Other includes student aid, student services, administration, general and other.  
 Note: Expenditures are net of carry-forward.  
 Object of expense calculations are taken as a percentage of net expenditures, which includes cost recoveries, therefore the sum of the object of expense percentages will exceed 100.





People

# O'Brian named Braide winner

**John O'Brian**, a professor of Fine Arts, has won the first Janet Braide Memorial Award for his outstanding contribution to scholarship in the field of Canadian art history.



O'Brian

O'Brian won the award, which honors the memory of Canadian art historian Janet Braide.

for an essay and his editorial control of the exhibition catalogue, *The Flat Side of the Landscape: The Emma Lake Artists' Workshop*.

O'Brian, who as guest curator of *The Flat Side of the Landscape* was responsible for the selection of artwork, also edited the 150-page exhibition catalogue and contributed an essay, "Where the Hell is Saskatchewan, and Who is Emma Lake?"

He also became an opponent of the Vietnam War and embarked on efforts to reduce hostilities between Canada and the Soviet Union.

He has been active in several peace groups throughout the years, including Canadian Physicians for the Prevention of Nuclear War and Veterans Against Nuclear Arms. In addition, he has been an appointed member of Vancouver's Special Council Committee on Peace since it was formed in 1985 by city council.

Dr. Perry was responsible for organizing the Vancouver Centennial Peace and Disarmament Symposium in 1986.

The Vancouver Citizens Peace Award was presented to Dr. Perry by Vancouver Mayor Gordon Campbell in a civic commemoration of the UN's International Day of Peace, Sept. 18.

**Ronald Hagler**, a professor in the School of Library, Archival and Information Studies, has been awarded the American Library Association's Margaret Mann Citation, the highest award given to specialists in the field of cataloguing and classification.

He was chosen for the 1990 award in recognition of his outstanding contributions to the development and implementation of the Anglo-American Cataloguing Rules and his work as a teacher, writer and participant in the formulation of those rules.

Hagler, a founding member of the school, teaches cataloguing, the history of the book and the description and indexing of archival materials.

**Ronald Jobe**, a professor in Language Education, has been elected president of the International Board on Books for Young People (IBBY) at its 22nd World Congress held recently in Williamsburg, Va.

It is the first time IBBY's president has come from outside Europe.

Founded in 1953 and based in Basel, Switzerland, IBBY has 52 national sections and members in 64 countries.

Every two years, IBBY presents the Hans Christian Andersen Award, the highest international recognition given to illustrators and authors of children's books.

The School of Architecture has named **Sanford Hirshen** as its new director, effective Jan. 1.

Hirshen has taught in the Department of Architecture at the University of California, Berkeley, since 1966.

A full professor since 1974, he has also served as chairman of the department and as director of the Centre for Planning and Development Research and Associate Dean for Research at the College of Environmental Design.

His professional work includes design of public housing and facilities for the elderly, the disabled, students and families, as well as schools, parks, health care facilities and private residences.

Recent work includes planning for the University of California, Los Angeles, including the design of the university's campus laboratory school in coordination with architect I.M. Pei's office.

In 1985, Hirshen won a Guggenheim fellowship to study European public housing.

**Dr. Thomas Perry Sr.**, professor emeritus of Pharmacology and Therapeutics at UBC, has been awarded the first Vancouver Citizens Peace Award in recognition of his contributions to world peace at a community level.



Dr. Perry

A U.S. Army Captain during World War II, Dr. Perry has vigorously opposed nuclear weapons testing since the end of the war in 1945.

Dr. Perry emigrated to Canada in 1962 where he continued to be a strong and vocal adversary of nuclear arms.

The International Union of Radio Science (URSI) has elected **Edward Jull**, a professor in Electrical Engineering, as its president for a three-year term.



Jull

URSI was created in 1919 to stimulate and coordinate international studies in the fields of radio, telecommunications and electronic sciences.

With a secretariat located in Brussels, Belgium, URSI has 39 member countries. Jull has been vice-president of URSI since 1987 and is its first Canadian president. He was elected at the recent 23rd general assembly in Prague, Czechoslovakia.

Commerce Professor **Martin Puterman** has been elected first president of a new section of the Statistical Society of Canada, a group which serves as a focus for about 800 statisticians in universities, government and industry.



Puterman

The newly formed biostatistics section will represent the interests of members who are involved in the application of statistics to the biological sciences.

Puterman established the Biostatistical Consulting Service at Children's Hospital Variety Club Research Centre and recently stepped down as its director. A professor in management science, one of his research areas is the medical application of statistics.

## Ecologist honored

# Victoria establishes Krajina chair

By JO MOSS

The provincial government has established a new research chair in silvics and silviculture at UBC honoring one of the university's best-known ecologists.

The V.J. Krajina/B.C. Forest Service Chair in Silvics and Silviculture recognizes Vladimir Krajina, a professor emeritus in Botany, who dedicated his career to advancing our knowledge of the ecology of forest trees and developing an ecological classification system for the province.

Krajina's classification system is based on the complex relationships between climate, soil and vegetation and forms the groundwork for the application of ecologically sound forest management practices. It is the system on which all B.C.'s forestry programs are based.

"If we know what we have and where we have it, then we are better able to say what we can do with it," said UBC Forestry Professor Karel Klinka, who will occupy the chair.

The B.C. Ministry of Forests is providing an annual grant of \$65,000 for five years to enable Klinka to carry out research in two areas which are becoming increasingly important to the forest industry: silvics, the study of the life history and ecological characteristics of forest trees; and silviculture, the practice of cultivating the forest.

Klinka worked with Krajina as a graduate student at UBC and did his PhD thesis on the classification, map-

ping and interpretation of ecosystem units in the Malcolm Knapp/UBC Research Forest. He has since worked with ecologists in B.C.'s Ministry of Forests to build on Krajina's work and complete a comprehensive inventory of the province's ecosystems.

"To manipulate forest ecosystems and their productivity, we need this basic information. We can use that data to make predictions, then we can establish a better basis on which to cut the forest and regenerate it," Klinka explained. "That's the key."

In his new position, he begins the next step which is to obtain quantitative information on shade tolerance of

forest trees and develop a site-specific decision-making system that will enable foresters to make more informed decisions about regenerating the forest.

"The basic underlying principle is that trees grow and behave in ways that depend on the sites in which they grow. Trees that form different ecosystems should be managed differently," Klinka explained.

A former forester with Canadian Cellulose Co., Klinka has been a research scientist with the B.C. Ministry of Forests since 1975 and associated with UBC in various adjunct positions since 1978.

## 3 associate deans named for Arts

Dean of Arts Patricia Marchak has named three associate deans to assist her in the administration of the Faculty of Arts.

Geography Professor Graeme Wynn will handle the new student affairs portfolio. His responsibilities include virtually all student- and curriculum-related affairs in the faculty. Wynn has overall charge of student advising through the senior advisor's office and will handle student appeals, awards, and liaison with high schools and colleges, as well as with the Faculty of Science.

As part of his duties, History Professor Robert Kubicek will oversee the

processing of promotions and tenure. He will also head up a new portfolio concerned with research and serve as liaison with the office of the Vice-President, Research. Kubicek will also handle prize applications, and conference support requests, as well as relations with the Faculty of Graduate Studies.

Economics Professor Donald Paterson will be responsible for soft money budget allocations, sessional lecturers and teaching assistants, the equipment budget, and supplies and expenses.

A fourth associate dean will be named later this year to deal with interdisciplinary and inter-faculty matters.

### EMRG

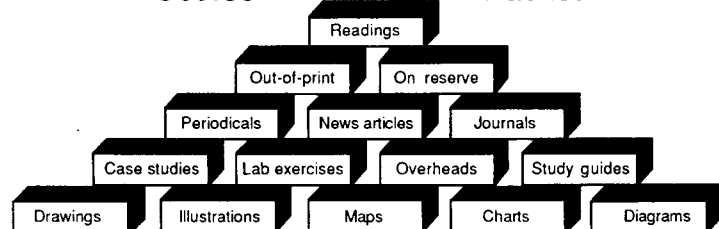
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# Computer game teaches children about forestry

By JO MOSS

Harry the Harvester is a character in a new computer game for children designed to bring forest management into B.C.'s classrooms through colorful graphics and animated scenarios.

Called FORTOON, it has been developed by UBC Forestry Professor Hamish Kimmins, and computer programmer Kim Scoullar, from a computer simulation forest management program, called FORCYTE, devised by Kimmins for Forestry Canada.

FORTOON is a simplified, user-friendly version of the more technical FORCYTE and operates in simple language on an inexpensive desktop computer.

It allows teachers to introduce forestry and forest management practices to students as young as Grade 3.

"There's tremendous flexibility with the program," Kimmins said. "FORTOON can be used to teach older students critical thinking and the consequence of choice.

"In forest management decisions, there's always a price to pay in the future in terms of forest yield, profitability, employment in the industry, and impact on the environment."

FORTOON demonstrates visually how choices made for forests today impact on succeeding generations of trees, surrounding vegetation, soil fer-

tility and site productivity.

The program tracks more than 300 variables — factors in the ecosystem cycle such as light intensity, soil conditions and vegetation growth — and can predict the ecology of the hypothetical forest more than 200 years into the future, when the forest is managed in any one of many different ways.

The demonstration program was funded by the Council of Forest Industries and B.C. Forest Industries. Now, Kimmins wants to develop FORTOON further so that it can be used in B.C. schools.

"We want to get people to understand the difference between good forestry and bad forestry and to discover that in making long-term goals for forests there is always a trade-off," Kimmins said.

"If, for example, our goal is to set aside wilderness areas for recreation, then the trade-off is that the amount of forest land to harvest is smaller.

"Getting the greatest supply of logs and other products now may reduce future log supplies, but ensuring sustainability may increase costs and reduce short-term log supply," he said.

The FORTOON program begins by depicting a forest scene complete with trees, shrubs, and blacktail deer.

Students select characters, such as Harry, to play a part in the scenario, and choose a series of actions for him

to carry out.

They can opt to fertilize newly planted trees, thin a young forest, or harvest a mature stand, for example. The effects of unexpected fire or insect infestation can also be investigated.

Whatever the choices, the results unfold instantly before the students' eyes as FORTOON runs through a 60-year rotation cycle in a matter of minutes.

A simple bar graph on one side of the screen tracks changes in soil composition, and indicates increasing and decreasing levels of the vital tree nutrients, nitrogen, phosphorus and potassium.

The effects of the selected forest management plan on such things as jobs, profits, wildlife, soil conditions, contributions to the greenhouse effect, and fossil fuel energy used, are tabulated for the viewer.

Once FORTOON is fully developed, Harry will be joined by Henrietta the Harvester, Penelope the tree planter, and others representative of occupations in the forest industry. Other wildlife — birds and mammals — will join blacktail deer in the computer forest.

Kimmins has canvassed professional foresters and school teachers for suggestions on enhancing the program and hopes to begin testing FORTOON in selected schools this fall.



Lieutenant-Governor David Lam (right) plants a rhododendron named in his honor during the opening of the New Education and Visitors' Centre in the Botanical Garden's David C. Lam Asian Garden. Accompanying him is David Tarrant, garden education coordinator.

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## Classified

Classified advertising can be purchased from Media Services. Phone 228-4775. Ads placed by faculty and staff cost \$6 per insertion for 35 words. Others are charged \$7. Tuesday, Oct. 8 at 9 a.m. is the deadline for the next issue of UBC Reports which appears on Thursday, Oct. 18. Deadline for the following edition on Nov. 1 is 4 p.m. Monday, Oct. 22. All ads must be paid in advance in cash, by cheque or internal requisition.

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## WE LOOK FORWARD TO SEEING YOU AT THE SHOW.

## Health Sciences Week

# Focus on total health care

By CONNIE FILLETTI

The concept of total patient health care is one of the major focuses of UBC's third annual Health Sciences Week Oct. 14 to Oct. 20.

A highlight of the week's events and activities is the Health Care Team Clinical Competition, designed to enhance students' knowledge about other health professions and their roles in the clinical arena.

"The Health Care Team Clinical Competition is absolutely unique in Canada," explained UBC Faculty of Dentistry professor and chair of the competition committee, Dr. Ravindra Shah. "We have received inquiries from other post-secondary institutions across North America that would like to organize one for their health sciences students."

The Health Sciences at UBC include medicine, dentistry, nursing, pharmaceutical sciences, occupational therapy, physiotherapy, social work, audiology and speech sciences, clinical psychology, counselling psychology and nutrition.

"In the community, health professionals seldom have the opportunity to work together," said Dr. Shah. "Our students rarely get an opportunity to interact during their

health education at the university. As a result, they can only treat a patient from a limited viewpoint when, in reality, they want to be able to provide total service to their patients."

Dr. Shah feels the clinical competition is

an ideal approach for UBC to take in addressing the need for students pursuing careers in the different health sciences to interact.

"Every discipline will be approaching the patient's problem in harmony," he said. "We

are setting the example that knowledge about other health professions is critical to maintaining a patient's health and health care."

Designing a course for such an education would only overload an already full curriculum, he added. But the clinical competition encourages group participation in a relaxed setting while still providing a challenge to the students.

Three teams of students will be selected from the senior year of each of the health sciences disciplines to compete in the clinical competition. The teams will be presented with a hypothetical patient and asked questions about the case. Their responses will be assessed by a panel of judges.

"This is an original program with real academic value," said Dr. Shah. "Students will learn enormously about the critical art of judgment based on sound scientific principles during the two-hour session. The emphasis is on thinking."

The Health Care Team Clinical Competition will be held before a live audience Oct. 18 between 12:30 p.m. and 2:30 p.m. in IRC lecture theatre six. The audience will be invited to give brief comments when appropriate.



Photo by Media Services

Members of the Health Care Team Clinical Competition committee represent each discipline of the Health Sciences at UBC.

# Book helps cross cultural health barriers

By JO MOSS

Providing health care for Canada's immigrant population can be confusing and frustrating—both for those providing the care and for those receiving it.

Each may complain the other doesn't understand them.

Now, two UBC professors and a provincial government social worker have produced a unique book to assist health care providers in identifying issues and concerns that people in different cultures have.

Called *Cross-Cultural Caring: A Handbook for Health Professionals in Western Canada*, it's a series of essays written by people from nine ethnic communities, describing their values and beliefs as they relate to health.

"It's not a recipe for administering health care to ethnic groups," said UBC Nursing Professor Joan Anderson who co-edited the book with Nancy Waxler-Morrison, associate professor of Social Work and Sociology and Elizabeth Richardson, a social worker with the Ministry of Social Services and Housing.

"But it does give background knowledge so that health care providers can be aware of what issues their patients face. It can help them better understand and assess individuals from other cultures."

Even when a patient from a different ethnic group is dressed in Western clothes and speaks fluent English, he or she may not understand the Canadian way of doing things, Anderson said. Conversely, a patient in traditional costume may be well-educated and familiar with Western medicine.

Patient beliefs about health care can also vary within an ethnic community depending on the individual's education, class, and occupation.

"Each situation is different and each patient should be dealt with on an individual basis," Anderson explained. But health care providers should be aware of some basic cultural issues, she said.

Touching the head or shoulder of another person in casual contact, particularly if that person is older, is seen by Cambodians and Laotians, for example, as being disrespectful. Southeast Asians view illness as an imbalance in body humors — bile, and

phlegm, for example — and expect treatment to restore the balance.

Among Central Americans, a female relative will often be expected to accompany a woman to see a male physician.

In addition to the cultural differences between immigrants and



Anderson

health care providers, many immigrant families face stress and trauma unique to their situation in Canada, Anderson said. They are often used to having the emotional support of an extended family, which they may have left behind in their native country. They are frequently handicapped by inadequate English and a lack of financial resources in trying to adjust to a new life in Canada.

And they encounter problems in raising their children in a different society—especially when the children accept and adopt Western values quickly.

Anderson said health care providers need to take into account the family's situation in Canada when determining their health needs.

The book covers areas such as religion, family structure, marriage, and child-rearing, as well as traditional health care beliefs and practices and the relationship between the patient and professional.

Aimed at anyone working in the health care field, it also provides important information for health care administrators, teachers and others who regularly come in contact with different cultures, Anderson said.

All three authors have worked with ethnic communities for many years. Anderson has carried out research in Canada with immigrant women. A National Health Research Scholar in the School of Nursing, she was born in Jamaica.

Waxler-Morrison has conducted research in Sri Lanka and India on medical sociology. Richardson was born and raised in India where her Canadian parents lived for many years and also taught English in Japan.

The three drew on their extensive network in the ethnic community for participation in this project. The book, which took two years from inception to publication, was issued this year by UBC Press.

## Health Sciences Week events

A complete schedule of events including lectures and poster displays, in addition to the Health Care Team Clinical Competition, has been planned for Health Sciences Week.

The week's program starts off with the Dr. John F. McCreary Lecture Oct. 15. Dr. Andrew Pipe of the University of Ottawa Heart Institute will deliver an address entitled *Politics, Pathology and the Public's Health*. He will discuss how the health of future Canadians is likely to be enhanced as much by political decisions as by the traditional activities of the health care professions.

The university community and the public are invited to hear Dr. Pipe's comments in IRC lecture theatre six beginning at 12:30 p.m.

On Oct. 17, UBC's First Nations Health Care Professions Program is sponsoring a lecture on *Native Healing Practices* in IRC lecture theatre six at 12:30 p.m. Everyone is welcome to attend.

The Health Care Team Clinical Competition gets under way on Oct. 18 at

12:30 p.m. in IRC lecture theatre six. The competition runs until 2:30 p.m. and the public is encouraged to participate.

Beginning at 5 p.m. on Oct. 18 in the IRC Mall and lecture theatres, the Health Sciences Student Research Forum commences.

The forum features 90 poster and oral presentations which address the clinical and biological aspects of the health sciences. Topics include nutrition, cancer, birth defects and the state of the art in basic health sciences research.

The Marion Woodward Lecture also takes place Oct. 18 at 8 p.m. in IRC lecture theatre two.

This year's speaker is Barbara Burke, newly appointed vice-president of nursing at St. Paul's Hospital, a teaching hospital of UBC's Faculty of Medicine.

Burke will focus on the growing isolation of the nursing profession from other health care professionals.

For more information about Health Sciences Week, call 228-3737.