

UBC REPORTS

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Budget trimmed by 2.7 %

by Gavin Wilson

Staff writer

The elimination of nearly 100 staff and faculty positions and a freeze on salaries of senior administrators are some of the steps that have been taken to balance UBC's 1993/94 operating budget.

The \$327,840,000 budget, approved by the Board of Governors at their July meeting, trims \$6.9 million from the university's expenditures. This represents an overall cut of 2.7 per cent.

Also eliminated is an accumulated deficit that in the past two years ranged from \$1.3 to \$2.1 million.

Bruce Gellatly, vice-president of Finance and Administration, said unavoidable cost increases, particularly in salaries and benefits, forced the university to cut positions. As well, the provincial operating grant, UBC's major source of funding, was not increased from last year and remains at \$265 million.

Almost all units on campus were asked to cut their budgets, with administrative units taking proportionally larger cuts.

Gellatly added that UBC has managed to keep administrative costs among the lowest in Canada, with central administration remaining at less than five per cent of the general purpose operating budget.

Much of the cost-cutting was done by eliminating 86 staff positions, mainly by attrition rather than layoffs.

Rising salaries, wages and benefits have a dramatic impact on UBC's budget because they account for 83 per cent of expenditures. The total cost of salary and benefit increases for 1993-94, including pay equity, is more than \$9 million. Many of the benefit increases are mandated.

The current agreement with the two CUPE locals, negotiated in 1992, calls for a three per cent wage hike this year exclusive of pay equity commitments. Non-union technicians, research assistants and excluded staff will also receive a three per cent increase.

Gellatly said the university has also made provision for three per cent salary increases for members of the Faculty Association and management and professional staff.

If outstanding salary settlements prove to be higher than this, he said, further budget cuts will be required.

Meanwhile, salaries for the president and vice-presidents will be frozen, as will those for all non-academic administrators earning more than \$100,000. Stipends for all academic administrators will also be frozen.

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NRC talks continue

As of presstime, talks were continuing between the university and the provincial government on the future of the National Research Council's Institute for Machinery Research, the \$12 million building proposed for the south campus.

The provincial cabinet refused to approve siting of the project after environmentalists complained that it would require removal of a stand of trees.



John Chong photo

Recording History

Anthropology student Priya Helweg examines Sto:lo baskets at the Museum of Anthropology. This summer, the Dept. of Anthropology and Sociology and the museum established an ethnographic field school near Sardis at the request of the Sto:lo Tribal Council. Asst. Prof. Bruce Miller and Assoc. Prof. Julia Cruickshank worked with the council to develop projects which were carried out by graduate students Helweg, Brian Thom, Deborah Tuytens, Pauline Joly de Lotbiniere and Beth Hise. Helweg recorded oral histories with women artists.

Network head feels funding still secure

by Charles Ker

Staff writer

The scientific director of one of three national Networks of Centres of Excellence on campus is confident Canada's premiere scientific program will not lose half its funding.

Earlier this month the federal government announced financial support for the Networks of Centres of Excellence Program would be reduced to \$125 million over the next four years. The program received \$240 million in the first four years.

Bob Hancock, a UBC professor of microbiology and director of the Canadian Bacterial Diseases Network, said the cutback does not make sense given that an all-party committee this year recommended the program be funded at or higher than the previous level.

However, Hancock is optimistic the government announcement will be overturned following a peer-review of the program scheduled in November and December.

"When it comes down to the nitty-gritty and they look at the quality of the networks, there will be compelling reasons to fund a lot more than \$125 million worth," Hancock said.

The program links researchers from industry, government and universities who are working on related topics. The two other national centres at UBC focus on genetic diseases and protein engineering.

Arthur Hara elected chair of UBC Board of Governors

Arthur Hara, chair of Mitsubishi Canada Ltd., has been elected chair of UBC's Board of Governors.

A distinguished Canadian, Hara is past chair of the Vancouver Board of Trade, a former director on the Council on Canadian Unity and current chair of the Asia Pacific Foundation of Canada.

In 1985, he was awarded the Order of Canada. He received an Honorary Doctor of Laws degree from UBC in 1990.

Hara takes over from UBC Chancellor Robert Lee who assumed the chair's

position following the resignation of Ken Bagshaw in May.

"Arthur Hara has been a valued member of the board for many years," said UBC President David Strangway. "His experience, thoughtfulness and genuine concern for this university make him perfectly suited for the post."

Hara said he will continue to work toward fulfilling the university's mission statement, particularly with regard to making UBC an internationally renowned institution of higher education and research.

Hara's term ends on Dec. 16, his sixth anniversary as a board member, at which time he becomes ineligible for re-appointment. The University Act stipulates that board members can serve a maximum of six consecutive years.

Hara's election was ratified by the board on July 22.



Hara

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Library report is worthy of a second look

Editor:

Certain information in the article "Questions and Answers on the UBC Library Acquisitions Crisis" (UBC Reports, June 17 1993) requires a second look. I refer specifically to the answer to Question 2 and to (erroneously captioned) Graph 2 which purport to show that in the period fiscal 1976-77 to 1990-91 acquisitions expenditures, when measured in constant (1992) dollars, were approximately 23 per cent higher in 1992 than they were in 1973, and exceeded their 1973 level in all years except 1974 and 1975. If this is an accurate picture of reality, then there is scarcely a basis for talk about an acquisitions "crisis" at the Library; and we must conclude the Library has fared well in relation to faculties and other parts of the University that have been unable to maintain functions and their level of spending in real terms.

Unfortunately, this surprising and happy statistical finding is not independent of the choice of price index or deflator used to

convert acquisitions expenditures to constant-dollar figures.

Although the reader is not told, I am informed that the Canadian Consumer Price Index was used as the deflator. A recent Mellon Foundation study ("University Libraries and Scholarly Communication," November 1992) reminds us of the "irrelevance" of the CPI as a measure of price changes affecting library expenditures. While a composite index of book and periodical prices is difficult to construct, and will never reflect sensitively the price increases faced by a particular library purchasing a particular mix of books and periodicals, the Mellon publication as well as the supplement to "Questions and Answers" (available at the Library on request) contain sufficient data on book and periodical prices over the relevant period to give a good idea of the magnitude of the price increases experienced by major research libraries.

For example, the average price of hardbound books purchased by US research libraries increased by 255 per cent between 1973 and 1990, while sample periodical prices, for various fields, increased as follows: Business/Economics 416 per cent; Chemistry/Physics 629 per cent;

Engineering 494 per cent; History 297 per cent; Law 282 per cent; Literature/Language 276 per cent; Medicine 549 per cent; and Psychology 441 per cent.

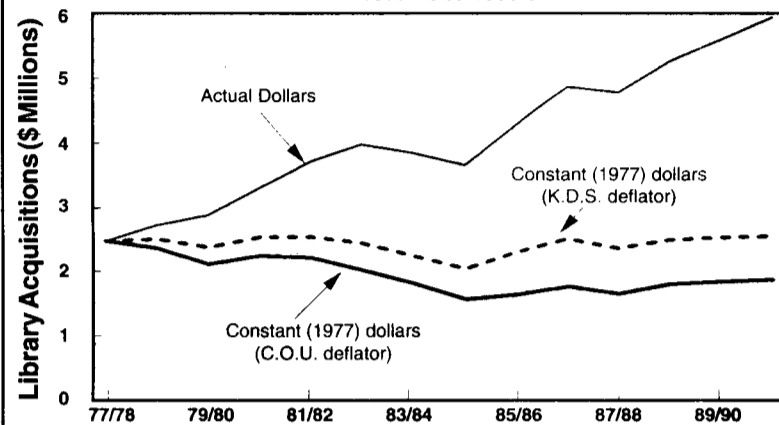
The unweighted average price increase for all periodicals for the period 1973 to 1990 was 494 per cent. Assuming a hardbound book/periodical split of 35/65, which approximates the division of the acquisitions budget at the UBC Library, it is not difficult to see roughly the extent to which libraries' purchasing power has been eroded. And these data, it should be noted, reflect US prices; they do not take into account variations in the Canadian dollar, which fell approximately 14 per cent over the period covered.

The Council of Ontario Universities has constructed a composite price index for books and periodicals applicable to library acquisitions at Ontario universities for the years 1977-78 to 1990-91. This index, which was known to the compilers of "Questions and Answers," attempts to pick up the kind of price increases referred to above — unlike the CPI which has no scholarly books or periodicals in its composition. The COU index increased nearly 320 per cent over this 13 year period,

compared to an increase of 233 per cent in the CPI. The accompanying graph shows Vice-president Srivastava's data on actual acquisitions expenditures for this shorter time period, adjusted to constant dollars by using both the COU index and the CPI (here referred to as the KDS deflator). The convention is followed of using the first year as the base period for converting to constant dollars.

on library acquisitions when calculated by the KDS method used in "Questions and Answers." As shown, these constant-dollar figures suggest that over the period 1977-78 to 1990-91 the purchasing power of the Library's acquisitions budget did not decline, and in fact was slightly higher at the end of the period than at the beginning. This is a conclusion, I submit, that does not square with reality; nor is

Library Acquisitions Expenditures
1977-78 to 1990-91



What this graph shows is that acquisitions expenditures when deflated by the more appropriate COU index remained consistently below their 1977-78 level throughout the period covered by the graph. They reached their lowest point in 1984-85, when their purchasing power fell to only 62 per cent of what it had been at the beginning of the period, but began to increase gradually after 1984-85 to the point where, in 1990-91, they represented 74 per cent of their 1977-78 level. These data are in fairly sharp contrast to the behaviour of constant-dollar expenditures

its furtherance conducive to continued efforts to improve our Library.

Recognition that price increases for books and periodicals have outstripped price increases in general, and other items in the University's budget, also has important implications for the meaning of Graphs 4b, 4c and 4d, showing the relation between Library acquisitions expenditures and general purpose operating funds over time.

Robert M. Will
Professor
Dept. of Economics

Remembering the Armoury

Editor:

Your feature in the July issue of UBC Reports respecting the imminent demise of the Armoury recalled a somewhat touching and historical event that occurred during the 1948 graduation ceremonies.

The 1948 graduation ceremonies took place, I believe, on or about May 16th, just three years, give or take a few days, from the end of the European War and was the first large graduating class of veterans.

The Armoury was packed with grads and their families

which included a large contingent of wives and children, a somewhat out-of-the-ordinary audience.

About halfway through the afternoon's proceedings as one grad stepped forward to be admitted by the chancellor, a clear small voice called out from the balcony, "That's my Daddy." A hush fell over the hall and Norman MacKenzie, the president, took the opportunity to make a few impromptu remarks about the large number of veterans who had tested the capacity of the university but had achieved an enviable record in their studies.

I was one of the grads in the crowd and this event has left a lasting impression on me since it did pay tribute to the hard

work and diligence shown by veterans, many of whom experienced great anguish returning to or beginning studies after the heady and harrowing experiences of battle and world wide travel. (I know.)

I was retelling this story to a Rotary friend one day and he said "I was that father, and the little child was my daughter."

I realize this is just one of the thousands of stories about the Armoury but is one story that highlights the opportunities UBC provided to veterans and the part these mature students would later play in the development of Canada.

E.D. (Ted) McRae
BA, BSW ('48), MBA ('71)

Budget

Continued from Page 1

Apart from salaries, other cost increases include rises in utility rates, expenses involved in operating new space and regulatory and legislated cost increases such as pensions for part-time employees and higher unemployment insurance, medical and dental premiums.

There is some bright news in the budget, however. The hiring freeze introduced in February has been lifted and some units have received budget increases.

The library acquisition budget for the purchases of new materials is up by \$367,000, an increase of 5.69 per cent. The library is also receiving one-time funding of \$150,000 for an automation project.

Student aid is getting a \$600,000 boost, the university graduate fellowship fund is up by \$177,000, with a similar amount added to the teaching assistant base, and tuition surcharges are providing hikes

for the teaching and learning enhancement fund and the student aid fund. As well, \$1.22 million in academic commitments and priorities made in 1992-93 are being funded.

Tuition fees are set to rise 9.7 per cent next term, as approved by the board earlier this year.

President David Strangway said the province's universities have experienced the greatest decline in funding of any area of the public sector over the last decade.

Funding for hospitals has increased by 40 per cent in per unit grants over the last 10 years and public schools are up by 20 per cent, while college funding decreased by 15 per cent and university funding declined by 30 per cent.

Strangway pointed out that the recent health care sector settlement reduces service levels, but not funding, resulting in a further decrease in productivity. Meanwhile, universities have greatly increased their productivity over the past decade, serving more

students with less provincial funding per student.

To help the university respond to the budget situation, the Dept. of Human Resources is developing a re-positioning strategy to provide options for university staff who wish to consider alternative employment possibilities, including job sharing, reduced work load or early retirement.

"We expect that this year's grim financial situation will improve in 1994-95," Strangway said. "We are looking for a grant increase so that we can cover the cost of inflation without having to reduce our services to students and the people of B.C. We are also looking for an enrolment growth fund to meet the needs of the province."

"We also expect that the remaining incremental pay equity commitment of \$1.5 million will be honoured and we expect that any new policies imposed on us by legislation will receive offsetting grants," he said.

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Deal paves way in job category dispute

by Connie Filletti

Staff writer

UBC and CUPE local 2950 have established a process for arbitrating conflicts arising from the university's job posting and classification systems.

The agreement follows an ongoing dispute initiated by the union local in 1990 which challenges UBC's classification of up to 230 administrative positions between Jan. 1, 1990 and July 14, 1993.

The agreement allows for the examination of the positions retroactive to 1990, which the union feels were inappropriately classified, and for the resolution of future disputes.

"Under the terms of the letter of agreement signed on July 6, 1993, classification disputes will now be dealt with in a prompt and economical manner," said Frank Eastham, associate vice-president, Human Resources.

"This is a welcome result that allows for both reconciliation of past differences between the parties, and an expeditious and reasonable process that will aid us in

dealing with current and future classification issues."

CUPE 2950 now must provide UBC with written notice of any position the union local feels has been improperly posted or classified within 10 days of the university's actions.

If the parties, who are responsible for meeting within five days of the written notice, are unable to reach an agreement, the dispute will be immediately referred to a job assignment umpire.

The umpire is required to hear the case, render a binding decision and determine details for implementing the settlement within five days.

If the specified time limits are not met at any point in the process by CUPE 2950 or the job assignment umpire, UBC retains the right to proceed with its original action, subject to the umpire's decision at a later date.

The agreement also recognizes the Association of Administrative and Professional Staff (AAPS) as a participant in the process, which may make submissions on behalf of an employee at that employee's request.



MOA photo

Spell-Binding

Actors with the Chinese Cultural Centre Theatre Company rehearse a scene from PAN, a dark drama which will be presented at the Museum of Anthropology Aug. 27, 28 and 29. The company, Vancouver's only Chinese-Canadian theatre troupe, was created by UBC Fine Arts graduate Kevin Ma in 1991. For tickets call 822-5087.

"Open, fair" workplace promised in agreement

by Connie Filletti

Staff writer

The UBC Faculty Association has voted to approve amendments to the agreements that outline the legal relationship between the university and faculty.

"The openness and fairness inherent in the new agreements should mean that relatively few disputes will go to arbitration, making for a happier and more democratic workplace," said William Bruneau, president of the Faculty Association.

Highlights of the amendments include:

- extension of scope of bargaining for sessional lecturers and bargaining rights for part-time faculty who are at least 50 per cent time

- possibility of negotiating rules for early termination agreements
- removal of unanimity requirement in salary arbitration

- access to arbitration to resolve grievances, especially concerning re-appointments, tenure and promotion

- flexible pre-tenure period up to seven years

- fairer definition of procedures leading to the promotion and or tenure decision

- suspension, dismissal and disciplinary measures subject to arbitration

Salary and grievance procedures limiting bargaining rights for sessional lecturers, as well as decisions regarding re-appointment, tenure and promotion,

were the association's main concerns with the existing agreements, Bruneau said.

He cited the greater efficiency, streamlining and logical progression of the methods established to deal with these issues as the major strengths of the amended agreements, particularly in the area of salary arbitration.

Dr. William Webber, associate vice-president, Academic, said university negotiators were delighted to have the agreement completed and ratified.

"We were particularly pleased at the increased flexibility of the pre-tenure period which will clearly benefit both faculty members and the university," said Webber.

Bruneau declined to state what percentage of the association's membership voted in favour of the amendments, but said that "a considerable majority" of the 2,050 members approved the proposed changes in a vote taken on June 30.

The framework agreement for collective bargaining and the agreement on conditions of appointment had been under formal negotiation since 1990.

Talks between the negotiators for the association and the university were deferred for several months while a report commissioned by the Canadian Association of University Teachers to study the terms and conditions of employment, including appeal procedures, was prepared at the request of the association.

The agreements were ratified by UBC's Board of Governors at its July 22 meeting.

Offbeat

by staff writers

Since 1988, UBC's ubiquitous mascot — the blue, white and gold T-Bird — has been entertaining varsity sports fans and campus visitors alike with fun-loving hijinks.

But five years of constant cartwheels, poses, hoists, falls and folly have taken their toll on the giant woolly costume.

Frayed eyes, a too-tweaked beak, stains, rips and wrinkles necessitated the commissioning of a new comical cloak. However, staff at the School and College Liaison Office had a nasty surprise when the 1993 T-Bird arrived on their doorstep.

"It looked too much like a duck," said liaison officer Blair Grabinsky, who planned to use the T-Bird during campus orientation sessions for new students Aug. 5 to Sept. 3.

Grabinsky said the remodelled T-Bird will undergo a nose job to make its new beak look less like a bill.

Don Wells, the university's sports information officer, had his own concerns about the new design: "UBC Thunderducks just doesn't carry the right message."



T-Bird

And the award goes to... UBC grads! Yes, graduates of the university's Dept. of Theatre and Film hit the jackpot this year earning top honours in the movie-making industry.

At the Academy Awards, David Valdes took the podium to receive the Oscar for Best Picture. He produced Clint Eastwood's winning entry, The Unforgiven, a blockbuster which swept the annual awards.

Meanwhile, on Broadway, Brent Carver won the Tony for best actor in a musical for his lead performance in Kiss of the Spider Woman.

Not a bad haul!

Meanwhile, the story which became the Oscar-nominated film Raise the Red Lantern has been translated into English along with two other novellas by Chinese author Su Tong. This is Su's first book published in English, with translation by Michael Duke, head of the Dept. of Asian Studies.

We all saw the photos of U.S. President Bill Clinton running on the Stanley Park seawall wearing a UBC sweatshirt. But did you know that his Russian counterpart was also fitted with a souvenir garment?

President Boris Yeltsin was presented with a bright red UBC Engineers jacket, complete with Lady Godiva crest, during the historic summit held at Norman MacKenzie House in April.

Many visiting dignitaries have received engineering jackets over the years, including royalty. Prince Charles has one.

Yeltsin tried the jacket on, but didn't take it home with him. For some reason, the Russians were very uneasy about accepting gifts. But there might be another reason. Red isn't a very popular colour in Russia these days.



Yeltsin

Spencer returns as registrar for second five-year term

by Connie Filletti

Staff writer

Richard Spencer has been appointed by UBC's Board of Governors to a second five-year term as registrar.

As registrar, Spencer acts as the secretary to Senate and the faculties, and is an ex-officio member of all Senate committees.

Spencer, 53, received his undergraduate and graduate training at the University of Auckland, New Zealand. He joined UBC in 1968 as an assistant professor in the Dept. of Civil Engineering and was first appointed registrar in 1988.

His memberships include the Canadian Society of Civil Engineers, the Association of Registrars of the Universities and Colleges of Canada and the American



Spencer

Association of Collegiate Registrars and Admissions Officers.

He currently serves as chair of UBC's Student Exchange Program Advisory Committee and the Student Information Systems Advisory Committee.

Spencer is also actively involved in the President's Advisory Committee on Teaching Space, the President's Advisory Committee on Space Allocation, and the Enrolment Management Steering Committee of the Ministry of Advanced Education, Training and Technology.



Abe Hefferphoto

Sisters Megan (left) and Paige Gordon brought home a total of three medals from the World University Games in Buffalo, New York.

UBC swimmer sets World University Games record

by Abe Heffer

Staff writer

A World University Games record by swimmer Turlough O'Hare highlighted performances posted by UBC athletes at last month's games in Buffalo, New York.

O'Hare combined a record-setting performance in the 800-metre freestyle with a first-place finish in the 400-metre freestyle to come away with two gold medals.

He also won a bronze medal in the 200-metre freestyle.

Paige Gordon captured two silver medals: one in the three-metre diving competition, the other as a result of a second-place finish in the team diving competition. Her sister, Megan, was also part of the silver medal-winning team.

Rower Michelle Brindamour came home with a silver medal as a result of a second-place finish in the lightweight twos.

Shawn Walsh and Jack Walkey were

part of the bronze medal-winning eights in rowing, while Jeff Hilton won a bronze medal for his performance in the double sculls.

A total of 17 athletes, three coaches and one staff member from UBC joined Bob Philip, director of Athletics and Sport Services and president of the Canadian Interuniversity Athletic Union, in Buffalo for the games.

More than 5,000 athletes from 106 countries participated.

Canadian athletes came away with 40 medals, including 12 gold, 14 silver and 14 bronze.

Meanwhile, Graeme Fell's gold-medal performance in the 3,000-metre steeplechase led the contingent of UBC athletes at the Canadian Track and Field Championships July 31-Aug. 1 at Town Centre Stadium in Coquitlam.

Zeba Crook won the bronze in the same event.

Allan Klassen took the silver in the 1,500 metres while Jeff Schiebler won the bronze in the 5,000 metres.

Prof. teaches skills in Costa Rica

by Abe Heffer

Staff writer

What does a remote community in southwest Costa Rica have in common with a typical logging town in the British Columbia interior?

Thanks to the efforts of Forestry Associate Prof. Andrew Howard, the World Wildlife Fund (WWF) and a Costa Rican conservation group, quite a bit.

Howard has returned to UBC from the tropical rain forests of Corcovado National Park, where the conservation group is helping a small community of about 250 people move from cattle raising to a forestry-based economy.

The community is located in a buffer zone that was established to protect the park. However, Howard explained, the residents were simply cutting down most of the trees in the area without any regard to the park, and using the land to raise cattle for food and cash.

"These people didn't know where the park boundary was and they didn't care," said Howard. "They were doing what they knew best to survive."

The WWF, which had established the national park, set up a portable sawmill in the community and set out to organize local residents to help them manage the land co-operatively. That's where Howard came in. In August of 1991, while on a one-year sabbatical leave, he was brought in to help the residents understand that managing the land co-operatively meant more than just chopping down trees.

"The establishment of the sawmill created an immediate impact. What we had was a microcosm of a typical town in

the B.C. Interior. People were hired to staff the sawmill, other people were needed to turn the lumber into furniture, and the people in the area purchased the finished product.

"My job was to determine if the forested lands in the community, which cover 1,200 hectares, could sustain the sawmill's production."

Howard said the residents appreciated his efforts and were anxious to learn more about managing the land on a sustained basis. He quickly learned to appreciate the human aspect of life in this tiny community and became one of the focal points in the area for several reasons:

- he worked hard at communicating with residents in Spanish, even though he knew very little going into the job;
- he helped in the education process that the residents had to go through to grasp the fundamentals of land management, and;
- he had a car.

"My car quickly turned into a bus and I ended up transporting both people and equipment throughout the area. It certainly helped get the job done."

Through his research, Howard determined that annual cuttings are sufficient to supply the sawmill for the next 20 years. However, more aggressive reforestation activities are needed to keep the project going on a long-term basis.

"These are the recommendations I've made to the WWF," said Howard.

"Implementation is still probably a few years away, but until then, the residents can continue to learn more about logging practices and the operation of the sawmill."

People

by staff writers

Jo-ann Archibald has been named the new director of the First Nations House of Learning effective July 1. Appointed for a five-year term, she takes over from founding director

Verna Kirkness.

Since 1981, Archibald has been a lecturer, instructor and supervisor in the Native Indian Teacher Education Program (NITEP), as well as an advisor in the Ts'kel Graduate Program. She holds a BEd from UBC, a Master of Education and is presently completing her dissertation for a PhD.

Archibald's experience with First Nations communities and issues also extends beyond the university to the provincial and national levels.

UBC hopes to achieve an enrolment of 1,000 First Nations students within the decade, four times the current population.



Archibald

The UBC Alumni Association recently announced its board of directors for 1993-94.

The association's new president is **James Stich** (BSc '71, DMD '75).



Stich

This post is automatically filled by the senior vice-president. Elected by acclamation to that post this year was **Debra Browning**, LLB '80. The past-president is **Martin Glynn** BA, MBA '76.

Dickson Wong BCom '88, was elected treasurer by acclamation.

Members-at-large elected for a two-year term are: **Beryl March** BA '42, MSA '62 DSc (Hon) '88; **Tricia Smith** BA '80, LLB '85; and **Grace Wong**, BEd '74, MBA '83.

They will join sitting members-at-large **Pamela Friedrich** BA '67; **Gary Moore**, BCom '76, MBA '82; and **Louanne Twaites**, BSc (Pharm) '53.

Landscape Architecture Assistant Prof. **Patrick Mooney** has won a 1993 Canadian Society of Landscape Architects Research Citation for Research for his work demonstrating the therapeutic effects of gardens for Alzheimer's patients.

Mooney was co-author of a study which showed care home residents with Alzheimer's and other dementias were less frustrated and violent if given regular access to gardens designed with their needs in mind.



Mooney

Associate Prof. **Susan Barr** of the School of Family and Nutritional Sciences has been honoured with an award of achievement at the Canadian Dietetic Association's annual conference.

The award, sponsored by Nestle Foodservice, recognizes outstanding contribution to the advancement of dietetics.

Barr was director of continuing education in nutrition and dietetics at UBC from 1986 to 1992, at which time she administered a semi-annual audio conference series which provided a sound nutrition base for members of the British Columbia Dietitians and Nutritionists Association.

During her academic career, she has championed the value and need for life-long learning in nutrition.

Barr is a fellow of the Canadian Dietetic Association, which represents more than 5,100 registered dietitians across Canada. This year, she was awarded a university teaching prize by the Faculty of Agricultural Sciences for excellence in teaching.



Barr

Veronica Strong-Boag, director of the Centre for Research in Women's Studies and Gender Relations, has been installed as president of the Canadian Historical Association (CHA).

Strong-Boag, a professor of social and educational studies in the Faculty of Education, joined UBC in 1990. In 1988, she received the CHA's John A. Macdonald Prize for the best book in Canadian history, for her study of the lives of girls and women in English Canada between 1919 and 1939.



Strong-Boag

Kenneth Baimbridge has been appointed to a five-year term as head of the Dept. of Physiology effective May 1.

Baimbridge received his BSc and PhD degrees from the University of Southampton, England before joining UBC in 1977 to pursue postdoctoral studies.

He is active in UBC's interdisciplinary neuroscience graduate program and currently serves as treasurer for the Canadian Physiological Society and as a member of the B.C. Health Research Foundation basic sciences committee.

The major focus of his research has been the physiological and pathophysiological action of calcium in neurons.

Calendar

August 15 through September 4

Notices

Infant Language Research

Have you ever wondered how infants learn language? Help us find out! If your child is between one and 14 months of age and you would like him/her to participate in our infant language acquisition studies, please call Dr. Janet Werker's lab at 822-6408 (ask for Carmen or Diane).

Centre for Faculty Development

August 30-September 1 inclusive. Instructional skills workshop for graduate teaching assistants. Adult Education Research Centre from 8:30am to 4:30pm. Call 822-9149/9164.

School and College Liaison Office

Get a head start at UBC. Participate in Orientation '93 and prepare yourself for the challenges and excitement of UBC. All first year students, their parents and transfer students are invited to attend. Registration required. Call 822-2790.

Campus Tours

School and College Liaison tours provide prospective UBC students with an overview of campus activities/faculties/services. Every Friday at 9:30am. Reservations required one week in advance. Call 822-4319.

UBC Bookstore

Winter hours in effect August 16 are as follows:
Mon., Wed., Fri., 8:30am-5pm; Wed., 8:30am-8:30pm; Sat., 9:30am-5pm. Call 822-2665.

Rhodes Scholarship Applicants 1994

Application forms available from the UBC Awards Office. Candidates must be Canadian

citizens and born between Oct. 2/69-Oct. 1/75; be unmarried; and except for medical students, be recipients of an undergrad degree. Deadline, Oct. 22/93. Call Awards Office at 822-5111.

Professional Development For Language Teachers

Continuing Studies' English Language Institute offers practical workshops for teachers in: Intercultural Learning, Pronunciation, Field Trips, Reading Comprehension, Writing/Classroom Management. Courses in progress. Call 222-5208.

International Reachout Program

Student volunteers write letters to students intending to attend UBC, explaining life at UBC and in Canada, to ease the apprehension of international students. For information go to International House or call 822-5021.

Continuing Studies Reading Writing/Study Skills Centre

Courses beginning in July include Basic Skills, Impromptu Speaking, Study Skills, Reading for Speed/Comprehension, Grammar, Composition and Writing Improvement. Call 222-5245.

Language Programs/Services

Spanish, Japanese, Mandarin and Cantonese - Aug. 3-20. Call 222-5227.

Women Students' Office

Advocacy/personal counselling services available. Call 822-2415.

Fine Arts Gallery

Tues.-Fri. from 10am-5pm. Saturdays 12-5pm. Free admission. Main Library. Call 822-2759.

Psychology Research Study

Seeking participants for a one-hour study involving the detection of deception in pain manifestation in illness behaviour. Honorarium \$10. Approx. one-hour appt. Call 822-5280.

Behavioural Study

Parents of children between 5-12 years of age are needed for project studying parent-child relationships. Involved are mailed questionnaires about family interactions. Contact Wendy at 822-9037.

Study on Sexual Functioning in Women

If you are a heterosexual female, over 21 years of age, currently requiring insulin treatment for diabetes mellitus, call 822-2998. Honorarium.

G.F. Strong Rehab Centre Research

Volunteers wanted for study: Reaction Time To Visual Cues. Male and female ages 18-80 required. A one-time only visit of 30 minutes. Corrective lenses are OK. Call Desirée for appt. times and location at 734-1313.

Sexual Harassment Office

Advisors are available to discuss questions or concerns and are prepared to help any member of the UBC community who is being

sexually harassed find a satisfactory resolution. Call Margaretha Hoek at 822-6353.

Clinical Research Support Group

Faculty of Medicine data analysts supporting clinical research. To arrange a consultation, call Laura Slaney 822-4530.

Bone Building Study

10-11 year old females required for study on changes in bone during growth. Participation includes monitoring of bone density, nutrition and growth. Call 822-6766.

Stress Study

Seeking volunteers from the UBC management/professional staff who feel they cope with stress quite well or not well at all for participation in a two-hour group interview. Call Bonita Long at 822-4756/Sharon Kahn at 822-5454.

UBC Hearing Access Project

Free hearing assessments/help in dealing with effects of hearing loss on communication. Open to all UBC students, staff and faculty. Audiology/Speech Sciences. Call 822-5798.

High Blood Pressure Clinic

Adult volunteers needed to participate in drug treatment studies. Call Dr. J. Wright in Medicine at 822-7134/RN Marion

Barker at 822-7192.

Volunteer Opportunity

University Hospital, UBC Site, invites friendly help to join the Volunteer Services group to staff the gift shop, visit patients and participants in other programs. Call Dianne at 822-7384.

Statistical Consulting/Research Laboratory

SCARL is operated by the Department of Statistics to provide statistical advice to faculty/graduate students working on research problems. Call 822-4037.

Surplus Equipment

Disposal of all surplus items. Every Wednesday, 12-5pm. Task Force Bldg., 2352 Health Sciences Mall. Call Vince at 822-2582/Rich at 822-2813.

Introductory Main Garden Tours

Every Wednesday/Saturday now through to September 25 at 1pm at the entrance to Botanical Garden. Admission cost includes tour. Call 822-4208.

Nitobe Garden

More beautiful than ever after recent renovations. Summer hours 10am-6pm daily. Call 822-4208.

Miscellany

Thursday, August 19

MOST Workshop

Presenting A Professional Image. Joan Harvey, Executive Programs, Commerce. Grad Centre Patio Room from 9am-12pm. UBC employees only; fee \$25. Call 822-9644.

Wednesday, August 25

MOST Workshop

Disability Awareness. Henry Angus 109 from 9am-12pm. UBC employees only. Call 822-9644.

Friday, August 27

Museum Of Anthropology Cultural Event

Pan: Judgement. The Chinese Cultural Centre Theatre Company. MOA Great Hall at 8pm through to Aug. 29. Adults \$8; members/students/seniors \$6. Call 822-5087.

Tuesday, August 31

Computer-Aided Design Workshop

Continuing Education one-day workshop consists of lectures, software demonstrations and hands-on project. Faculty and staff, School of Architecture. Repeats on Sept. 2. Apple Design/Modelling Centre, West Mall Annex 110A from 8:30am-5pm.

Call 822-3347.

Sunday, September 12 Shrum Bowl XVII - Football Game

UBC vs SFU. Swangard Stadium, Burnaby at 1:30pm. Tickets are available at the AMS SUB Ticket Office or call 822-2531/24-hour Thunderbird Varsity Sports Line at 222-BIRD.

UBC REPORTS

CALENDAR DEADLINES

Material for the Calendar must be submitted on forms available from the UBC Community Relations Office, 207-6328 Memorial Road, Vancouver, B.C. V6T 1Z2. Phone: 822-3131. Fax: 822-2684. Notices exceeding 35 words may be edited.

Deadline for the September 2 issue of UBC Reports — which covers the period September 5 to September 18 — is noon, August 24.

Lectures

Friday, August 20

Pulp And Paper Centre

DOW Distinguished Lecturer: Hydrodynamic Forces On A Slender Particle Translating Through A Fluid At Intermediate Reynolds Number. Prof. Raymond G. Cox, Civil Engineering/Applied Mechanics, McGill U. Pulp/Paper

Centre 101 at 11am. Call 822-8563.

Applied Mathematics Colloquium

Numerical Methods For Bloch-Poisson Type Equations. Dr. Norbert Muser, Technical U. of Berlin. Mathematics 229 at 10am. Call 822-4584.

UBC heads national MS study

by Connie Filletti

Staff writer

UBC will be the co-ordinating centre for a landmark Canadian research initiative investigating the genetic cause of multiple sclerosis (MS).

Fourteen MS clinics from across Canada will participate in the three-year, \$2.2-million study involving more than 20,000 MS patients who are registered with the centres.

MS is a chronic disease of the central nervous system which affects about one in every 1,000 Canadians. Usually striking

between the ages of 20 and 40, it is the most common disease of the central nervous system of young adults in Canada.

Symptoms may include weakness and fatigue, speech and vision problems, numbness, loss of balance and co-ordination and paralysis.

Dr. Dessa Sadovnick, principal investigator of the study and an assistant professor in UBC's Dept. of Medical Genetics, will supervise the research.

"It is our hope that the study will enable us to clarify the exact role of genes in the susceptibility to MS and therefore, help us to

treat and perhaps even prevent this debilitating, common, complex disorder. The implications of this work to families could be enormous."

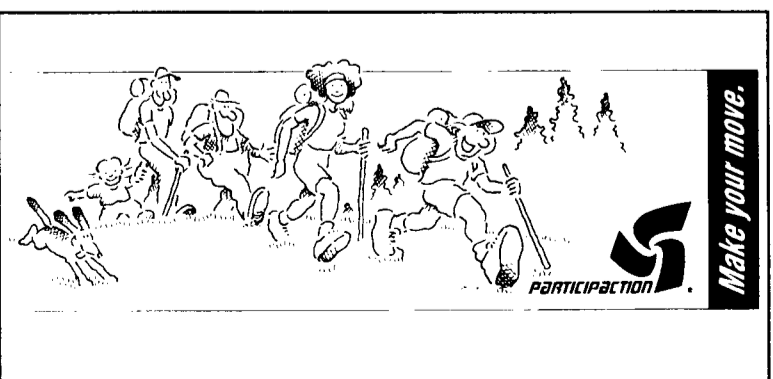
Sadovnick, who joined UBC in 1981, established the prototype for the collection of genetic information about MS cases at the university's MS clinic. The database now has information on more than 3,000 MS patients and their relatives.

Funding for the study is being provided by the Multiple Sclerosis Scientific Research Foundation, an affiliate of the Multiple Sclerosis Society of Canada.

Correction

We reported in the July 15 issue of UBC Reports that University Prof. Charles McDowell has been appointed a member of the Order of Canada.

He has in fact been appointed to the higher rank of officer of the Order of Canada.





UBC GAZETTE

BOARD OF GOVERNORS' MEETING
JULY 22, 1993

FINANCE

Appropriations at March 31, 1993

The University maintains a general purpose operating budget program which, subject to annual approval of the Board of Governors, allows faculties and operating areas aggregated at the appropriate vice-presidential level, to carry forward unexpended funds into the subsequent fiscal year up to a maximum of 5% of the budget allocation for the current year.

The Board approved appropriations totaling \$3,870,667 for the year ended March 31, 1993.

Financial Statements at March 31, 1993

The Board approved the Financial Statements for the fiscal year ended March 31, 1993.

The statements have been issued in compliance with C.I.C.A. (Canadian Institute of Chartered Accountants) standards relative to accruals that allows the Auditor General to give an unqualified opinion on the statements.

POLICIES

The Board approved the following policies, and the President's procedures for implementation and administration of the policies were noted.

- (1) Entertainment
- (2) Research
- (3) Patents & Licensing
- (4) Travel and Related Expenses

Child Care Services Rate Changes and Budget 1993-94

That, subject to the proviso that the new rates will take effect on August 1, 1993, and not June 1, 1993,

1. The rates conditionally approved

at the March 1993 meeting of the Board are re-confirmed, and the budget for 1993-94 is approved.

2. The University, through the general purpose operating fund and support of the Department of Housing continue to support the office of Coordinator Child Care Services at an appropriate level.

3. Over the three years 1993-96, the Child Care Services will receive an additional operational subsidy of \$140,000 in the first year, \$70,000 in the second year and \$35,000 in the third year. The Child Care Services, over the next three years, should set its rates at a level such that it recovers all its operating costs. The shortfalls would be the responsibility of the Department of Housing and Conference Services.

4. The Coordinator of Child Care Services will continue to work with the parent groups to seek ways of reducing the operational costs.

5. That the progress of the approximately 57% of students with children in day care who require financial assistance through the Awards and Financial Aid office be monitored; and that a report be made to the Board of Governors at its meeting scheduled for September 16, 1993.

PROPERTY

Minor Capital Budget

The Minor Capital Budget recurs yearly and is apportioned on the basis of requests from departments or interest areas as endorsed by Deans and confirmed by Vice-Presidents.

The Board of Governors approved the 1993/94 Minor Capital Budget totaling \$15,060,900.

Deferred Maintenance Budget

The Deferred Maintenance Budget totaling \$6,252,800 was approved.

Naming of Buildings

As recommended by the Committee on the Naming of Buildings, the Board

concurred that the Faculty Apartments II on Osyoos Crescent be called:

Point Grey Apartments
Spirit Park Apartments

The Board noted that the following campus facilities had been named as indicated in accordance with the policy approved by the Board of Governors on March 2, 1989, giving the President the authority to name campus facilities in honour of donors for the duration of the fund-raising campaign.

New Library Centre—"Walter C. Koerner Library"
School of Social Work—"Jack Bell Building for the School of Social Work"
Naming within the David Lam Management Research Centre—

Level 1
Peter Lusztig Tower
Edgar F. Kaiser Forum
Royal Trust Seminar Room
Lily and Robert H. Lee Seminar Room
Canaccord Capital and Peter M. Brown Conference Room
Level 2
David Lam Management Research Library
Chevron Canada Study Room
MacMillan Bloedel Research and Seminar Rooms
Level 3
Geoffrey and Sandra Lau Study Area
Level 4
Sydney Leong Conference Centre

OTHER MATTERS

The Board has reappointed Dr. Richard A. Spencer as University Registrar for a second, and final, five-year term ending June 30, 1998. Dr. Spencer's reappointment was unanimously recommended by the Advisory Committee for the Reappointment of the University Registrar which was established by President David W. Strangway in March, 1993. The Advisory Committee was broadly based, and solicited input and comments from the campus community in a variety of ways.

Aquatic Centre Management Committee Appointments

The following were appointed as university representatives for the Aquatic Centre Management Committee for the periods indicated:

Dr. James F. Richards—For the third year of a three-year term to March 31, 1994
Dr. Charles E. Slonecker—For the second year of a three-year term to March 31, 1995
Ms. Leanne Jacobs—For the first year of a three-year term to March 31, 1996

Board Standing Committee on Occupational Health, Safety and the Environment

The Board approved the establishment of a Board Standing Committee on Occupational Health, Safety and the Environment.

Staff Pension Plan

The Board approved amendments to the Staff Pension Plan primarily to comply with Income Tax regulations that have been released by Revenue Canada.

In addition, a number of "housekeeping" amendments were made. The most notable are:

1. Name of Plan—changed to "The University of British Columbia Staff Pension Plan" from The University of British Columbia Pension Plan for members of the employed staff.
2. Related Employers—to legitimize the current participation of employees of other employers such as TRIUMF and union employees.
3. Reciprocal Agreements—authorizes the University to enter into reciprocal agreements with other plans.

Children's Services Employees Union

The Board approved the agreement reached between the University and The Children's Services Employees' Union.

The Board of Governors at its meeting of July 22, 1993 approved the following recommendations and received notice about about the following items.

Peter Frost, Associate Dean, Faculty of Commerce & Business Administration, July 1, 1993 to June 30, 1994.

Catherine Vertesi, Assistant Dean, Faculty of Commerce & Business Administration, July 1, 1993 to June 30, 1994.

Donald Wehrung, Associate Dean, Faculty of Commerce & Business Administration, July 1, 1993 to June 30, 1994.

Grace Wong, Assistant Dean, Faculty of Commerce & Business Administration, July 1, 1993 to June 30, 1994.

John McLean, Associate Dean, Faculty of Forestry, July 1, 1993 to June 30, 1994.

Phil Bryden, Associate Dean, Faculty of Law, July 1, 1993 to June 30, 1994.

William E. Rees, Director, School of Community & Regional Planning, January 1, 1994 to June 30, 1999.

Bruce McManus, Head, Department of Pathology, July 1, 1993 to June 30, 1998, and Professor, July 1, 1993 without term.

Ronald Foreman, Acting Head, Department of Botany, May 1, 1993 to June 30, 1994.

Susan Kieffer, Head, Department of Geological Sciences, August 1, 1993 to June 30, 1998, and Professor, August 1, 1993 without term.

George Wagner, Assistant Professor, School of Architecture, July 1, 1993 to June 30, 1994.

Jim Mehaffey, Associate Professor, Department of Chemical Engineering, May 1, 1993 to June 30, 1996.

Donald William Gillies, Assistant Professor, Electrical Engineering, July 1, 1993 to June 30, 1994.

Joy Louise Johnson, Assistant Professor, School of Nursing, July 1, 1993 to June 30, 1995.

Coenraad Pinkse, Assistant Professor, Department of Economics, July 1, 1993 to June 30, 1995.

Craig Somerville, Assistant Professor, Faculty of Commerce & Business Administration, January 1, 1994 to June 30, 1996.

Robert Walker, Professor, Department of Visual & Performing Arts in Education, July 1, 1993 without term.

Judith Mosoff, Assistant Professor, Faculty of Law, July 1, 1993 to June 30, 1995.

Bruce Carleton, Assistant Professor, Faculty of Pharmaceutical Sciences, January 1, 1994 to June 30, 1996.

Donna Shultz, Instructor I, Writing Centre, July 1, 1993 to June 30, 1994.

RESIGNATIONS

The Board accepted the following resignations.

Peter Jones, Associate Professor, School of Family & Nutritional Sciences, March 31, 1993.

Sheldon Cherry, Professor, Department of Civil Engineering, June 29, 1993.

John Lund, Professor, Department of Metals & Materials Engineering, June 29, 1993.

John Stager, Professor, Department of Geography, June 29, 1993.

Nancy E. Ryan, Assistant Professor, Faculty of Commerce & Business Administration, June 30, 1993.

Penelope Leggott, Associate Professor, Department of Clinical Dental Sciences, June 30, 1993.

Hannah Polowy, Assistant Professor, Department of Educational Psychology &

Special Education, June 29, 1993.

Tom Schroeder, Associate Professor, Department of Mathematics & Science Education, August 31, 1993.

PROMOTIONS

To Professor

Applied Science
Bruce Bowen, Chemical Engineering
C.J. Lim, Chemical Engineering
Alan Russell, Civil Engineering
Rabab Ward, Electrical Engineering

Arts

Lynn Alden, Psychology
Brian Elliott, Anthropology & Sociology
Neil Guppy, Anthropology & Sociology
Richard Hodgson, French
Ashok Kotwal, Economics
Jesse Read, Music
Angela Redish, Economics
Jerry Wasserman, English
Earl Winkler, Philosophy

Commerce

Derk Atkins
Anthony Boardman
Espen Eckbo
Maurice Queyranne

Dentistry

V. Veli-Jukka Uitto, Oral Biology

Education

Hillel Goelman, Language Education
Sharon Kahn, Counselling Psychology
Marvin Westwood, Counselling Psychology
Doug Willms, Social & Educational Studies

Richard Young, Counselling Psychology

Graduate Studies

Michael Seelig, Community & Regional Planning

Medicine

Gary Brayer, Biochemistry
Alison Buchan, Physiology
James Carter, Paediatrics
Joanne Emerman, Anatomy
Alexander Ferguson, Paediatrics
Sheila Innis, Paediatrics
Gillian Lockitch, Pathology
Rick Mathias, Health Care & Epidemiology
David Stringer, Radiology (with grant tenure)
Steven Vincent, Psychiatry
Joanne Weinberg, Anatomy

Pharmaceutical Sciences

Kathleen MacLeod

Science

Harry Joe, Statistics
John MacDonald, Mathematics
Paul Smith, Geological Sciences
George Spiegelman, Microbiology
Nathan Weiss, Physics

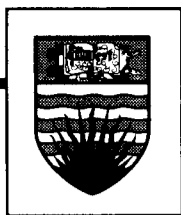
To Associate Professor

Agricultural Sciences

David Kitts, Food Science (with tenure)
Patrick Mooney, Plant Science

Applied Science

Sonia Acorn, Nursing (with tenure)
David Dreisinger, Metals & Materials Engineering (with tenure)



UBC GAZETTE

W.G. Dunford, Electrical Engineering
Gloria Joachim, Nursing
Samir Kallel, Electrical Engineering (with tenure)
Judith Lynam, Nursing

Arts
Dawn Currie, Anthropology & Sociology (with tenure)
Anita Delongis, Psychology (with tenure)
Christopher Gallagher, Theatre & Film (with tenure)
Harjot Oberoi, Asian Studies (with tenure)
David Pokotylo, Anthropology & Sociology
Katherine Rankin, Psychology (with tenure)
Paul Yachnin, English (with tenure)

Commerce
Hong Chen (with tenure)
Thomas McCormack (with tenure)

Education
Molra Luke, Human Kinetics
David Sanderson, Human Kinetics

Forestry
Stavros Avramidis, Harvesting & Wood Science
Robert Guy, Forest Sciences (with tenure)
Peter Marshall, Forest Resources Management
John Nelson, Harvesting & Wood Science (with tenure)

Medicine
Roger Brownsey, Biochemistry
Ian Clark-Lewis, Medicine (with grant tenure)
Duncan Farquharson, Obstetrics & Gynaecology
Frank Jirik, Biomedical Research Centre (with grant tenure)
Susan Kennedy, Medicine (with grant tenure)
Raymond Lam, Psychiatry (with grant tenure)
Mark Meloche, Surgery (with tenure)
Graydon Meneilly, Medicine (with grant tenure)
Julio Montaner, Medicine (with grant tenure)
Steven Pelech, Medicine (with grant tenure)
Peter Reiner, Psychiatry (with grant tenure)
Elke Roland, Paediatrics (with grant tenure)
Nicholas Swindale, Ophthalmology (with grant tenure)
Glenn Taylor, Pathology
Keith Walley, Medicine (with grant tenure)
Pearce Wilcox, Medicine (with grant tenure)
Douglas Wilson, Medical Genetics
Hermann Ziltener, Pathology (with grant tenure)

Pharmaceutical Sciences
Wendy Duncan-Hewitt

Science
Richard Froese, Mathematics (with tenure)
William Hsieh, Oceanography/Physics
Rosemary Knight, Geological Sciences (with tenure)
James Little, Computer Science (with tenure)
Jian Liu, Statistics (with tenure)
Gerald Neufeld, Computer Science (with tenure)
David Poole, Computer Science (with tenure)
Christopher Waltham, Physics (with tenure)
Ruben Zamar, Statistics

TO ASSISTANT PROFESSOR

Arts
Lilita Rodman, English

TENURE

The following faculty members were granted appointments without term.

Agricultural Sciences
David Kitts, Food Science (as Associate Professor)

Applied Science
Sonia Acorn, Nursing (as Associate Professor)
David Dreisinger, Metals & Materials Engineering (as Associate Professor)
Samir Kallel, Electrical Engineering (as Associate Professor)

Arts
Jo-Shui Chen, Asian Studies
Dawn Currie, Anthropology & Sociology (as Associate Professor)
Julia Cruikshank, Anthropology & Sociology (as Associate Professor)
Anita Delongis, Psychology (as Associate Professor)
David Edgington, Geography
Christopher Gallagher, Theatre & Film (as Associate Professor)

William McKellin, Anthropology & Sociology
Harjot Oberoi, Asian Studies (as Associate Professor)
John O'Brien, Fine Arts
Christine Parkin, English (as Senior Instructor)
Katherine Rankin, Psychology (as Associate Professor)
Maureen Ryan, Fine Arts
Sharon Singer, Social Work
Mary Sue Stephenson, Library, Archival and Information Studies (as Senior Instructor)
John Wright, Theatre & Film
Paul Yachnin, English (as Associate Professor)

Commerce
Thomas McCormack (as Associate Professor)
Hong Chen (as Associate Professor)
Carson Woo

Education
Jo-ann Archibald, Social & Educational Studies (as Senior Instructor)
Mary Bryson, Educational Psychology & Special Education
Kit Grauer, Visual & Performing Arts in Education (as Senior Instructor)

Forest Sciences
Christopher Chanway, Forest Sciences
Robert Guy, Forest Sciences (as Associate Professor)
John Nelson, Harvesting & Wood Science (as Associate Professor)

Medicine
Christine Carpenter, Rehabilitation Medicine (as Senior Instructor)
Ian Clark-Lewis, Medicine (grant, as Associate Professor)
Isobel Dyck, Rehabilitation Medicine
Gary Grams, Family Practice
Frank Jirik, Biomedical Research Centre (grant, as Associate Professor)
Arminee Kazanjian (grant)
Steven Kehl, Physiology (grant)
Susan Kennedy, Medicine (grant, as Associate Professor)
Raymond Lam, Psychiatry (grant, as Associate Professor)
Mark Meloche, Surgery (as Associate Professor)
Graydon Meneilly, Medicine (grant, as Associate Professor)
Julio Montaner, Medicine (grant, as Associate Professor)
Steven Pelech, Medicine (grant, as Associate Professor)
Terence Phang, Surgery (grant)
Darlene Reid, Rehabilitation Medicine
Peter Reiner, Psychiatry (grant, as Associate Professor)
Elke Roland, Paediatrics (grant, as Associate Professor)
Christopher Shaw, Ophthalmology (grant)
Chris Shackleton, Surgery (grant)
David Stringer, Radiology (grant, as Professor)
Valerie White, Pathology (grant, joint with Ophthalmology)
Nicholas Swindale, Ophthalmology (grant, as Associate Professor)
Bruce Tiberis, Biochemistry & Molecular Biology (as Senior Instructor)
Keith Walley, Medicine (grant, as Associate Professor)
Pearce Wilcox, Medicine (grant, as Associate Professor)
Hermann Ziltener, Pathology (grant, as Associate Professor)

Pharmaceutical Sciences
David Hill

Science
Carol Borden, Botany (as Senior Instructor)
Terry Crawford, Botany/Zoology (as Senior Instructor)
Loida Escote-Carolson, Biotechnology Laboratory (as Senior Instructor)
Richard Froese, Mathematics (as Associate Professor)
Michael Hawkes, Botany (as Senior Instructor)
Robert Kiefl, Physics
Rosemary Knight, Geological Sciences (as Associate Professor)
James Little, Computer Science (as Associate Professor)
Jian Liu, Statistics (as Associate Professor)
Sandra Millen, Botany (as Senior Instructor)
Gerald Neufeld, Computer Science (as Associate Professor)
Sophia Nussbaum, Chemistry (as Senior Instructor)
Carol Pollock, Zoology (as Senior Instructor)
David Poole, Computer Science (as Associate Professor)
Ellen Rosenberg, Botany & Zoology (as Senior

Instructor)
Elizabeth Vizsolyi, Zoology (as Senior Instructor)
Alan Wagner, Computer Science
Christopher Waltham, Physics (as Associate Professor)

LEAVES OF ABSENCE

Study Leaves

Agricultural Sciences
Judith Myers, July 1, 1993 to June 30, 1994 (joint with Zoology)

Applied Science
Gregory Lawrence, Civil Engineering, January 1, 1994 to December 31, 1994
Yoginder Vaid, Civil Engineering, September 1, 1993 to August 31, 1994.
Joan Anderson, Nursing, September 1, 1993 to August 31, 1994.
Elizabeth Davies, Nursing, July 1, 1993 to June 30, 1994.
Louise Tenn, Nursing, September 1, 1993 to August 31, 1994.

Arts
Braxton Alfred, Anthropology & Sociology, September 1, 1993 to August 31, 1994.
Linda Svendsen, Creative Writing, July 1, 1993 to June 30, 1994.
Bryan Wade, Creative Writing, January 1, 1994 to June 30, 1994.
John Helliwell, Economics, July 1, 1993 to June 30, 1994.
Roger Seamon, English, September 1, 1993 to August 31, 1994 (change from July 1, 1993 to June 30, 1994)
Serge Guillbaut, Fine Arts, January 1, 1994 to June 30, 1994
Judy Williams, Fine Arts, July 1, 1993 to June 30, 1994
Geraldine Pratt, Geography, July 1, 1993 to June 30, 1994
Stefania Ciccone, Hispanic & Italian Studies, July 1, 1993 to December 31, 1993
Arsenio Pacheco-Ransanz, Hispanic & Italian Studies, January 1, 1994 to June 30, 1994
John Conway, History, July 1, 1993 to December 31, 1993
Paul Krause, History, July 1, 1993 to June 30, 1994
Robert McDonald, History, July 1, 1993 to June 30, 1994
James Dybikowski, Philosophy, January 1, 1994 to June 30, 1994
Robert Jackson, Political Science, September 1, 1993 to June 30, 1994
Lynn Alden, Psychology, January 1, 1994 to June 30, 1994
John Sawyer, Music, January 1, 1994 to June 30, 1994

Commerce & Business Administration
James Forbes, January 1, 1994 to December 31, 1994
Robert Goldstein, July 1, 1993 to June 30, 1994
Vasanttilak Naik, July 1, 1993 to December 31, 1993
S. Thomas McCormick, July 1, 1993 to June 30, 1994
Raman Uppal, July 1, 1993 to December 31, 1993

Education
Marshall Arlin, Educational Psychology and Special Education, January 1, 1994 to June 30, 1994
Lee Gunderson, Language Education, January 1, 1994 to June 30, 1994 (change from July 1, 1994 to December 31, 1994)

Edward Rhodes, Human Kinetics, January 1, 1994 to June 30, 1994
David Sanderson, Human Kinetics, July 1, 1993 to December 31, 1993
Leroi Daniels, Social & Educational Studies, January 1, 1993 to June 30, 1993

Forestry
David Haley, Forest Resources Management, January 1, 1994 to December 31, 1994

Graduate Studies
Charles Laszlo, Clinical Engineering, September 1, 1993 to August 31, 1994 (joint with Electrical Engineering)

Law
Jerome Atrens, July 1, 1993 to June 30, 1994
John Hogarth, July 1, 1993 to June 30, 1994
Joseph Weiler, July 1, 1993 to December 31, 1993

Medicine
Ann Rose, Medical Genetics, July 1, 1993 to December 31, 1993
Jean Shapiro, Medicine, July 1, 1993 to June 30, 1994
Josef Skala, Paediatrics, September 1, 1993 to August 31, 1994
David Godin, Pharmacology & Therapeutics, September 1, 1993 to August 31, 1994

Science
A.D.M. Glass, Botany, September 1, 1993 to August 31, 1994
Raymond Andersen, Chemistry, January 1, 1994 to June 30, 1994 (joint with Oceanography)
Gregory Fahlman, Geophysics & Astronomy, July 1, 1993 to June 30, 1994
Tadeusz Ulrych, Geophysics & Astronomy, January 1, 1994 to June 30, 1994
Robert Anderson, Mathematics, September 1, 1993 to August 31, 1994
Lon Rosen, Mathematics, July 1, 1993 to June 30, 1994
Harry Joe, Statistics, January 1, 1994 to June 30, 1994

Other Leaves

Arts
Kenneth Hendricks, Economics, July 1, 1993 to December 31, 1993
James Nason, Economics, July 1, 1993 to June 30, 1994
Jeff Wall, Fine Arts, January 1, 1994 to June 30, 1994
Paule McNicoll, Social Work, July 1, 1993 to December 31, 1993

Commerce & Business Administration
Iain Cockburn, July 1, 1993 to December 31, 1993
Vojislav Maksimovic, July 1, 1993 to June 30, 1994
David Tse, July 1, 1993 to June 30, 1994

Forestry
Peter Dooling, May 1, 1993 to August 31, 1993

Law
Robert Grant, July 1, 1993 to June 30, 1994
James MacIntyre, July 1, 1993 to June 30, 1994

Science
Kanti Patel, Botany, January 1, 1994 to April 30, 1994
Yoshikata Koga, Chemistry, September 1, 1993 to June 30, 1994
Priscilla Greenwood, Mathematics, July 1, 1993 to December 31, 1993
Jian Liu, Statistics, July 1, 1993 to June 30, 1994

Vice President, Student & Academic Services
Joseph Jones, Library, July 1, 1993 to June 30, 1994

Administrative Leaves

Applied Science
A.L. Mular, Metals & Materials Engineering, July 1, 1993 to June 30, 1994

Education
Ron MacGregor, Visual & Performing Arts in Education, July 1, 1993 to June 30, 1994

Forestry
Antal Kozak, Forest Resources Management, July 1, 1993 to December 31, 1993

Graduate Studies
Brian Seymour, Institute of Applied Mathematics, July 1, 1993 to June 30, 1994

Medicine
David Lirenman, Paediatrics, September 1, 1993 to August 31, 1994

Science
Paul LeBlond, Oceanography, January 1, 1994 to June 30, 1994



Forum

Seven myths about Canada's social programs

by John A. Crane

John Crane is a Professor Emeritus in the School of Social Work. His study is funded by Health and Welfare Canada.

Will Rogers once said: "It's not the things we don't know that hurt us, but the things we know that aren't so."

Findings from my current project on the public's views of directions for social provision in Canada cast doubt on much of the conventional wisdom on this topic with which we are barraged by media.

My project is the first in a proposed series of regional studies in Canada, to be followed by a national study, on the public's views of directions for social welfare provision. It is a consultation, primarily by means of in-depth interviews, with samples of household heads randomly selected in Vancouver and Abbotsford and members of organizations involved with social programs, both for and against.

Two hundred and ten respondents took part in the study. Findings deal with the meaning of social services to the respondents, their support for the 'welfare state', and directions in which they want to take social welfare in Canada.

Based on my data, the following appear to be examples of things we know that aren't so:

1. *There are large savings to be had by "targeting" social programs for the poor, for whom the programs are intended.*

Data: 98 per cent of my sample, presented with a standard list of 32 social programs, reported using at least one of them during the previous 12 months. Half the sample reported using between two and six of the programs. Seventy-seven per cent of the sample rated the impact on their lives of one or more of these encounters as major. It is clear that the social programs play a major role in the lives of the whole population, not just the 'needy'. Targeting services to 'those who really need them' is an illusion.

2. *Canadians are angry at the government and want to cut back on its social policy commitments.*

Data: Strong majorities favour government continuing its commitment to such goals as

redistributing wealth, ensuring that the population is housed, and providing social services.

3. *There is a widespread anti-welfare backlash in the population.*

Data: Only six per cent of respondents said they are opposed to welfare, but there is evidence of serious concern about weak administration, from both friends and opponents of welfare.

4. *The baby boomer generation had better provide for its own retirement, as Canada Pension Plan will have gone broke before this generation reaches retirement age.*

Data: A small minority of baby boomers have ample retirement portfolios. However, the large majority have slim retirement packages and aren't in a financial position to upgrade. To advise these people to provide for their own retirements is unrealistic.

5. *Public support for the comprehensive social programs put into place after the Second World War has seriously declined.*

Data: Strong majorities favour a comprehensive list of social programs. Only tax shelters for business investment are opposed.

6. *The public is unwilling to pay more taxes to support social programs.*

Data: A majority said they would be willing to pay more taxes to enable a number of programs to continue. (It has often been found that the public favours tax cuts in general, but is willing to pay more taxes for specific purposes they see as worthwhile.)

7. *On welfare issues people vote with their pocketbooks, supporting mainly those social programs from which they themselves directly benefit. Thus social programs are examples of the vulnerability of governments to special interest groups.*

Data: As found in this and many other studies, there is very little correlation of income, age, gender and other demographic variables with support for social programs. Support cuts across all such categories as other studies have indicated. The comments of most of the respondents implicitly defined 'self interest' in very broad terms; e.g. many respondents cited universal health care as a benefit of being Canadian.



Abe Hefter photo

Soccer Stars

The mini World Cup tournament held at the UBC soccer camp is a weekly event throughout the summer months on Lett and Todd fields. The tournament is preceded by a parade featuring participants and their home-made flags of the World Cup nations. More than 1,000 children between the ages of five and 13 take part in the popular summer soccer program.

Clinic finds epidemic of marital troubles

by Connie Filletti

Staff writer

The term 'love sick' has taken on new meaning for Dr. Michael Myers.

The clinical professor of Psychiatry heads a Marital Discord Clinic to deal with what he describes as an "epidemic" of troubled relationships, an epidemic evident in Statistics Canada reports that show 40 per cent of marriages in 1991 ended in divorce.

"The problem is only partly reflected in the divorce statistics. Family doctors see signs of marital stress all day long," Myers added.

Myers cautioned that unrecognized and untreated mental illness such as clinical depression, panic disorder or obsessive-compulsive disorder can cause marital conflict.

Located at Shaughnessy Hospital, but soon moving to St. Paul's, the Marital Discord Clinic serves gay and lesbian couples, blended families, and people who are living together and dating, in addition to traditional spouses.

Based on his case load, Myers estimates that women account for 90 per cent of the complaints about unhappy relationships. He feels that they are more willing to come forward because they have a history of embracing health care.

Myers said that many men don't, owing to their sense of privacy and because they are embarrassed to discuss their problems in front of strangers.

"Often men are nervous about coming to a psychological milieu where they are talking about feelings. Historically, that's a woman's domain."

He added that with a tendency to be action-oriented, many men are reticent about seeking professional counsel when they feel they can handle the problem themselves.

For others, it may be a case of denial or a mistrust of counsellors and psychiatrists, especially if previous treatment was unsuccessful.

Poor communication with their mate is the most common complaint women have, Myers said, as well as a general feeling of unhappiness.

Although most separations and divorces are initiated by women, Myers finds the trend prevalent among younger women.

"Women in their 30s and 40s are more concerned about the quality of their relationship," he said. "Older women rarely seek divorce. Often, they have never lived on their own so they would rather maintain the status quo out of a fear of loneliness, or an irrational fear of not being able to cope."

Men who stay in unhappy relationships are largely motivated by an intense sense of responsibility and feel that divorce still carries a stigma, Myers said.

"It's a lonely and empty life, but not a high stress one and they can live with that."

As a result, some individuals referred to the clinic may require specific treatment for these disorders in addition to marital therapy.

One thing Myers is convinced of is that in certain cases separation is the best thing for the relationship.

"I define success as each of the individuals feeling clearer about what's going on and coming to a decision."

He has also considered what may contribute to the longevity of a relationship.

"Marriages do not take care of themselves. Be prepared to work at communication. Put a premium on it."

Myers also recommends striking a balance between independence and interdependence, maintaining a sense of humour and putting yourself in the other person's shoes.

Myers is assisted in the operation of the teaching clinic by fourth-year medical students and residents in Psychiatry or Family Practice.

Myers, who has been married for 24 years, believes that there is tremendous mystery in marriage, and isn't certain why some survive and others don't.

Despite the uncertainty, he has scrutinized doctors' marriages and how men deal with divorce in two books to his credit. A new book entitled, *How's Your Marriage? A Guide for Men and Women* is due for publication next year.

UBC schools pursue ties with U.S. universities

UBC's schools of Architecture and Community and Regional Planning are exploring the possibility of joint research and educational programs with counterparts at two U.S. universities.

Called the Cascadia Alliance, the tri-university consortium will link UBC with architecture, building, planning and landscape architecture schools at the universities of Oregon and Washington.

Among the proposed initiatives are: starting a regional journal for professionals; opening the schools' international studies programs to faculty

and students in all three schools; a student and teacher exchange; joint research efforts, particularly in the area of sustainability for the region; and the establishment of computer linkages for more efficient information-sharing and for teaching purposes.

Representatives from the three universities plan to meet twice a year with the next meeting scheduled for December.

The alliance's first meeting was held last month at the new headquarters for the Port of Seattle.

Researchers seek ways to recycle lab solvents

by Gavin Wilson

Staff writer

Each year, more than 30,000 litres of solvent are used in labs across campus, then collected, stored in a south campus facility and trucked to the United States to be incinerated in cement kilns.

But a more environmentally-friendly system is in the offing, says the head of a pilot project which is currently investigating alternative methods of recovering solvent for re-use.

Research scientist Mark Aston estimates that as many as 15,000 litres of solvents, about half of what the university now sends for incineration each year, could be recovered.

In the process, UBC could save as much as \$50,000 a year, since it costs twice as much to dispose of the common solvents used at the university as it does to purchase them.

Aston is conducting the project for the Sustainable Development Research Institute, with funding from the B.C. Ministry of Environment. The work is a natural extension of a campus-wide hazardous waste

audit Aston completed last year.

The current project, which began in June, employs two students and involves collecting used methanol, a common solvent, from four labs in the Botany Dept.

Methanol is used in Botany labs to clean equipment, remove stain from gels and extract substances from specimens.

"In labs across campus there are a whole host of different uses for solvents and they become contaminated with many different substances," Aston said. "That's one of the problems we have in recovering them."

In each of the participating labs there are four collection cans in which methanol is deposited according to the way it was used, much as paper is separated in recycling bins.

The methanol is then taken to a lab in the Chemical Engineering Building where recent Science graduate Bang Dang runs it through some preliminary tests to see what impurities it contains - most often water, coloured dyes and other solvents. Sometimes the methanol stream is too contaminated or diluted to

recover.

Once this is done, the student uses a few pieces of simple equipment to re-distill the methanol.

"It's working out quite well. Even with this very simple system, we're getting up to 98 per cent pure methanol," Aston said.

Third-year Chemical Engineering student Sergio Berretta, is looking at other methods of extracting contaminants from solvents.

The pilot project has yielded very promising results, and recently received a \$200,000 grant from the the B.C. Ministry

of Advanced Education for new equipment and substantial funding from the university for staffing over the next two years.

Aston hopes this will lead to a permanent program, which he said would require only the cost of wages for a part-time employee or student.

Copps on Campus . . .



Abe Heffer photo

Sheila Copps, above at right, Liberal member of Parliament for Hamilton East, is greeted by Joan Anderson, director of the Multicultural Liaison Office, left, and Veronica Strong-Boag, director of the Centre for Research in Women's Studies and Gender Relations. Copps, the Liberal deputy leader, took part in a round table discussion July 8 at UBC along with Anderson; Strong-Boag; Dan Birch, vice-president Academic and Provost; Forestry Dean Clark Binkley; Hamish Kimmins, the associate director of the Sustainable Development Research Institute; Bob Miller, vice-president, Research; Graduate Studies Dean John Grace; and Bill Webber, associate vice-president, Academic.



John Chong photo

Art Charbonneau, B.C.'s Minister of Transportation and Highways, right, discussed policy and planning initiatives designed to help UBC meet its transportation needs with Setty Pendakur, left, professor of Community and Regional Planning, and Trevor Heaver, director of the Centre for Transportation Studies in the Faculty of Commerce and Business Administration. Charbonneau's tour of campus last month included the earthquake and structures laboratories in the Dept. of Civil Engineering.

. . . and Talking Transit

Project profiles wife abusers

by Charles Ker

Staff writer

Wife abusers are prone to violent mood swings, chronic anxiety, depression and sleep disturbances. They also lack a sense of personal identity which stems, in part, from cold, rejecting fathers.

These observations are drawn from a personality profile, developed at the University of British Columbia's Dept. of Psychology, of men who are physically abusive to their female partners.

Prof. Don Dutton says his "Propensity for Abusiveness" profile can detect, with 82 per cent accuracy, those men who are "repeatedly, cyclically and in a predatory fashion" abusive in intimate relationships.

"This tool pegs the quintessential 40 per cent of chronic physical abusers who are the way they are because it is part of a specific personality makeup," said Dutton. "The other 60 per cent are those who,

for whatever reasons, are responding to short-term stress or are themselves generally violent."

Funded by Health and Welfare Canada and the federal solicitor general, the two-year project involved 160 men, 60 of whom were self-referred for wife assault, 60 referred by the courts and 40 picked from similar socioeconomic backgrounds as those receiving treatment.

The men filled out a 29-item questionnaire which asked about personal recollections of child abuse, their levels of anger, how they viewed themselves and their parents and how they thought others viewed them.

These "self-reports" were then compared with reports submitted by female partners which outlined the amount and types of abuse they themselves were subjected to over the course of one year.

"The women provided us with a means of validation to a degree that we could predict which of these men would be highly

abusive based on the personalities gleaned from the questionnaire," said Dutton.

Dutton added that the questionnaire is the first effective tool for identifying highly abusive men.

He describes previous efforts at explaining wife assault as "driftnet approaches" which brand all men as potentially assaultive when, in fact, 90 per cent are not.

The study, which began in 1990, has spawned a total of 11 reports dealing with various aspects of assaultive behaviour and its origin.

Four of the reports will be published this year in scholarly journals including the International Journal of Law and Psychiatry and the Journal of Personality Disorders.

A forensic psychologist, Dutton has been studying wife assault for 18 years. His program for assaultive husbands treats 80 Vancouver men each year with 16 weeks of group therapy.

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Rapid Eye Movement

With researcher Jennifer Lajoie monitoring the results, graduate student Ken More's point of gaze is being graphed by an eye-movement recorder. The experiment is being done by the School of Human Kinetics to determine reaction time and its relationship to the complexity of eye movement.



Abe Heffer photo

Forestry unit favours long-term analysis over a quick fix

by Abe Heffer

Staff writer

The Forest Economics and Policy Analysis (FEPA) unit isn't interested in quick fixes when it comes to the daily controversies that face the forest industry in Canada.

It is FEPA's ability to provide solid, long-term scientific research that has given the unit its competitive edge, according to FEPA Director Ilan Vertinsky, and he is promising more of same unique, long-term approach as the unit embarks on a new five-year phase.

"Our mandate demands a strategic national research agenda," he explained. "We are not looking for short-term solutions to complex issues."

During the last nine years, FEPA has provided timely, factual and objective information and analytical support for forest sector policy in Canada.

FEPA's initial three-year thrust, under the direction of Forestry Prof. Peter Pearse, included an assessment of the B.C. forest sector, in addition to an analysis of economic factors associated with wood supply in Canada.

Vertinsky said these two pioneering projects received much attention and helped put FEPA on the Canadian research map.

Over the next five years, with Vertinsky at the helm, FEPA broadened the scope of its projects and expanded its network of researchers to include academics from across the country. The strategic mission of the unit, however, remained constant.

"We were responding to a variety of policy debates but refused to get involved in the daily controversies, as a group," said Vertinsky. "This impartial, long-term approach remains a key to the unit's success."

The unit, which is based in

the Faculty of Graduate Studies, draws heavily on interdisciplinary expertise. The university's management committee includes Dean Clark Binkley from the Faculty of Forestry, Dean Michael Goldberg of the Faculty of Commerce and Business Administration, Dean John Grace of the Faculty of Graduate Studies, and Dean Patricia Marchak of the Faculty of Arts.

It is chaired by Les Lavkulich, chair of Resource Management Science at UBC.

The unit's associate director is University of Alberta Economics Professor Michael Percy.

In addition, an advisory panel composed of provincial and federal government and industry representatives offers input as FEPA deals with forestry-related issues of concern to the entire country.

Vertinsky said over the next five years, FEPA researchers will focus their attention on a limited number of longer-term projects covering three key areas: international trade and competition, integrated forest resource management planning, and tenure arrangements for timber and non-timber uses of the forest.

"The current tenure system, for example, was developed to ensure the orderly and efficient harvesting of old-growth timber," explained Forestry Prof. David Haley, the leader of one of FEPA's major projects.

"This system of transferring property rights from the government to the private sector dates back to the early 1900s and does not deal with environmental, wildlife and recreational issues. There is a need for a new tenure and forest management system which effectively accommodates the demand of different stakeholders for different forestry resources."

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Miscellaneous

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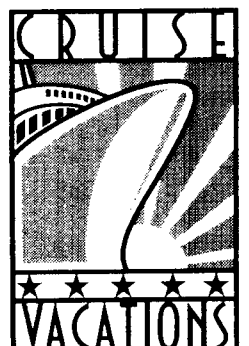
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May 12	Arrive Bangkok, Thailand (transfer to hotel)		
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May 14	Bangkok		
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Cruise Schedule			
May 15	Singapore		embark overnight
May 16	Singapore		6.00pm
May 17	Port Kelang (Kuala Lumpur), Malaysia	8.00am	7.00pm
May 18-19	Cruise South China Sea		
May 20	Ho Chi Minh City (Saigon, Vietnam)		10.00am overnight
May 21	Ho Chi Minh City		5.00am
May 22	Da Nang (Hue), Vietnam		7.00am 10.00pm
May 23	Cruise South China Sea		
May 24	Canton, China		8.00am 7.00pm
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Gravin Wilson photo

On The Ball

Summertime and the living is easy on campus, as students take time out between classes for impromptu volleyball games on the grassy central median of Main Mall.

Insulin-like drug could offer diabetics a new alternative

by Connie Filletti

Staff writer

UBC scientists have synthesized an insulin-like substance which may offer an alternative approach to treating diabetics.

The researchers found that in a new synthetic form, vanadium — a simple trace element — is effective in reducing elevated blood glucose and fat levels in diabetic rats. It also prevents secondary complications associated with the illness, such as heart disease.

Although earlier studies by the UBC researchers indicated that vanadium could mimic the effects of insulin in its inorganic, or naturally occurring state, they

also found it to be poorly absorbed from the gut and responsible for gastrointestinal toxicity, primarily diarrhea.

"We developed an organic vanadium complex in an effort to make the vanadium more available through better absorption," explained Violet Yuen, an investigator of the study.

Yuen, a research assistant in the Faculty of Pharmaceutical Sciences, and colleagues John McNeill, dean of Pharmaceutical Sciences and Chris Orvig, an associate professor of Chemistry, studied the effects of synthetic vanadium administered to diabetic rats orally in drinking water.

"The treatment was effective in reducing blood sugar to near

normal," Yuen said. "The drug also prevented the decrease in heart function normally seen in diabetics and restored cholesterol and other fat levels to normal."

She added that the dose necessary to achieve these effects was less than half of that needed when inorganic vanadium was used.

Yuen presented the group's research at a conference sponsored by the American Society for Pharmacology and Experimental Therapeutics in San Francisco last month.

Funding for the study was provided by the Canadian Diabetes Association and the Natural Sciences and Engineering Research Council of Canada.

Quake price tag could top \$90 billion

by Abe Heffer

Staff writer

UBC Commerce Prof. Peter Nemetz has put a multi-billion dollar price tag on the devastation the Lower Mainland could face in the event of a catastrophic earthquake.

The damage estimate: anywhere between \$51 and \$97 billion for an offshore subduction earthquake with a magnitude of between 8.2 and 9.3 on the Richter scale.

"Such an earthquake could result in the destruction of up to 93 per cent of the capital stock in the Lower Mainland, such as buildings, roads, bridges, and other forms of infrastructure," said Nemetz.

This study comes on the heels of a similar report he completed last year for the Munich Reinsurance Company of Canada. Munich Reinsurance, which provides financial backing for insurance companies, had determined that it needed to do more research when it came to assessing the risks associated with earthquakes.

The insurance industry has been selling earthquake insurance for many years and thought it had a good handle on what to expect in terms of damage, Nemetz explained.

"However, the 1985 earthquake that hit Mexico City proved them wrong. The quake, which registered 8.1, killed 10,000 people and resulted in \$4 billion in damages.

"The insurance industry was surprised at this pattern of damage and realized it was relying on geophysical and building models that were inadequate," Nemetz said.

In early 1989, Munich Reinsurance approached Nemetz with the following scenario: If an earthquake registering 6.5 on the Richter scale hit the Strait of Georgia, how much damage could it cause?

Nemetz said the company focused on Vancouver because the southwest coast of British Columbia, including the Lower Mainland, is located in one of the most seismically active regions of the country. It was Nemetz's

job to do an analysis of residential and commercial development throughout the entire Lower Mainland. This he did, generating his data through an intensive study of 3,000 structures in Vancouver's West End.

Working with architects, Nemetz studied several factors, including age, height, square footage, structure, use, and assessed value of these buildings.

He also set out to determine the replacement cost for these structures, while factoring in the costs associated with fire, landslides, floods, the collapse of the city's infrastructure, onsite injury and loss of life.

The price tag for buildings and contents was between \$8 and \$16 billion for the Lower Mainland.

"When you add indirect costs, which are harder to get a handle on, such as profit losses for business, the figure rises to between \$14 billion and \$32 billion," said Nemetz.

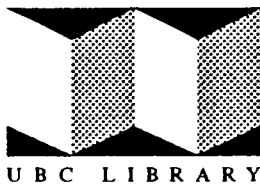
After completing the study, Nemetz went back to the drawing board in an effort to look at the entire probability spectrum by doing a much more detailed assessment. His first move was to look at the economic effects of an earthquake ranging from 8.2 to 9.3 on the Richter scale.

Nemetz returned to his original investigation and applied different risk factors based on a stronger magnitude. However, because there is very little data to draw from when it comes to this kind of worst-case scenario, these calculations are much harder to predict, he said.

"This is, after all, highly speculative. An earthquake of this magnitude hitting the Lower Mainland is an extremely low probability event," Nemetz said.

"Although these figures are much more uncertain, the information does give respective governments a sense of the potential loss involved in an earthquake like this. It allows them to start thinking about upgrading key installations like schools, hospitals, bridges and dams — a course of action that is already being undertaken by the Greater Vancouver Regional District."

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Profile

"I'm interested in capturing moments of ennui, mild distress or anxiety."

Here comes Ken Lum

by Charles Ker

Staff writer

Stumped. That's how Ken Lum's entry left judges in the Art Gallery of Ontario's functional sculpture competition.

Among the more than 300 submissions they received, his three by three-and-a-half-metre steel rectangle, with its inviting yet inaccessible conversation pit, was a piece of intrigue. But surely there had been some mistake.

It wasn't a chair or table. It cast no light or shade. Inquiring judges wanted to know ... just what would its function be to patrons relaxing on the gallery's new outside terrace?

Desperate, they phoned the Vancouver artist in Munich where he was teaching for the summer and posed the question.

"It functions as art," came the reply. Touché.

Lum's sculpture will be one of three "functional" designs to grace the grounds of the downtown Toronto gallery at the corner of Dundas and McCaul streets. It also represents his first outdoor creation.

"All my work ends up either in gallery or museum spaces so this is an opportunity for me to stretch myself and create something in the context of a public space," said the UBC Fine Arts graduate and assistant professor.

Not that he's complaining. During the last decade, this lifelong Vancouverite has had more than 40 solo exhibitions and been invited to twice as many group shows in galleries around the world.

Next to the giant, backlit photographs by UBC colleague Jeff Wall, Lum's portrait logos, furniture

sculptures and language paintings are considered among Canada's best known conceptual art works abroad. He's been profiled in all the major international art journals and, at 36, can now pick and choose where to hang, or place, his ideas; all this, from a former, promising pestologist.

It was the summer of 1978, while working as a pesticide researcher for the provincial government, that Lum's part-time fascination with art became a full-blown obsession. He recalls the strange metamorphosis soon after enrolling in a philosophical art class taught by Wall.

"There I was in Cloverdale, wearing a lab coat, peering through a microscope and thinking about art," he said. "After Jeff's course, I just couldn't concentrate on science anymore."

Wall exposed Lum, the sometime illustrator, to a range of artistic media and concepts which Lum the scientist initially dismissed as "utter nonsense."

Later that summer, his lab coat in mothballs, Lum would be spotted standing motionless off a freeway ramp for three consecutive days during



John Chong photos

"There I was in Cloverdale, wearing a lab coat, peering through a microscope and thinking about art."

morning rush-hour. The solitary spectacle was presented to commuters as a performance art work Entertainment for Surrey.

Before the end of the year, Lum exhibited the first of his many furniture sculptures. Sculpture for Living Room saw four sections of a department store sofa arranged to form an impenetrable rectangle. Then came Partially Buried Sofa featuring a run-of-the-mill couch piled high with 200 multi-coloured throw cushions. Line, in 1986, showcased six, upended couches stretched in a row across the length of a gallery.

The point, says Lum, is that people have different personalities for their public and private lives. By juxtaposing familiar home furnishings with the perceived sanctity of a gallery space, he's exploring that "quasi-public, quasi-private zone" in between.

"This relationship affects me and if it affects others, great," he said. "In an age when everything can be bought and sold, is there such a thing as a truly autonomous sphere?"

Like any other artist, Lum says he's simply articulating his feelings toward a modern environment which he sees as chaotic, banal, harsh, and dynamic. But its contradictions are not altogether negative.

For his witty portrait logos, Lum takes stock studio portraits, normally reserved for the office desk or living room side table, blows them up into mini-billboards, and affixes bits of bold, colourful text, often with hilarious results: a sneering, raunchy rock band in a veneer-panelled basement poses beside the proclamation (in gothic, heavy-metal type), We Are Sacred Blade; a little girl gazing adoringly into the mask of Pepe Pizza's giant pink mascot carries the commentary, Tracy Bond Meets Pepe Pig; a sidewalk-strutting macho man - jewelry, leather, hairy-chest and all - bears the attached warning, Here Comes Barry Russo.

Again, the presentation of enlarged, seemingly personal snapshots (all of which use models and are carefully staged), mounted in two-inch-thick aluminum casings with glossy car-enamel finish, turns the public and private worlds inside out.

"The outside modern world is pretty banal with cities sharing the same franchises, billboards and street signs," Lum explains. "I'm interested in capturing those highly individual moments, moments of ennui, mild distress or anxiety."

With his so-called language paintings, Lum pokes fun at the standardized conventions of

advertising. Resembling bus billboards or storefront signage, these eye-catching works blend modern graphic design and typography with Lum's own imaginary gibberish. But because the public is so conditioned, and language so suggestive, Lum says people feel a need to interpret nonsensical creations like IGNTH, ZEWSKDR and SYBRI.

"This displacement of the familiar makes us question how language is constructed," he said. "It's not natural."

Besides, he adds, walking around a studio making noises and putting them to words on plywood is fun, not to mention convenient. Specifications for his language paintings are often faxed to far-away exhibits where a professional signpainter is commissioned to produce, in effect, a paint-by-numbers reproduction.

Lum acknowledges that it is harder today for young artists to get their work shown in galleries. He was fortunate to have lived in New York City for a year in the early 1980s, a time of gallery openings and big-time spending.

"Obviously you have to make work that interests someone but there is no logic between who gets a show and who doesn't," he said. "Once that foot is in the door though, and your work gets visible, then you're on your own."

Living on the west coast, cut off from the Toronto-Ottawa-Montreal art axis, Lum knows all about that. And he has no plans to move.

"I'm from here, I like it here, my work is about here and that's important to me."

Touché.

